EMKA Beschlagteile

BUSINESS UNIT TRANSPORT

# Ingenious Locking Technology for Rail and Road

Expanded edition

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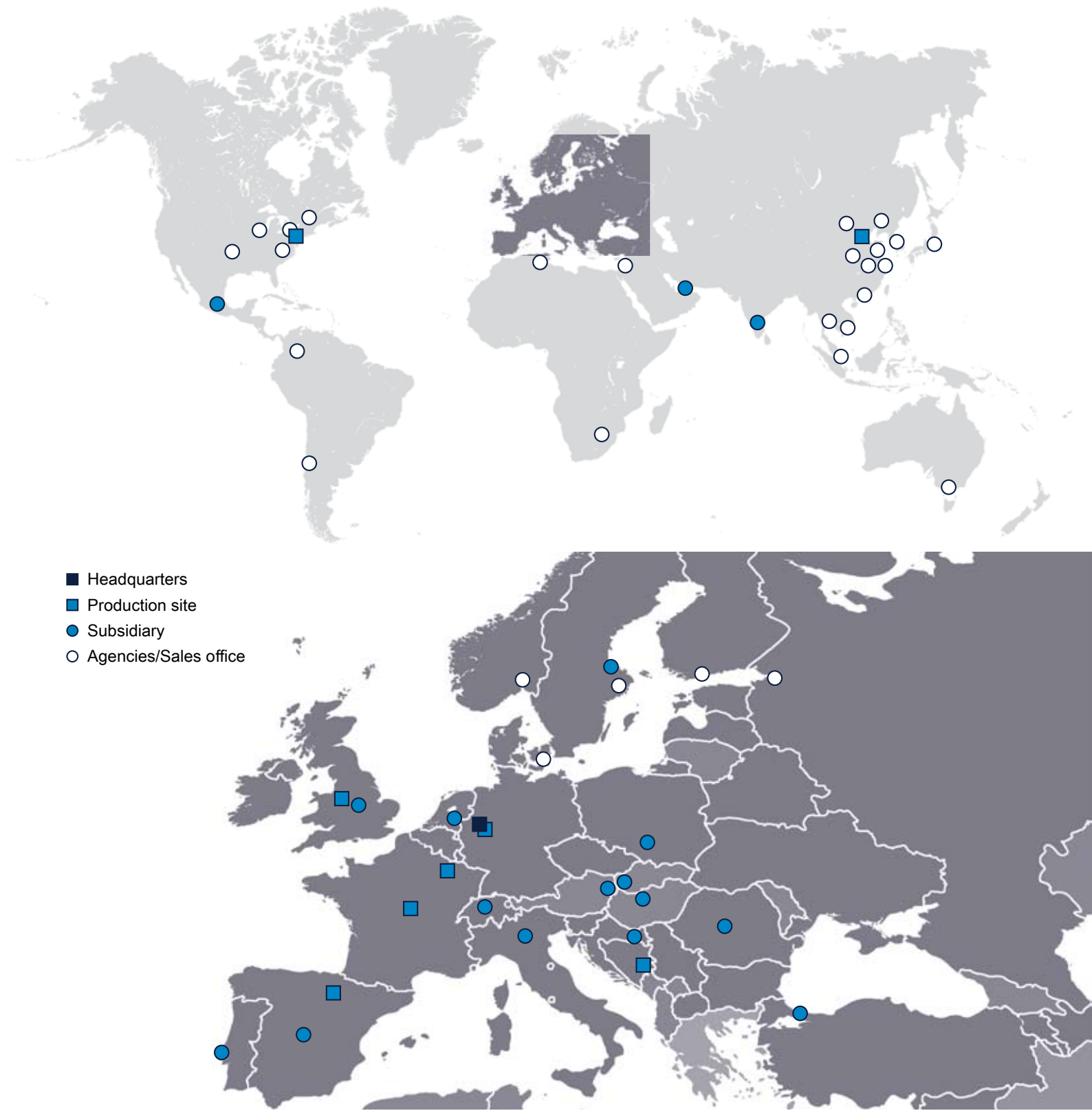



# EMKA worldwide

Wuppertal, Germany

Velbert, Germany

Middletown PA, USA

Birmingham, England

Bourré, France

Henriville, France

Arnedo, Spain

Tianjin, China

Goražde, Bosnia and Herzegovina

The EMKA group is one of the worldwide leading manufacturers of lockings, hinges and seals for enclosures in the areas of industry, electronics and transport.

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

With 1,400 employees, the company is represented in 46 countries worldwide.

Locks/Latches

Hinges

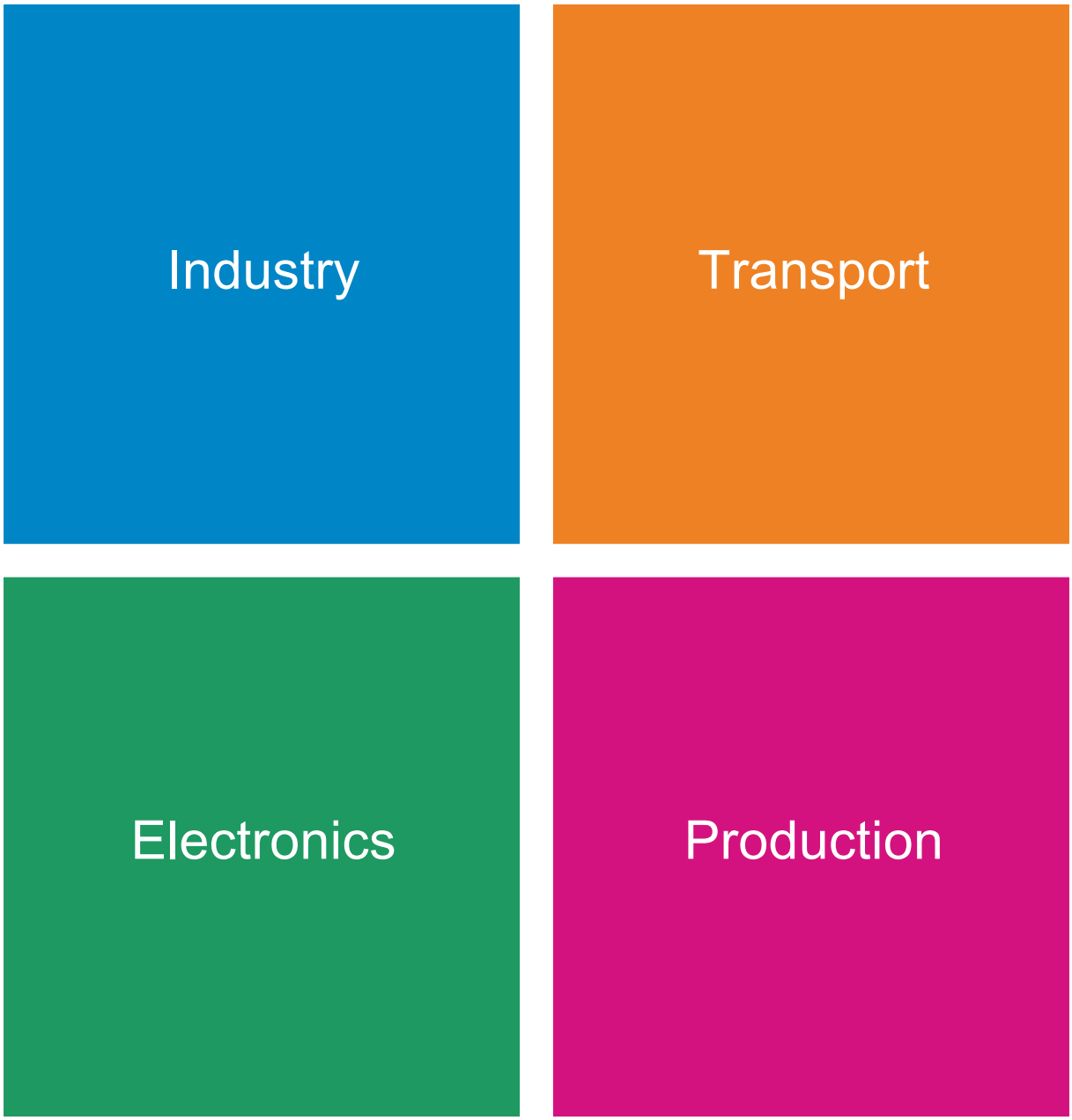
Gasketing

Accessories

# 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.




# 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.

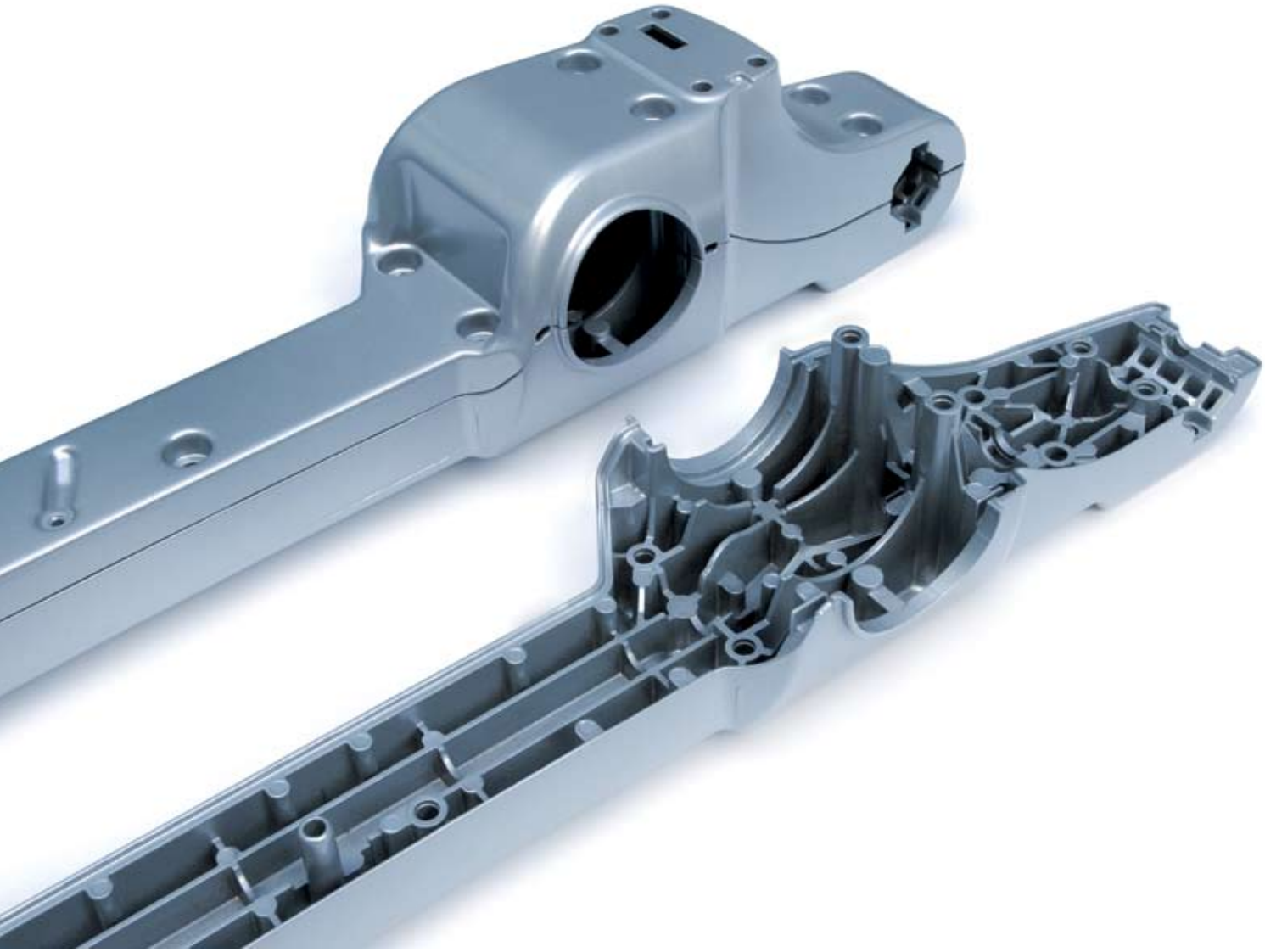
Extrusion of Profiles

Injection Moulding

Stamping, Bending
and Forming Technologies

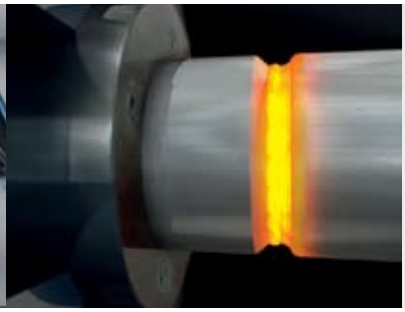
Zinc Die Casting

# Production from A to Z



Die Cast Aluminium

Aluminium Forging



Friction welding

SST Precision Casting

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

Other production technologies are stamping, bending, turning, milling, coating, and the final assembly of modular structured product solutions.

Thus, EMKA sets quality standards in locking technology.

# Solutions for the road

For many years, EMKA has been a major partner of the automotive industry. In its in-house technology centre, EMKA develops standardised product solutions, as well as customised components and systems for furnishing commercial and special vehicles.

The EMKA product range is also used in vehicle bodies as well as in motor homes and caravans.

Whether locks, handles, hinges or gaskets for diverse mobile applications: EMKA products always stand for maximum safety and reliability.

References:
Daimler Benz, MAN, Viseon

# Solutions for special vehicle construction

Special vehicles for road construction, agriculture and forestry, emergency services and disaster control, are exposed to particularly harsh conditions. Wetness, dirt, temperature fluctuations, vibrations and permanent load make extraordinary quality demands for the installed components. The locking systems of EMKA are designed for these special demands.

According to DIN EN 61373 vibrationproof designed locks, undetachable foamed seals, as well as various materials and surfaces, are available with many standard solutions.

The large production depth of EMKA makes the delivery of the complete locking system, consisting of lock, hinge and gasket as well as useful accessories, possible.

# Solutions for the rail

The product ranges specifically for the rail industry is characterized by its modular design, versatility and high quality.

It meets the specific requirements of the industry and corresponds to the relevant standards of the branch such as EN 45545 „Railway applications – Fire protection of railway vehicles“.

The wide product range of EMKA comprises outdoor as well as indoor applications for railway vehicle construction.

References:
Bombardier, Deutsche Bahn, Stadler, Voith, Vossloh

BMW

Porsche

Ferrari

Porsche

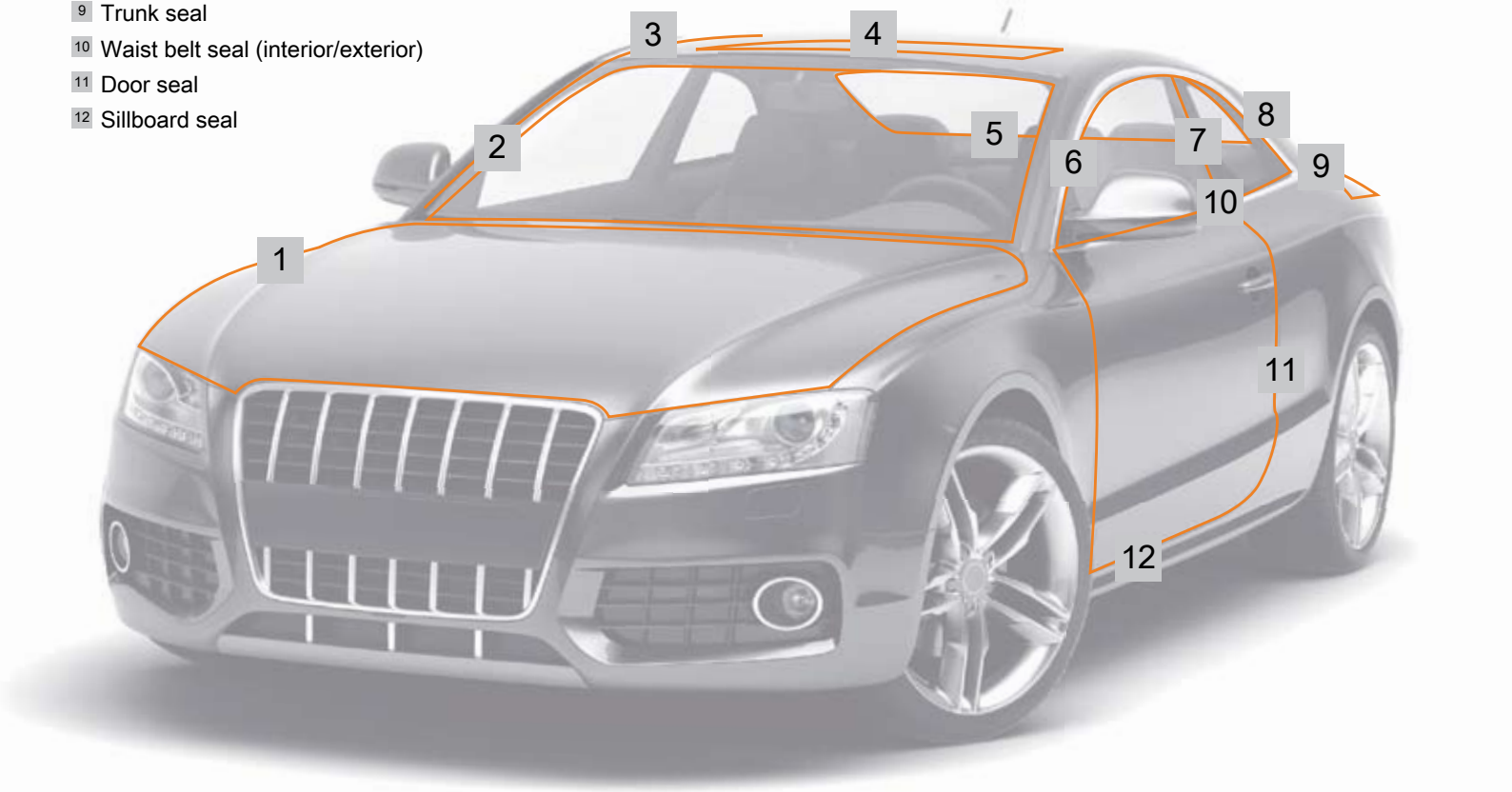
VW

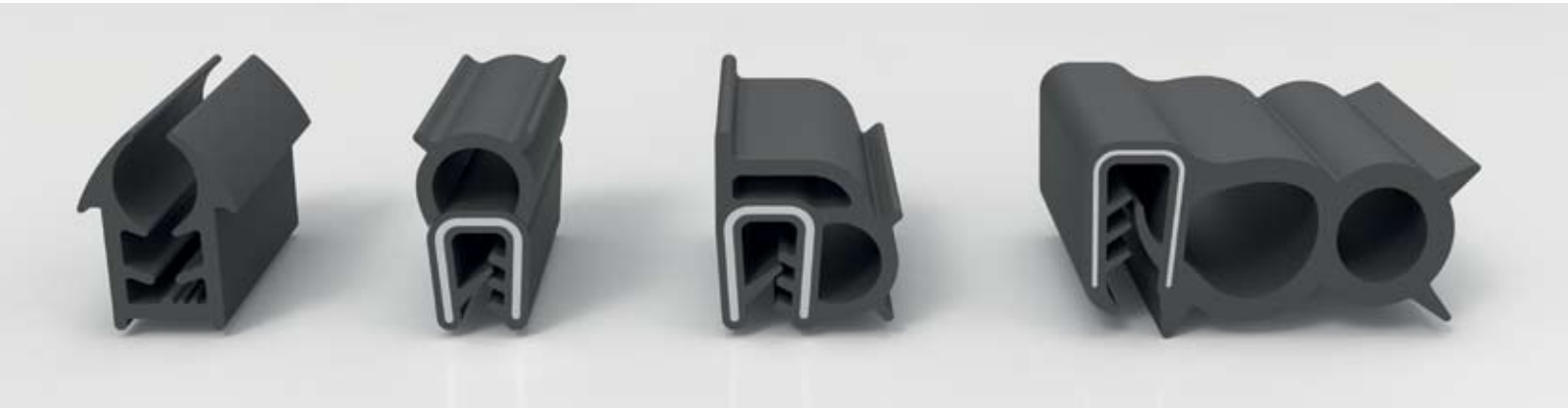
Bentley

Aston Martin

# Solutions according to customer drawings

1 Engine compartment seal
2 Front shield frame
3 Roof gap seal
4 Sunroof seal
5 Back window frame
6 Glass run seal
7 B-pillar seal
8 Encapsulated quarter window
9 Trunk seal
10 Waist belt seal (interior/exterior)
11 Door seal
12 Sillboard seal



Besides 15,000 own catalogue articles, EMKA offers individual production according to customer drawing. An ultra-modern machinery and an extensive know-how in different manufacturing technologies allow maximum material and variant diversity.

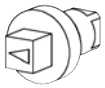
EMKA offers a wide range of customized rubber profiles, support profiles, hollow section sealing and lip seals in a wide variety of hardnesses. Loops and roll editing tape, stamped steel and reinforcements of textile fibres can be additionally incorporated.

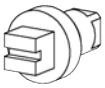
In further processing, it is possible to manufacture fixed lengths, rings and corner frames. Applying adhesive, bonded coating or flocking, complete the offer.

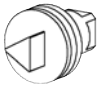
References:
Audi, BMW, Böckmann, Busch-Jäger, Concorde, Dethleffs, Dyn. Nobel, Euramax, EVOBUS, Happich, Hella, Hymer, Karman, Kiekert, Knaus, Land Rover, MAN, Siemens VDO, Tabbert, Volkswagen

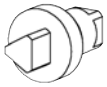
# Chapter 1:
# Latches and handles

# Inserts

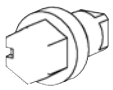

Square

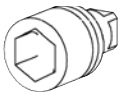

Square with slot

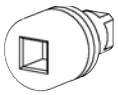

Triangular CNOMO

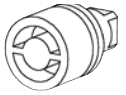

Triangular

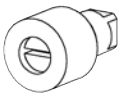
Double bit

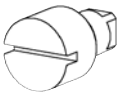

Hexagon male

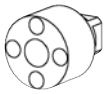

Hexagon female

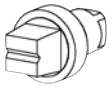

Square female

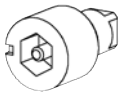

Daimler Benz

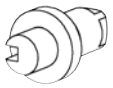

Slot 1.2 x 3

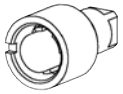

Slot 2 x 4

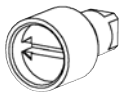

FIAT


Railway


Hexagon female with pin


Ø 8.6 with slot


Tube


Slot 2 x 4 coinproof

Crown type

East-European ø 13 half round



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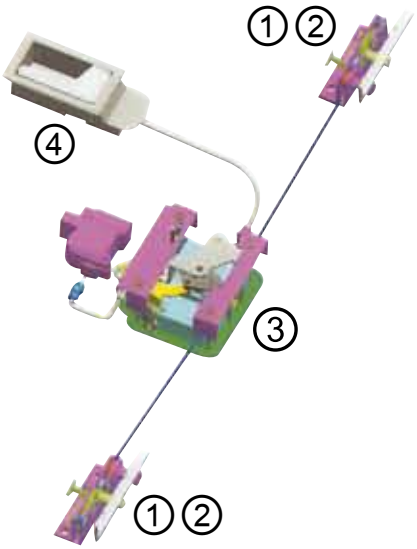
## Door locking system

System image




### Technology

- M1 tested locking system, according to EU specification 70/387
- two rotary latch locks to be positioned freely, hence double security
- Automotive interior door release, zinc die chrome plated, can be positioned freely
- Burglar-proof by exterior handle with freewheel clutch
- Exterior handle designed for clip-in cylinder
- Emergency opening from the interior

### Handling

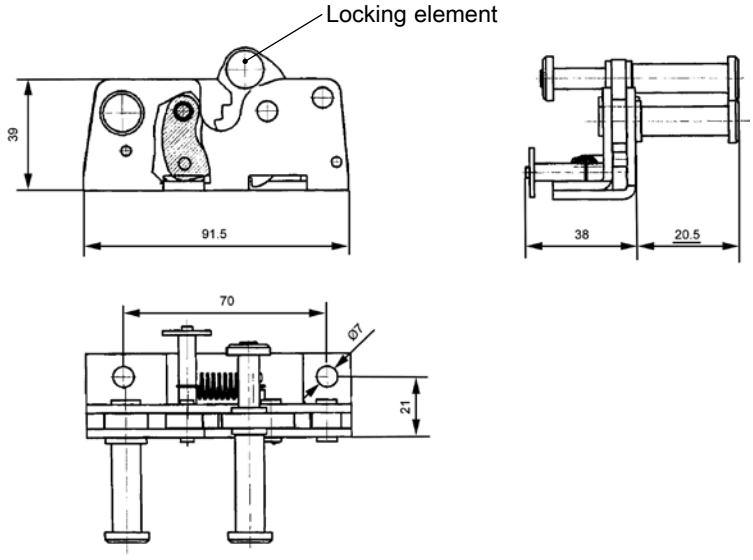
- ergonomically designed actuators
- specially smooth-running operation
- small closing force, hence very quiet
- with central locking, convenient and secure

### Versions

- colours as per request
- also available as M1 tested locking system with rotary latch lock
- Interior door release with galanized surface in alu-look
- designed for clip-in cylinder, compatible with clip-in cylinder system 3
- optionally without central locking

1

2




| Rotary latch lock m.s. zinc plated; with spring | |
|---|---|
| right, as drawn | 2004-B8036 |
| left, mirror image | 2004-B8031 |
| **Strike plate St zinc plated** | |
| right, as shown | 2004-B8034 |
| left, mirror image | 2004-B8027 |

**On request:**
– Round rod Ø4 available

**Further parts see page**
– Exterior handle 1.1-125
– Inside handle 1.1-125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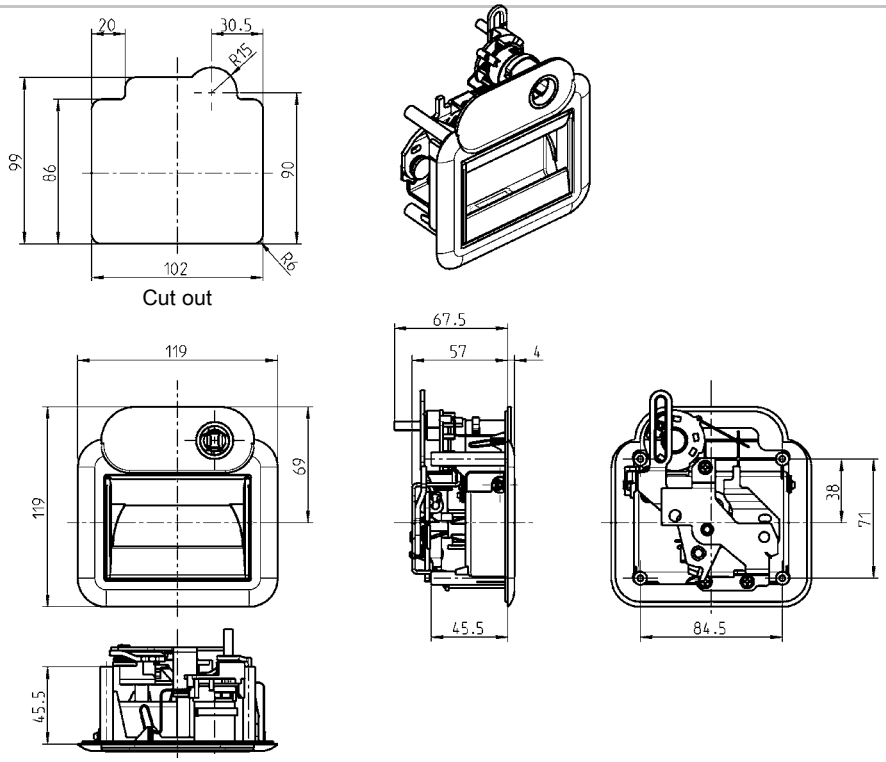


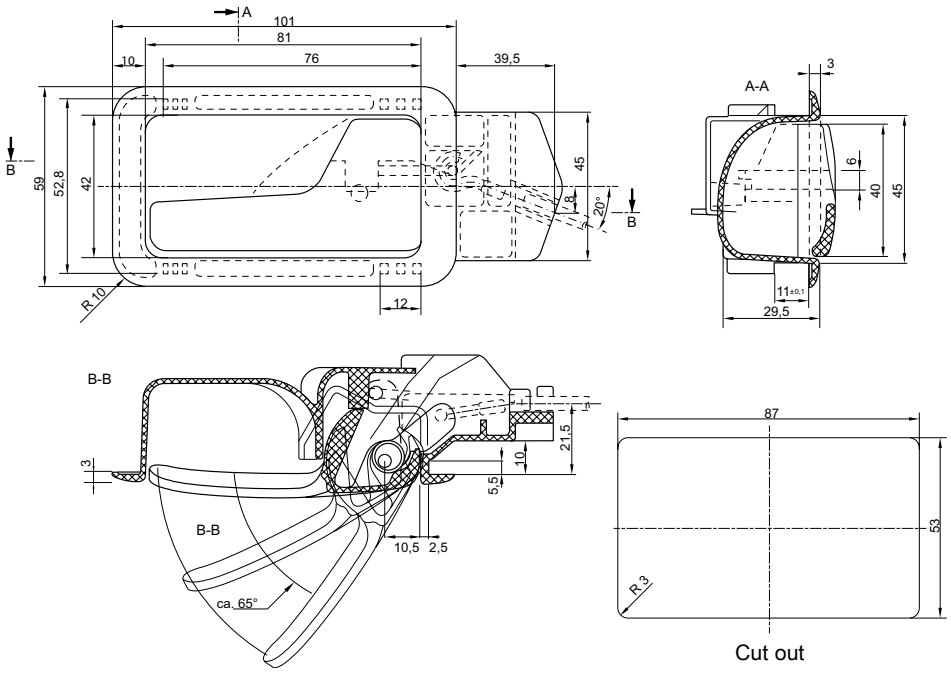

③

| Exterior handle polyamide GF black; pivot m.s. zinc plated; pivot arm zinc die zinc plated; with spring | |
|---|---|
| RH/LH | 2004-B8811 |
| **Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys** | |
| keyed 8888 | 9850-U100 |
| keyed different | 9850-U101 |

**On request:**
– Round rod Ø4 and bowden cable available

**Further parts see page**

| | |
|---|---|
| – Inside handle | see below |
| – Rotary latch lock | 1.1-120 |
| – Striking plate | 1.1-120 |




④

| Interior handle polyamide GF black; handle zinc die matt chrome plated; tie rods, mounting plate and strike plate m.s. zinc plated; bowden cable m.s. wire coated | |
|---|---|
| right, as drawn | 5177-U200-AA |
| left, mirror image | 5177-U201-AA |

**On request:**
– further colours
– bowden cable available

**Further parts see page**

| | |
|---|---|
| – Exterior handle | see above |
| – Rotary latch lock | 1.1-120 |
| – Striking plate | 1.1-120 |

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Notes:

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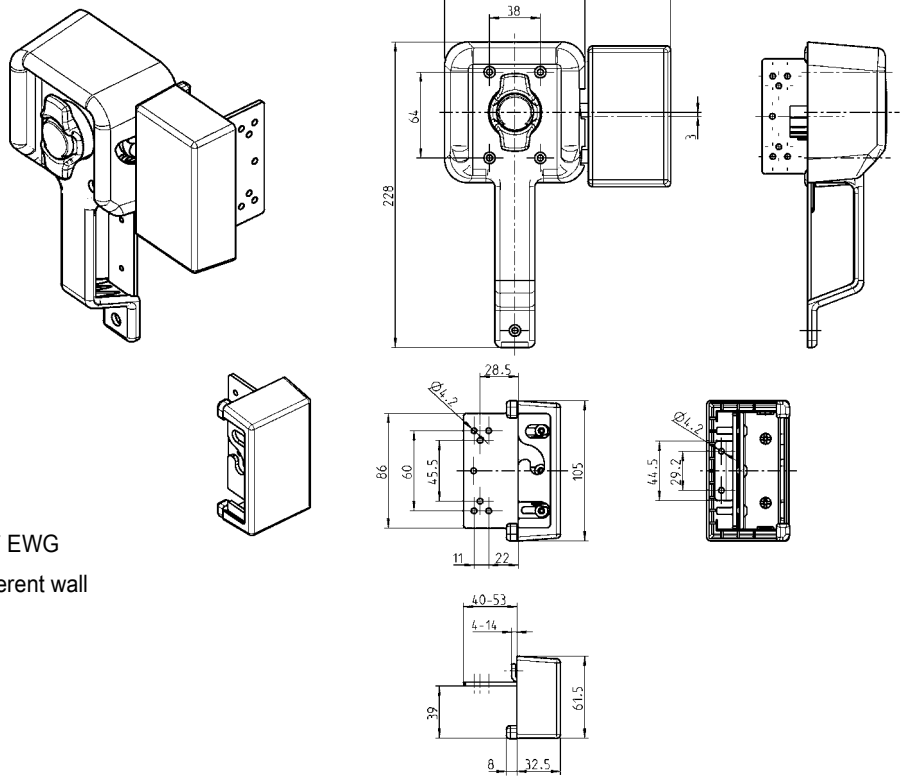
# Interior lock; exterior handle

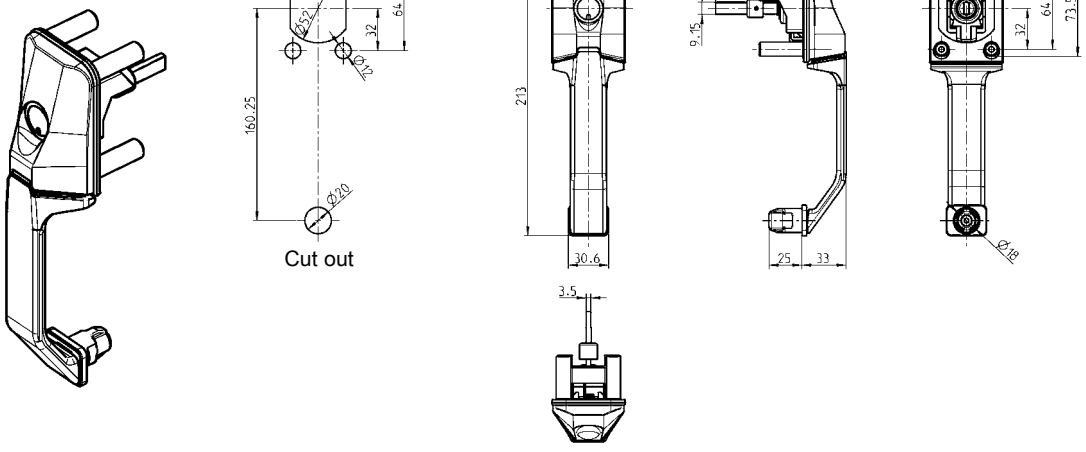
*PROGRAM 5271*




- according to European Standard 70/387 EWG
- available in different colours and for different wall thicknesses

| | |
|---|---|
| **Interior lock polyamide black; case m.s. zinc plated; clamp m.s. zinc plated; covering cap polyamide black; with spring** | |
| Door thickness = 30; right | 9400-U218-AA |
| Door thickness = 30; left | 9400-U219-AA |

**Further parts see page**
– Exterior handle see below




| | |
|---|---|
| **Exterior handle for clip-in cylinder polyamide GF black; pivot arm, cap and handle housing POM; bush zinc die zinc plated; tappet zinc die chromated; with seal and spring** | |
| RH | 5271-U600-AA |
| LH | 5271-U601-AA |
| **Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys** | |
| keyed 8888 | 9850-U100 |
| keyed different | 9850-U101 |

**Further parts see page**
– Interior lock see above 1.1-150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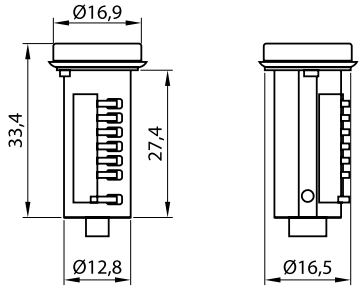
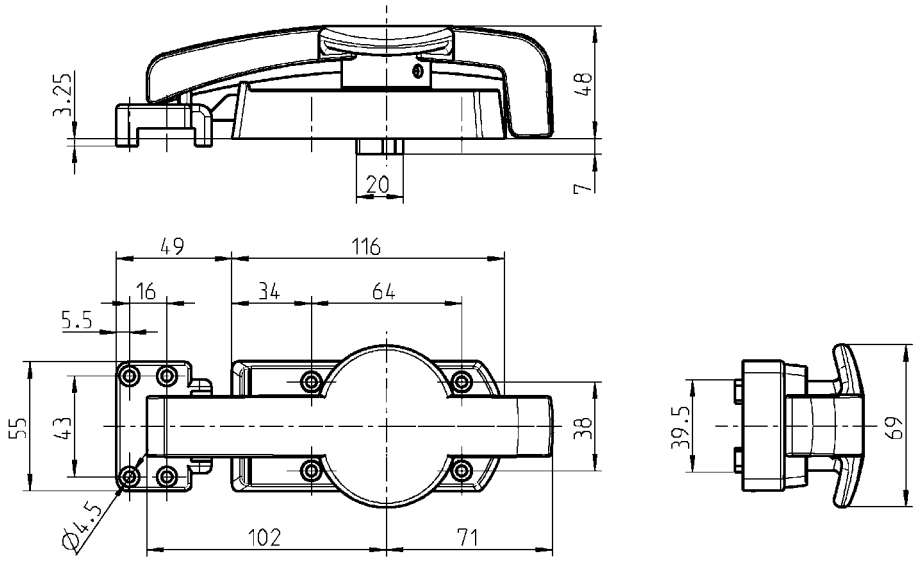
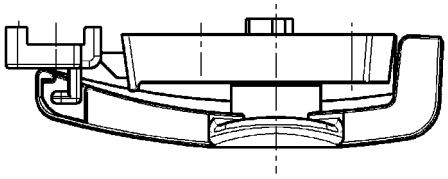
# Clip-in cylinder
# Interior lock
## *PROGRAM 9500, 9850*

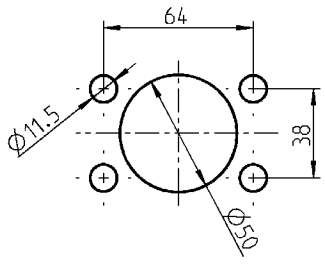



| Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys | |
|---|---|
| keyed 8888 | 9850-U100 |
| keyed different | 9850-U101 |

- available in various colours and door thicknesses from 29 - 36 mm
- Please order clamp separately






Cut out

| Interior handle polyamide black; pivot stainless; plate and screws zinc plated; with spring | |
|---|---|
| RH | 9500-U802-AA |
| LH | 9500-U805-AA |
| **Clamp zinc die black; 4 plastic plugs** | |
| | 9500-U701-AC |

**Further parts see page**
– Exterior handle 1.1-160
– Spacer plate 1.1-170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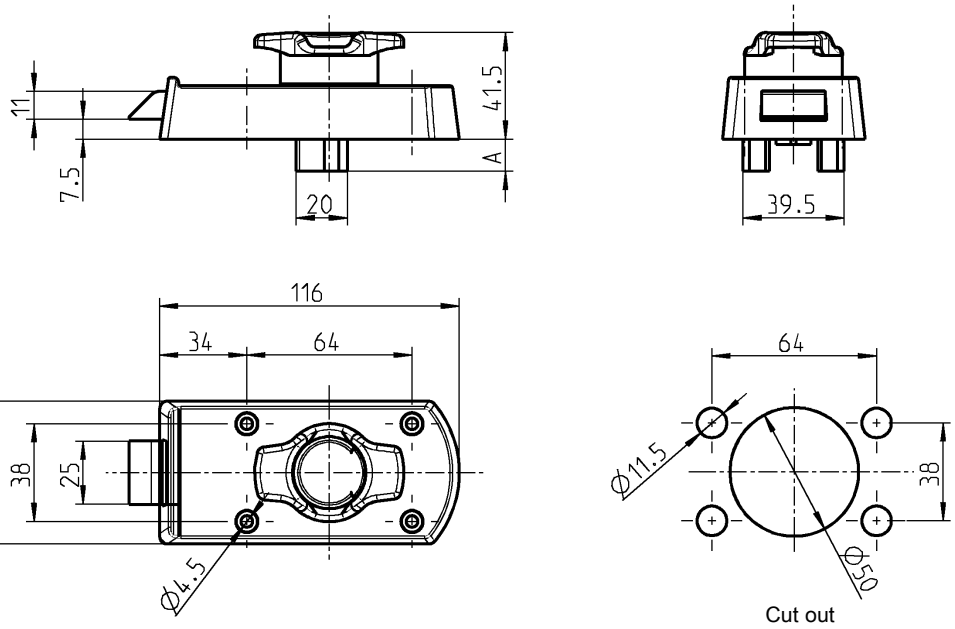


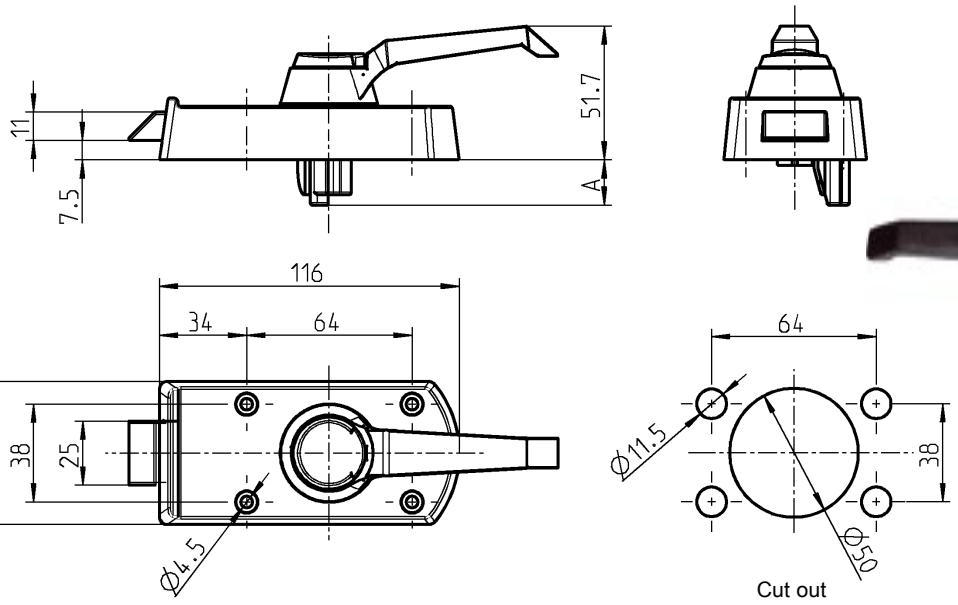

Cut out

- available in various colours
- Please order clamp separately
- RH and LH application

| Interior handle polyamide black; pivot stainless; plate and screws zinc plated; with spring | | | |
|---|---|---|---|
| for exterior handle (1) or (2) | A | LH | RH |
| Door thickness = 31 - 35; for (2) | 6,5 | 9301-U803-AA | 9301-U802-AA |
| Door thickness = 32 - 36; for (1) | 12,5 | 9301-U813-AA | 9301-U812-AA |
| Door thickness = 35 - 39; for (2) | 10,5 | 9301-U805-AA | 9301-U804-AA |

**Further parts see page**


– Exterior handle (1) 1.1-130
– Exterior handle (2) 1.1-160
– Locking block 1.1-160
– Handle plate 1.1-170
– Spacer plate 1.1-170


Cut out

- available in various colours
- Please order clamp separately
- RH and LH application

| Interior lock polyamide GF black; handle material of your choice; cam and plate POM; pivot stainless steel; with seal and spring | | | |
|---|---|---|---|
| | A | LH | RH |
| Door thickness = 24 - 29; handle polyamide black | 3,5 | 5131-U659-AA | 5131-U649-AA |
| Door thickness = 32 - 36; handle zinc die black powder coated | 10,5 | 5131-U737-AC | 5131-U738-AC |
| Door thickness = 36 - 40; handle polyamide black | 17,5 | 5131-U593-AA | 5131-U658-AA |

**Further parts see page**


– Exterior handle 1.1-220
– Locking block 1.1-160
– Handle plate 1.1-170
– Spacer plate 1.1-170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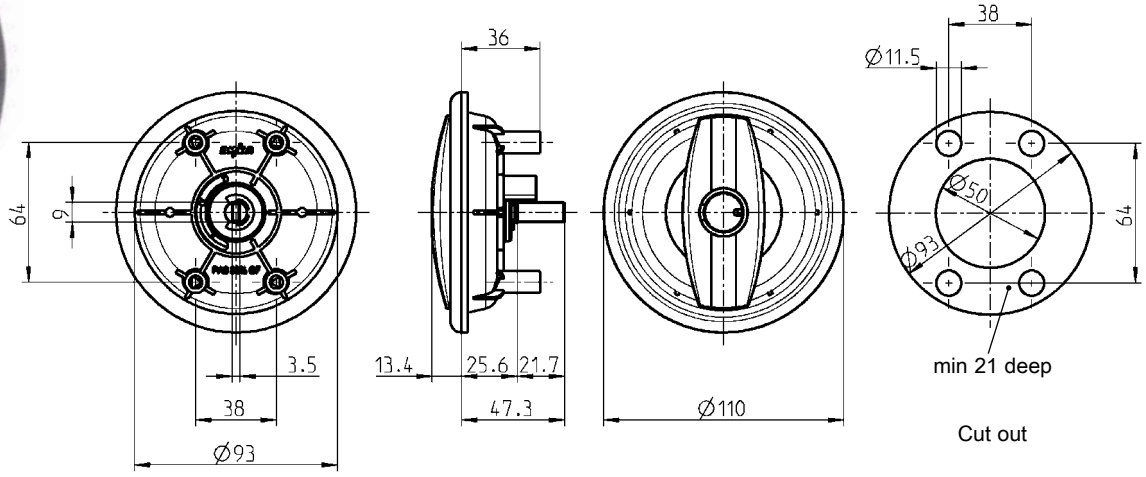
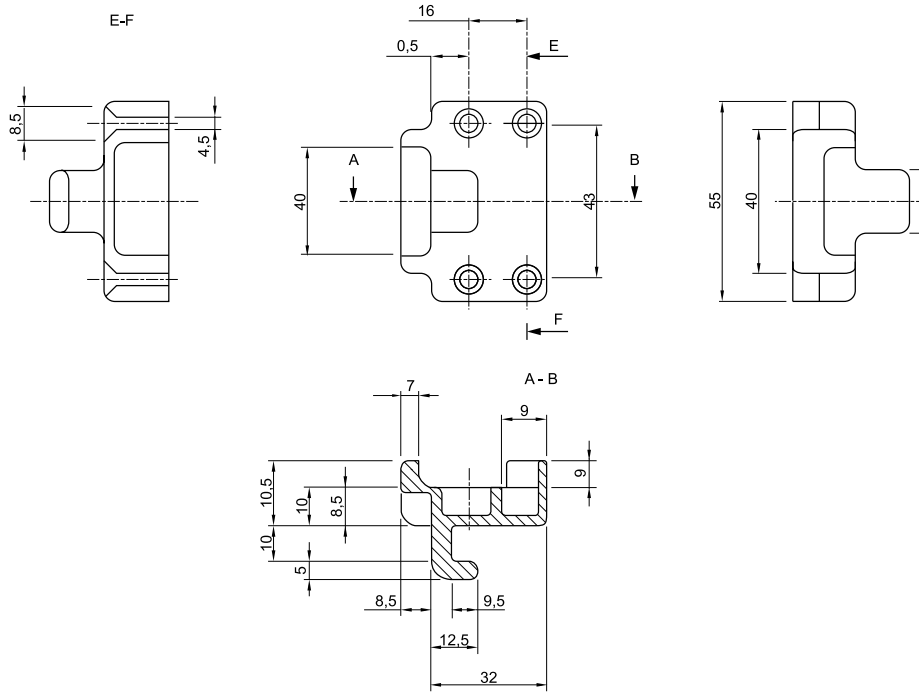
# Exterior handle; clamp

*PROGRAM 9301, 9500*




| | | |
|---|---|---|
| | **Exterior handle polyamide GF black; bush zinc die zinc plated; tappet zinc die chromated; with seal and spring** | |
| | RH | 9301-U500-AA |
| | LH | 9301-U501-AA |
| | **Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys** | |
| | keyed 8888 | 9850-U100 |
| | keyed different | 9850-U101 |

**Further parts see page**
– Interior lock 1.1-140
1.1-150




| | | |
|---|---|---|
| | **Clamp zinc die black; 4 plastic plugs** | |
| | | 9500-U701-AC |

**Further parts see page**
– Interior lock 1.1-140
1.1-150



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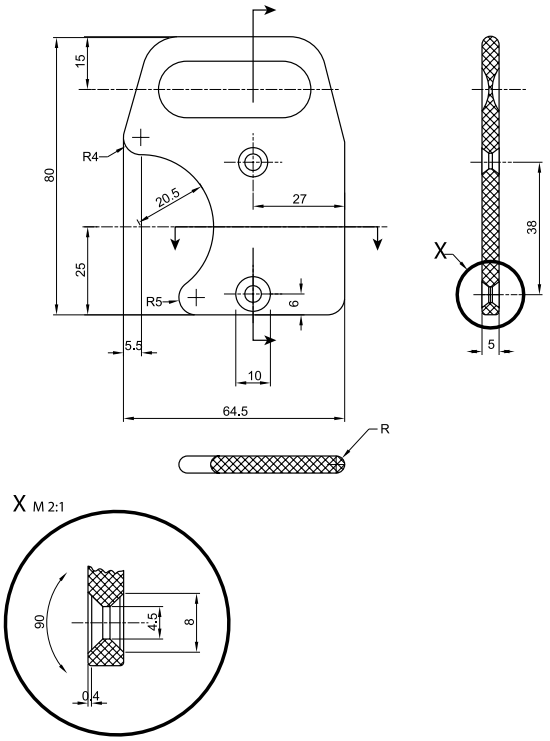
# Handle plate; spacer plate

*PROGRAM 5131*

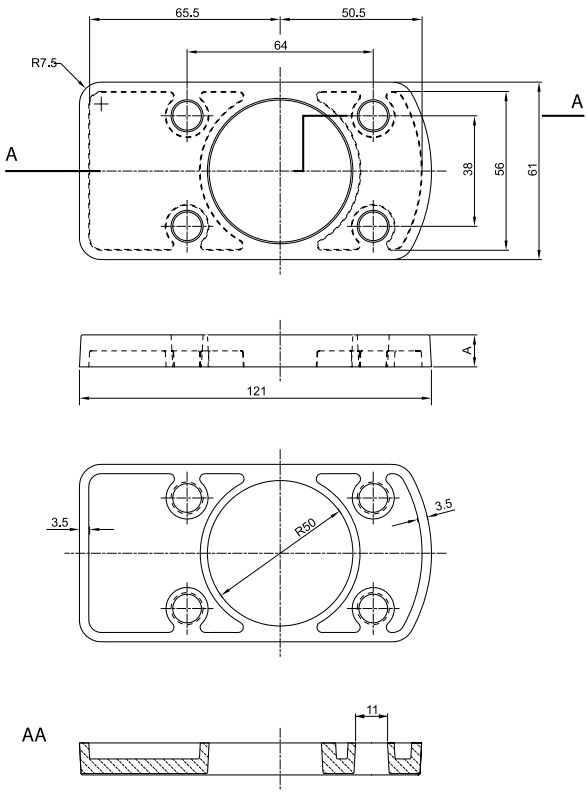


- for interior locks
- Hole center distance 38 mm

**On request:**
– further colours

| Handle plate polyamide black | |
|---|---|
| | 5131-4064-AA |

**Further parts see page**
– Interior lock 1.1-140
1.1-150



**On request:**
– further colours

| Spacer plate polystyrene black | |
|---|---|
| A = 2 mm | 5131-4000-AA |
| A = 4 mm | 5131-4001-AA |

**Further parts see page**
– Interior lock 1.1-140
1.1-150

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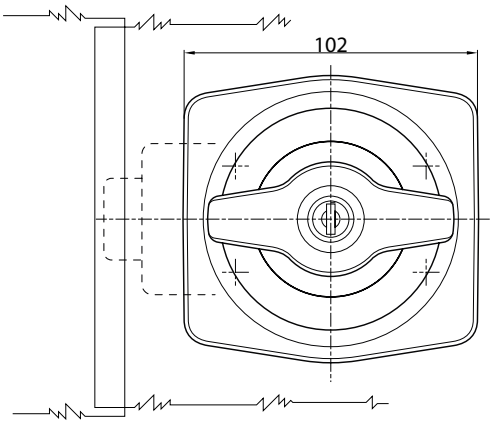
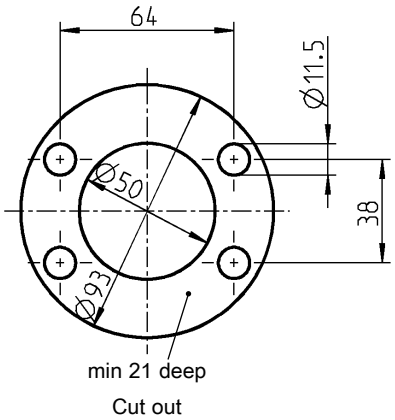
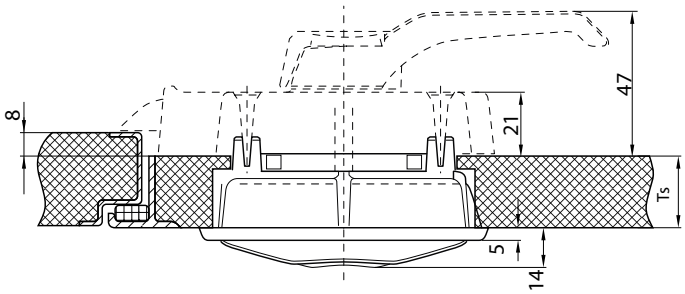
# Exterior handle

*PROGRAM 5131*




- lockable with GX lock
- consisting of interior lock and exterior handle
- Ts = door thicknesses

| Exterior handle polyamide GF black; pivot stainless steel; plate cylinder zinc die chrome plated with two keys; plate and screws m.s. zinc plated; with spring | | |
|---|---|---|
| | LH | RH |
| Door thickness = 24 - 29 | 5131-U606-AA | 5131-U638-AA |
| Door thickness = 32 - 36 | on request | 5131-U644-AA |
| Door thickness = 36 - 40 | on request | 5131-U758-AA |

**Further parts see page**
– Interior lock 1.1-150



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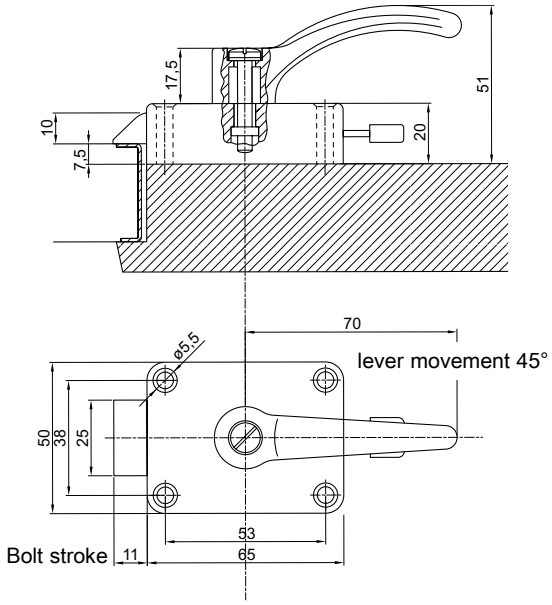
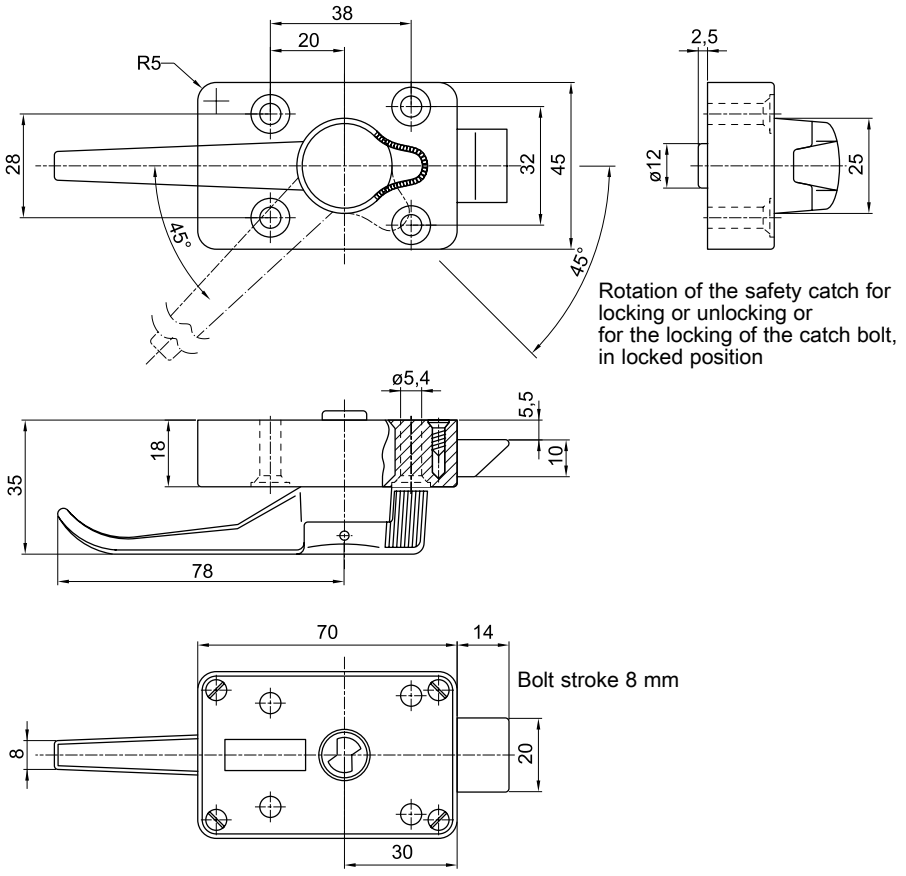


- with inside handle and locking device

**Interior lock zinc die chrome plated; inside handle alu polished; locking device plastic**

5036-U640-IK



- with inside handle and locking device

**Interior lock zinc die chrome plated; inside handle alu polished; locking device plastic**

5064-U647-IK

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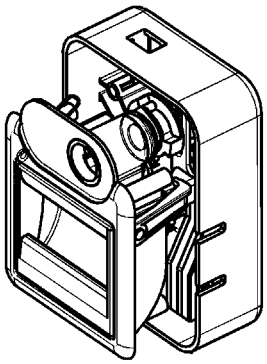
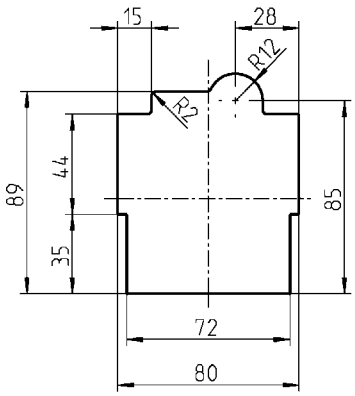
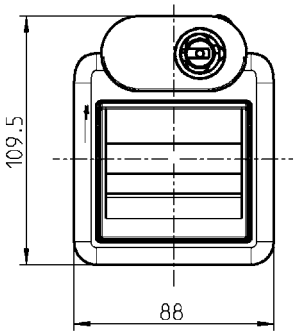
# Flap lock for stow box

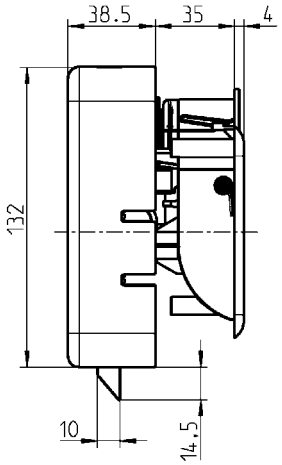
*PROGRAM 9802*

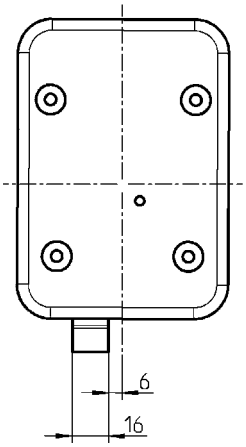


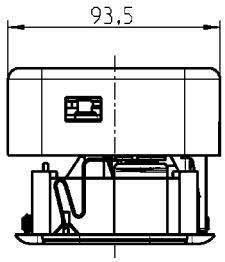



Cut out




## Technology

- redesigned locking system with bolt locks
- Interior lock freely positionable
- Burglar-proof by exterior handle with freewheel clutch
- Exterior handle prepared for clip-in cylinder
- Emergency opening from interior

## Handling

- ergonomically designed actuators
- specially smooth-running operation
- small closing force, hence very quiet

## Versions

- colours as per request
- multi-point locking = increased security
- available as 1-, 2- and 3-point locking mechanism

**on request**
– with central locking and interior unlocking slide

| | |
|---|---|
| **Lock for stow box polyamide GF black; excentric POM black; adapter for clip-in cylinder zinc die chromated; tappet, pivot arm and bush zinc die zinc plated; screws, plates and pins m.s. zinc plated; with spring** | |
| | 9802-U810-AA |
| **Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys** | |
| keyed 8888 | 9850-U100 |
| keyed different | 9850-U101 |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Cover of engine housing transparent

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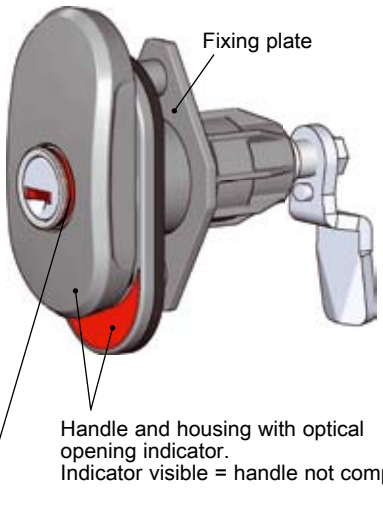
# Compression lock “Double Red” with double optical opening indicator for stow box

*PROGRAM 1000*

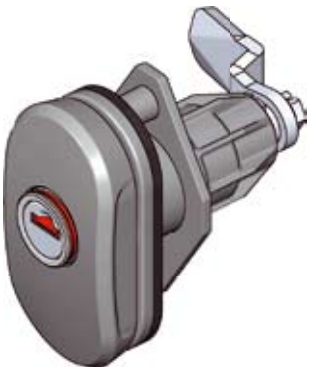
**Product description:**

The compression latch has two optical opening indicators. These consist of the indicator of the clip-in cylinder and the second indicator for the position of the handle. In case the opening indicator on the sleev and the clip-in cylinder is visible, the compression latch is unlocked. The same is true for the opening indicator between handle and housing. In case the opening indicator is visible, the compression latch is compressed.



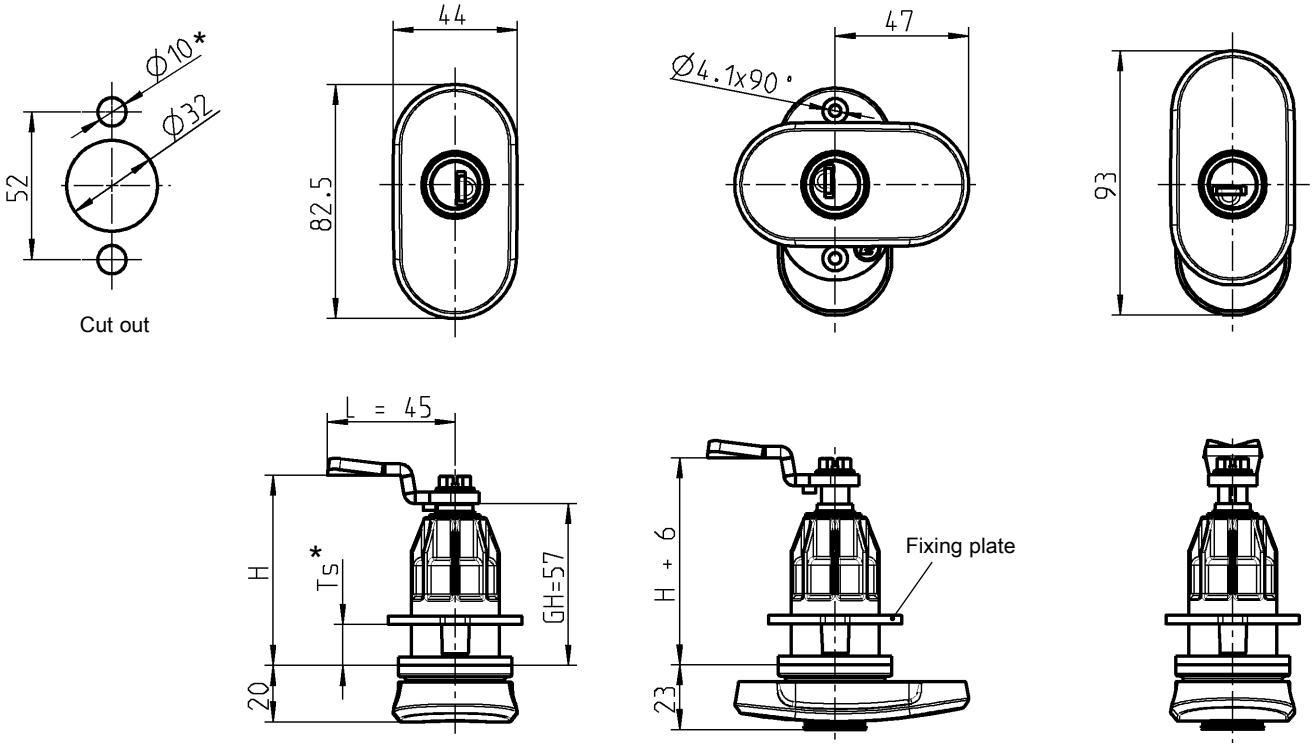
Clip-in cylinder locked:

Unlock Clip-in cylinder:



Clip-in cylinder unlocked:

Lock clip-in cylinder:




* Attention:
When the fixing plate is turned over, the cut out holes are decreased from Ø10 auf Ø4.1. The Maximum value of the Ts dimension is decreased by -10 mm.



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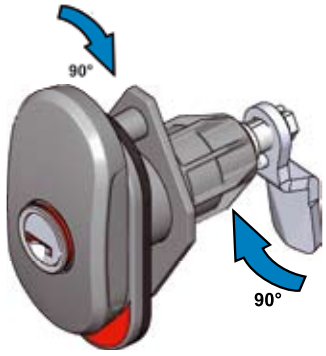
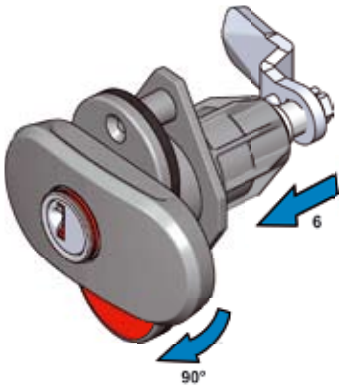
### Vibration proof

The compression latch is vibration-proof according to DIN EN 61373. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.

| | | |
|---|---|---|
| **Compression lock polyamide GF black for clip-in cylinder; bush for clip-in cylinder zinc-die zinc-coated; adapter, cog and locking shaft zinc-die; fixing plate POM black; Signal ring polyamide GF red; screw, circlip and pin m.s. zinc coated, with spring and seal, key can be removed in both positions** | | |
| Clip-in cylinder | | |
| System 1 | | on request |
| System 2 | | 1000-U866-02 |
| System 3 | | 1000-U866-03 |
| **Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys** | | |
| keyed 8888 | | 9850-U100 |
| keyed different | | 9850-U101 |
| **To be ordered separately: cam m.s. zinc plated Cams with other H and L dimensions on request. Minimum quantity 2000 pieces** | | |
| H | Ts | **GH = 57 mm** |
| 43 | 17 - 38 | 1000-112 |
| 45 | 17 - 40 | 1000-22 |
| 47 | 17 - 42 | 1000-113 |
| 49 | 17 - 44 | 1000-21 |
| 52 | 17 - 47 | 1000-20 |
| 53 | 17 - 48 | 1000-19 |
| 55 | 17 - 50 | 1000-18 |
| 57 | 17 - 50 | 1000-17 |
| 59 | 17 - 50 | 1000-16 |
| 61 | 17 - 50 | 1000-15 |
| 63 | 17 - 50 | 1000-14 |
| 64 | 17 - 50 | 1000-27 |
| 65 | 17 - 50 | 1000-50 |
| 67 | 17 - 50 | 1000-13 |
| 69 | 17 - 50 | 1000-28 |
| 71 | 17 - 50 | 1000-26 |
| 73 | 17 - 50 | 1000-12 |
| 74 | 17 - 50 | 1000-11 |
| 75 | 17 - 50 | 1000-51 |
| 77 | 17 - 50 | 1000-52 |
| 79 | 17 - 50 | 1000-25 |
| 81 | 17 - 50 | 1000-53 |
| 83 | 17 - 50 | 1000-54 |
| 84 | 17 - 50 | 1000-10 |
| 86 | 17 - 50 | 1000-55 |
| 89 | 17 - 50 | 1000-56 |




**Open condition**
By turning the handle by 90°, the cam rotates.




**Closed position**
By turning the handle by another 90° the cam moves 6 mm in axial direction.

**Compressed condition**

**Unlock:**
Reversed rotation

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# Compression latch swinghandle for storage box

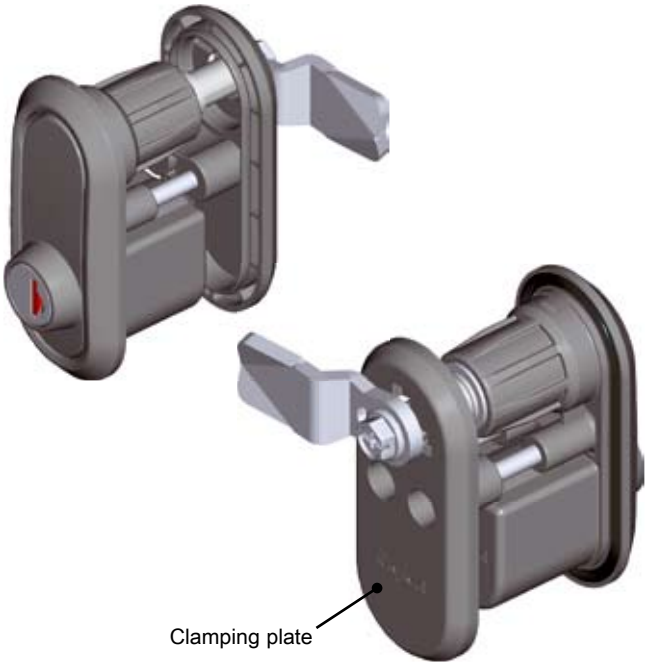
*PROGRAM 1342*

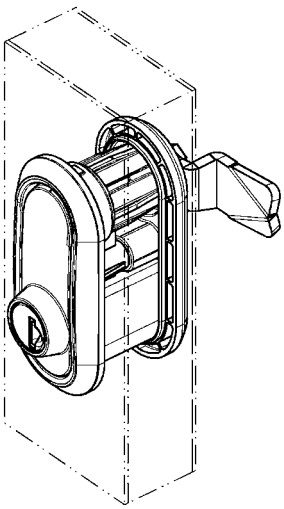
**Vibration proof**

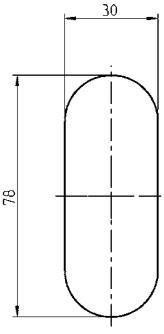
The compression latch swinghandle is vibration-proof. Depending on the installation location and operational conditions specific checks are necessary and/or supplementary measures of fastening required.

**for Ts = 15 - 30 mm ; GH = 38 mm**

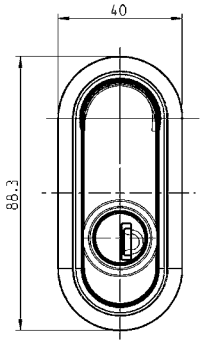
**for Ts = 30 - 45 mm ; GH = 53 mm**

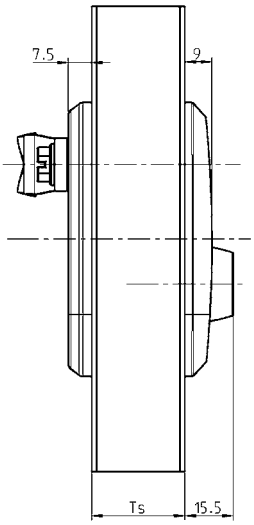


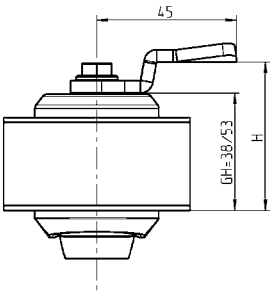



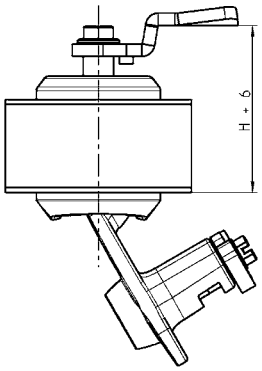



Cut out



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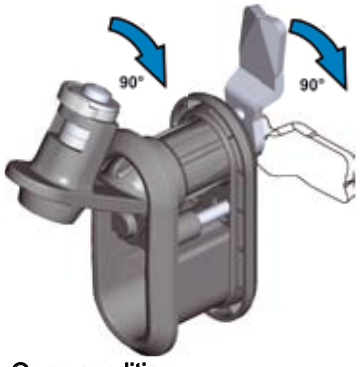
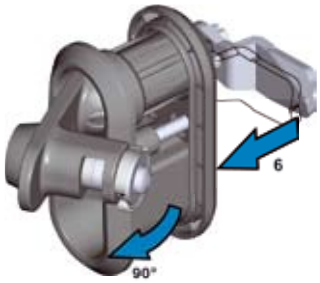
| Compression latch swinghandle polyamide GF black for clip-in cylinder, clip-in cylinder adapter, screw m.s. zinc plated, with spring and seal. | | | |
|---|---|---|---|
| Clip-in cylinder | **GH = 38 mm** | Clip-in cylinder | **GH = 53 mm** |
| System 1 | 1342-U1-01 | System 1 | 1342-U2-01 |
| System 2 | 1342-U1-02 | System 2 | 1342-U2-02 |
| System 3 | 1342-U1-03 | System 3 | 1342-U2-03 |
| **Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys** | | | |
| keyed 8888 | | | 9850-U100 |
| keyed different | | | 9850-U101 |
| **To be ordered separately: clamping plate polyamide GF black, fixing material m.s. zinc plated** | | | |
| Ts = 15 - 21 | 1342-U3 | Ts = 30 - 36 | 1342-U5 |
| Ts = 21 - 30 | 1342-U4 | Ts = 36 - 45 | 1342-U6 |
| **To be ordered separately: cam m.s. zinc plated** | | | |
| H | **GH = 38 mm** | H | **GH = 53 mm** |
| 38 | 1000-17 | 38 | - |
| 40 | 1000-16 | 40 | - |
| 42 | 1000-15 | 42 | - |
| 44 | 1000-14 | 44 | - |
| 45 | 1000-27 | 45 | - |
| 46 | 1000-50 | 46 | - |
| 48 | 1000-13 | 48 | - |
| 50 | 1000-28 | 50 | - |
| 52 | 1000-26 | 52 | - |
| 53 | - | 53 | 1000-17 |
| 54 | 1000-12 | 54 | - |
| 55 | 1000-11 | 55 | 1000-16 |
| 56 | 1000-51 | 56 | - |
| 57 | - | 57 | 1000-15 |
| 58 | 1000-52 | 58 | - |
| 59 | - | 59 | 1000-14 |
| 60 | 1000-25 | 60 | 1000-27 |
| 61 | - | 61 | 1000-50 |
| 62 | 1000-53 | 62 | - |
| 63 | - | 63 | 1000-13 |
| 64 | 1000-54 | 64 | - |
| 65 | 1000-10 | 65 | 1000-28 |
| 67 | 1000-55 | 67 | 1000-26 |
| 69 | - | 69 | 1000-12 |
| 70 | 1000-56 | 70 | 1000-11 |
| 71 | - | 71 | 1000-51 |
| 73 | - | 73 | 1000-52 |
| 75 | - | 75 | 1000-25 |
| 77 | - | 77 | 1000-53 |
| 79 | - | 79 | 1000-54 |
| 80 | - | 80 | 1000-10 |
| 82 | - | 82 | 1000-55 |
| 85 | - | 85 | 1000-56 |




**Open condition**
By turning the handle by 90°, the cam rotates.




**Closed position**
By turning the handle by another 90° the cam moves 6 mm in axial direction.

**Compressed condition**

**Unlock:**
Reversed rotation

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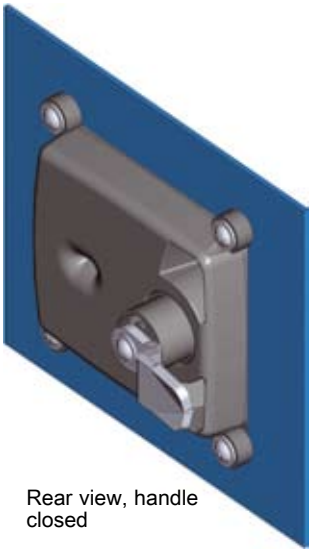
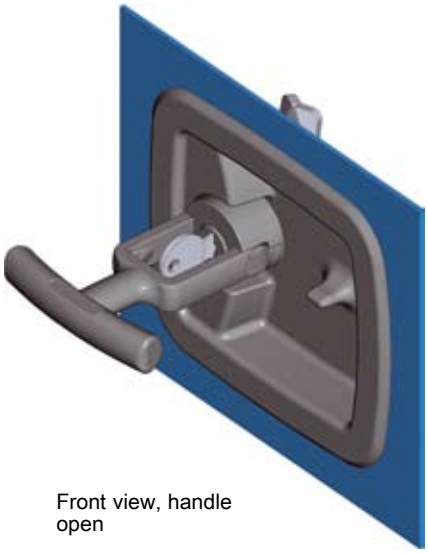
# Chest handle
*PROGRAM 1130*



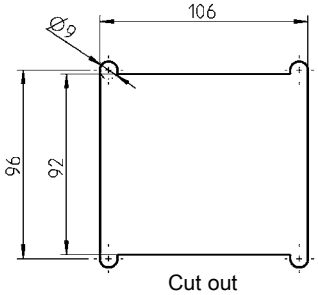
Rear view, handle closed



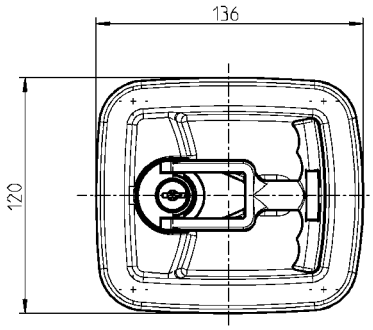
Front view, handle open

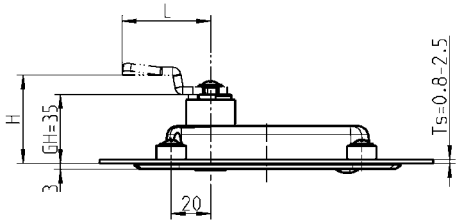
**Note:**

By pressing the T-handle into the dish, a clamping effect is achieved.




Cut out




| Recess T-handle polyamide GF black; fixing material m.s. zinc plated; with seal. Each round cylinder with one key m.s. nickel plated. | |
|---|---|
| keyed EK 333 | 1130-U3 |
| keyed different | 1130-U4 |

**Further parts see page**
– cam with catch 1.5-820



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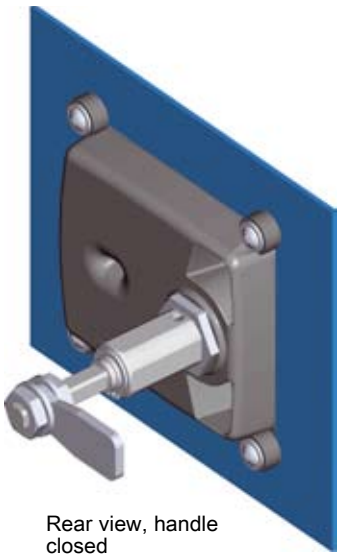
# Retractable T-handle with compression function with adjustable cam height

*PROGRAM 1130*



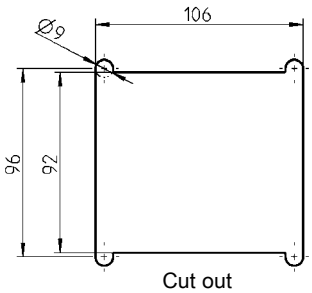


Rear view, handle closed

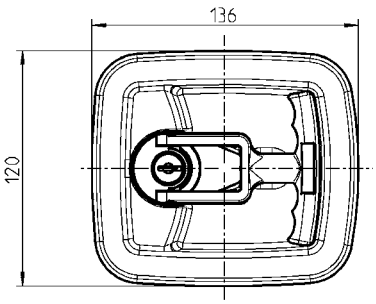
Front view, handle open

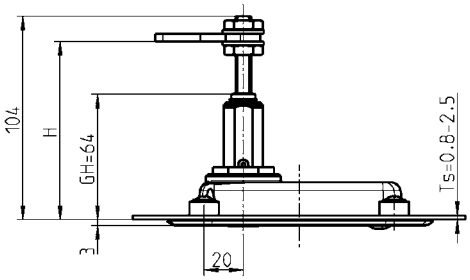
**Note:**

By pressing the T-handle into the dish, a clamping effect is achieved.




Cut out




| Recess T-handle polyamide GF black; housing zinc die; fixing material m.s. zinc plated; with seal. Each round cylinder with one key m.s. nickel plated. | |
|---|---|
| keyed EK 333 | 1130-U10 |
| keyed different | 1130-U11 |

Further parts see page – Cam 1.5-840

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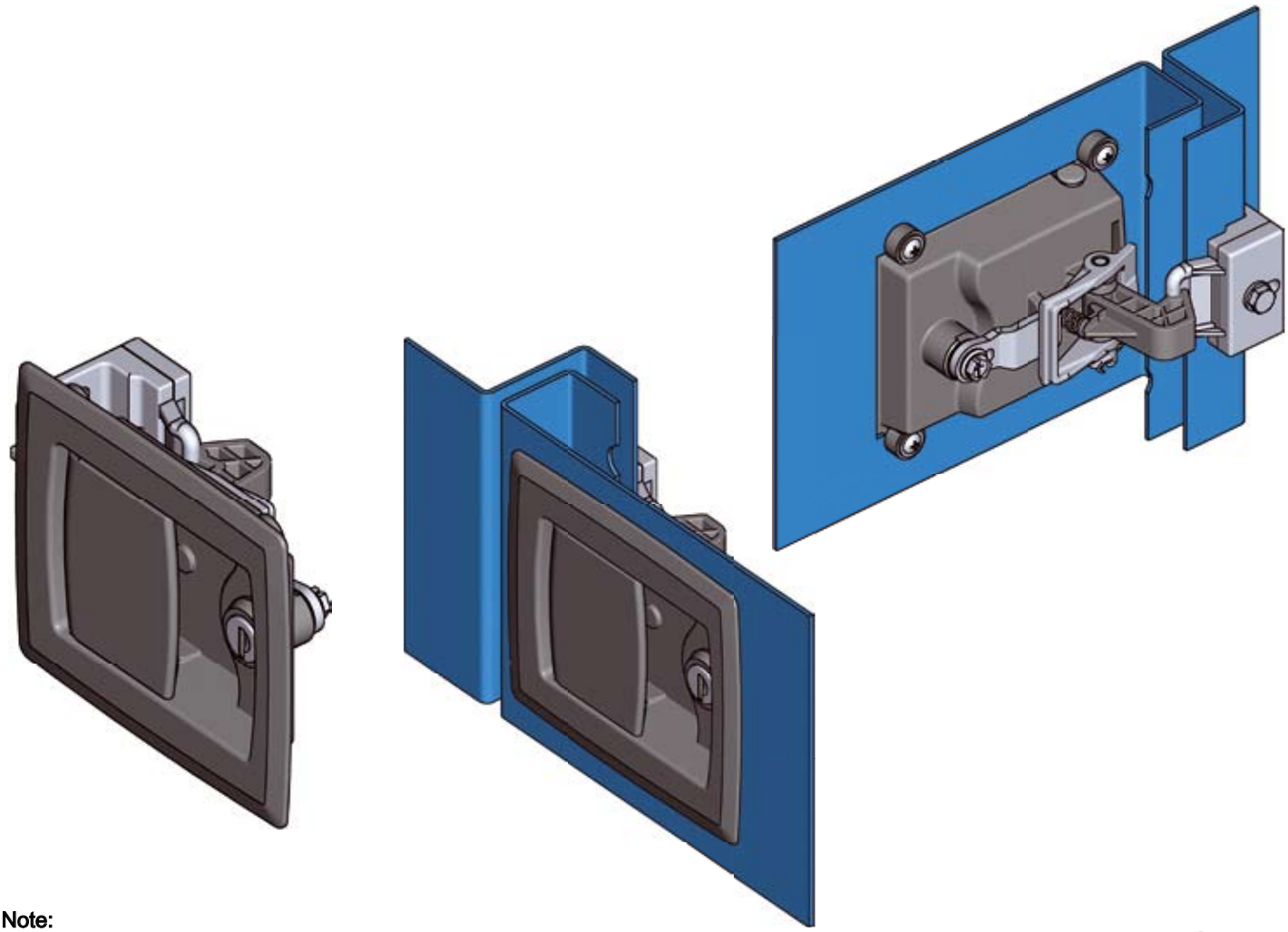
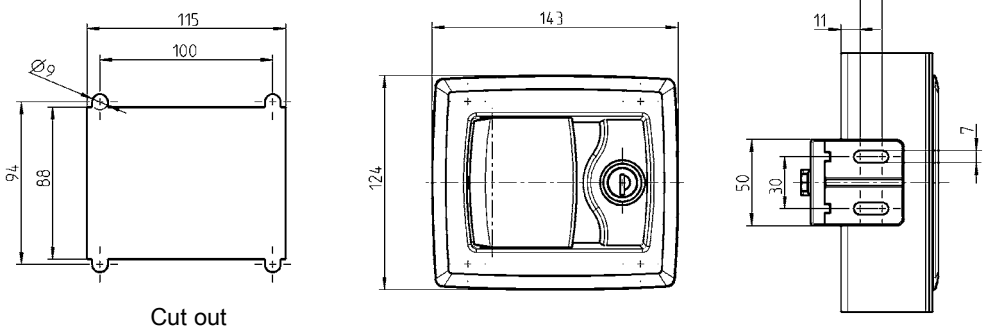
# Chest handle
## *PROGRAM 1130*



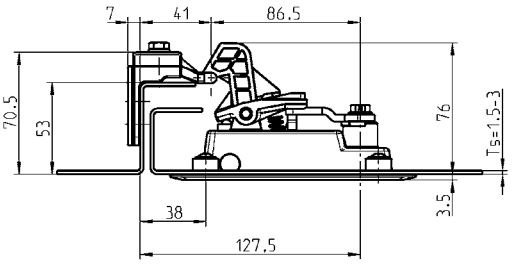
**Note:**
The version 1130-U1 and -U2 are made for RH use by default.

Version for LH use is created by removing the round cylinder rotating it 180° and refitting it.




Cut out

**Function:**
The spring-loaded locking hook is equipped with a “door-slam” feature.
With this the door can also be closed when locked.




| | |
|---|---|
| **Hinged pattern handle polyamide GF black, compensator and lock catch zinc die zinc pl., round cylinder zinc die with stainless steel cap and dust cap, springs stainless steel, cam and fastening material m.s. zinc pl., with seal Each round cylinder has one silver steel key with polyamide grip GF black.** | |
| keyed EK 333 | 1130-U1 |
| keyed different | 1130-U2 |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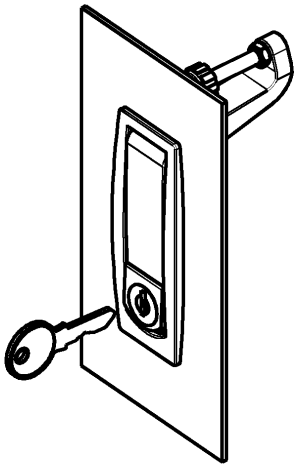

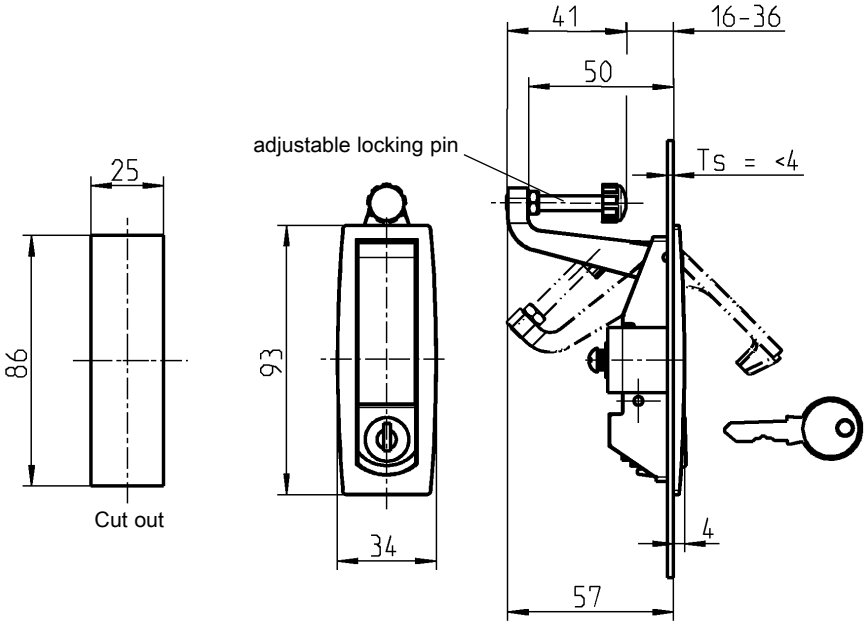


| Compression flush handle zinc die black powder coated, locking pin m.s. zinc plated / TPE-V, fixing material m.s. zinc plated.<br>Each round cylinder has one key m.s. nickel plated. | |
|---|---|
| keyed EK 333 | 1130-U8 |
| Blank | 1130-U9 |

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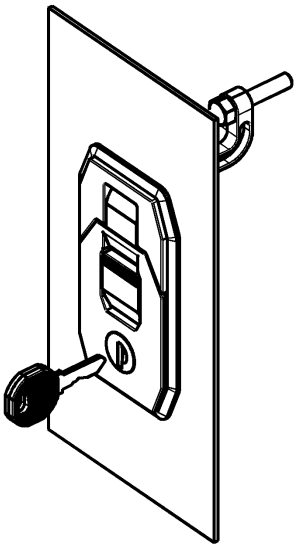
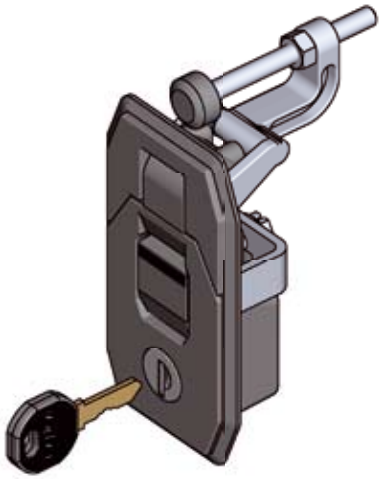
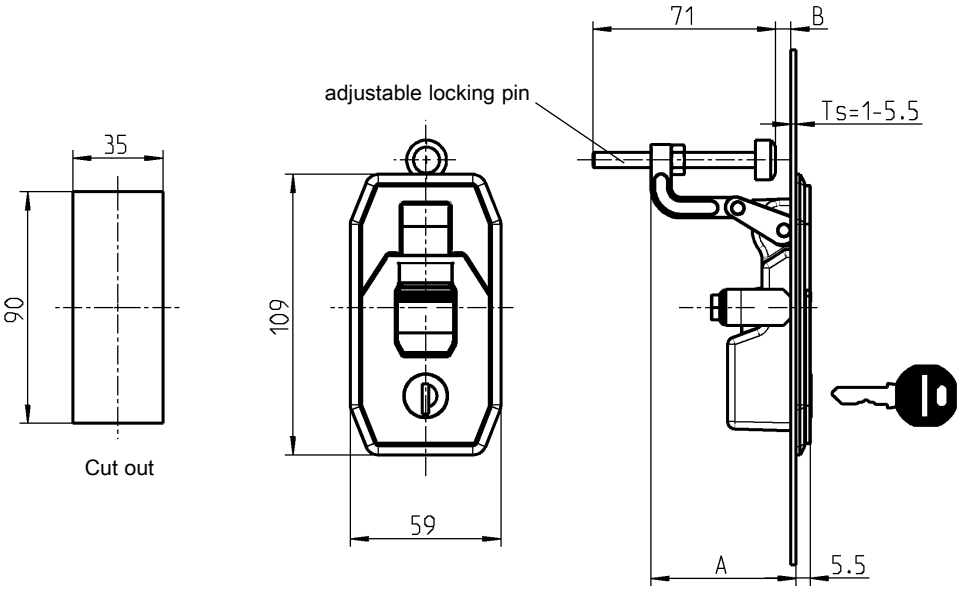
Notes:








**On request:**
– Chest handle with different lever

| Hinged handle zinc die black powder coated, locking pin m.s. zinc plated / TPE-V, fixing material m.s. zinc plated, round cylinder with stainless steel cap and dust cap, with seal. One key from nickel silver with polyamide grip GF black per round cylinder | |
|---|---|
| A = 57 ; keyed EK 333 | 1130-U7 |
| A = 57 ; keyed different | 1130-U7-V |
| A = 71 ; keyed EK 333 | 1130-U7-01 |
| A = 71 ; keyed different | 1130-U7-01V |

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# Flap lock for stow box

Design proposal 1

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Design proposal 2

Design proposal 3

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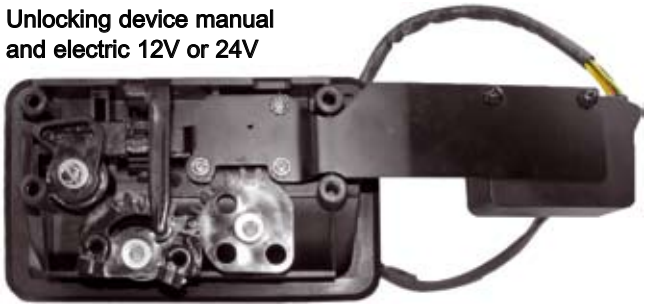
# Exterior handle open

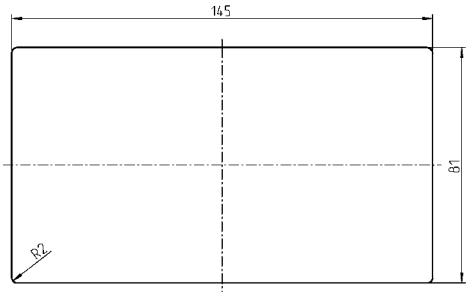
*PROGRAM 5225*

Unlocking device manual

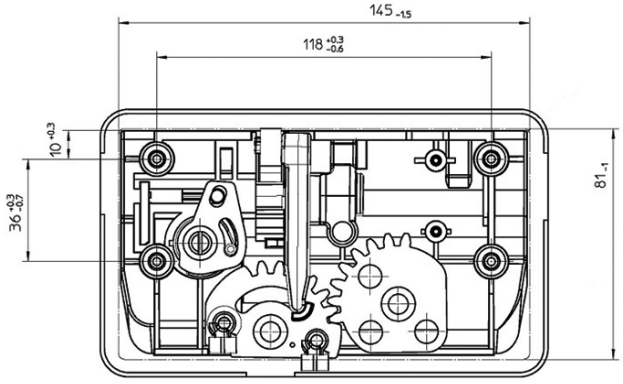
Unlocking device manual and pneumatic

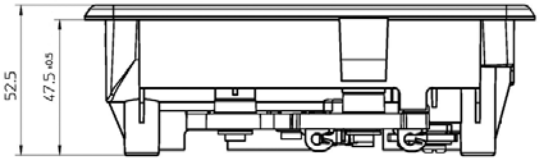
Unlocking device manual
and electric 12V or 24V






Cut out




| Exterior handle ABS black; screws m.s. zinc plated; with seal and spring | |
|---|---|
| Unlocking device manual | 5225-U100 |
| Unlocking device manual and pneumatic | 5225-U101 |
| Electrical and manual operation 12V | 5225-U102 |
| Unlocking device manual and electric 24V | 5225-U103 |
| **Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys** | |
| keyed 8888 | 9850-U100 |
| keyed different | 9850-U101 |

**Further parts see page**


– Interior release 1.3-180
– Rotary latch lock 1.3-240
1.3-260
– Locking pin 1.3-260

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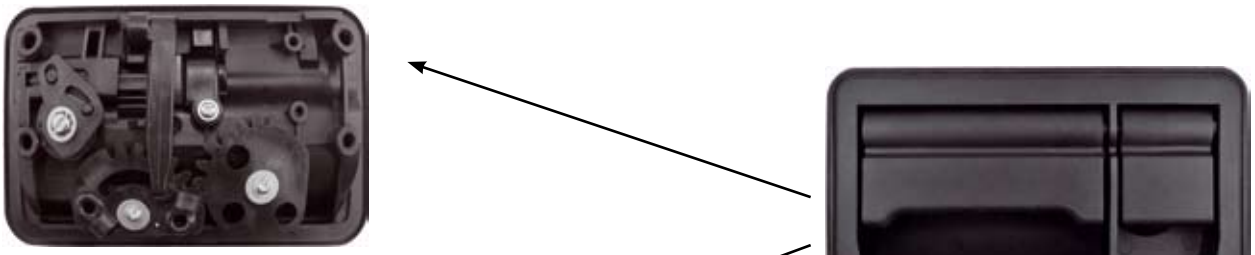
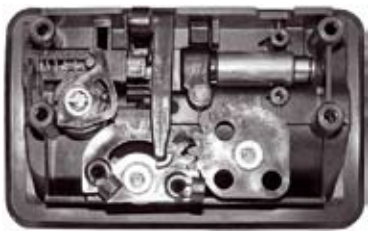
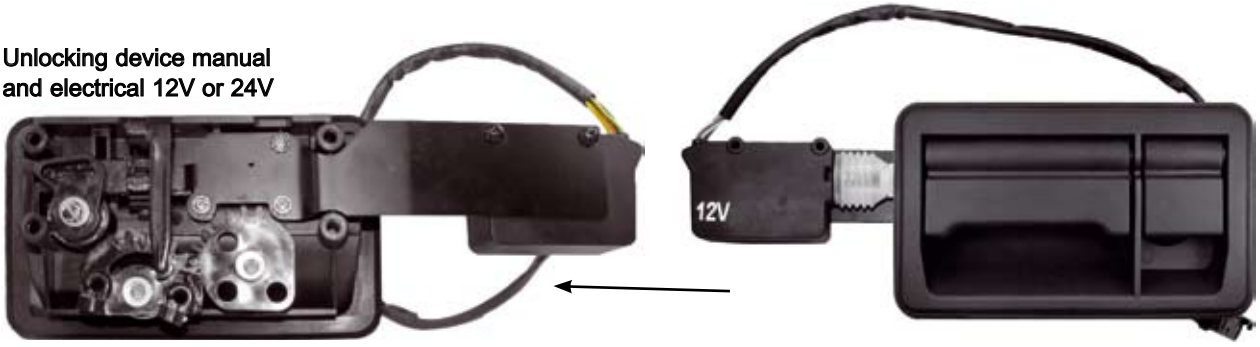
**Unlocking device manual**

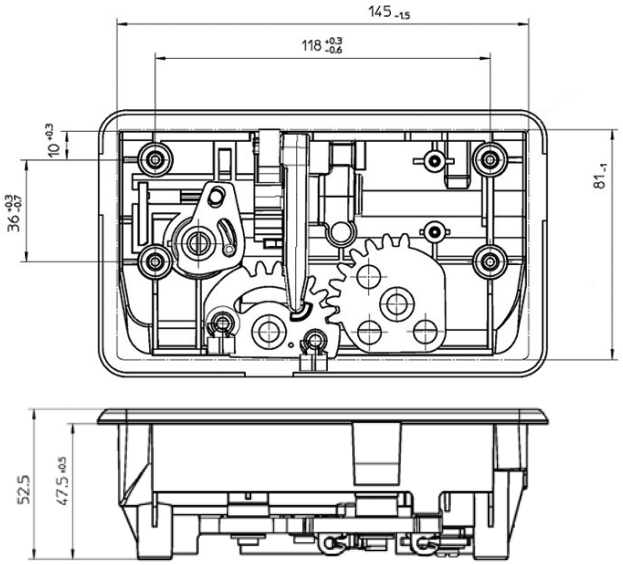


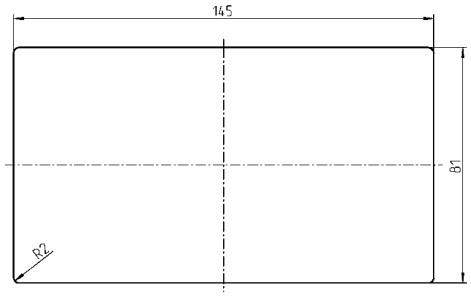
**Unlocking device manual and pneumatic**



**Unlocking device manual and electrical 12V or 24V**




Cut out

| Exterior handle ABS black; screws m.s. zinc plated; with seal and spring | |
|---|---|
| Unlocking device manual | 5225-U104 |
| Unlocking device manual and pneumatic | 5225-U105 |
| Electrical and manual operation 12V | 5225-U106 |
| Unlocking device manual and electric 24V | 5225-U107 |
| **Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys** | |
| keyed 8888 | 9850-U100 |
| keyed different | 9850-U101 |

**Further parts see page**

– Interior release 1.3-180
– Rotary latch lock 1.3-240
1.3-260
– Locking pin 1.3-260

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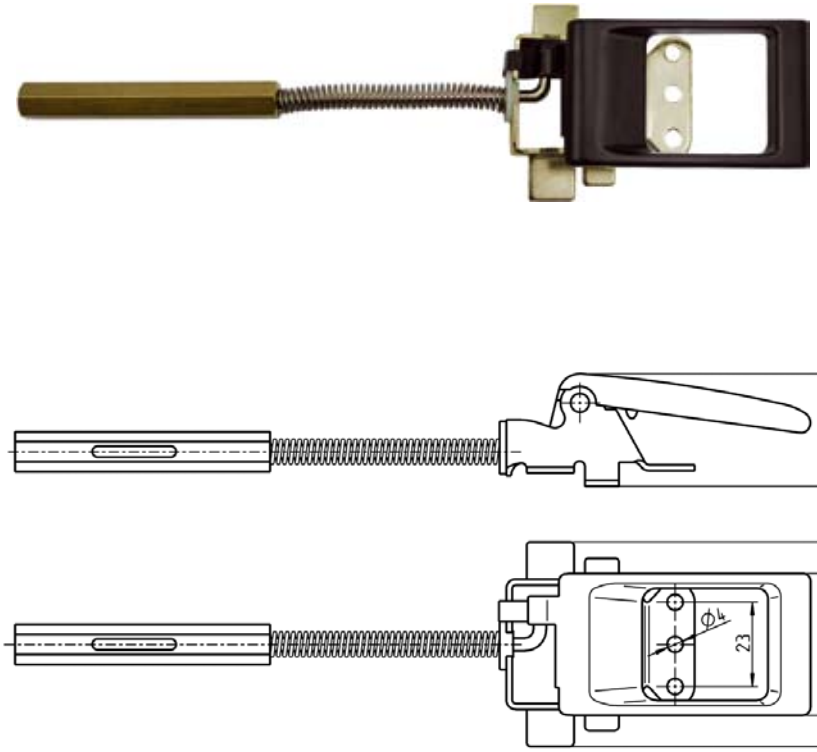
# Interior release; escutcheon

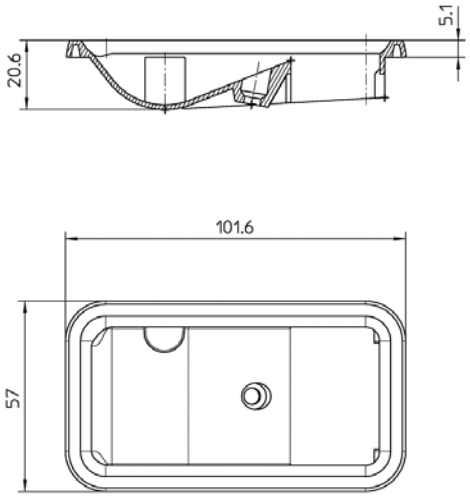
*PROGRAM 5225*




**Further parts see page**

| | |
|---|---|
| – Escutcheon | see below |
| – Exterior handle open | 1.3-120 |
| – Exterior handle closed | 1.3-140 |

| Interior release ABS black; holding plate m.s. zinc plated and chromated; with spring | |
|---|---|
| | 5225-U8 |




**Further parts see page**

| | |
|---|---|
| – Interior release | see above |
| – Exterior handle open | 1.3-120 |
| – Exterior handle closed | 1.3-140 |

| Escutcheon for interior release ABS black | |
|---|---|
| | 5225-01-AA |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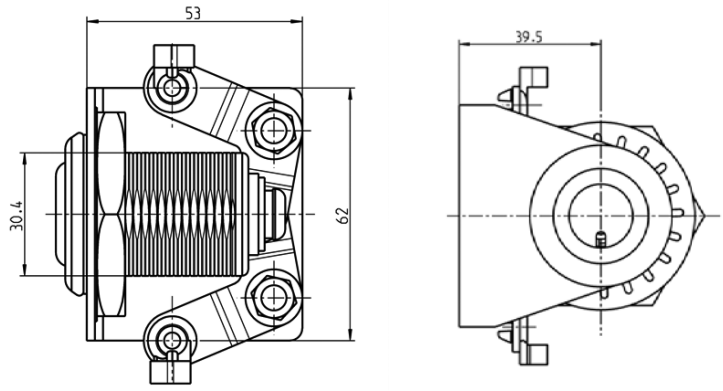

| | |
|---|---|
| **Pushbutton lock with cylinder assembly m.s. zinc plated and chromated; with spring** | |
| | 5225-U200 |
| **Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys** | |
| keyed 8888 | 9850-U100 |
| keyed different | 9850-U101 |

**Further parts see page**


– Rotary latch lock 1.3-240
1.3-260
– Locking pin 1.3-260


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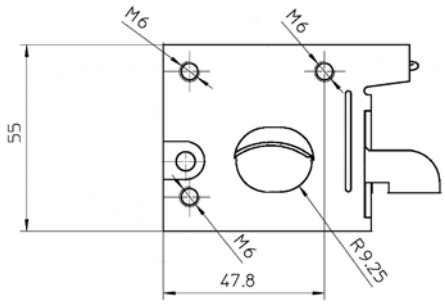
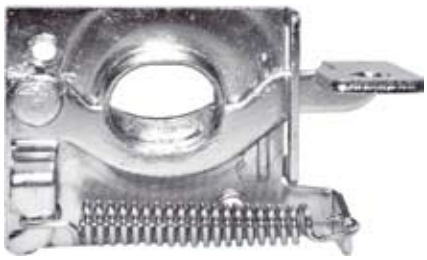
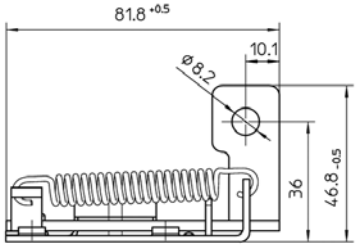
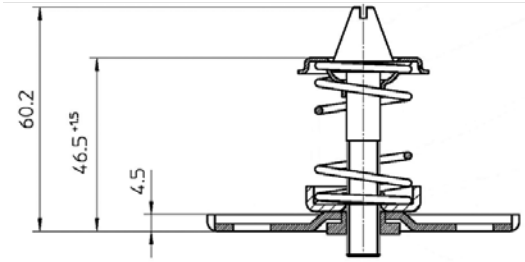
# Bonnet lock

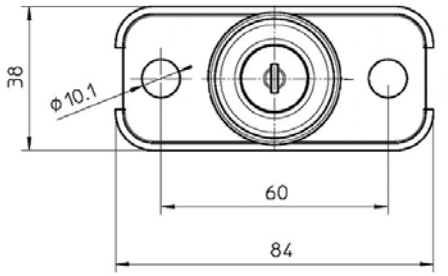
## *PROGRAM 5225*








| | |
|---|---|
| **Lock with manual operation m.s. zinc plated; with spring** | |
| | 5225-U202 |
| **Locking bolt m.s. zinc plated; with spring** | |
| | 5225-U203 |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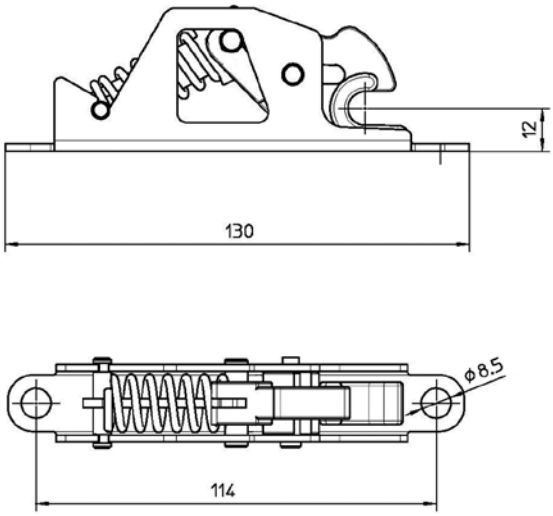
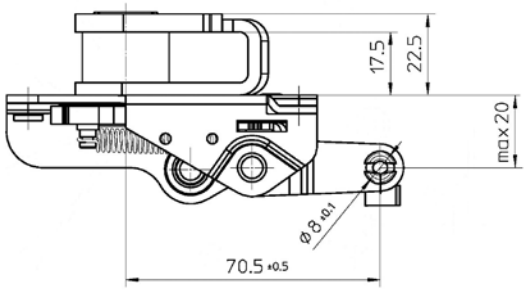
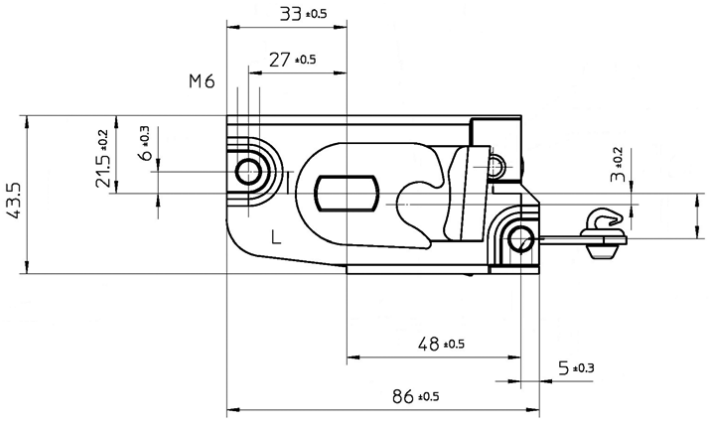
# Spring bolt lock; rotary bolt lock
*PROGRAM 5225*



Opening force: 90N ±12N
Locking force: 70N ±10N

| Spring bolt lock stainless steel | |
|---|---|
| | 5225-U31 |





| Rotary bolt lock m.s. zinc plated, with spring | |
|---|---|
| Right mirror image | 5225-U9 |
| Left, as shown | 5225-U10 |
| **Rotary bolt lock m.s. zinc and nickel plated for 480h salt spray test; with spring** | |
| Right, mirror image | 5225-U9-01 |
| Left, as shown | 5225-U10-01 |

**Further parts see page**

– Locking pin 1.3-260
– Pushbutton lock 1.3-190
– Exterior handle open 1.3-120
– Exterior handle closed 1.3-140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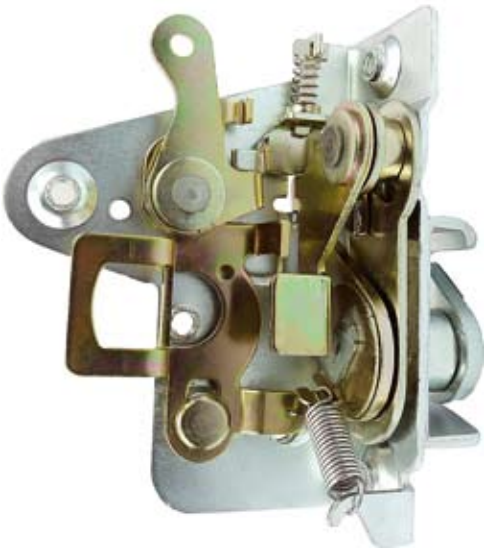
# Rotary bolt lock, examples



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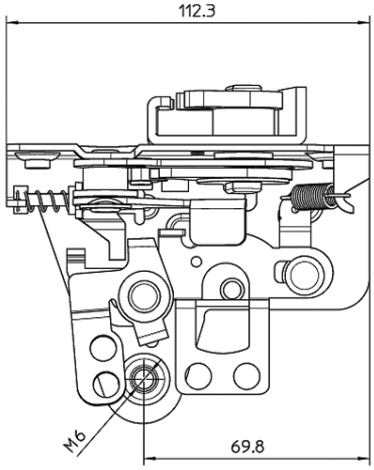
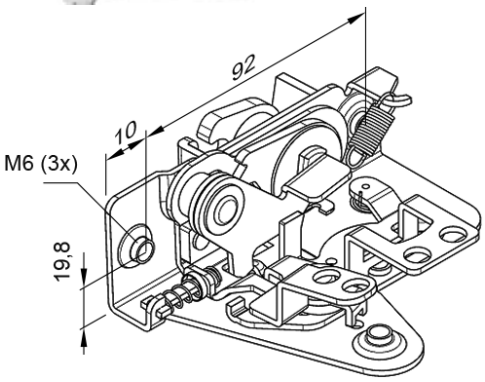
# Rotary bolt lock with safety catch; locking pin with plate

*PROGRAM 5225*



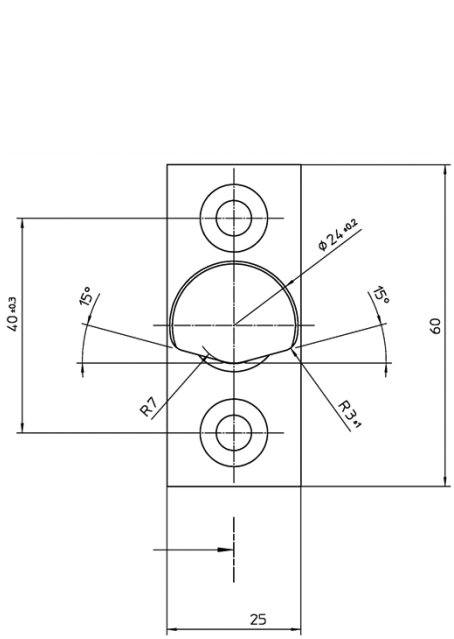



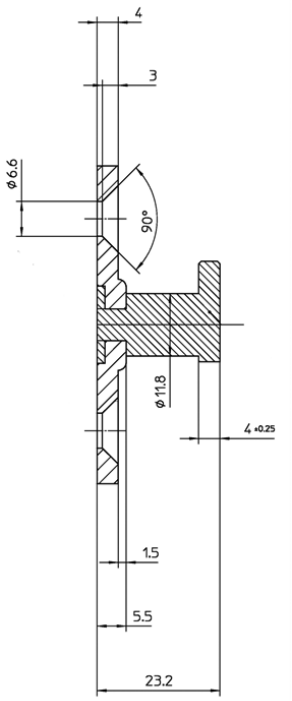
Lockable and unlockable from the inside

| Rotary bolt lock with safety catch m.s. zinc plated and chromated; with spring | |
|---|---|
| Right, mirror image | 5225-U23 |
| Left, as shown | 5225-U24 |

**Further parts see page**

| | |
|---|---|
| – Locking pin | on request |
| – Pushbutton lock | 1.3-190 |
| – Exterior handle open | 1.3-120 |
| – Exterior handle closed | 1.3-140 |



| Locking pin type 1 with plate m.s. zinc plated | |
|---|---|
| RH/LH | 5225-U25 |
| **Locking pin type 1 with plate m.s. zinc plated and nickel plated for 480h salt spray test** | |
| RH/LH | 5225-U25-01 |

**Further parts see page**

| | |
|---|---|
| – Rotary latch lock | 1.3-240 |
| – Pushbutton lock | 1.3-190 |
| – Exterior handle open | 1.3-120 |
| – Exterior handle closed | 1.3-140 |

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Notes:

on request

see page 1.5-420, 1.5-430

Quarter turns meet the standard
DIN EN 45545-2

see page 1.5-320

see page 1.5-320, 1.5-330

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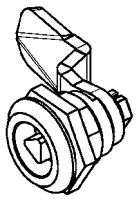
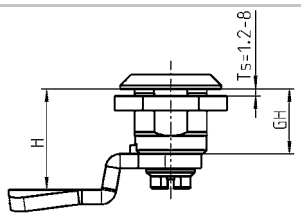
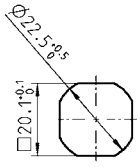
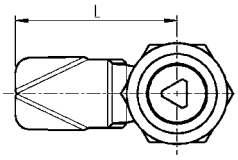
# Quarter turns
## *PROGRAM 1000*



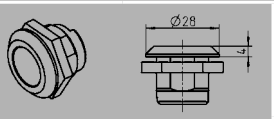
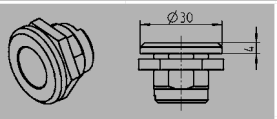
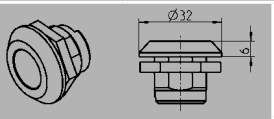
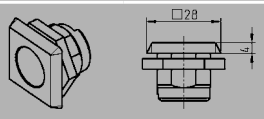


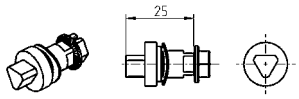
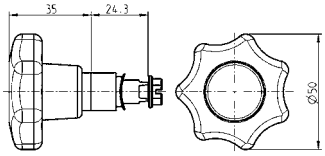
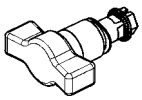
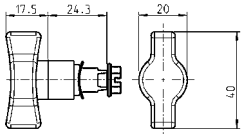



Cut out




**Housing with nut or earthnut m.s.zinc plated or nut stainless steel**

| Head diameter<br>GH = 18 mm |  | |  | |  | |  | |
|---|---|---|---|---|---|---|---|---|
| Head height | 4 | | 4 | | 6 | | 4 | |
| | 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 black with fixed TPE seal | 1000-U155-D | – | – | – | 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;<br>Fixing material m.s. zinc plated or stainless steel;<br>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 |
|---|---|---|---|---|---|---|
|  <br>Insert | 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 |
| <br>  <br>Star handle | 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 10mm | 1000-U96 | – | – | – | – |
| | Square female 6mm | 1000-U168 | – | – | – | – |
| | Square female 7 | 1000-U182 | – | – | – | – |
| | Square female 8 | 1000-U169 | – | – | – | – |
| | Daimler Benz | 1000-U20 | – | – | – | – |
| | Slot 1.2 x 3 | 1000-U195 | – | – | – | – |
|  <br>  <br>Wing knob | 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 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 | – |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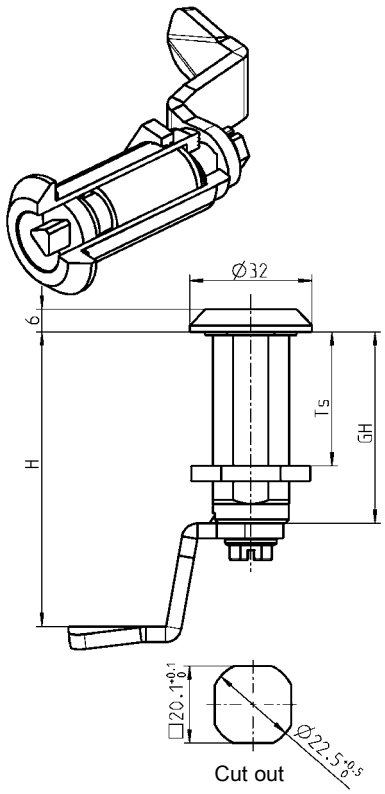
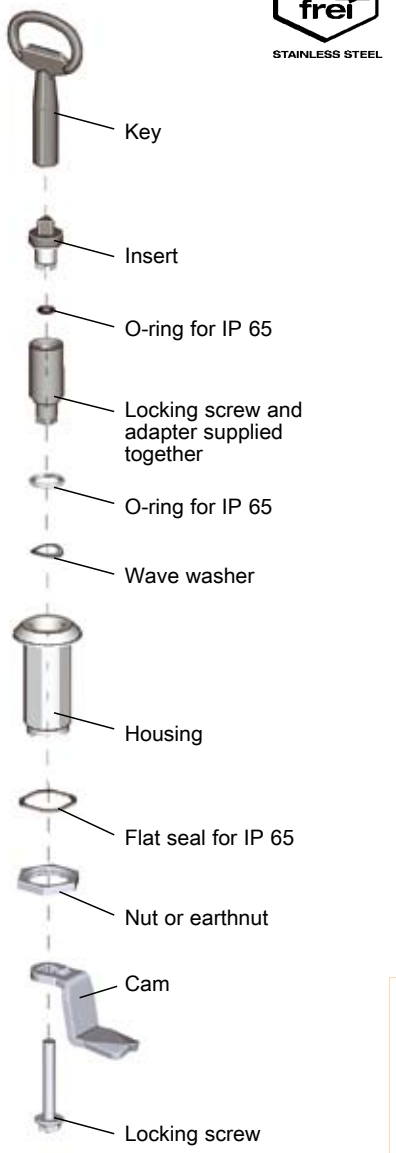



Assembly instruction




EDELSTAHL Rost frei STAINLESS STEEL

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

**Housing material of your choice, nut or earthnut m.s. zinc plated**

| GH | Ts | Zinc die chrome plated | | Zinc die black powder coated | | polyamide black |
|---|---|---|---|---|---|---|
| | 1.5 – | Nut | Earthnut | Nut | Earthnut | Nut |
| 30 mm | 20 mm | 1000-U51 | 1000-U65 | 1000-U225 | 1000-U226 | – |
| +adapter | | 1000-U164 | | | | |
| 36 mm | 26 mm | 1000-U246 | 1000-U248 | 1000-U317 | 1000-U318 | – |
| +adapter | | 1000-U198 | | | | |
| 40 mm | 30 mm | 1000-U66 | 1000-U67 | 1000-U227 | 1000-U228 | 1000-U737 |
| +adapter | | 1000-U165 | | | | |
| 50 mm | 40 mm | 1000-U68 | 1000-U69 | 1000-U229 | 1000-U230 | 1000-U736 |
| +adapter | | 1000-U166 | | | | |
| 60 mm | 50 mm | 1000-U504 | 1000-U505 | 1000-U506 | 1000-U507 | – |
| +adapter | | 1000-U535 | | | | |

** included in case of stainless st. version

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

**Further parts see page**


– cam with catch 1.5-820
– Slam-lock 1.6-120
– Dust cap 1.5-250
– Key 5.1-120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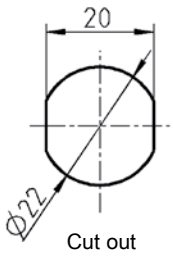
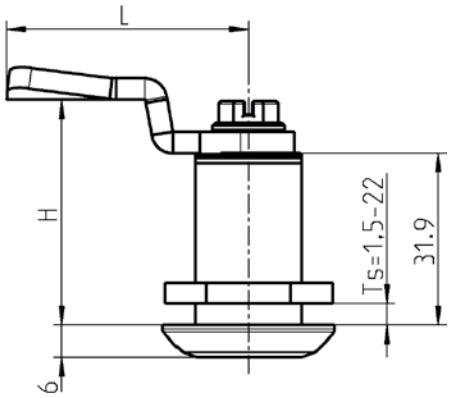
# Quarter turn with clip-in cylinder

*PROGRAM 1000*




| Quarter turn for clip-in cylinder; housing zinc die surface of your choice; adapter zinc die raw; nut and screw m.s. zinc plated | black powder coated | chrome plated |
|---|---|---|
| clip-in cylinder system 1 | on request | on request |
| clip-in cylinder system 2 | on request | on request |
| clip-in cylinder system 3 | on request | on request |
| **Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys** | | |
| keyed 8888 | | 9850-U100 |
| keyed different | | 9850-U101 |

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

**Further parts see page**
– Cam without catch 1.5-820
– Dust cap 1.5-250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# Handle bezels for quarter turn with clip-in cylinder; clip-in pressure cylinder for clip-in cylinder 1, 2 and 3

Handle bezels for quarter turn with clip-in cylinder

Clip-in pressure cylinder
for clip-in cylinder 1, 2 and 3

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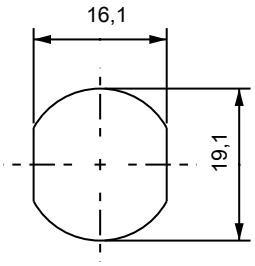
# Cylinder lock

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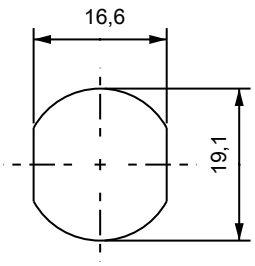


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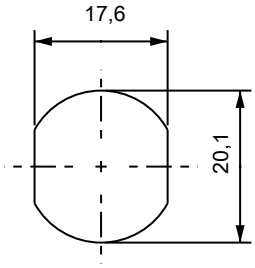


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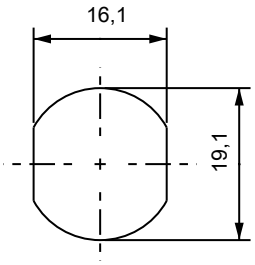


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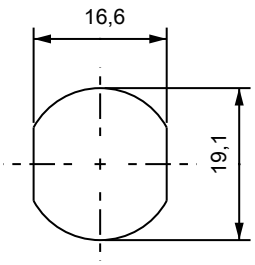


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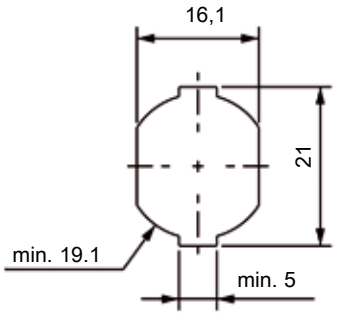


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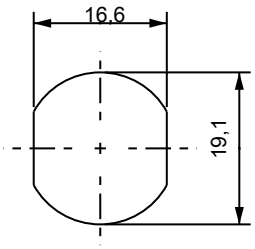


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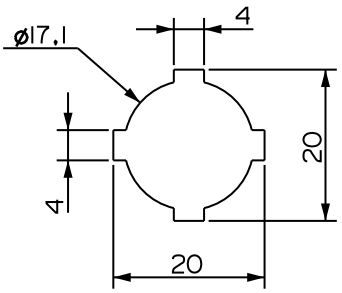


Cut out

**further Versions of cylinder lock available**



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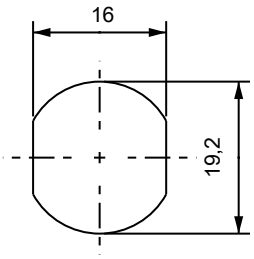
# Radial cylinder and flush handles

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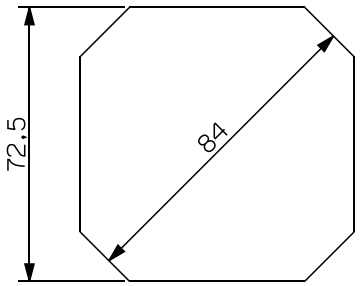


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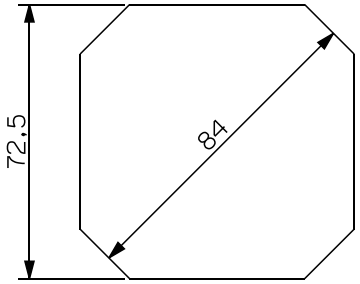


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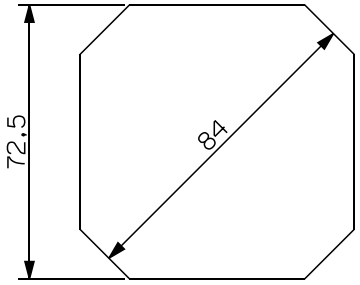


Cut out

**further versions of handles available**

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# Compression latch quarter turn as multi point locking (flat rod)

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# Compression latch quarter turn as multi point locking (round rod)

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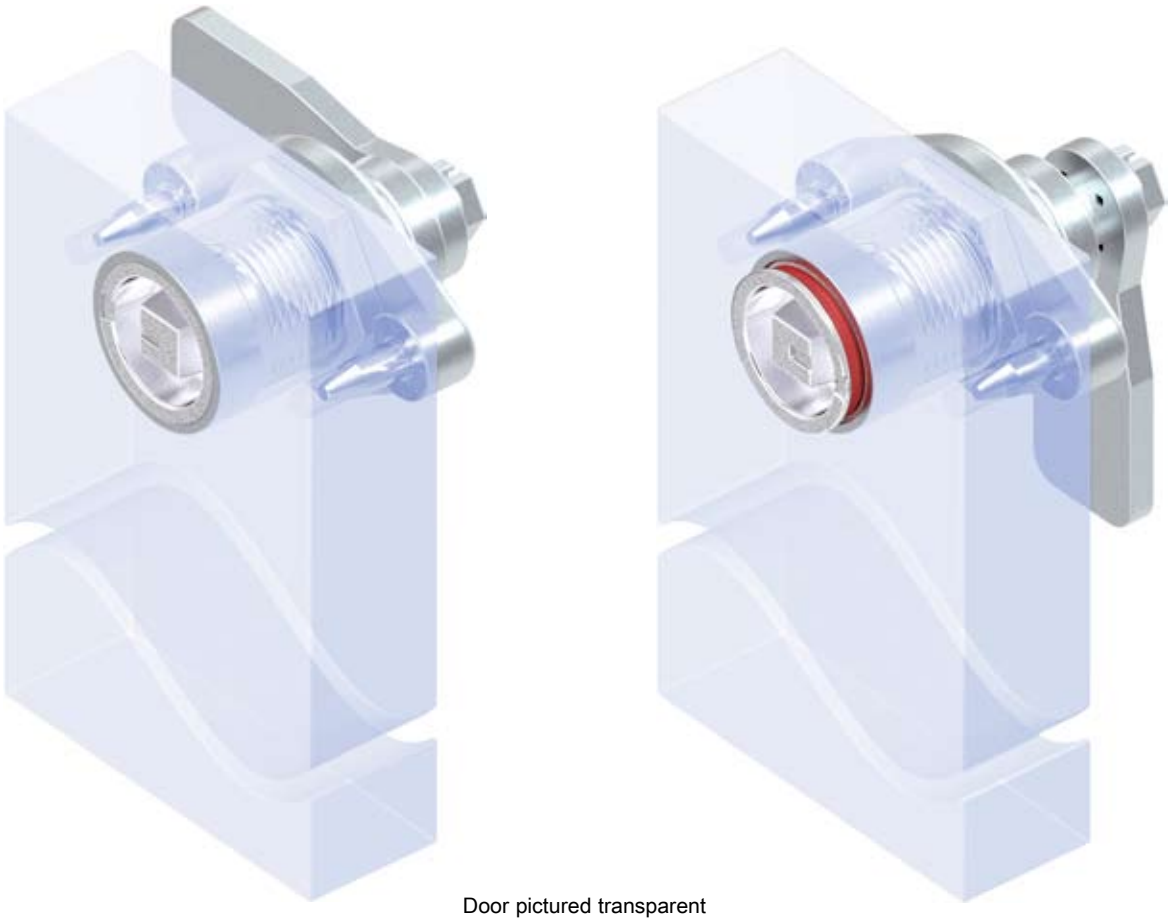
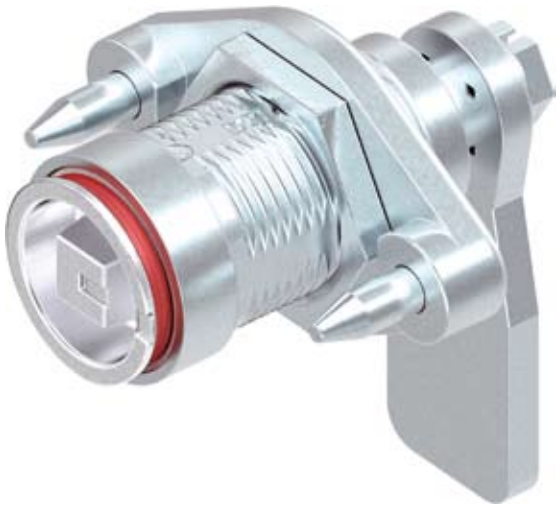
# Compression latch with optical opening indicator for flush mounting



Door pictured transparent

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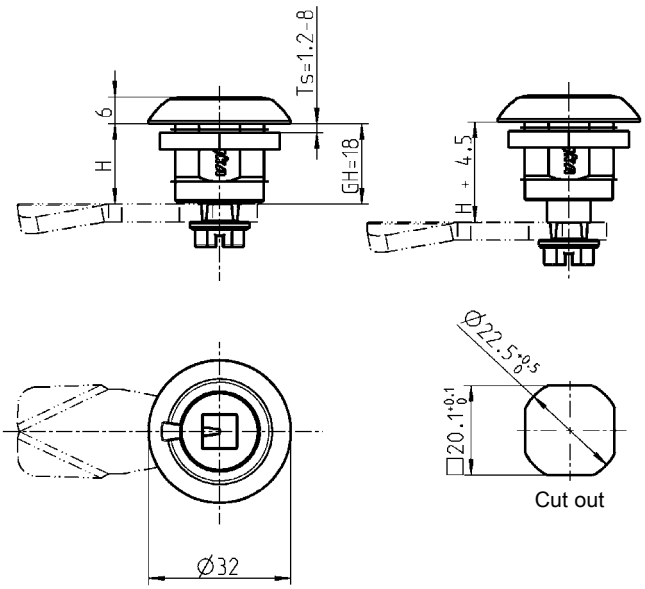
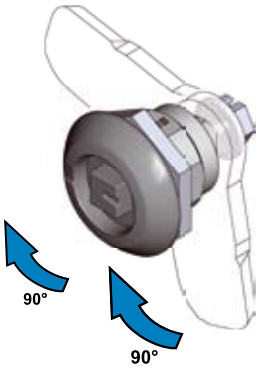
### Vibration proof

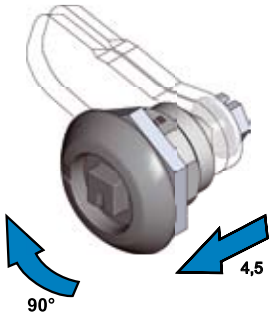
These latches are designed to be vibration proof with a distinct “over-center” action. There may be some cases of extreme vibration where this detent is overcome. Therefore we recommend rigorous testing.




with stainless steel version




**Open position**
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 4.5 mm toward the door axially.

**Compressed condition**

**Unlock:**
Reversed rotation

Federal Railway version is compliant with RIC.

| Housing and insert material of your choice; nut and screw m.s. zinc plated; 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 6mm | 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 |

**Further parts see page**

– Cam without catch 1.5-820
– Dust cap 1.5-250
– Key 5.1-120

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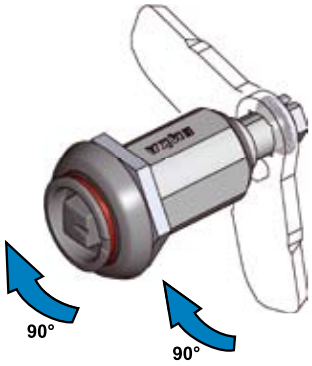
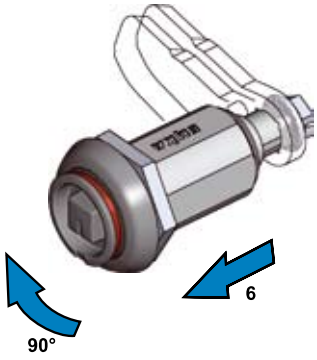
# Compression latch with optical opening indicator

*PROGRAM 1000*




**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 6 mm toward the door axially.

**Compressed condition**

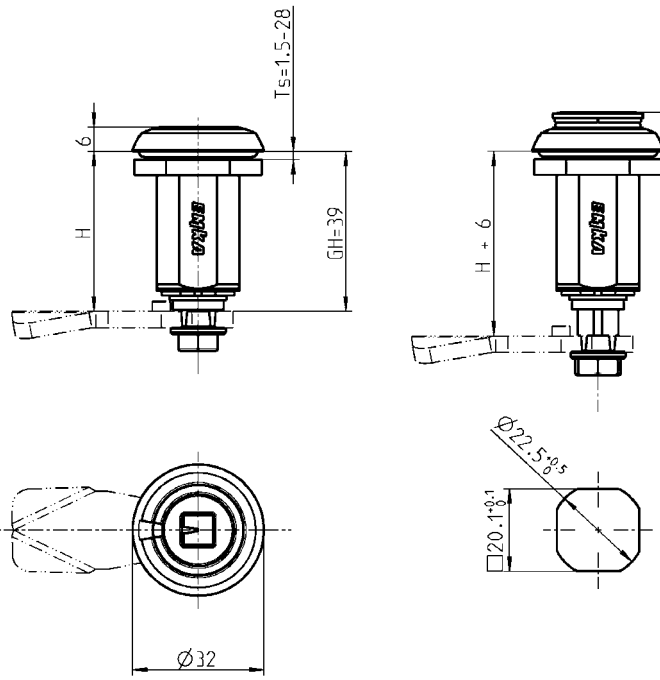
**Unlock:**
Reversed rotation

Railway version is compliant with RIC.

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

When using the compression latch in conjunction with the illustrated dust cap (Art.No. 1000-97-02 / see right), there is another safety aspect:

In addition to the visibility of the red ring when the latch is open, the dust cap cannot be put on and remains open.




| Housing and insert zinc die, surface of your choice, signal-ring red, nut and screw m.s. zinc plated, with spring and seal | | |
|---|---|---|
| | black powder coated | chrome plated |
| Square 8 | 1000-U846 | 1000-U846-IA |
| Double bit 5 | 1000-U847 | 1000-U847-IA |
| Railway | 1000-U848 | 1000-U848-IA |

**Further parts see page**
– cam with catch 1.5-820
– Dust cap 1.5-250
– Key 5.1-120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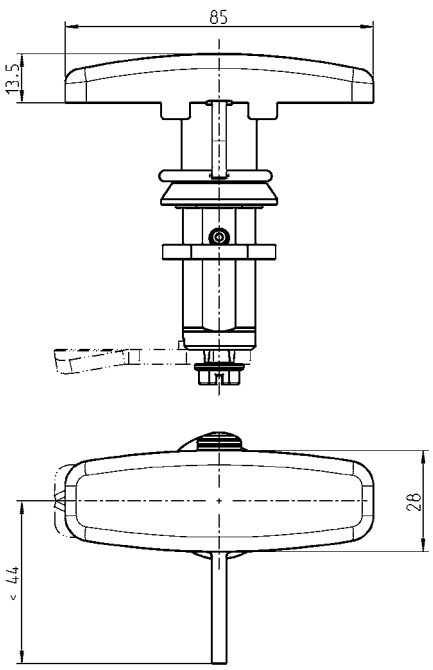
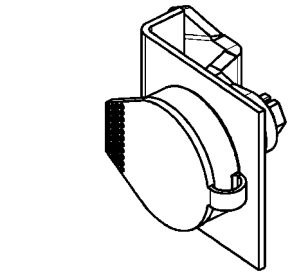
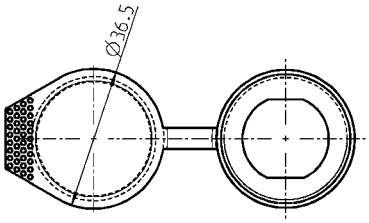
# Dust cap; dust cap for T-handle; dust cap for high-speed trains

*PROGRAM 1000*





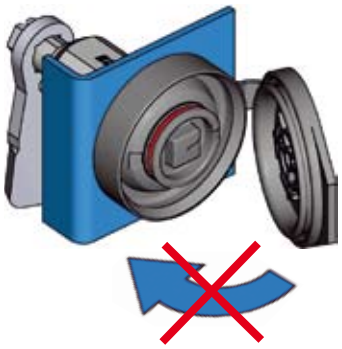


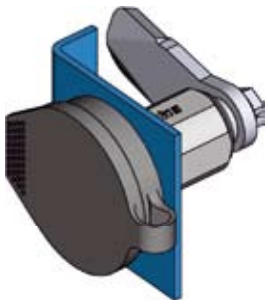
**Further parts see page**

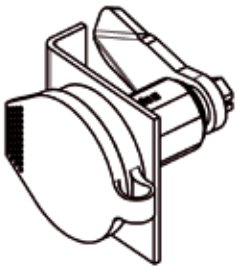
| | |
|---|---|
| – T-handle quarter turn | 1.5-340 |
| | 1.5-350 |
| – Quarter turns | 1.5-140 |
| | 1.5-160 |
| | 1.5-220 |
| | 1.5-240 |
| | 1.5-280 |
| | 1.5-290 |
| | 1.5-320 |
| | 1.5-330 |
| | 1.5-420 |
| | 1.5-430 |

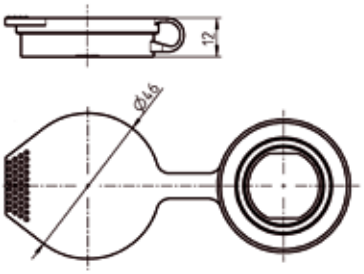
| T-handle cap polypropylene black | | Dust cap polyethylene black | |
|---|---|---|---|
| | 1000-460 | | 1000-97-01 |

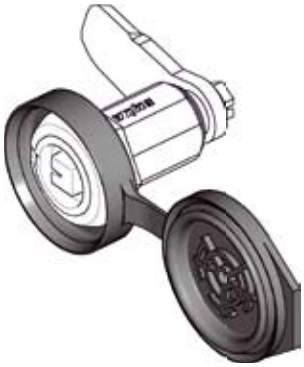
**The dust cap has a special function in conjunction with the compression latch with an optical opening indicator (see left)**









**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 when using this dust cap.

**Further parts see page**

| | |
|---|---|
| – Quarter turns | 1.5-140 |
| | 1.5-160 |
| | 1.5-220 |
| | 1.5-240 |
| | 1.5-280 |
| | 1.5-290 |
| | 1.5-320 |
| | 1.5-330 |
| | 1.5-420 |
| | 1.5-430 |

| Dust cap TPE, UV resistant , black | |
|---|---|
| | 1000-97-02 |

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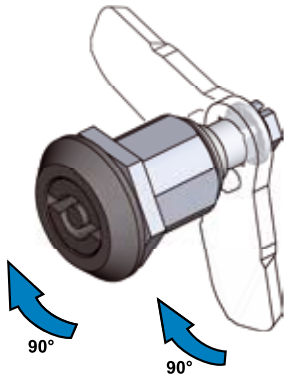
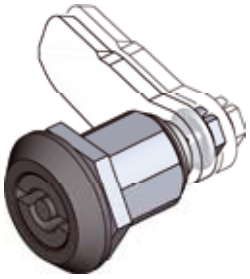
# Compression latch
## *PROGRAM 1000*




**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 6 mm toward the door axially.



**Compressed condition**

**Unlock:**
Reversed rotation

Railway version is compliant with RIC.

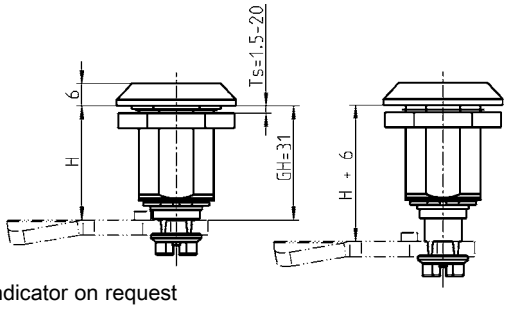
**Note:**
Further inserts on request

**Further parts see page**

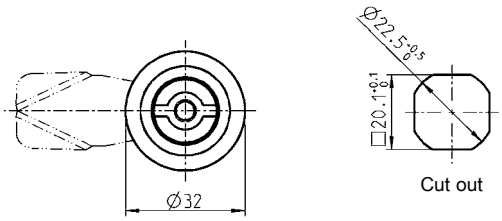
| | |
|---|---|
| – cam with catch | 1.5-820 |
| – Dust cap | 1.5-250 |
| – Key | 5.1-120 |

**Vibration proof**

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




Housing with indicator on request




Cut out

| Housing and insert zinc die surface of your choice; nut and screw m.s. zinc plated; with spring and seal; wing knob polyamide GF black with plug PE black | | |
|---|---|---|
| | **black powder coated** | **chrome plated** |
| Square 6 | on request | on request |
| Square 7 | 1000-U796 | on request |
| Square 8 | 1000-U755 | on request |
| Square 8 with arrow | 1000-U798 | on request |
| Square 8 with M6 thread and wing knob | 1000-U800 | on request |
| 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 | on request |
| Double bit 5 | 1000-U748 | on request |
| 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 6 | 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 | 1000-U750 | on request |
| Slot 2 x 4 | 1000-U777 | on request |
| Slot 2 x 4 coinproof | on request | on request |
| Crown type | on request | on request |
| Railway | 1000-U831 | 1000-U831-IA |
| Tube with indicator | 1000-U833 | on request |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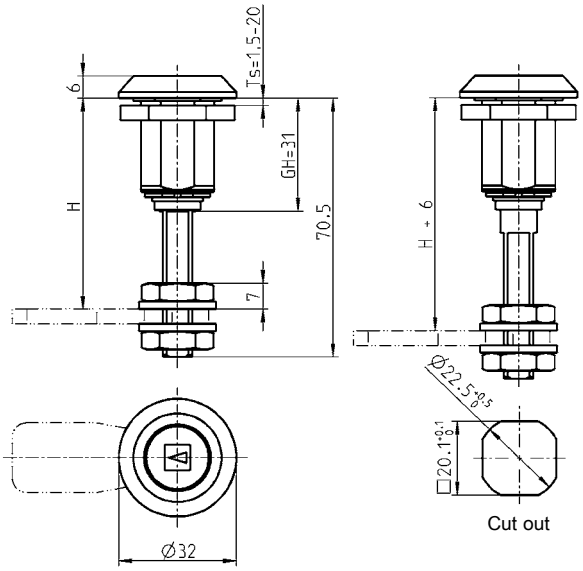
# Compression latch with adjustable Cam

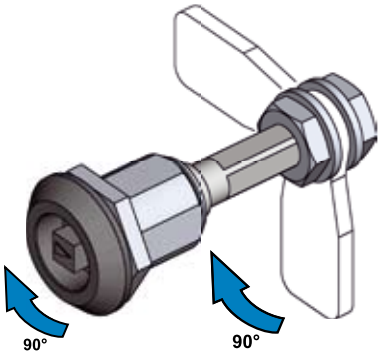
*PROGRAM 1000*



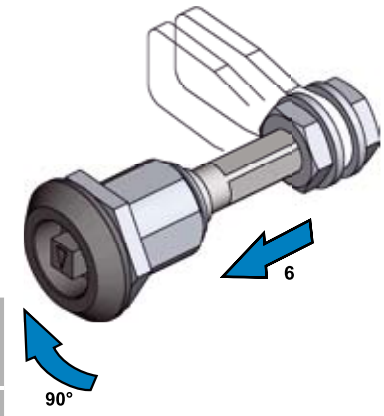
### Vibration proof

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

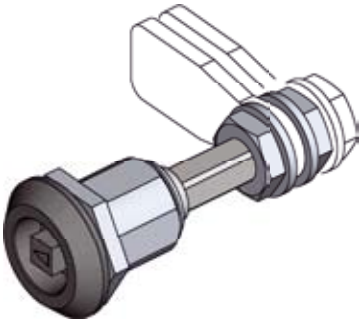



**Open condition**
The first 90° of rotation of the insert also turns the cam 90°.




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



**Compressed condition**

**Unlock:**
Reversed rotation

Railway version is compliant with RIC.

**Housing and insert zinc die surface of your choice; nut and screw m.s. zinc plated; with spring and seal; wing knob polyamide GF black with plug PE black**

| | black powder coated | chrome plated |
|---|---|---|
| Square 6 | on request | on request |
| Square 7 | 1000-U786 | on request |
| Square 8 | 1000-U797 | on request |
| Square 8 with arrow | 1000-U799 | on request |
| Square 8 with M6 thread and wing knob | 1000-U801 | on request |
| Triangular 6.5 CNOMO | on request | on request |
| Triangular 7 | 1000-U794 | 1000-U794-IA |
| Triangular 8 | 1000-U802 | on request |
| Triangular 9 | on request | on request |
| Triangular 10 | on request | on request |
| Double bit 3 | 1000-U803 | 1000-U803-IA |
| Double bit 5 | 1000-U804 | on request |
| Male hexagon 11mm with indicator | 1000-U816 | on request |
| Hexagon female 8mm | 1000-U808 | on request |
| Hexagon female 8mm with pin | 1000-U806 | on request |
| Hexagon female 10mm | 1000-U810 | on request |
| Square female 6 | 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 | 1000-U814 | 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 | 1000-U832 | 1000-U832-IA |
| Tube with indicator | 1000-U830 | on request |

**Further parts see page**


– Cam 1.5-840
– Dust cap 1.5-250
– Key 5.1-120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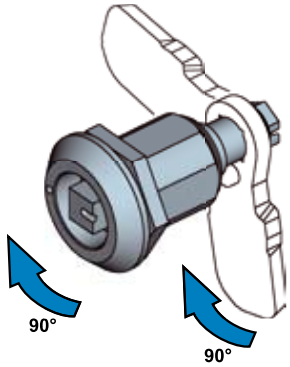
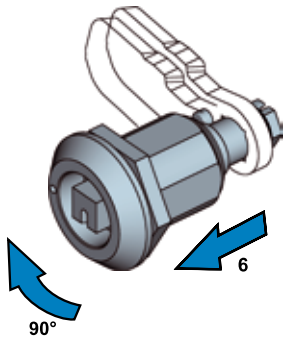
# Stainless steel and aluminium compression latch

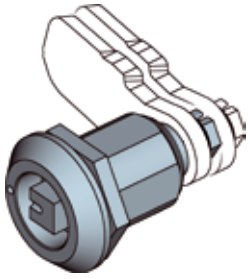
*PROGRAM 1000*




**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 6 mm toward the door axially.



**Compressed condition**

**Unlock:**
Reversed rotation

Railway version is compliant with RIC.

**On request:**
– Further inserts

**Further parts see page**

| | |
|---|---|
| – cam with catch | 1.5-820 |
| – Dust cap | 1.5-250 |
| – Key | 5.1-120 |

**Vibration proof**

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

EDELSTAHL Rostfrei STAINLESS STEEL

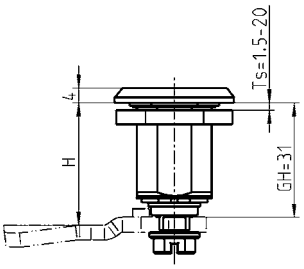
Certificate DIN EN 45545-2 E10 — for aluminium version

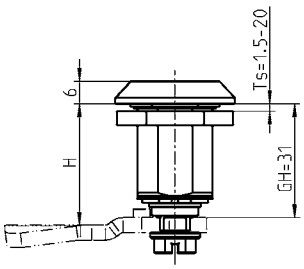
Certificate DIN EN 45545-2 E20 — for stainless steel version

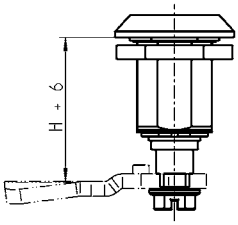
with arrow and red - green indicator

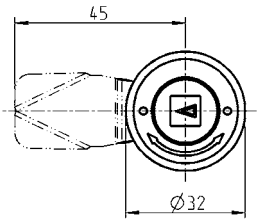
with indicator

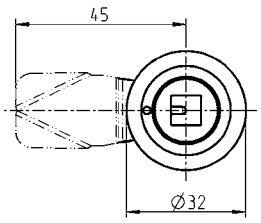
**Note:**
The H-dimension will be reduced by 2 mm if the opening handle is installed

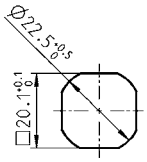



Cut out

| Stainless steel compression latch with arrow and red-green indicator AISI 316, with spring and flat gasket | |
|---|---|
| Square 8 right-hand version | 1000-U834-REPH |
| Square 8 left-hand version | 1000-U834-LIPH |
| **Stainless steel compression latch AISI 316, with spring and seal** | |
| Square 8 with indicator | 1000-U755-01 |
| Double bit 3 | 1000-U749-01 |
| Double bit 5 | 1000-U748-01 |
| Slot 2 x 4 | 1000-U777-01 |
| Railway | 1000-U831-01 |
| **Aluminium compression latch alu, with spring and seal** | |
| Square 8 with indicator | on request |
| Slot 2 x 4 | on request |
| Railway | on request |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# Stainless steel compression latch with adjustable cam height

*PROGRAM 1000*

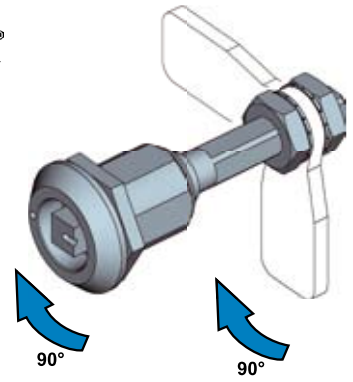


### Vibration proof

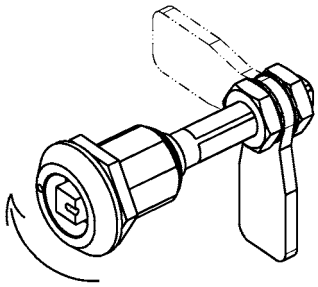
These latches are designed to be vibration proof with a distinct “over-center” action. There may be some cases of extreme vibration where this detent is overcome. Therefore we recommend rigorous testing.

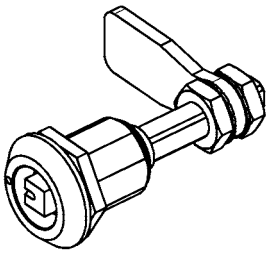
EDELSTAHL Rostfrei STAINLESS STEEL

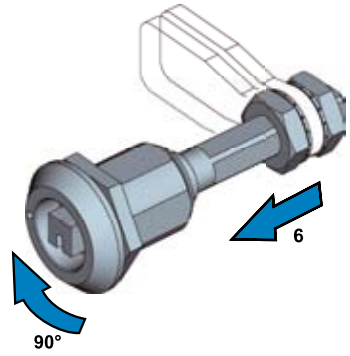
Certificate DIN EN 45545-2 E20



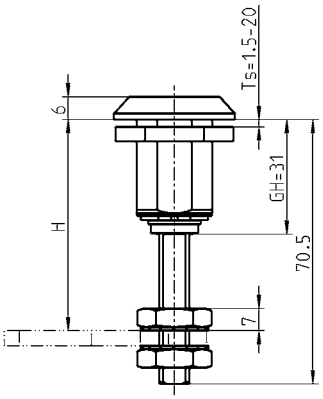

**Open condition**
The first 90° of rotation of the insert also turns the cam 90°.

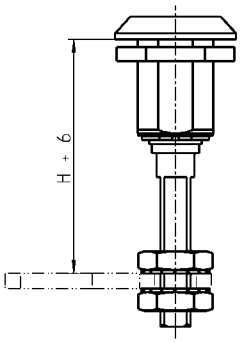


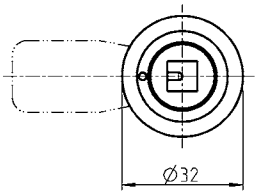


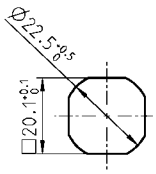



**Closed position**
The second 90° of rotation of the insert draws the cam 6 mm toward the door axially.

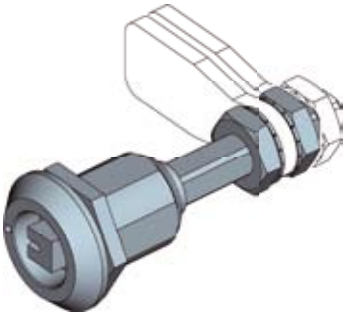



Cut out



**Compressed condition**

**Unlock:**
Reversed rotation

Railway version is compliant with RIC.

**On request:**
– Further inserts

| Compression latch AISI 316, with spring and gasket | |
|---|---|
| Square 8 with indicator | 1000-U755-02 |
| Railway | 1000-U831-02 |

**further parts see page**
– Cam 1.5-840
– Dust cap 1.5-250
– Key 5.1-120

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# Stainless steel quarter turn and stainless steel compression latch

Stainless steel quarter turn with optical opening indicator

Stainless steel quarter turn with optical opening indicator



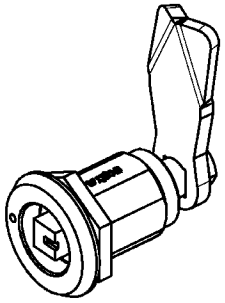
© EMKA Beschlagteile GmbH & Co. KG 2014

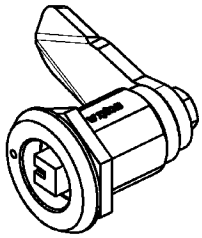
# Stainless steel compression latch
*PROGRAM 1000*

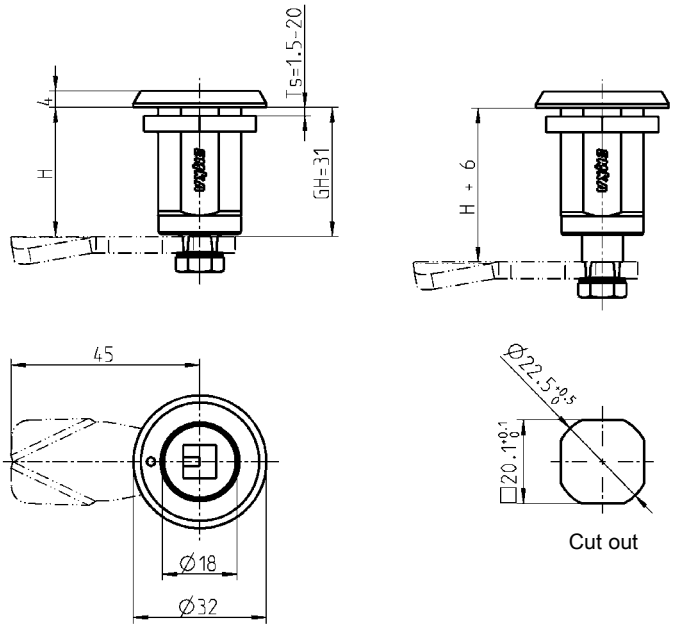


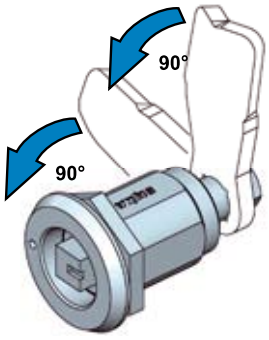
### Vibration proof

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

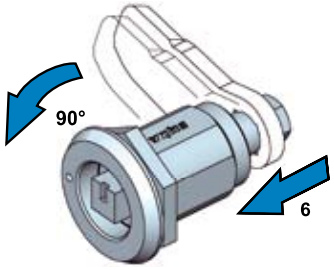




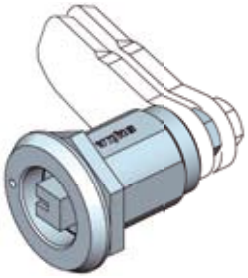



**Open condition**
The first 90° of rotation of the insert also turns the cam 90°.




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



**Compressed condition**

**Unlock:**
Reversed rotation

| Stainless steel compression latch AISI 316, with spring and seal | | |
|---|---|---|
| | RH version | LH version |
| Square 7 | on request | on request |
| Square 8 | 1000-U865-REPH | 1000-U865-LIPH |
| Triangular 8 | on request | on request |
| Double bit 3 | on request | on request |
| Double bit 5 | on request | on request |
| Hexagon male 10 mm | on request | on request |
| Slot 2 x 4 | on request | on request |
| Railway | on request | on request |

Railway version is compliant with RIC.

**On request:**
– further inserts

**Further parts see page**


– Cam without catch 1.5-820
– Dust cap 1.5-250
– Key 5.1-120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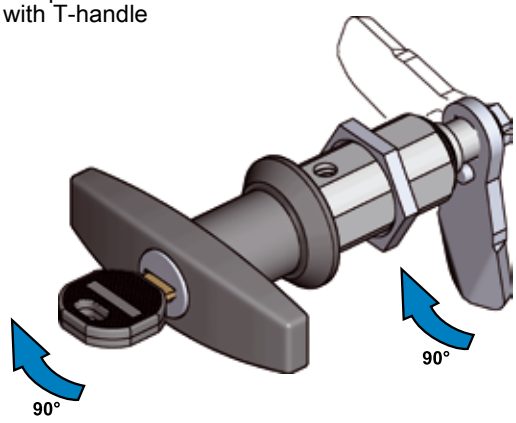
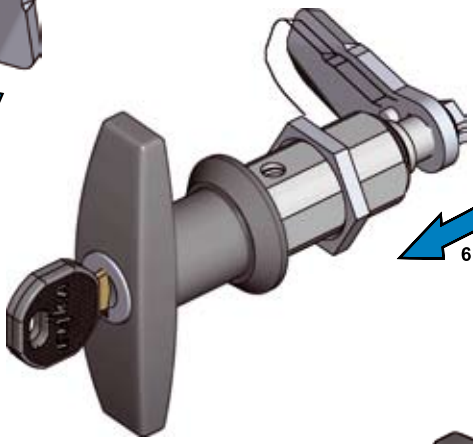
# Compression latch with handle

*PROGRAM 1000*

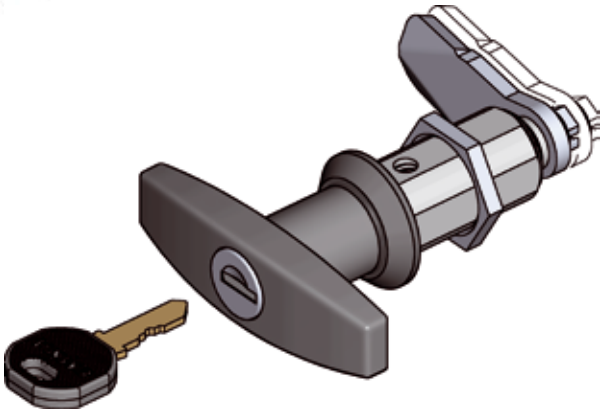
Example:
compression latch
with T-handle




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



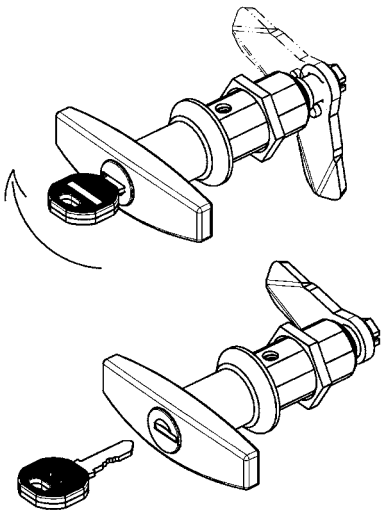

**Closed position**
The second 90° of rotation draws the cam 6mm axially towards the door.

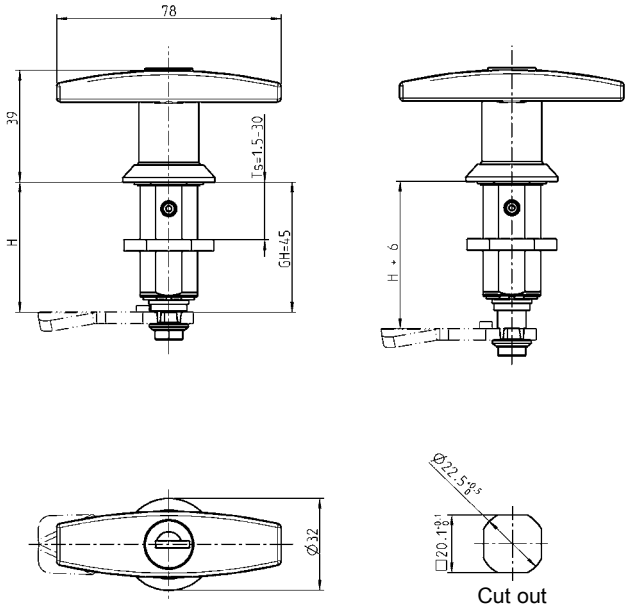


**Compressed condition**
Key removable

**Unlock:**
Reversed rotation

**Compression latch with T-handle**







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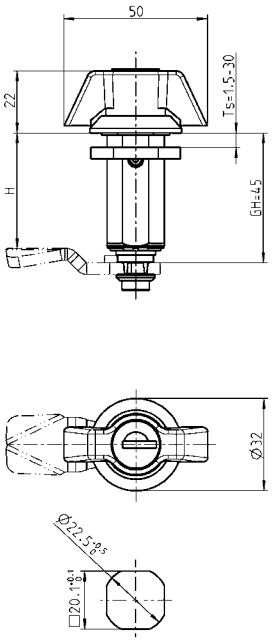
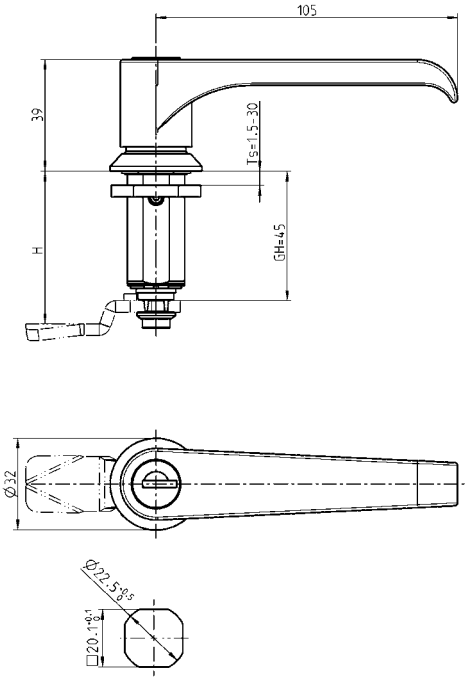
**Compression latch with wing knob**

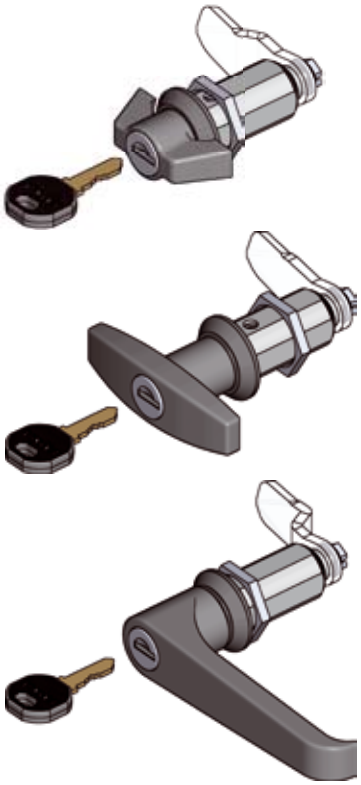



Cut out

**Compression latch with L-handle**




Cut out



**Vibration proof**

This compression latch is vibration-proof as such.
This depends on the installation location and operational conditions.
Specific checks are necessary and/or supplementary measures of fastening required.

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

| | 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 |

**On request:**
– Stainless version

**Further parts see page**
– cam with catch 1.5-820
– dust cap for T-handle 1.5-250

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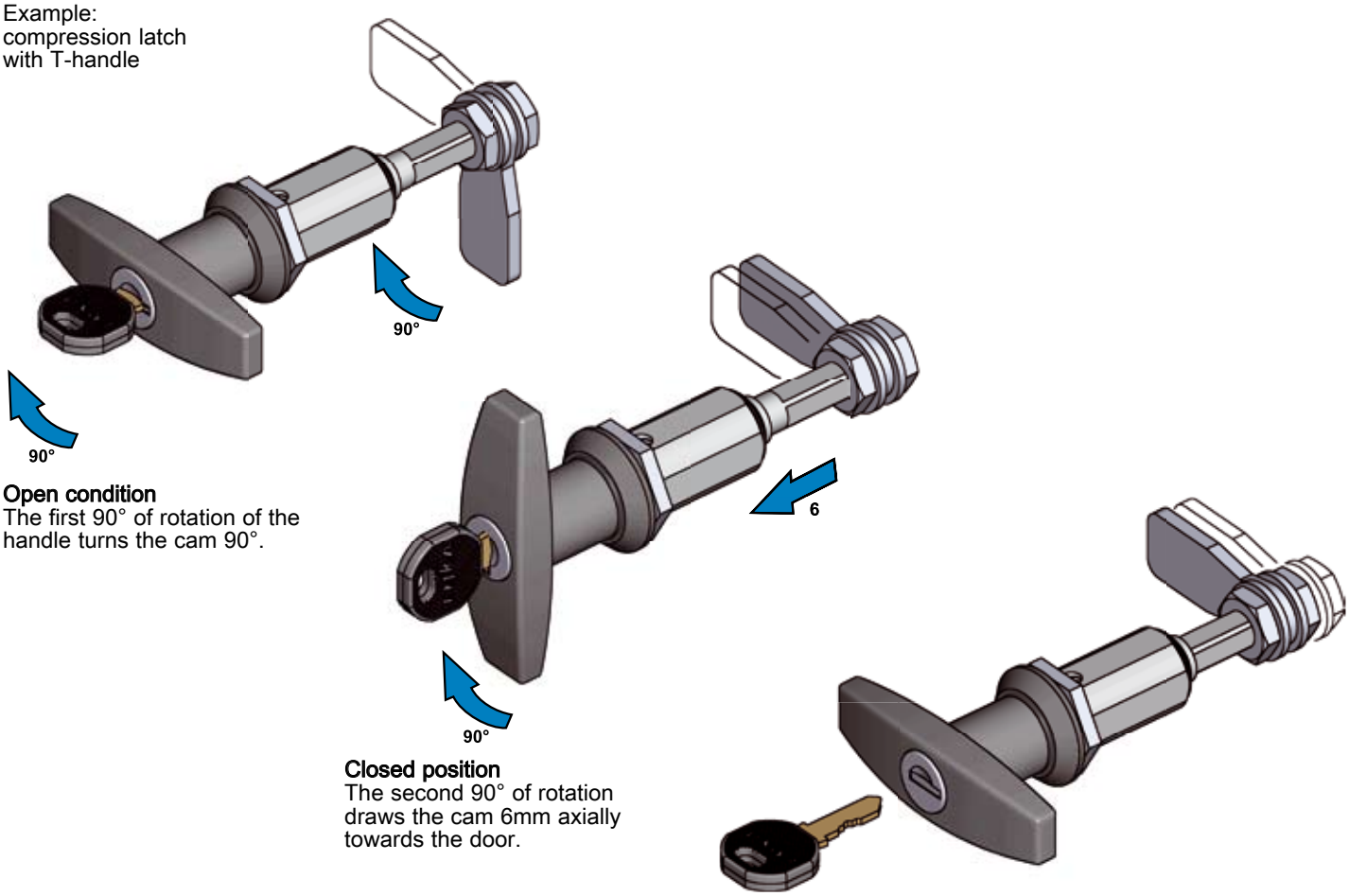
# Compression latch with handle with adjustable cam height

*PROGRAM 1000*

Example:
compression latch
with T-handle



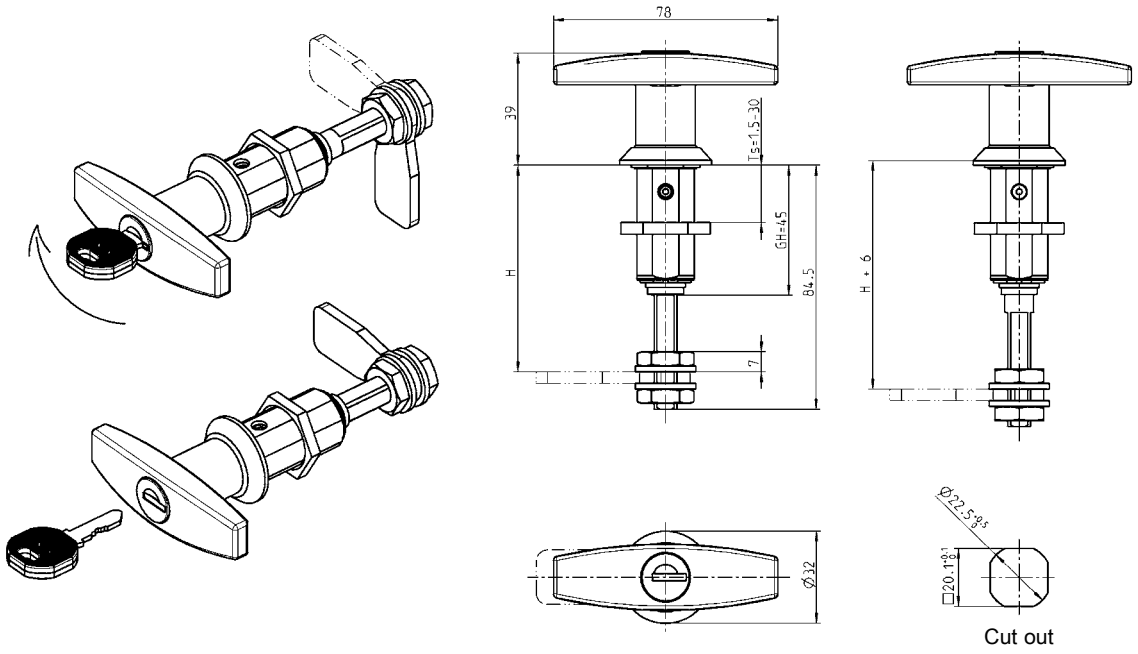

**Open condition**
The first 90° of rotation of the handle turns the cam 90°.

**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**





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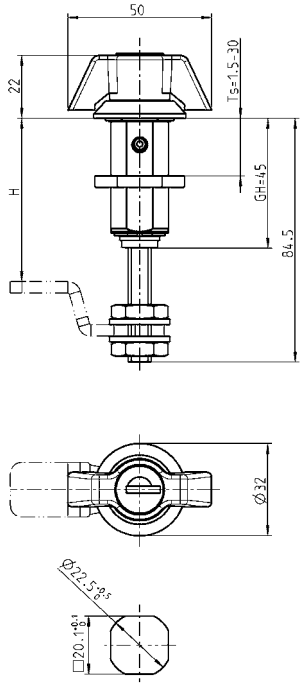
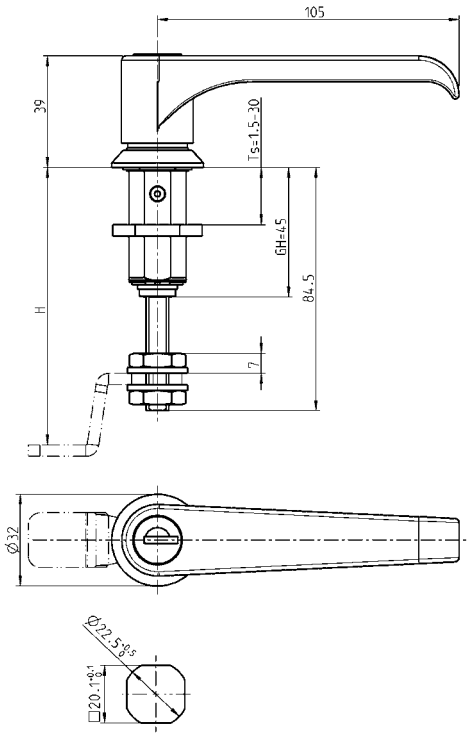
### Compression latch with wing knob

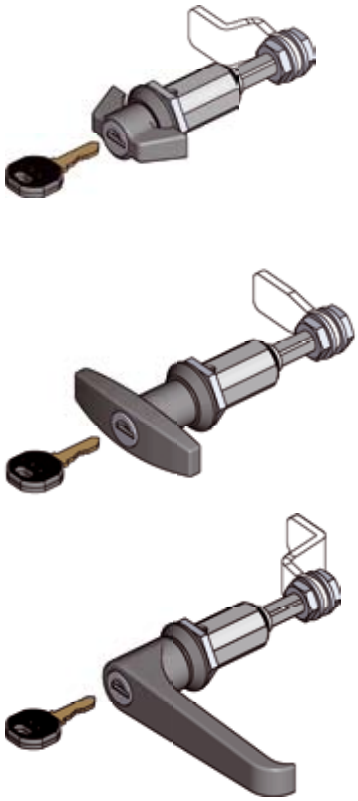



Cut out

### Compression latch with L-handle




Cut out



## Vibration proof

This compression latch is vibration-proof as such.
This depends on the installation location and operational conditions.
Specific checks are necessary and/or supplementary measures of fastening required.

Stainless steel version on request.

**Handle and housing zinc die black powder coated, cylinder zinc die with stainless steel cap and dust cover, nut and screw zinc plated with spring and seal Each cylinder has one silver steel key with polyamide grip. Key removable in both positions.**

| | non locking | keyed EK 333 | keyed different |
|---|---|---|---|
| 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**

– Cam 1.5-840
– Dust cap for T-handle 1.5-250

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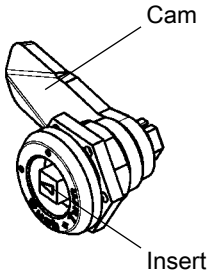
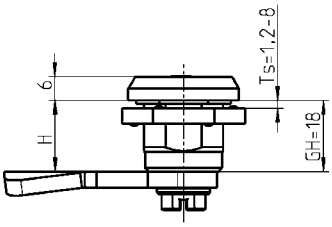
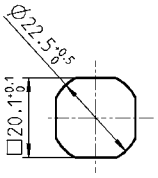
# Safety quarter turn without mask
## *PROGRAM 1000*

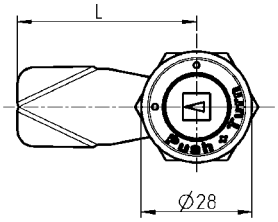
**Press down insert and turn quarter turn!**




Cut out




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

**Note:**
Only cams without catch can be used.
The H-dimension will be reduced by 2 mm if the opening handle is installed

Railway version is compliant with RIC.

**On request:**
– Further inserts

**Further parts see page**


– Cam without catch 1.5-820
– Slam lock 1.6-120
– Dust cap 1.5-250
– Key 5.1-120


| Housing and insert material of your 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 |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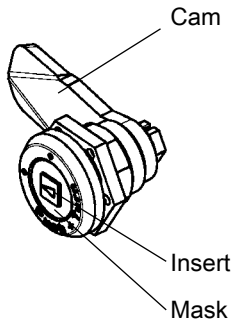
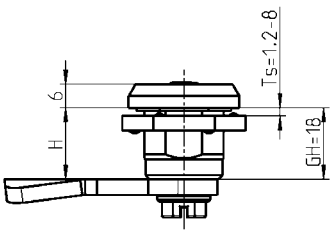
# Safety quarter turn with mask
*PROGRAM 1000*





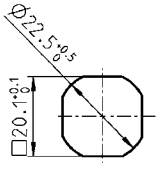




EDELSTAHL Rostfrei STAINLESS STEEL

Certificate DIN EN 45545-2 E20

for stainless steel version

**Insert square or triangular**

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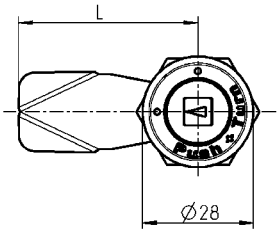
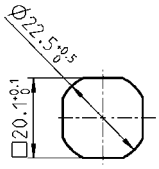
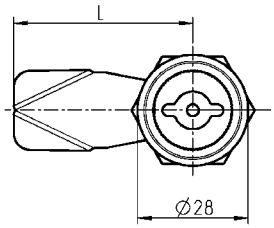


**Insert double bit**

**Press down insert and turn quarter turn!**




Cut out




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

In case of version double bit: key only removable in locked Position.

Keyhole for double bit according to key DIN 43668.

| Housing and insert material of your choice, mask zinc die raw, screw and earthnut m.s. zinc plated and/or scew and nut stainless steel, with spring and seal | | |
|---|---|---|
| | **zinc die chrome pl.** | **AISI 316** |
| Square 6 | on request | on request |
| Square 7 | 1000-U818-02IA | on request |
| Square 8 | 1000-U818-03IA | on request |
| Square 8 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 of your 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 RH version | 1000-U819-01IA | on request |
| Double bit 3 LH version | 1000-U819-03IA | on request |
| Double bit 5 RH version | 1000-U819-02IA | on request |
| Double bit 5 LH version | 1000-U819-04IA | on request |

**Note:**
Only cams without a catch can be used.
In case of using the opening handle, the H-Dimension is decreased by 2 mm

**On request:**
– further inserts

**Further parts see page**


– Cam without catch 1.5-820
– Slam lock 1.6-120
– Dust cap 1.5-250
– Key 5.1-120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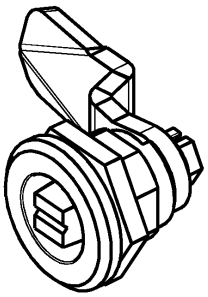
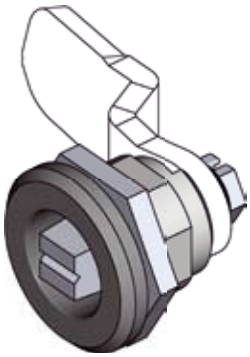
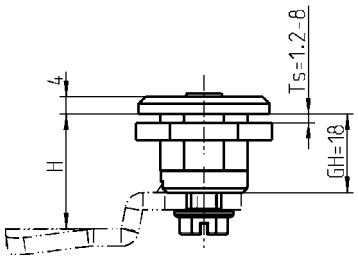
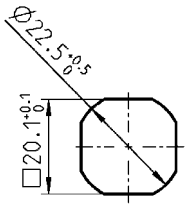
# Railway quarter turn
## *PROGRAM 1000*

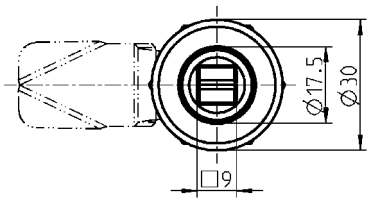







Cut out




Railway version is compliant with RIC.

| Housing zinc die, surface upon request, screw nut and earthnut m.s. zinc plated, insert of your choice | | |
|---|---|---|
| **insert m.s. zinc plated** | **Nut** | **Earthnut** |
| housing chrome plated | 1000-U431 | 1000-U499 |
| Housing black powder coated | 1000-U432 | 1000-U500 |
| **Insert zinc die chrome plated** | **Nut** | **Earthnut** |
| 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 |
| **Assembly on request:** | | |
| without O-ring | | 1000-990 |
| with O-ring | | 1000-991 |

**Further parts see page**
– cam with catch 1.5-820
– Slam lock 1.6-120
– Dust cap 1.5-250
– Key 5.1-120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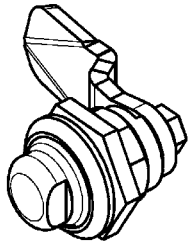
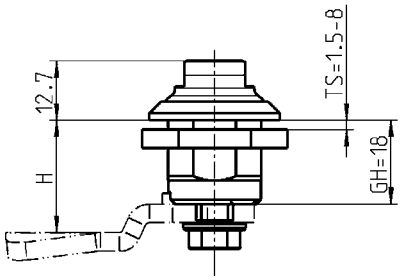
# Stainless steel quarter turn for hygienic areas

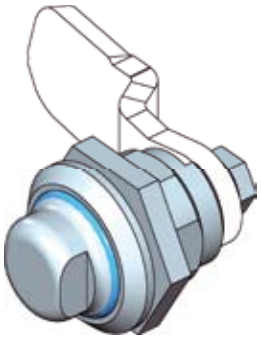
*PROGRAM 1000*

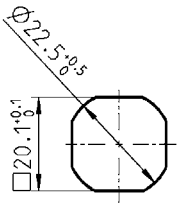


The quarter turn for hygienic areas
meets hygiene standard acc. to DIN EN 1672- and DIN EN 14159

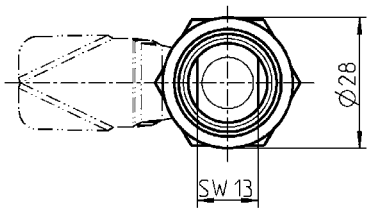







Cut out



| | |
|---|---|
| **Quarter turn AISI 316L, with seal** | |
| | 1000-U838 |
| **Key zinc die raw** | |
| | 1004-53 |

**Further parts see page**
– cam with catch 1.5-820

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# Stainless steel compression latch for hygienic areas

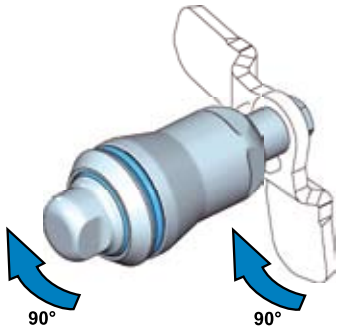
## *PROGRAM 1000*

EDELSTAHL Rost frei STAINLESS STEEL

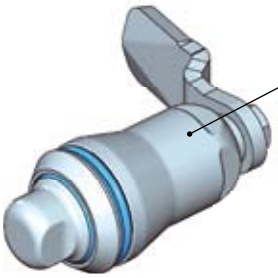
The quarter turn for hygienic areas
meets hygiene standard acc. to DIN EN 1672- and DIN EN 14159

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

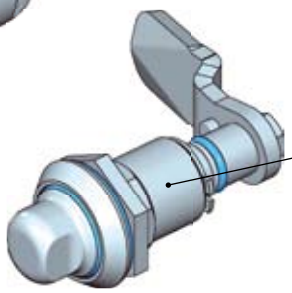
**Vibration proof**
The compression latch is vibration-proof as such.
Depending on the installation location and operational conditions specific checks are necessary and/or supplementary measures of fastening required.



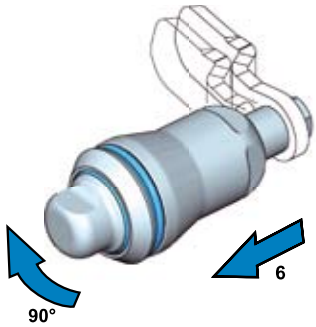

**Open condition**
The first 90° of rotation of the insert also
turns the cam 90°.



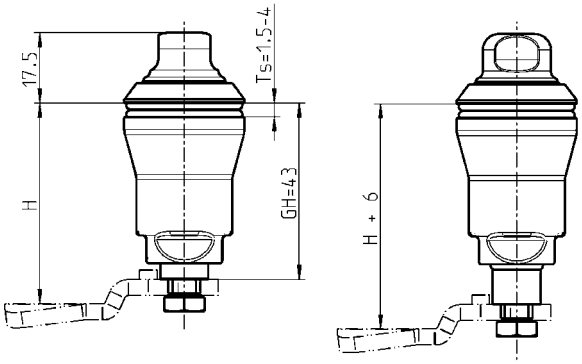
1000-U861
Hygiene type for outside and inside the cabinet

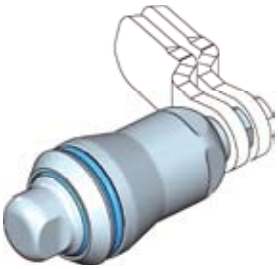


1000-U862
Hygiene type for outside the cabinet, not for inside



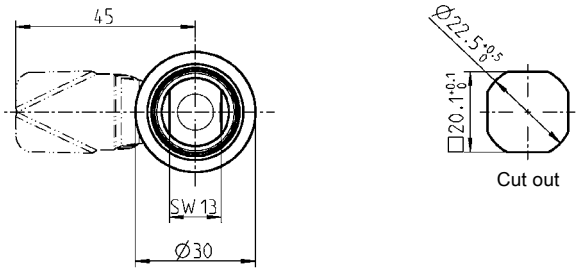

**Closed position**
The second 90° of rotation of the insert draws the cam 6 mm toward the door axially.



**Compressed condition**

**Unlock:**
Reversed rotation




| Compression latch for hygienic areas AISI 316L; with spring and seal | |
|---|---|
| Hygiene type for outside and inside the cabinet | 1000-U861 |
| Hygiene type for outside the cabinet, not for inside | 1000-U862 |
| **Key zinc die raw** | |
| | 1004-53 |

**Further parts see page**
– Cam with or without catch 1.5-820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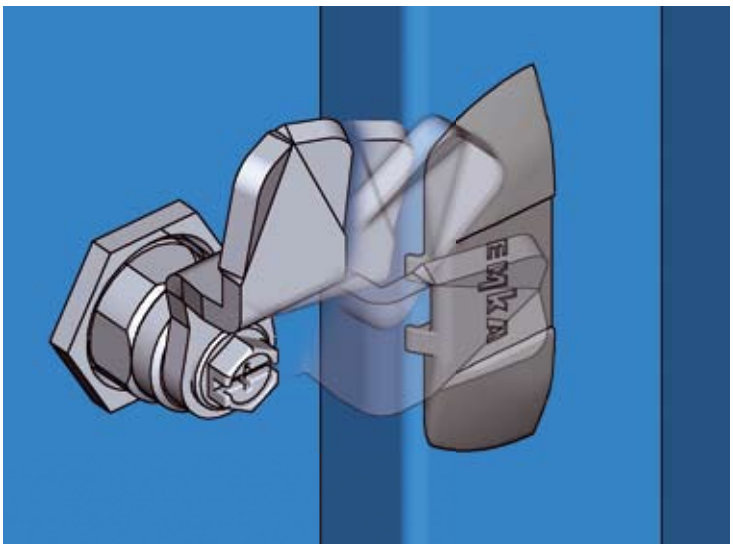
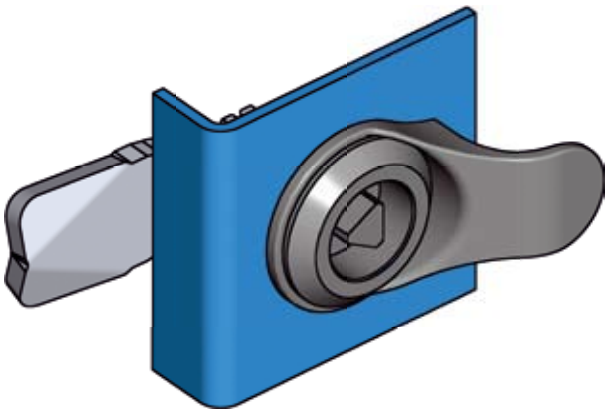
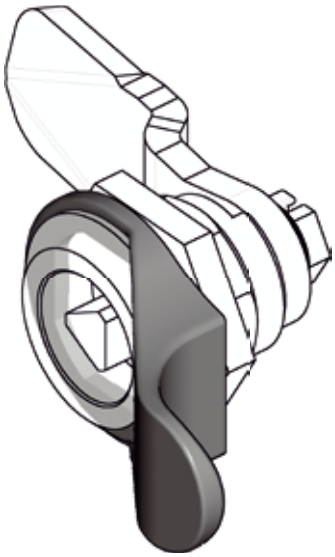
Ramp

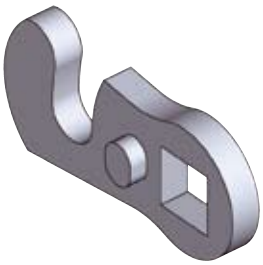


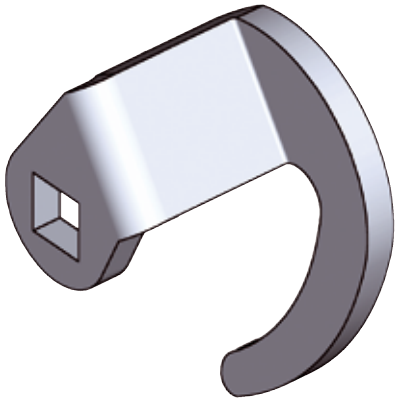
Finger pull

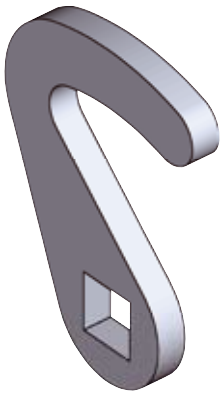




Hooked cam







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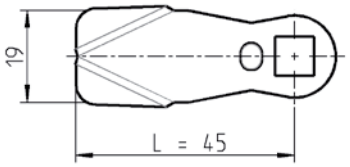
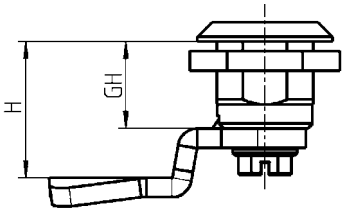
# cam with catch
# cam without catch
## *PROGRAM 1000*

EDELSTAHL Rostfrei STAINLESS STEEL

t = 4



cam with catch

cam without catch

**Order example for cam without catch:**
To order a cam without catch, please add -Z to the part number from the table below.
Example: You need a cam for housing GH = 18 without catch and with the H dimension of 22 mm from one of the available materials: m.s. zinc plated, AISI 304 or AISI 316.

Please order using the following part nos.:
for cam without catch m.s. zinc plated . . . . . = 1000-15-**Z**
for cam without catch of AISI 304 . . . . . = 1000-179-**Z**
for cam without catch of AISI 316 . . . . . = 1000-179-**ZPD**

**Cam with catch material of choice**

| H für GH = 18 | 30 | 31 | 32 | 36 | 39 | 40 | 43 | 45 | 50 | 60 | m.s. zinc plated | AISI 304 | AISI 316 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 16 | 17 | 18 | 22 | 25 | 26 | 29 | 31 | 36 | 46 | 1000-112 | - | - |
| 6 | 18 | 19 | 20 | 24 | 27 | 28 | 31 | 33 | 38 | 48 | 1000-22 | 1000-221 | 1000-221-PD |
| 8 | 20 | 21 | 22 | 26 | 29 | 30 | 33 | 35 | 40 | 50 | 1000-113 | - | - |
| 10 | 22 | 23 | 24 | 28 | 31 | 32 | 35 | 37 | 42 | 52 | 1000-21 | 1000-223 | 1000-223-PD |
| 13 | 25 | 26 | 27 | 31 | 34 | 35 | 38 | 40 | 45 | 55 | 1000-20 | - | - |
| 14 | 26 | 27 | 28 | 32 | 35 | 36 | 39 | 41 | 46 | 56 | 1000-19 | 1000-225 | 1000-225-PD |
| 16 | 28 | 29 | 30 | 34 | 37 | 38 | 41 | 43 | 48 | 58 | 1000-18 | - | - |
| 18 | 30 | 31 | 32 | 36 | 39 | 40 | 43 | 45 | 50 | 60 | 1000-17 | 1000-227 | 1000-227-PD |
| 20 | 32 | 33 | 34 | 38 | 41 | 42 | 45 | 47 | 52 | 62 | 1000-16 | 1000-228 | 1000-228-PD |
| 22 | 34 | 35 | 36 | 40 | 43 | 44 | 47 | 49 | 54 | 64 | 1000-15 | 1000-179 | 1000-179-PD |
| 24 | 36 | 37 | 38 | 42 | 45 | 46 | 49 | 51 | 56 | 66 | 1000-14 | 1000-229 | 1000-229-PD |
| 25 | 37 | 38 | 39 | 43 | 46 | 47 | 50 | 52 | 57 | 67 | 1000-27 | - | - |
| 26 | 38 | 39 | 40 | 44 | 47 | 48 | 51 | 53 | 58 | 68 | 1000-50 | 1000-230 | 1000-230-PD |
| 28 | 40 | 41 | 42 | 46 | 49 | 50 | 53 | 55 | 60 | 70 | 1000-13 | 1000-180 | 1000-180-PD |
| 30 | 42 | 43 | 44 | 48 | 51 | 52 | 55 | 57 | 62 | 72 | 1000-28 | - | - |
| 32 | 44 | 45 | 46 | 50 | 53 | 54 | 57 | 59 | 64 | 74 | 1000-26 | - | - |
| 34 | 46 | 46 | 48 | 52 | 55 | 56 | 59 | 61 | 66 | 76 | 1000-12 | - | - |
| 35 | 47 | 48 | 49 | 53 | 56 | 57 | 60 | 62 | 67 | 77 | 1000-11 | - | - |
| 36 | 48 | 49 | 50 | 54 | 57 | 58 | 61 | 63 | 68 | 78 | 1000-51 | - | - |
| 38 | 50 | 51 | 52 | 56 | 59 | 60 | 63 | 65 | 70 | 80 | 1000-52 | - | - |
| 40 | 52 | 53 | 54 | 58 | 61 | 62 | 65 | 67 | 72 | 82 | 1000-25 | - | - |
| 42 | 54 | 55 | 56 | 60 | 63 | 64 | 67 | 69 | 74 | 84 | 1000-53 | - | - |
| 44 | 56 | 57 | 58 | 62 | 65 | 66 | 69 | 71 | 76 | 86 | 1000-54 | - | - |
| 45 | 57 | 58 | 59 | 63 | 66 | 67 | 70 | 72 | 77 | 87 | 1000-10 | - | - |
| 47 | 59 | 60 | 61 | 65 | 68 | 69 | 72 | 74 | 79 | 89 | 1000-55 | - | - |
| 50 | 62 | 63 | 64 | 68 | 71 | 72 | 75 | 77 | 82 | 92 | 1000-56 | - | - |

minus offset ⇧
straight version
⇩ plus offset

**Note:**
Further cams on request

**Further parts see page**

**Part for cam with catch**
– Chest handle 1.2-220
– Quarter turns 1.5-140, 1.5-240, 1.5-280, 1.5-320, 1.5-340, 1.5-520, 1.5-620, 1.5-630

**Part for cam without catch**
– Quarter turns 1.5-160, 1.5-220, 1.5-336, 1.5-420, 1.5-430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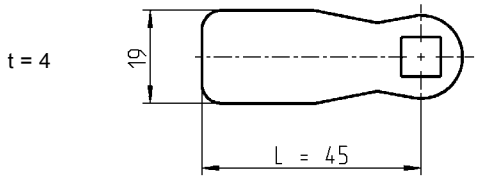


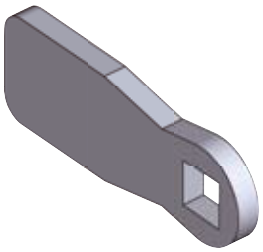

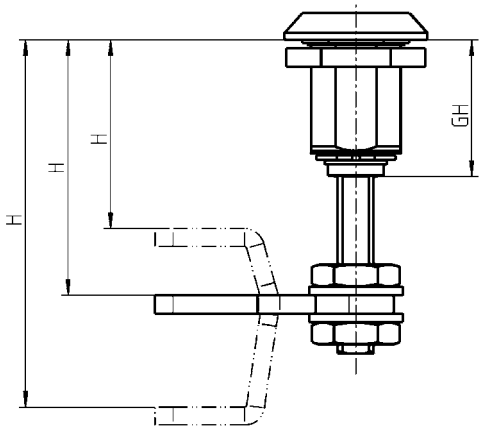


| Cam m.s. zinc plated | | |
|---|---|---|
| **for GH = 31** | **H** | **GH = 31** |
| straight | 38 - 58 | 1000-476 |
| offset +/- 14 mm | 24 - 44 ; 52 - 72 | 1000-478 |
| offset +/- 26 mm | 12 - 32 ; 64 - 84 | 1000-477 |
| **for GH = 45** | **H** | **GH = 45** |
| straight | 52 - 72 | 1000-476 |
| 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 |

**On request:**
– further cams

**Further parts see page**

– Chest handle 1.2-240
– Quarter turns 1.5-290
1.5-330
1.5-350


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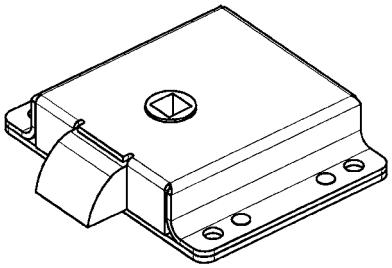
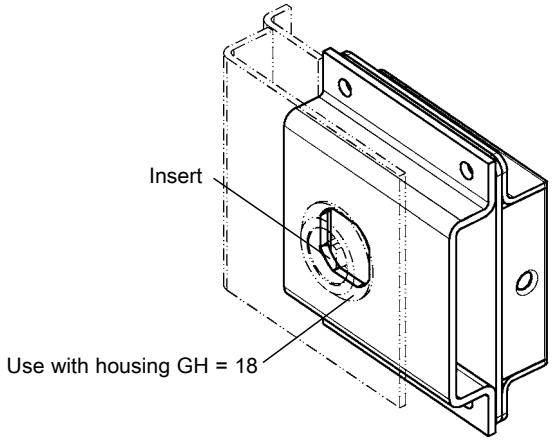
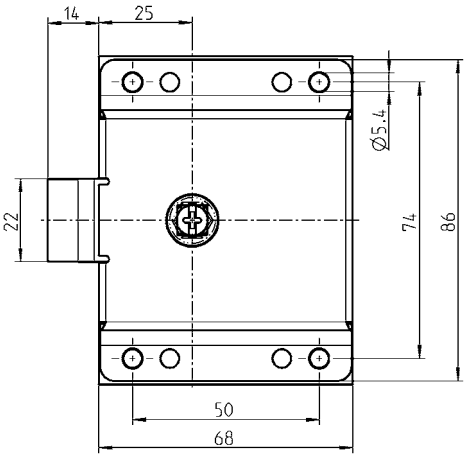
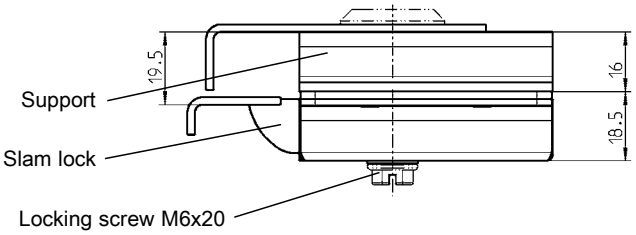
# Slam lock
## *PROGRAM 1034*






- Door edge to sq drive c/l approx. 25 mm




| | Slam latch m.s. zinc pl., zinc die raw and spring steel<br>Support and vibration proof screw m.s. zinc plated | |
|---|---|---|
| | Slam lock | 1034-U1 |
| | Support | 1034-03 |
| | Locking screw M6x20 | 1000-277-04JB |

**Further parts see page**
– Quarter turns
1.5-140
1.5-420
1.5-430
1.5-520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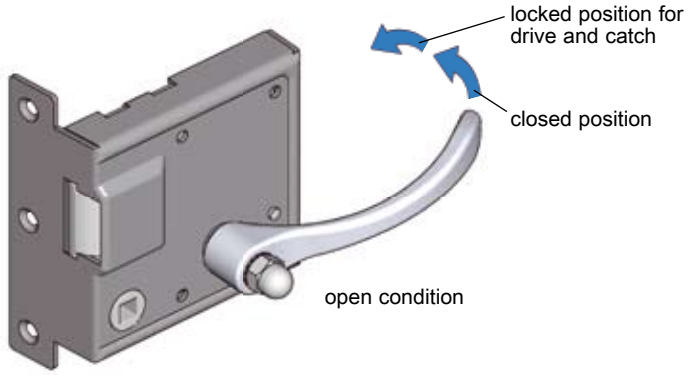
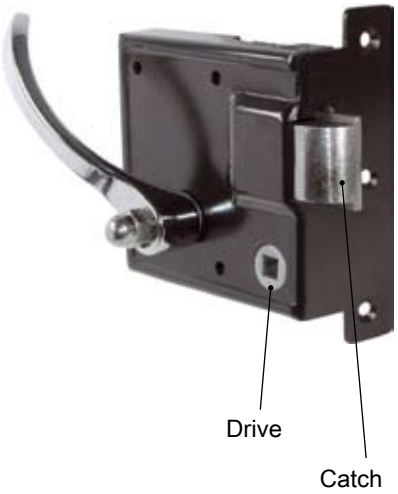
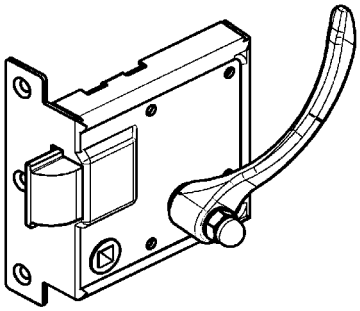
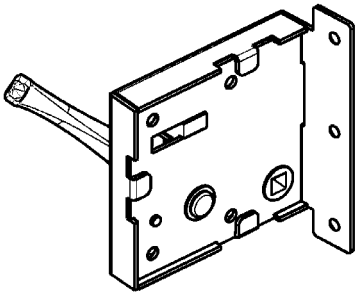


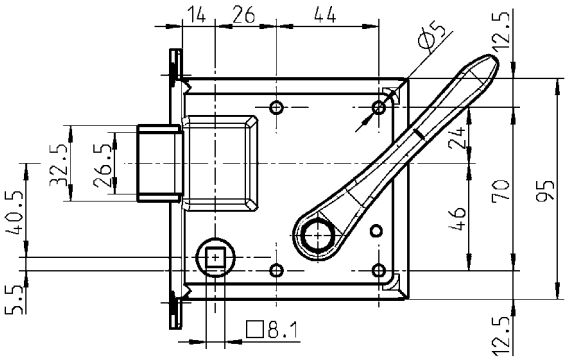

LH version

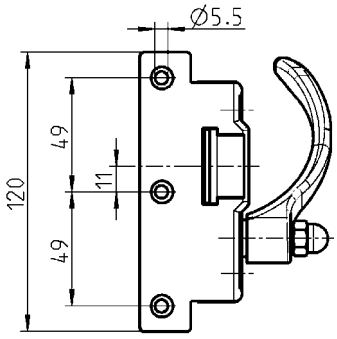
RH version

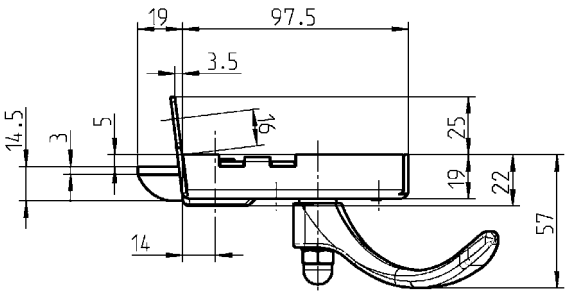







- inside handle available separately
- Locking via lock and nut
- Door edge to sq drive c/l approx. 15 mm

| Slam lock m.s. electroplated black; case GTW, interior handle zinc plated, bottom panel and other components m.s.; drive and lock washer ms zinc plated, with spring | |
|---|---|
| Right, mirror image | 1034-SU12 |
| left, as shown | 1034-SU11 |

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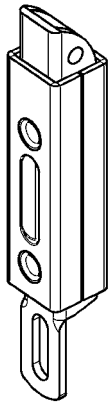
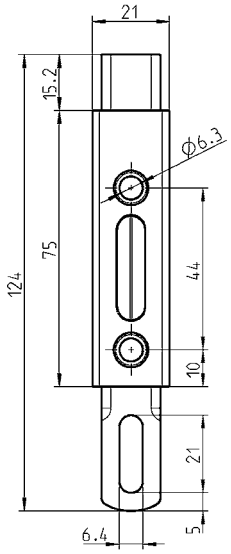
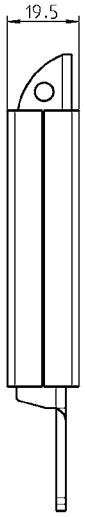
# Slam lock
## *PROGRAM 1085*

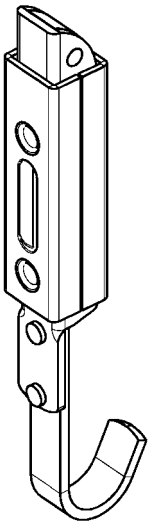


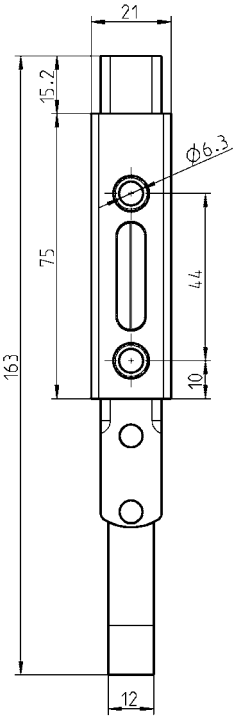


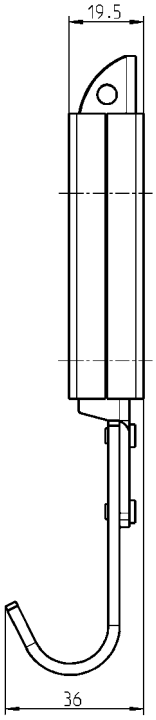




Slam locks with different tensions on request

| Slam lock m.s. zinc plated; with spring | |
|---|---|
| | 1085-U1 |






Slam locks with different tensions on request

| Slam-lock m.s. zinc plated; with spring | |
|---|---|
| | 1085-SU8 |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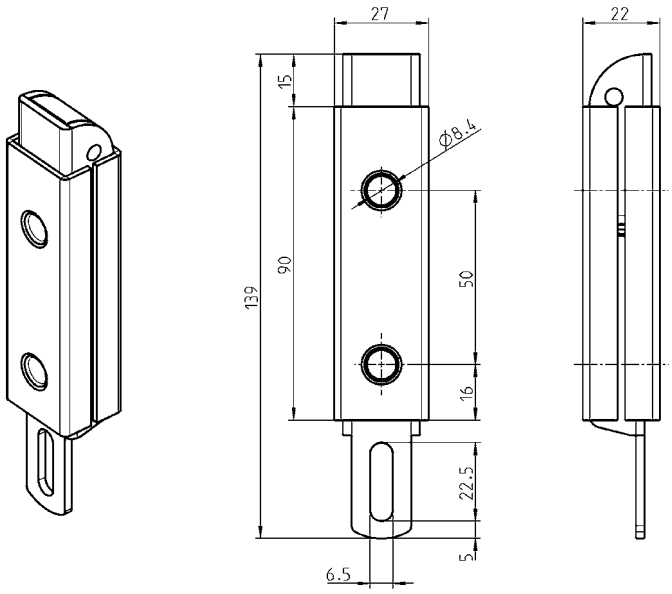
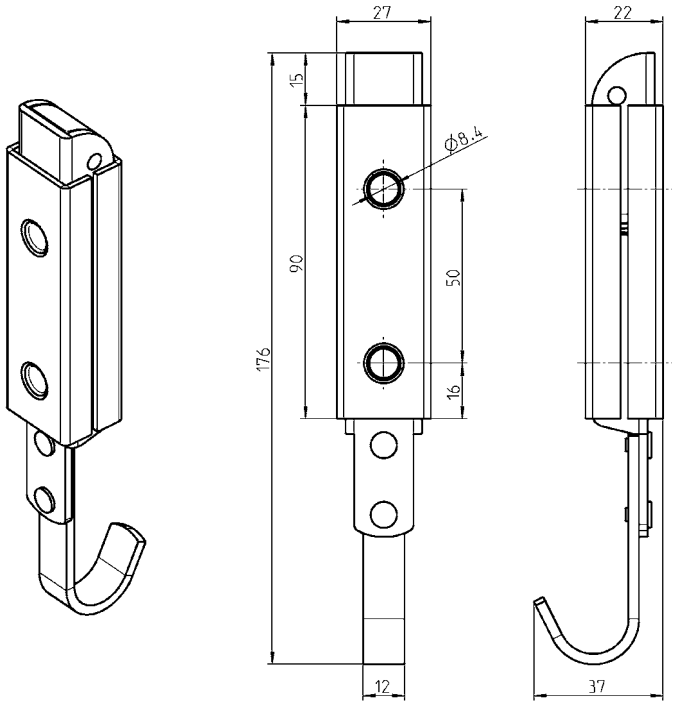


| Slam lock m.s. zinc plated; with spring | |
|---|---|
| | 1085-SU7 |

Slam locks with different tensions on request



| Slam lock m.s. zinc plated; with spring | |
|---|---|
| | 1085-SU6 |

Slam locks with different tensions on request

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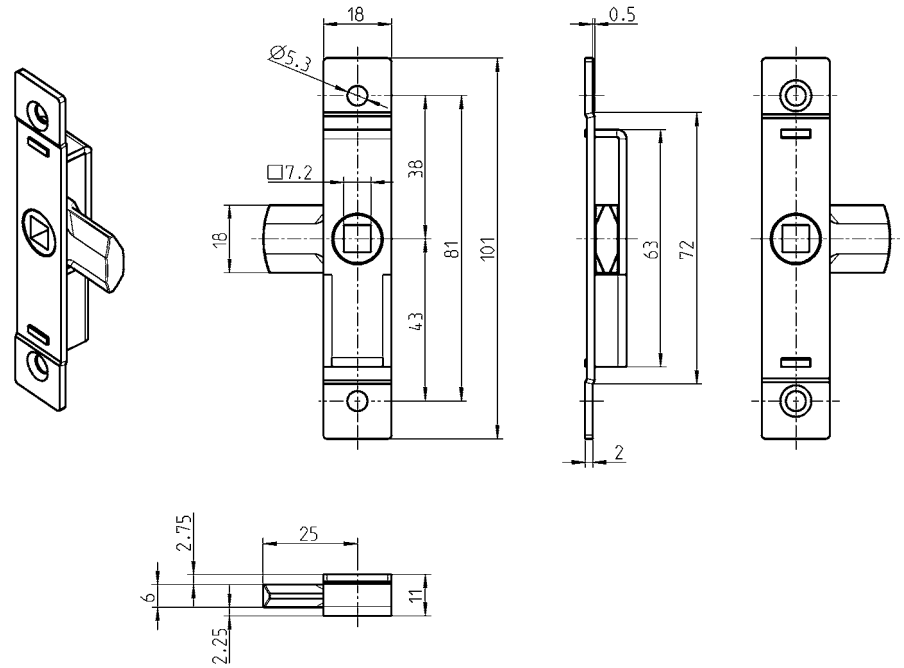
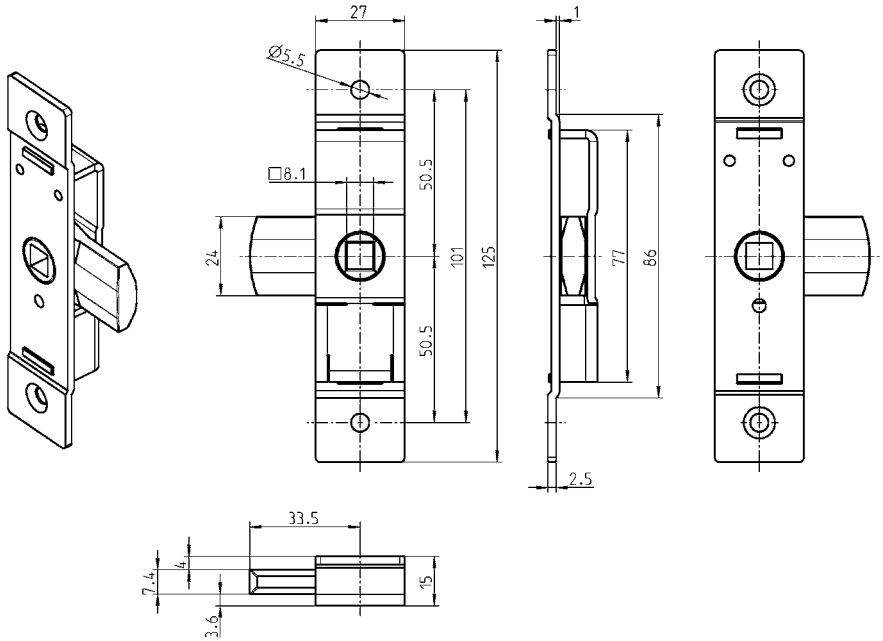
# Latch lock
## *PROGRAM 1001*




- Door edge to sq drive c/l approx. 9.5 mm

| Latch lock m.s. zinc plated; cam zinc die raw; with spring | |
|---|---|
| | 1001-U43 |




- Door edge to sq drive c/l approx. 13 mm

| Latch lock m.s. zinc plated; cam zinc die raw; with spring | |
|---|---|
| | 1001-U44 |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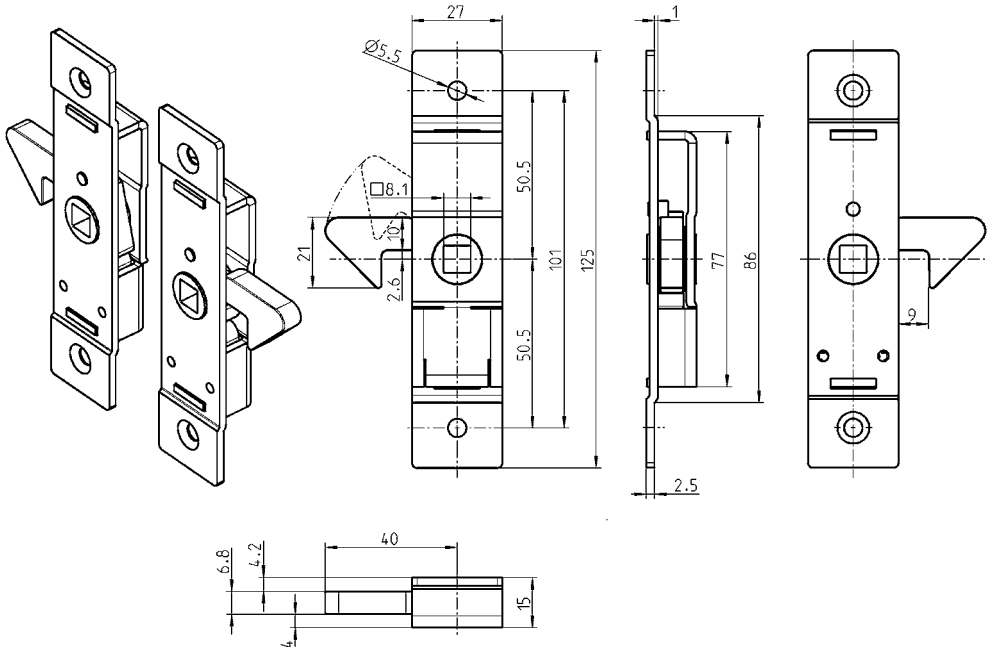
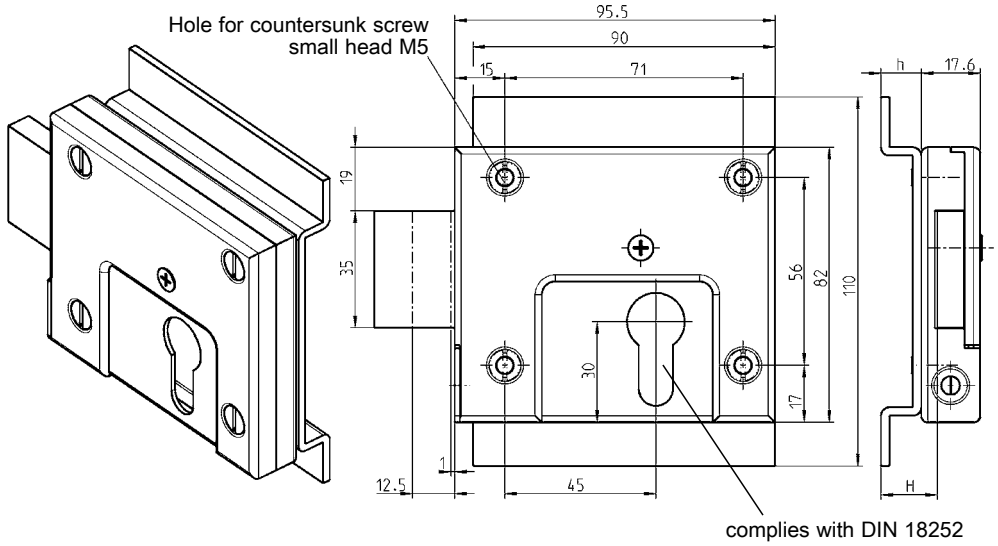
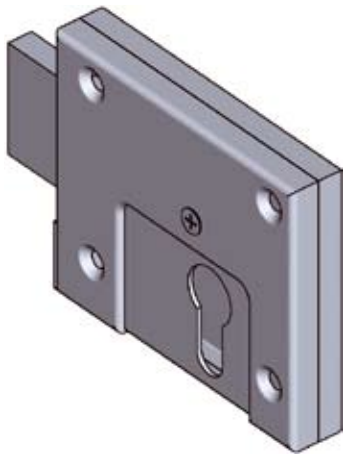


- Door edge to sq drive c/l approx. 13 mm

| Latch lock m.s. zinc plated; hook cam zinc die raw; with spring | |
|---|---|
| right, as drawn | 1001-U45-RE |
| left, mirror image | 1001-U45-LI |



Dead-bolt lock for both LH/RH

**small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047**

| Dead-bolt lock m.s. zinc plated | | | |
|---|---|---|---|
| | | | 1080-U1 |
| **Lock support m.s. raw** | | | |
| **H** | **h** | **Profile cylinder length** | |
| 16,5 | 12 | 40 | 1080-01 |
| 26,5 | 22 | 50 | 1080-02 |

**On request:**
– further lock versions

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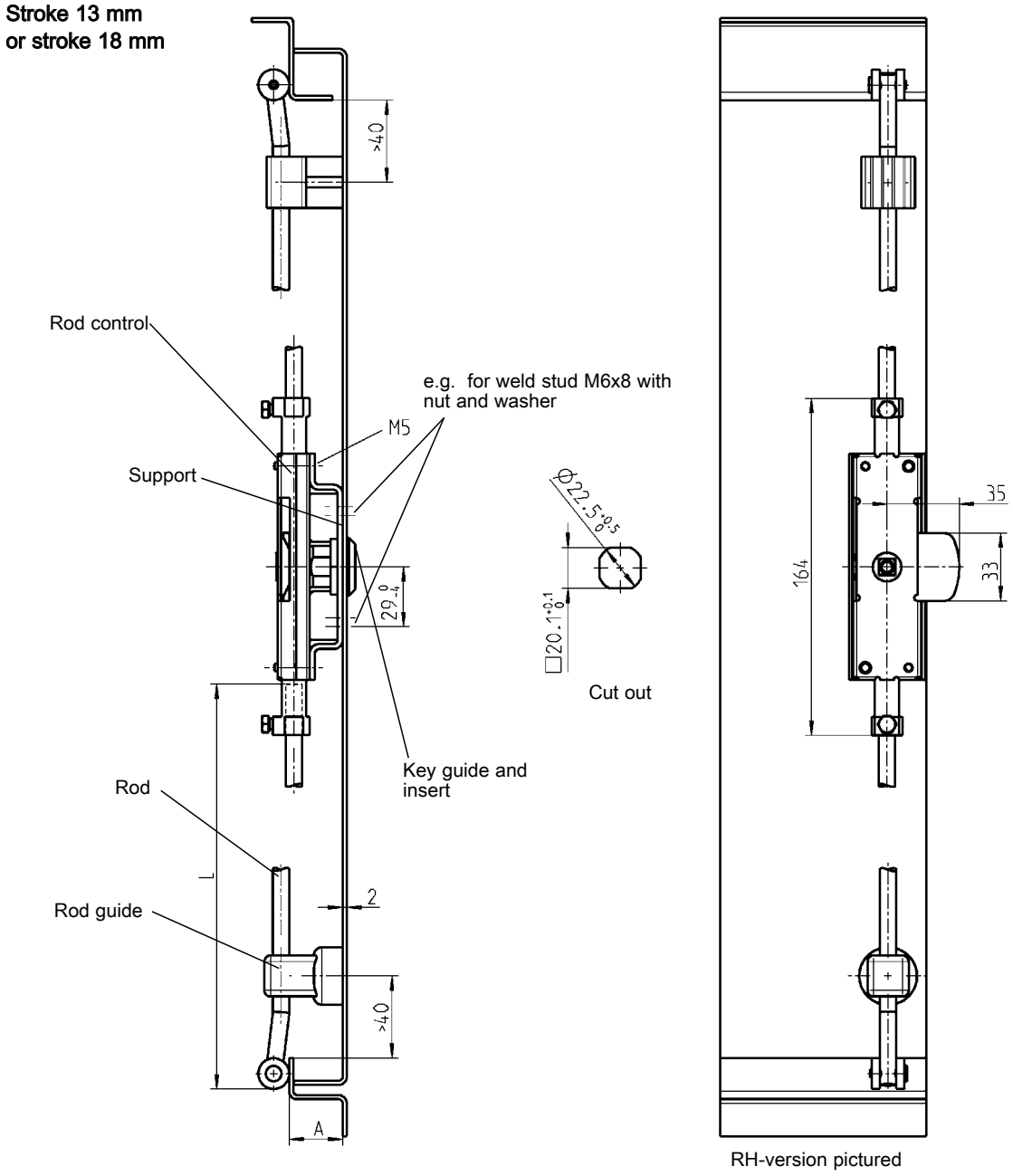
# Rod control and insert

*PROGRAM 1049, 1068*




| Rod control m.s. zinc plated | | |
|---|---|---|
| | Stroke 13 | Stroke 18 |
| RH | 1049-U1 | 1049-U19 |
| LH | 1049-U2 | 1049-U20 |
| **Support m.s. zinc plated** | | |
| | A20 | A26 |
| RH/LH | 1001-47 | 1001-50 |

| Rod control m.s. zinc pl. for profile cylinder | | |
|---|---|---|
| | | Stroke 18 |
| RH | – | 1068-U1 |
| LH | – | 1068-U2 |
| **Support m.s. zinc plated** | | |
| | A20 | A26 |
| RH | 1001-45 | 1001-48 |
| LH | 1001-46 | 1001-49 |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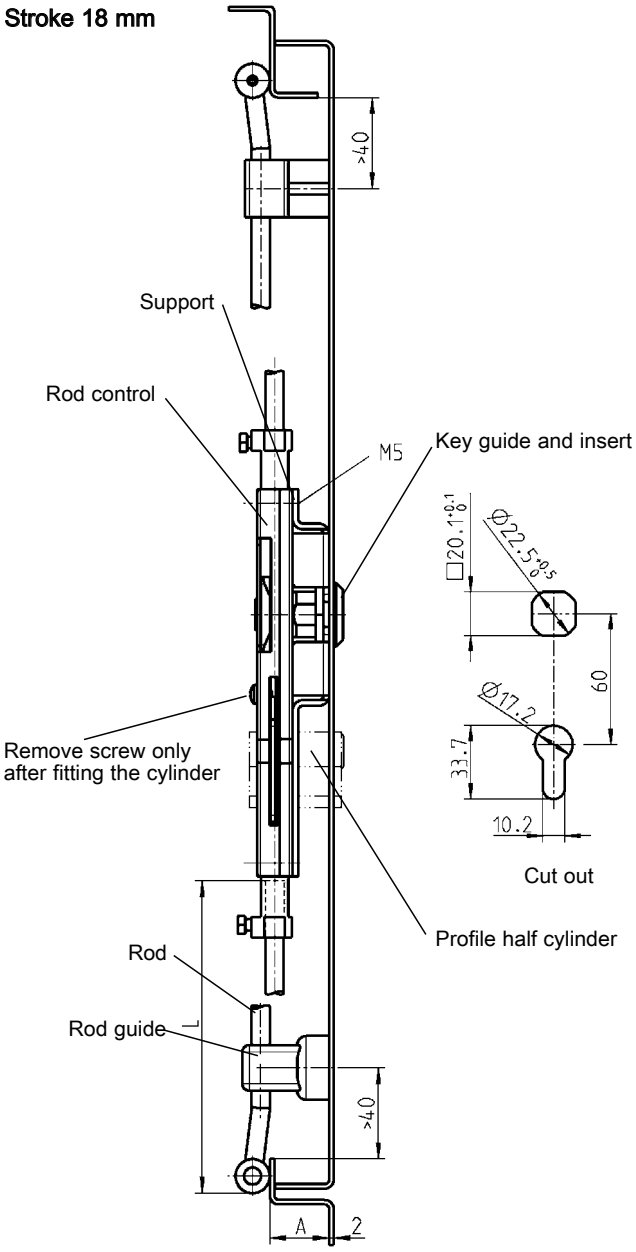
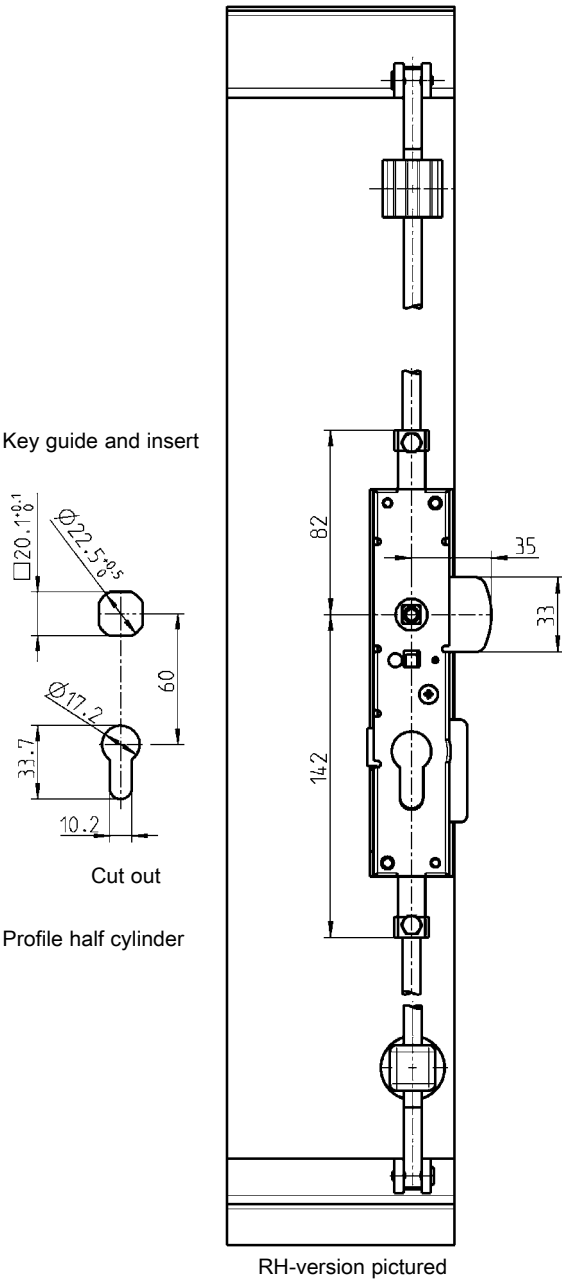
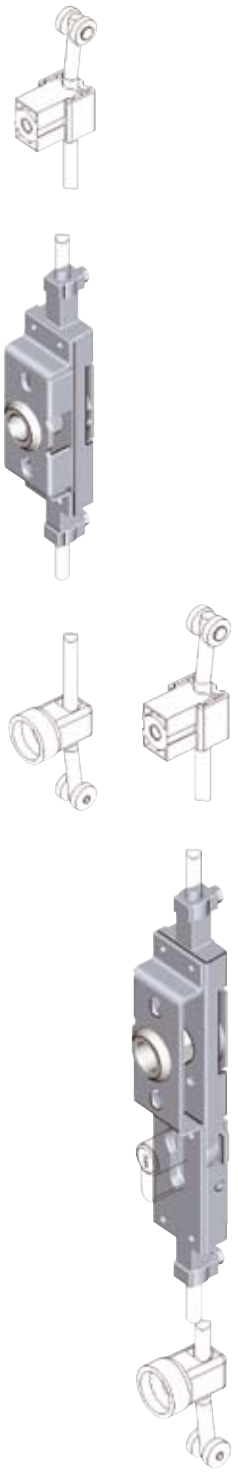
**Stroke 18 mm**




Cut out

RH-version pictured



| Key guide zinc die Chrome plated or powder coated black with nut m.s. zinc plated | | |
|---|---|---|
| **chrome plated** | **A20** | **A26** |
| for square and triangular | 1001-U13 | 1001-U14 |
| for double bit | 1001-U15 | 1001-U16 |
| for Daimler Benz | 1001-U17 | 1001-U18 |
| for FIAT | 1001-U32 | – |
| **black powder coated** | | |
| for square and triangular | 1001-U24 | 1001-U25 |
| for double bit | 1001-U26 | 1001-U27 |
| for Daimler Benz | 1001-U28 | 1001-U29 |
| for FIAT | 1001-U33 | – |

| Insert zinc die chrome pl. | | |
|---|---|---|
| Square | 6 | 1000-59 |
| Square | 7 | 1000-04 |
| Square | 8 | 1000-05 |
| Triangular | 7 | 1000-06 |
| Triangular | 8 | 1000-07 |
| for double bit | 3 | 1000-08 |
| for double bit | 5 | 1000-09 |
| for Daimler Benz | | 1000-64 |
| for FIAT | | 1000-352 |
| **IP 65 achieved by:** | | |
| Flat seal | | 1000-23 |
| O-ring | | 1000-24 |

**Further parts see page**


– T-handle 1.7-340
– L-handle 1.7-340
– Rod on request
– Rod guide on request
– Profile half cylinder on request
– Key 5.1-120
– Escutcheon on request
– Adapter system for insulated doors 1.7-380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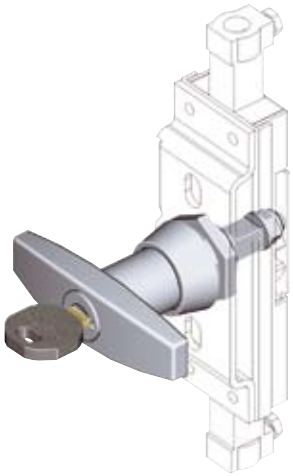
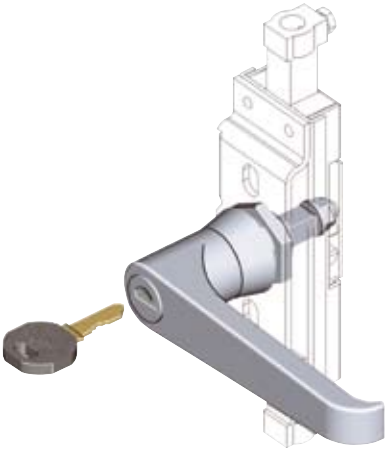
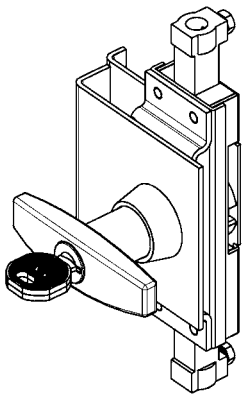
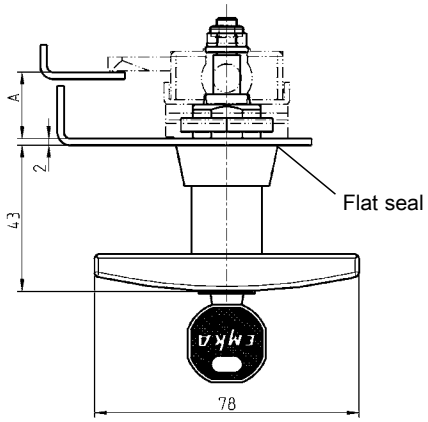
# T-handle
# L-handle
*PROGRAM 1102, 1103*



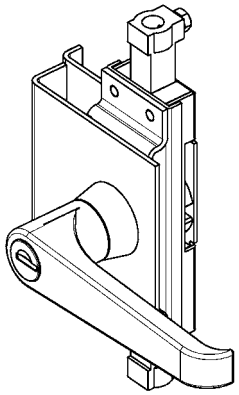


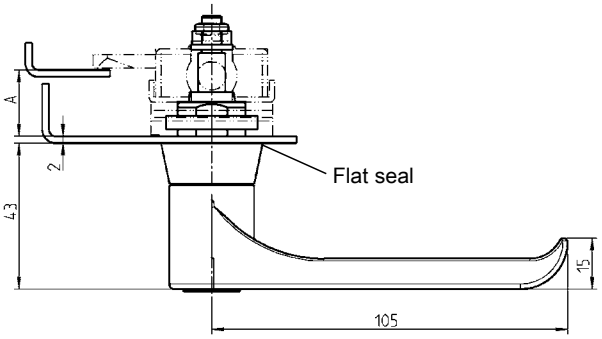
**T-handle**

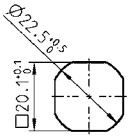





**L-handle**






| T-handle zinc die with nut and washer m.s. zinc pl., with seal. For each round cylinder one silver steel key with polyamide grip GF black. | | non locking | Keyed EMKA 333 | keyed different |
|---|---|---|---|---|
| **A20** | chrome plated | 1102-U1 | 1102-U3 | 1102-U5 |
| | black powder coated | 1102-U7 | 1102-U9 | 1102-U11 |
| **A26** | chrome plated | 1102-U2 | 1102-U4 | 1102-U6 |
| | black powder coated | 1102-U8 | 1102-U10 | 1102-U12 |

| L-handle zinc die with nut and washer m.s. zinc pl., with seal. For each round cylinder one silver steel key with polyamide grip GF black. – Insert spring loaded – | | | chrome plated | | black powder coated | |
|---|---|---|---|---|---|---|
| | | | A20 | A26 | A20 | A26 |
| non locking | | (IP 65) | 1103-U1 | 1103-U2 | 1103-U21 | 1103-U22 |
| keyed EMKA 333 | | (IP 65) | 1103-U3 | 1103-U4 | 1103-U23 | 1103-U24 |
| keyed different | | (IP 65) | 1103-U5 | 1103-U6 | 1103-U25 | 1103-U26 |
| Square | 7 | IP 65 (on request) | 1103-U7 | 1103-U8 | 1103-U27 | 1103-U28 |
| Square | 8 | | 1103-U9 | 1103-U10 | 1103-U29 | 1103-U30 |
| Triangular | 7 | | 1103-U11 | 1103-U12 | 1103-U31 | 1103-U32 |
| Triangular | 8 | | 1103-U13 | 1103-U14 | 1103-U33 | 1103-U34 |
| Double bit | 3 | | 1103-U15 | 1103-U16 | 1103-U35 | 1103-U36 |
| Double bit | 5 | | 1103-U17 | 1103-U18 | 1103-U37 | 1103-U38 |
| Daimler Benz | | | 1103-U19 | 1103-U20 | 1103-U39 | 1103-U40 |

**Further parts see page**
– Dust cap for T-handle 1.5-250
– Rod control 1.7-320
– Adapter system for insulated doors 1.7-380
– Key 5.1-120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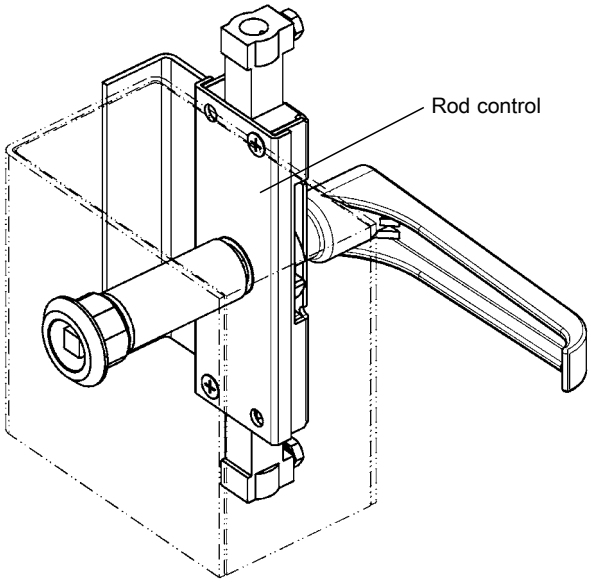


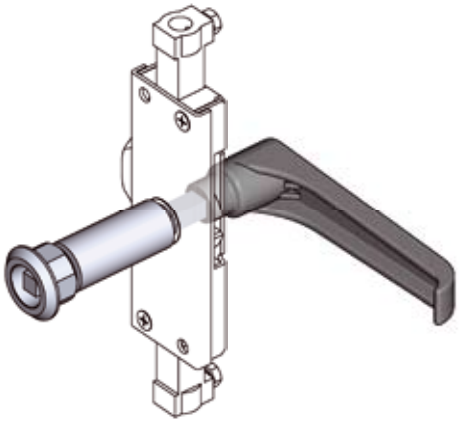

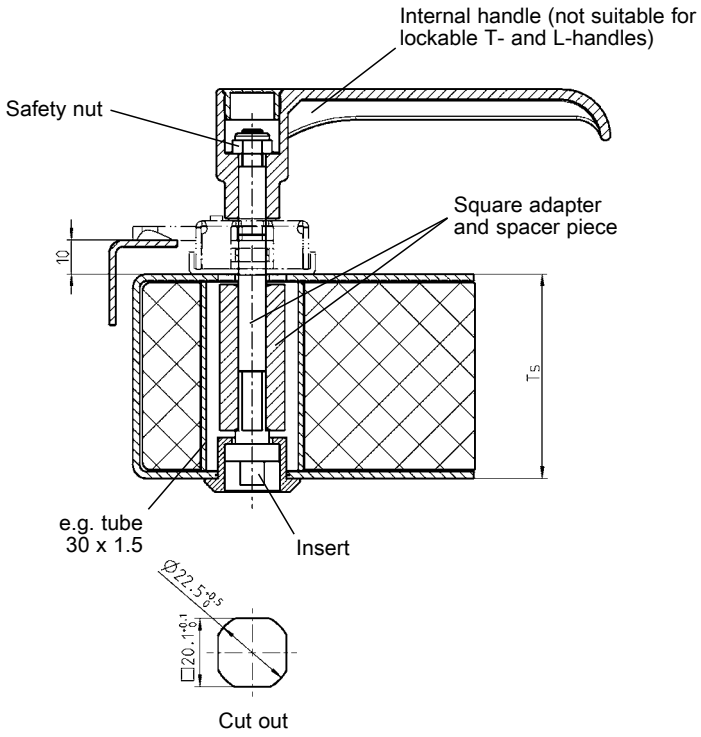


**Adapter system pre-assembled with handle or insert, inserted into the aperture and held by locking nut M6.**

| Insert, m.s. zinc plated key guide zinc die chrome plated safety nut m.s.zinc plated | | Door thick-ness Ts | Square adapter m.s.z.pl. | Spacer piece aluminium |
|---|---|---|---|---|
| Square 7 | 1001-U21 | 20 | – | – |
| Square 8 | 1001-U22 | 40 | 1x1001-65 | 1001-69 |
| Double bit 5 | 1001-U23 | 50 | 1x1001-66 | 1001-70 |
| **Adapter for interior handle m.s.zinc plated** | | 60 | 1x1001-67 | 1001-71 |
| | 1001-65 | 80 | 2x1001-66 | 1001-72 |
| **Int. handle polyamide black** | | 100 | 2x1001-67 | 1001-73 |
| | 1000-U829 | | | |

**Further parts see page**
- Rod control 1.7-320
- T- or L-handle A = 26 1.7-340
- Key 5.1-120
- Lock against rotation on request

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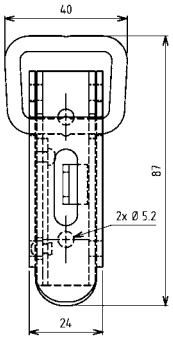
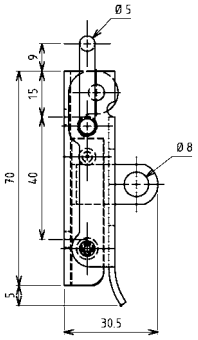
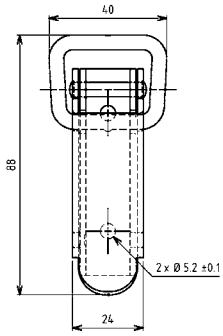
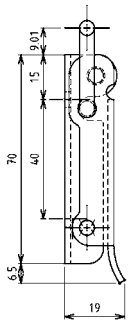
# Toggle latches
# with latch fastener and safety catch
## *PROGRAM 6000*



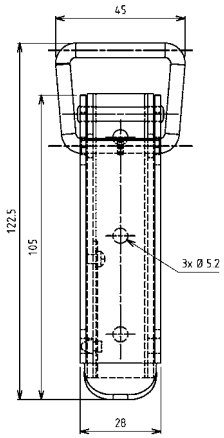



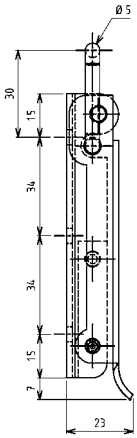

| Toggle latch with high opening resistance | | |
|---|---|---|
| | **without padlock facility** | **with padlock facility** |
| Zinc plated steel DS plus Top Coat drilled | 6002-U75-JQ | 6002-U74-JQ |
| **Toggle latch with low opening resistance** | | |
| | **without padlock facility** | **with padlock facility** |
| Zinc plated steel DS plus Top Coat drilled | 6002-U77-JQ | 6002-U73-JQ |
| AISI 304, drilled | 6002-U77-PC | 6002-U73-PC |




| Toggle latch with low opening resistance, economic version | | |
|---|---|---|
| | **without padlock facility** | **with padlock-facility** |
| Zinc plated steel, drilled | 6002-U76-JB | - |




| Toggle latch with high opening resistance | | |
|---|---|---|
| | **without padlock facility** | **with padlock facility** |
| Raw steel drilled | 6002-U15-KA | 6002-U14-KA |
| Zinc plated steel DS plus Top Coat drilled | 6002-U15-JQ | 6002-U14-JQ |
| AISI 304 drilled | 6002-U15-PC | 6002-U14-PC |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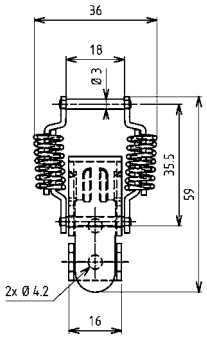
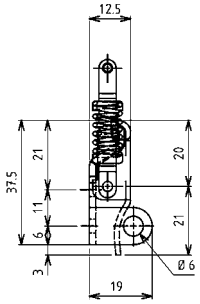
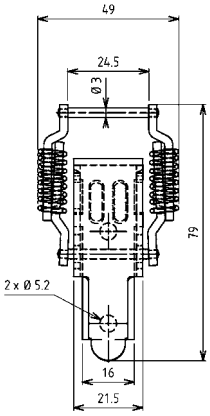
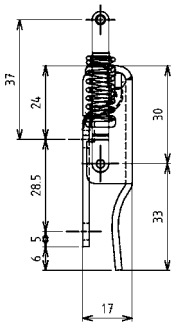


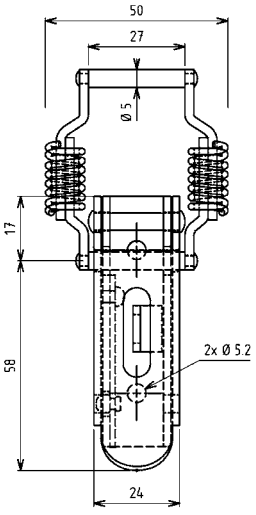



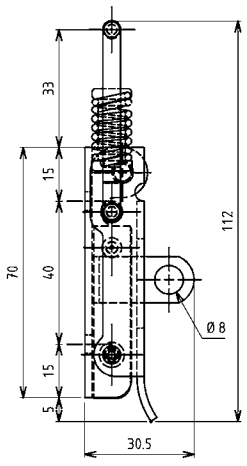
| Toggle latch | without padlock-facility | with padlock-facility |
|---|---|---|
| Raw steel drilled | 6004-U22-KA | 6004-U23-KA |
| Zinc plated steel DS plus Top Coat drilled | 6004-U22-JQ | 6004-U23-JQ |
| AISI 304 drilled | 6004-U22-PC | 6004-U23-PC |



| Toggle latch | without padlock-facility | with padlock-facility |
|---|---|---|
| Raw steel drilled | 6004-U24-KA | 6004-U25-KA |
| Zinc plated steel DS plus Top Coat drilled | 6004-U24-JQ | 6004-U25-JQ |
| AISI 304 drilled | 6004-U24-PC | 6004-U25-PC |



| Toggle latch with high opening resistance | | |
|---|---|---|
| | without padlock-facility | with padlock-facility |
| Raw steel drilled | 6004-U26-KA | 6004-U37-KA |
| Zinc plated steel DS plus Top Coat drilled | 6004-U26-JQ | 6004-U37-JQ |

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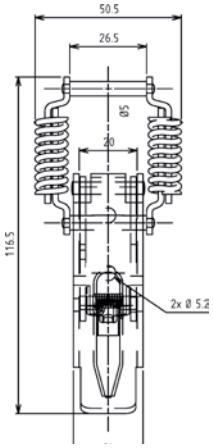
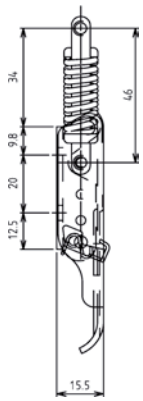
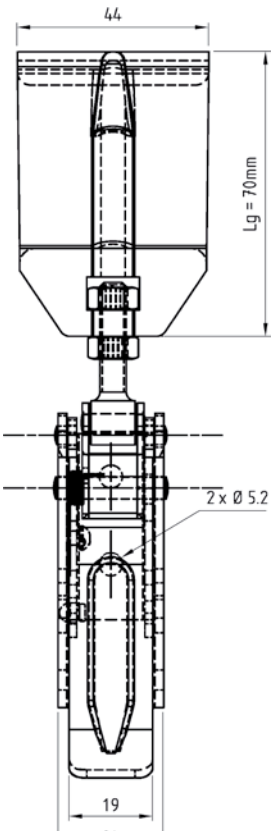
# Toggle latches with springs for tolerance compensation; adjustable toggle latches

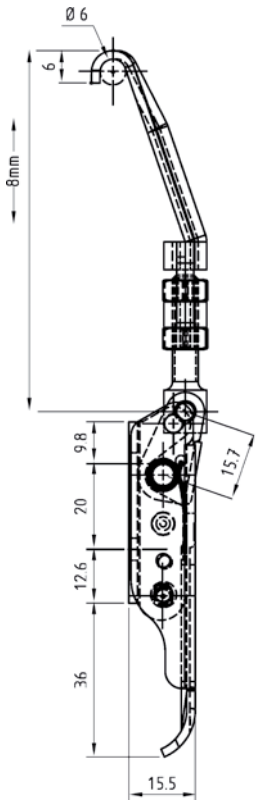
*PROGRAM 6000*




| Toggle latch | without locking latch | with locking latch |
|---|---|---|
| Zinc plated steel DS plus Top Coat drilled | 6004-U17-JQ | 6004-U517-JQ |
| AISI 304, drilled | 6004-U17-PC | 6004-U517-PC |




| Toggle latch | without locking latch | with locking latch |
|---|---|---|
| Zinc plated steel DS plus Top Coat drilled | 6008-U365-JQ | 6008-U865-JQ |
| AISI 304, drilled | 6008-U365-PC | 6008-U865-PC |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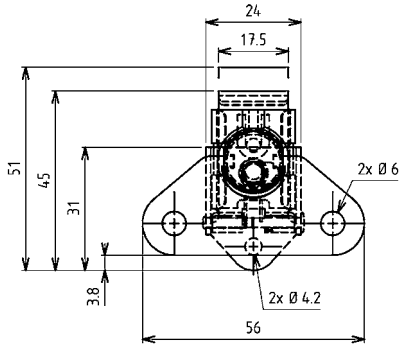
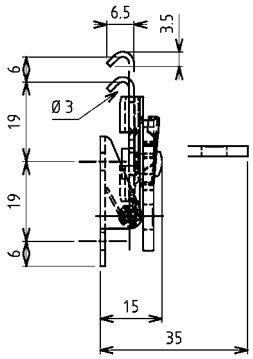
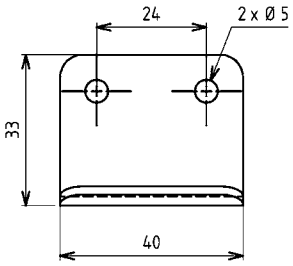
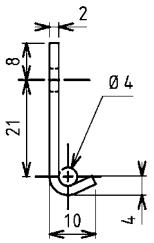


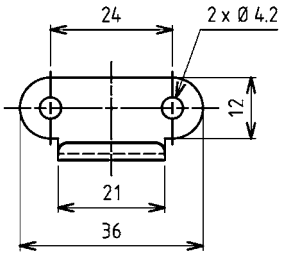



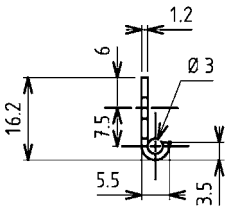
| Compression latch | |
|---|---|
| Zinc plated steel DS plus Top Coat drilled | 6006-U10-JQ |
| AISI 304, drilled | 6006-U10-PC |



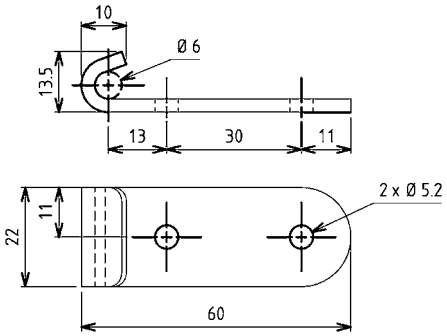



| Catch plate | |
|---|---|
| Raw steel drilled | 6010-18-KA |
| Zinc plated steel DS plus Top Coat drilled | 6010-18-JQ |
| AISI 304 drilled | 6010-18-PC |



| Catch plate | |
|---|---|
| Zinc plated steel DS plus Top Coat drilled | 6010-20-JQ |
| AISI 304, drilled | 6010-20-PC |



| Catch plate | |
|---|---|
| Raw steel, drilled | 6010-12-KA |
| Zinc plated steel DS plus Top Coat drilled | 6010-12-JQ |
| AISI 304, drilled | 6010-12-PC |

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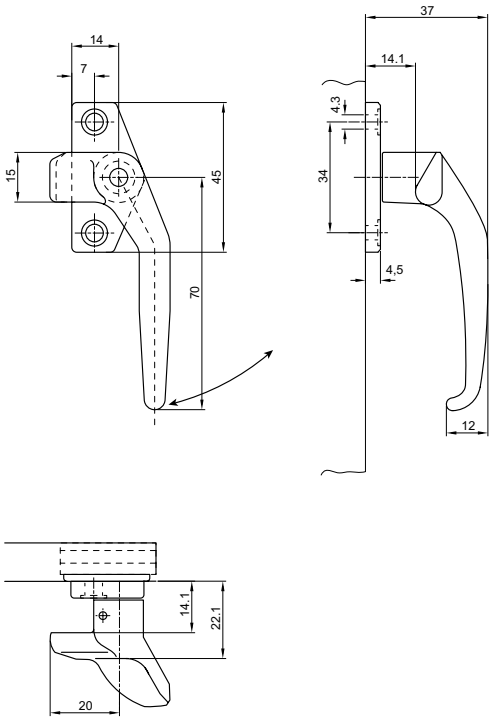
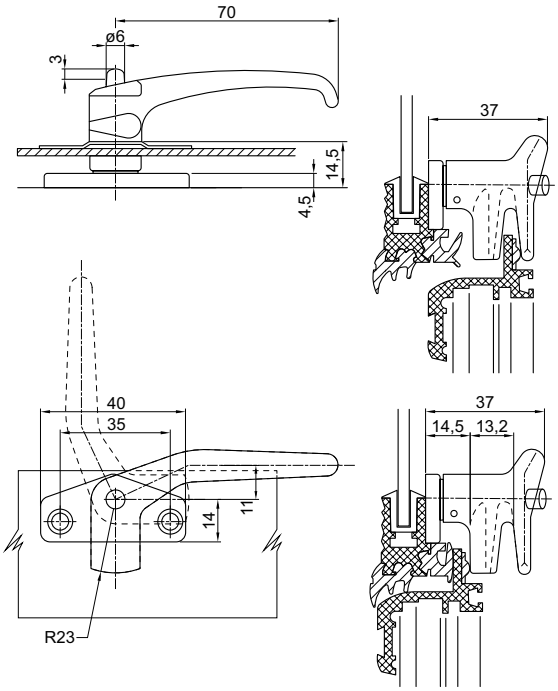
# Rotary latch
## *PROGRAM 5072*




| Rotary latch zinc die chrome plated | |
|---|---|
| | 5072-U804-IA |




| Rotary latch with vent position zinc die chrome plated | |
|---|---|
| right, as drawn | 5072-U805-IA |
| left, mirror image | 5072-U806-IA |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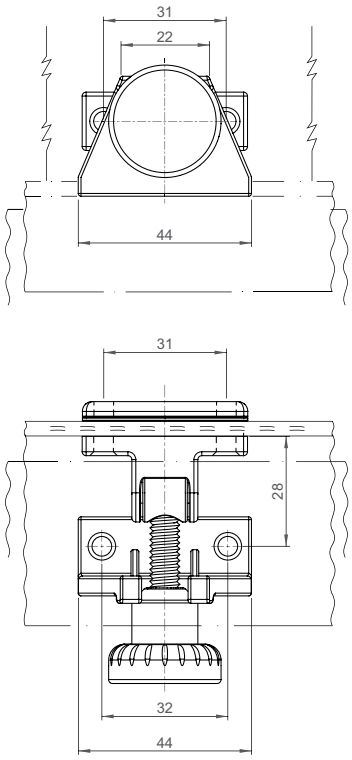
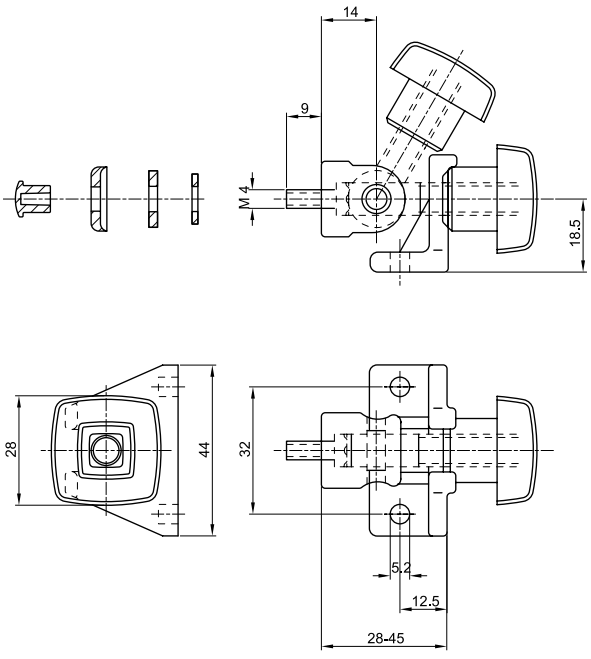
# Shaft latch

## *PROGRAM 5101*






- with bracket
- with single point fastener

| Spindle lock polyamide grey, washers plastic and aluminum; pin ms | |
|---|---|
| | 5101-U816-BD |



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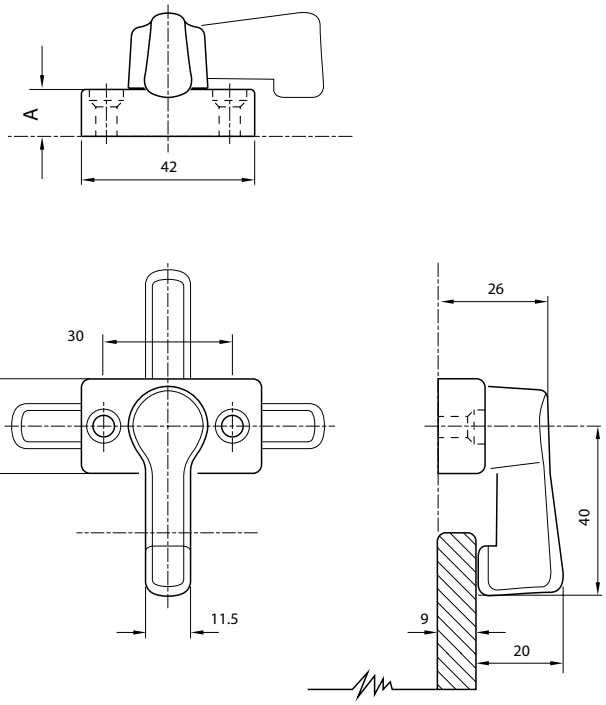
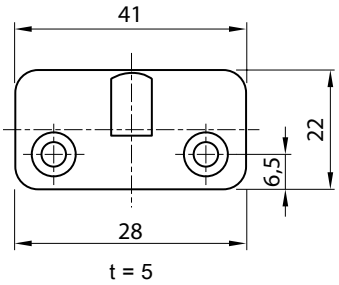
# Door lock; catch plate

*PROGRAM 5100*





| Door lock zinc die chrome plated | |
|---|---|
| A = 5 mm | 5100-U830-IA |
| A = 8 mm | 5100-U831-IA |




t = 5

- suitable for all door locks

| Catch plate polyamide colour of your choice | |
|---|---|
| cream white | 5100-4000-HA |
| grey | 5100-4000-BD |

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# Sliding window lock

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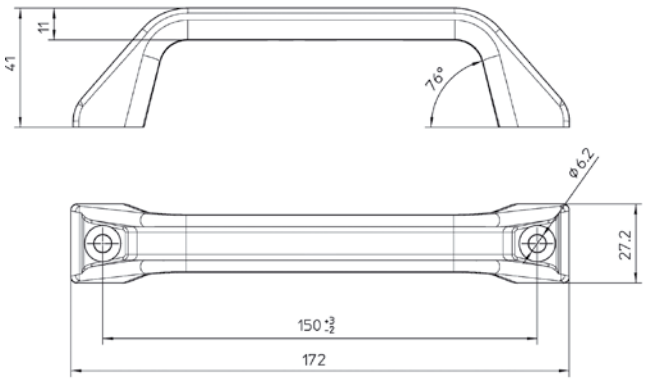
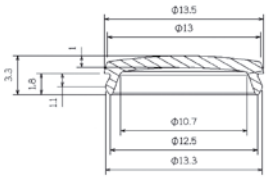
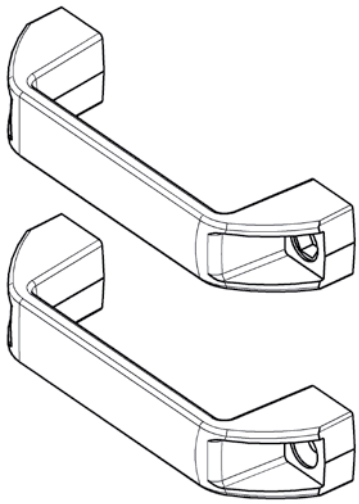
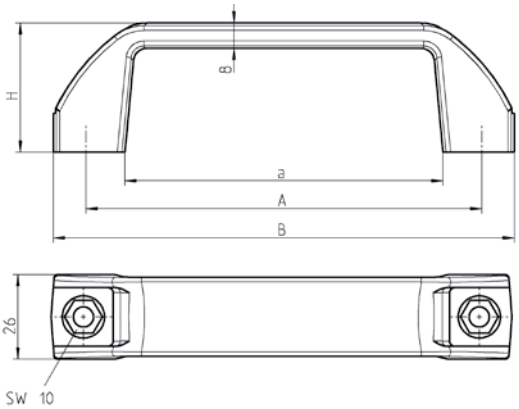
# Polyamide handle
*PROGRAM 1095*



| Handle polyamide black | |
|---|---|
| | 1095-33 |
| **Cover polyamide black** | |
| (2x per order) | 1095-34 |





Version 1: a = 98; A = 122; B = 142; H = 40
Version 2: a = 118,5; A = 152; B = 167; H = 53,5

| Handle polyamide GF black | | |
|---|---|---|
| | Version 1 | Version 2 |
| Handle for hexagon or socket head screw M6 acc. to DIN 4017/1207 | 1095-05 | 1095-19 |
| Handle for countersunk screw M5 or rivet 4.8 mm diameter | 1095-06 | – |

**small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047**

Fastening material is not included in scope.

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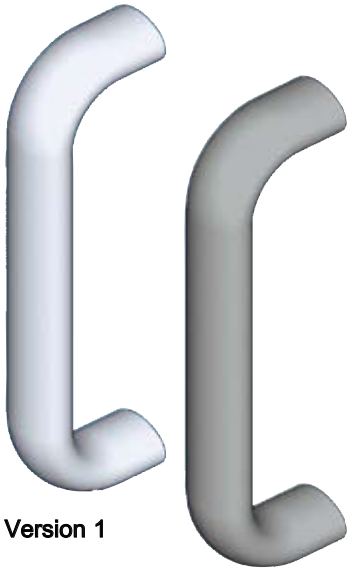
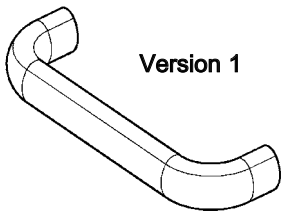
# Bow-type handles

## *PROGRAM 1095*

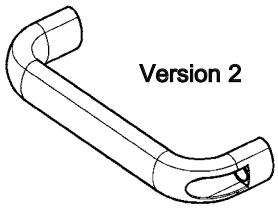
EDELSTAHL Rost frei STAINLESS STEEL



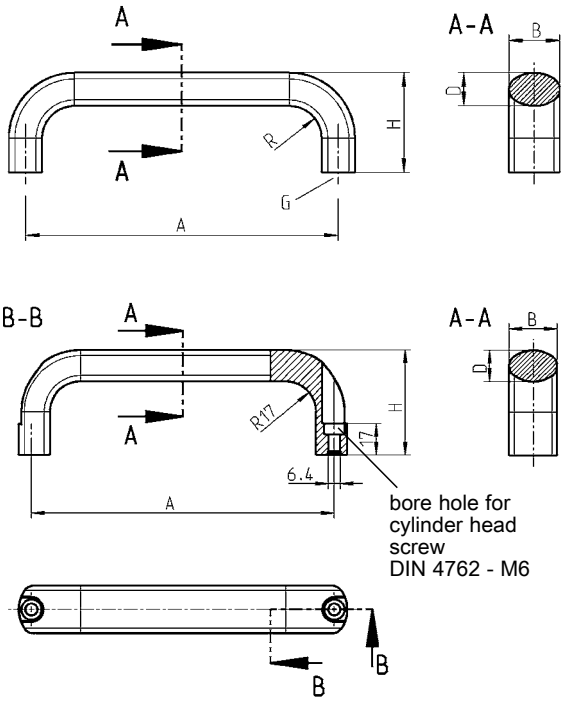
Version 1

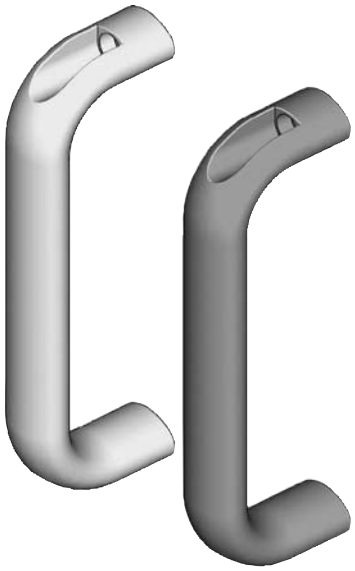


Version 1



Version 2



Version 2

| Bow-type handle, aluminium optionally raw, anodized black plastic coated or stainless steel AISI | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Version 1** | | | | | | | | |
| **A** | **B** | **D** | **G** | **H** | **R** | **raw** | **anodized** | **black** |
| 100 | 20 | 13 | M6x10 | 47 | 13 | 1095-26-100KB | 1095-26-100NA | 1095-26-100AA |
| 112 | 20 | 13 | M6x10 | 49 | 13 | 1095-26-112KB | 1095-26-112NA | 1095-26-112AA |
| 112 | 26 | 17 | M8x12 | 53 | 17 | 1095-27-112KB | 1095-27-112NA | 1095-27-112AA |
| 128 | 20 | 13 | M6x10 | 51 | 13 | 1095-26-128KB | 1095-26-128NA | 1095-26-128AA |
| 128 | 26 | 17 | M8x12 | 55 | 17 | 1095-27-128KB | 1095-27-128NA | 1095-27-128AA |
| 160 | 20 | 13 | M6x10 | 51 | 13 | 1095-26-160KB | 1095-26-160NA | 1095-26-160AA |
| 160 | 26 | 17 | M8x12 | 57 | 17 | 1095-27-160KB | 1095-27-160NA | 1095-27-160AA |
| 192 | 26 | 17 | M8x12 | 57 | 17 | 1095-26-192KB | 1095-26-192NA | 1095-26-192AA |
| 300 | 26 | 17 | M8x12 | 57 | 17 | 1095-26-300KB | 1095-26-300NA | 1095-26-300AA |
| 400 | 26 | 17 | M8x12 | 57 | 17 | 1095-26-400KB | 1095-26-400NA | 1095-26-400AA |
| 500 | 26 | 17 | M8x12 | 57 | 17 | 1095-26-500KB | 1095-26-500NA | 1095-26-500AA |
| **Version 1** | | | | | | | | |
| **A** | **B** | **D** | **G** | **H** | **R** | | | **AISI 304** |
| 112 | 20 | 13 | M6x10 | 49 | 13 | | | 1095-26-112PC |
| 128 | 20 | 13 | M6x10 | 51 | 13 | | | 1095-26-128PC |

| Bow-type handle, aluminium optionally raw, anodized, black plastic coated or stainless steel AISI | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Version 2** | | | | | | | | |
| **A** | **B** | **D** | | **H** | | **raw** | **anodized** | **black** |
| 116 | 26 | 17 | | 53 | | 1095-28-116KB | 1095-28-116NA | 1095-28-116AA |
| 132 | 26 | 17 | | 55 | | 1095-28-132KB | 1095-28-132NA | 1095-28-132AA |
| 164 | 26 | 17 | | 57 | | 1095-28-164KB | 1095-28-164NA | 1095-28-164AA |
| 196 | 26 | 17 | | 57 | | 1095-28-196KB | 1095-28-196NA | 1095-28-196AA |
| **Version 2** | | | | | | | | |
| **A** | **B** | **D** | | **H** | | | | **AISI 316** |
| 116 | 26 | 17 | | 53 | | | | 1095-28-116PH |

Fastening material is not included in scope.



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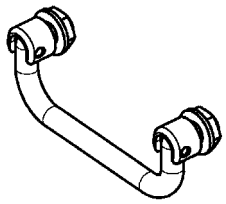
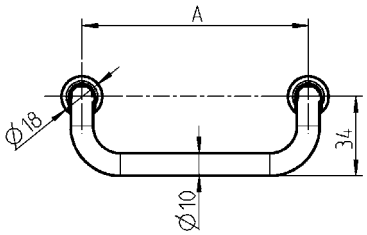
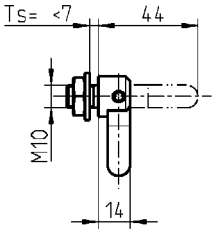
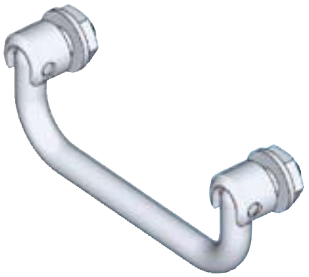
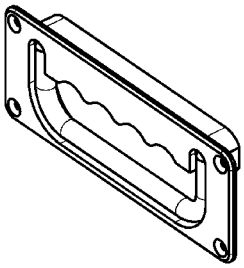
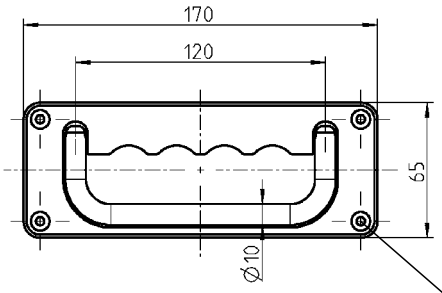


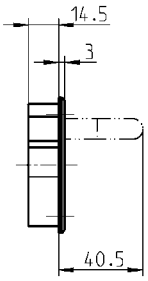


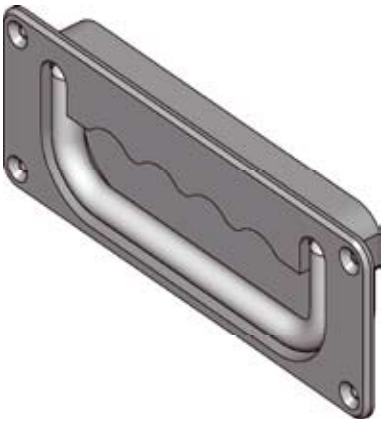



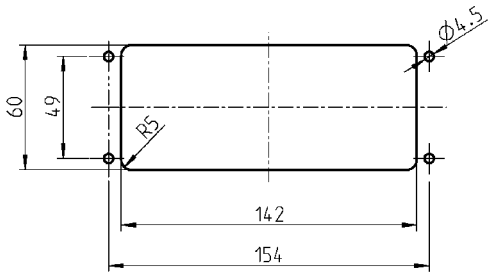





* Fixing hole for counter-sunk screw M4 DIN 7991






Cut out

* Fastening material is not included in scope.

**** = on request**
– Handle length 100 instead of 120
– with spring reset of the handle when folded in

| Chest handle m.s. chrome plated or stainl. st. AISI 303, fastening mat. AISI 303 | | |
|---|---|---|
| **A** | **m.s. chrome pl.** | **AISI 303** |
| 100 | 1095-U32-100IA | 1095-U32-100PF |
| 120 | 1095-U32-120IA | 1095-U32-120PF |
| 180 | 1095-U32-180IA | 1095-U32-180PF |
| **Recessed chest handle m.s. chrome plated, tray zinc alloy black** | | |
| with locking mechanism of the handle both when folded in and out | | 1095-U32-AA ** |

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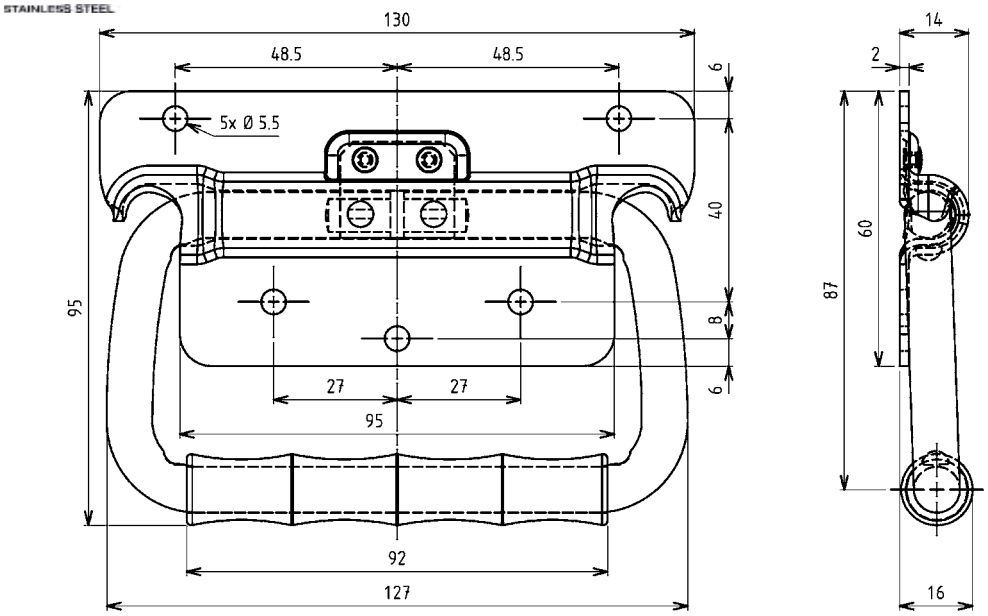
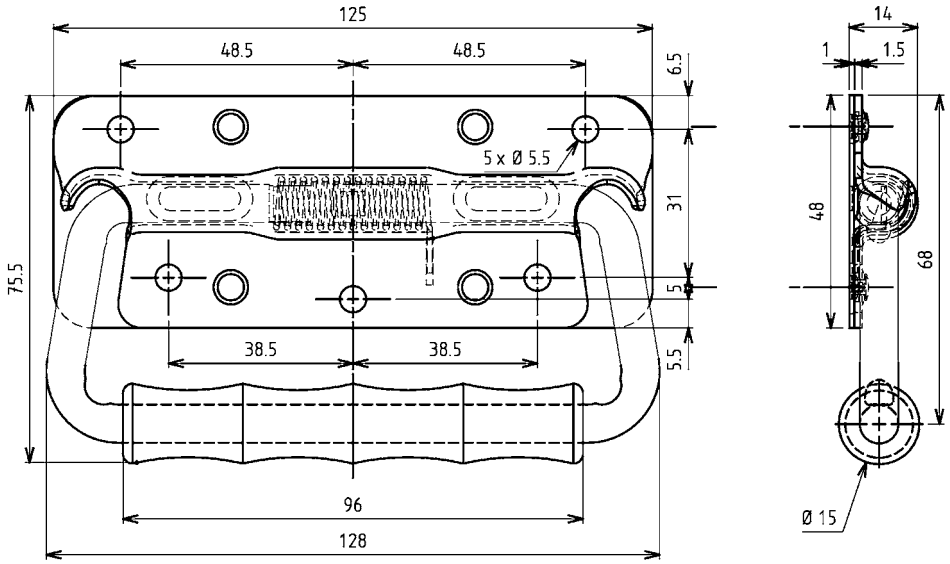



| Chest handle | | |
|---|---|---|
| | without leaf spring | with leaf spring |
| Zinc plated steel DS plus Top Coat drilled | 6040-U24-JQ | 6040-U23-JQ |
| AISI 304, drilled | 6040-U24-PC | 6040-U23-PC |

depicted with piano wire torsion spring and counter plate




| Chest handle | | |
|---|---|---|
| | without piano wire torsion spring and counter plate | with piano wire torsion spring |
| Zinc plated steel DS plus Top Coat drilled | 6040-U34-JQ | 6040-U33-JQ |
| AISI 304, drilled | 6040-U34-PC | 6040-U33-PC |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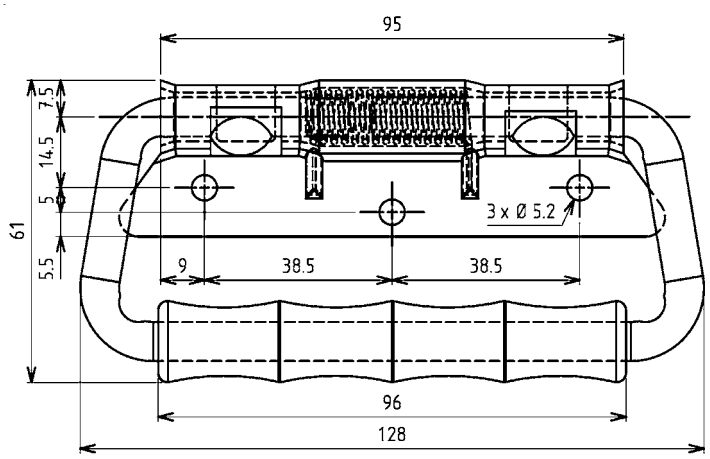
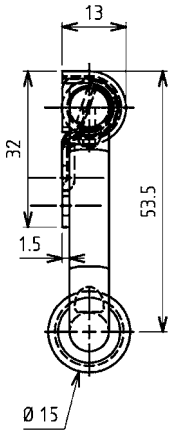
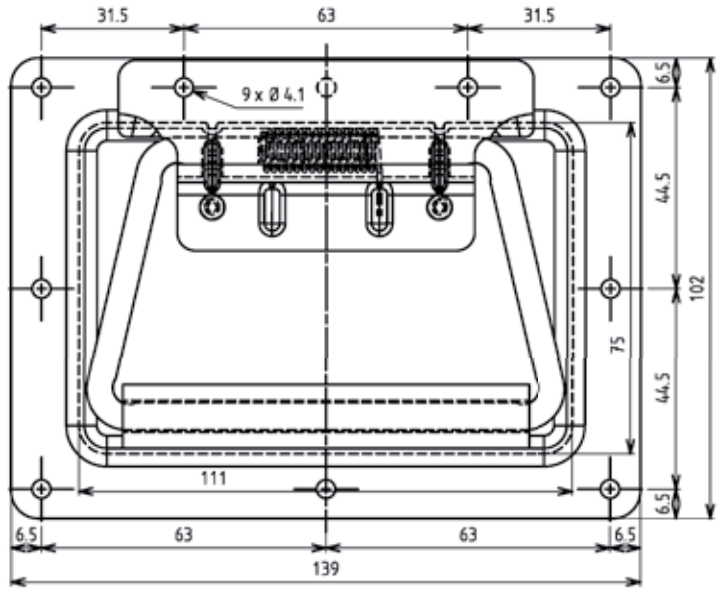
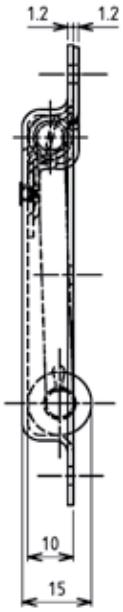


| Chest handle | |
|---|---|
| | with piano wire torsion spring |
| Zinc plated steel DS plus Top Coat drilled | 6040-U35-JQ |
| AISI 304, drilled | 6040-U35-PC |



| Recessed chest handle | |
|---|---|
| | with piano wire torsion spring |
| Zinc plated steel DS plus Top Coat, drilled | 6040-U41-JQ |
| AISI 304, drilled | 6040-U41-PC |

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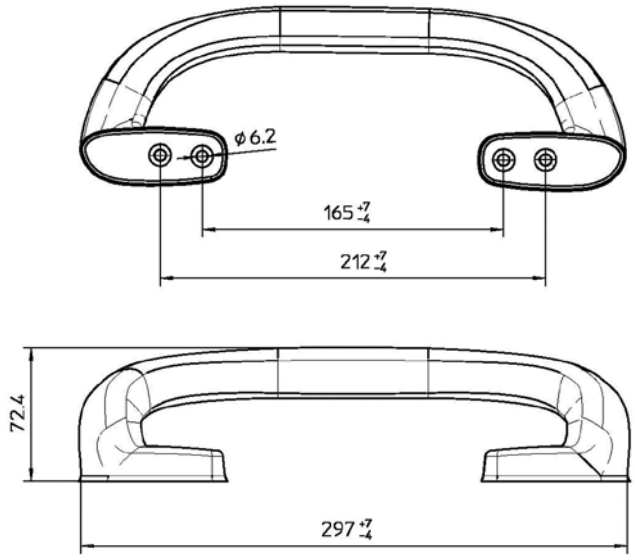
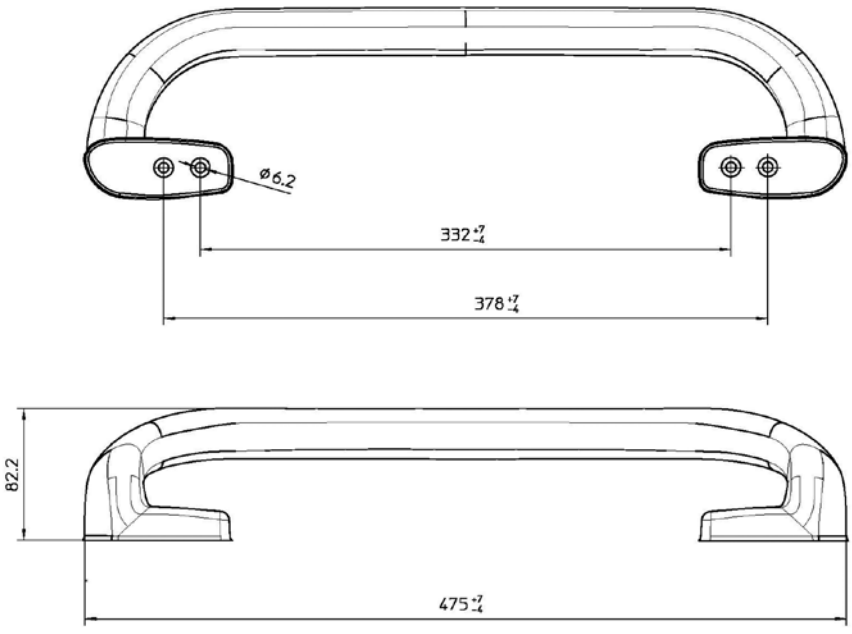
# Handle

## *PROGRAM 5225*




| Handle black polyurethane pitted, screw covers included | |
|---|---|
| | 5225-U308 |




| Handle black polyurethane pitted, screw covers included | |
|---|---|
| | 5225-U309 |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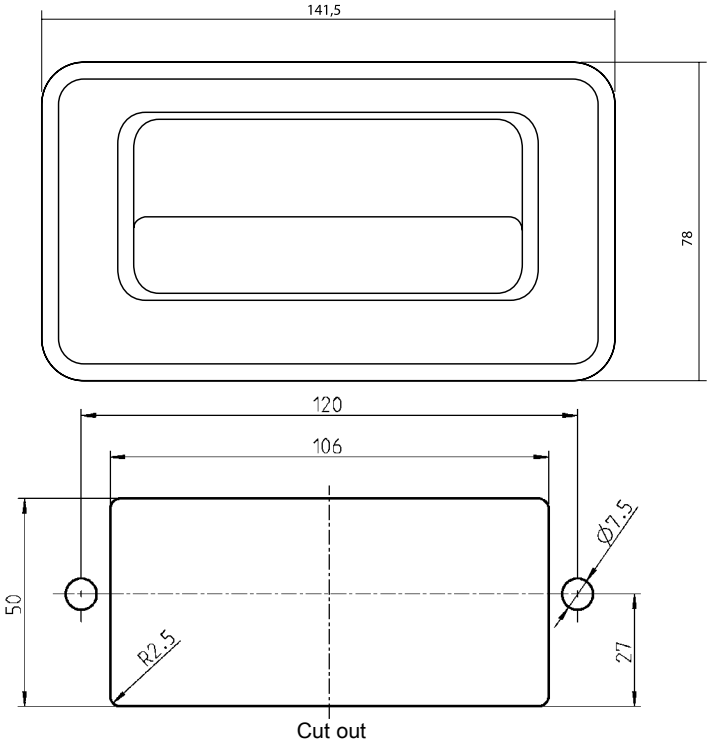
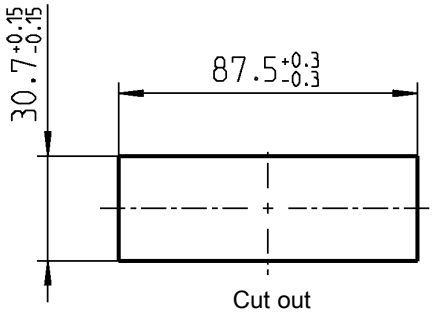
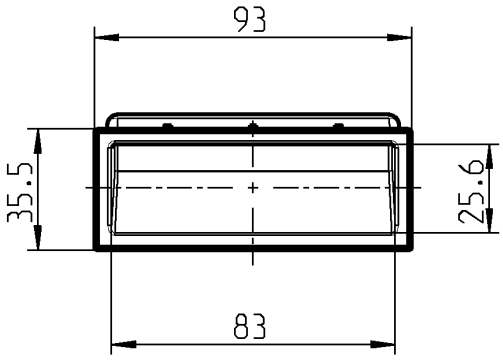
# Pull
*PROGRAM 1091*

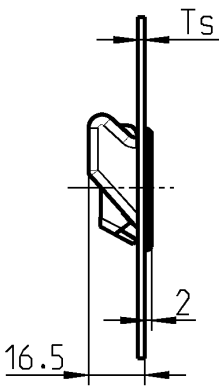




| Recessed grip polyamide black, threaded pin M5 m.s. zinc plated; with seal | |
|---|---|
| | 1091-U145 |






| Pull polyamide GF black | |
|---|---|
| Ts 0.8 - 1.2 mm | 1091-103-01 |
| Ts 1.2 - 1.6 mm | 1091-103-02 |
| Ts 1.75 - 2.2 mm | 1091-103-03 |

**Assembly:**
The pull is fitted with clips that automatically snap in behind the door part.

**On request:**
– Recessed grip for further door thicknesses

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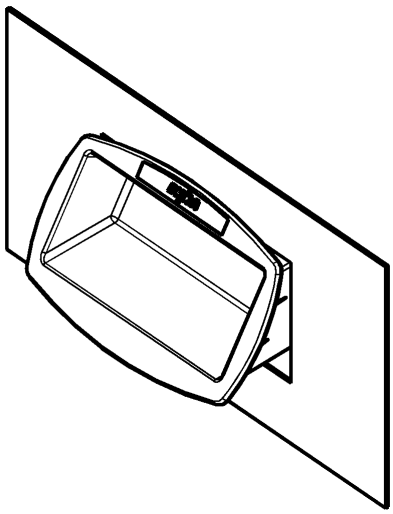
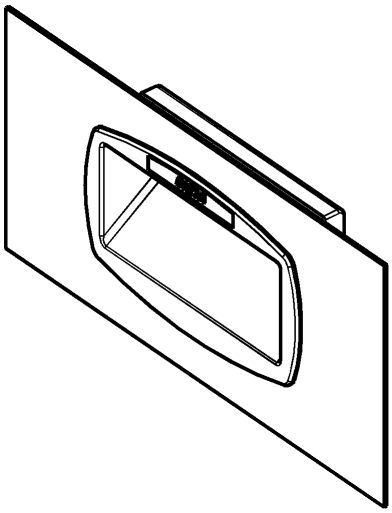
# Pull

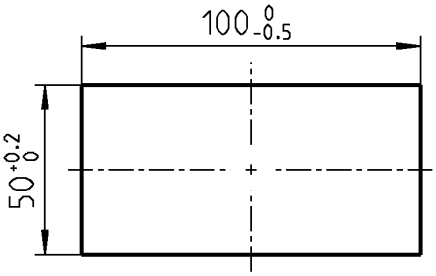
## *PROGRAM 1091*

Press pull into cut out

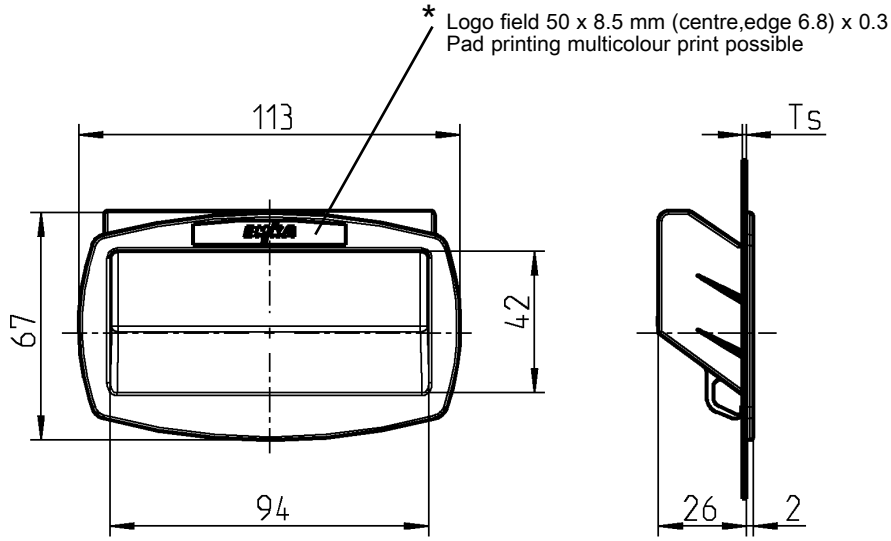


Ready for use






Cut out




| Pull polyamide GF black | |
|---|---|
| Ts 0.80 - 1.2 mm | 1091-93 |
| Ts 1.20 - 1.6 mm | 1091-91 |
| Ts 1.75 - 2.2 mm | 1091-92 |

**Assembly:**
The pull is fitted with clips that automatically snap in behind the door part.



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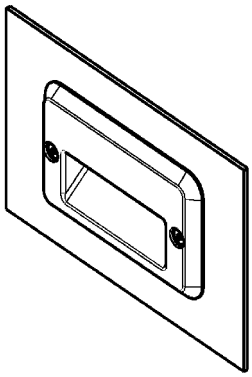
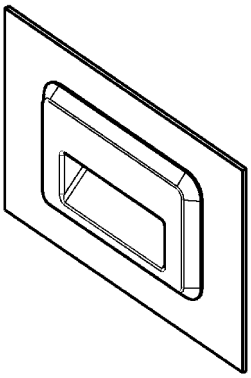
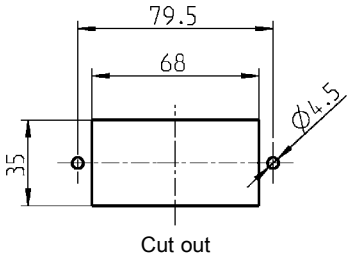
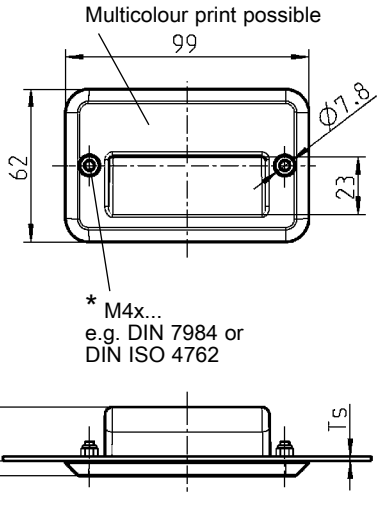




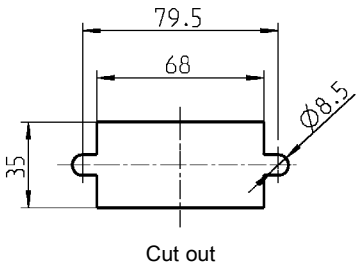
**Version A**

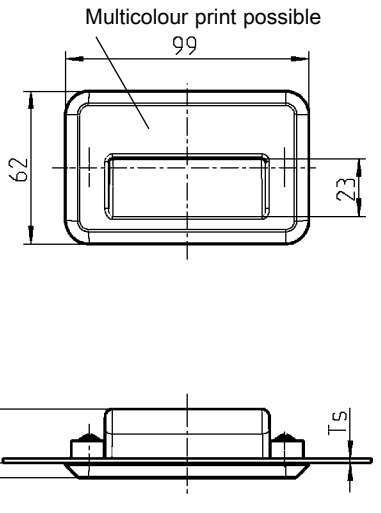



**Version A**

**Version B**




**Version B**

| | | | |
|---|---|---|---|
| **Pull polyamide GF black, with seal version B clip polyamide GF black, fixing material m.s. zinc pl.** | | | |
| Version A | IP 54 | Ts 0.8 - 7 | 1091-105 |
| Version B | IP 65 | Ts 0,8 - 3 ** | 1091-U144 |
| **Plug polyethylene black for version A** | | | |
| (2 plugs are needed per pull) | | | 1091-106 |

* not included

****On request:**
– Pulls for further door thicknesses

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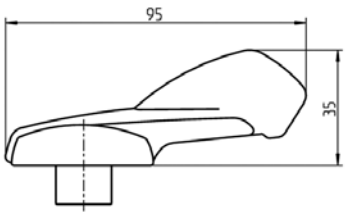
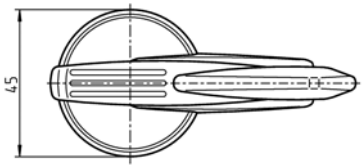
# Interior handle, interior release

*PROGRAM 5225*

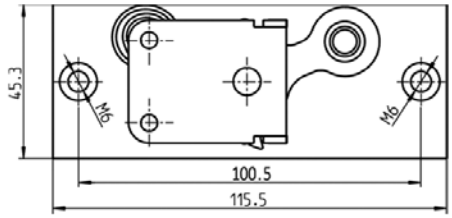


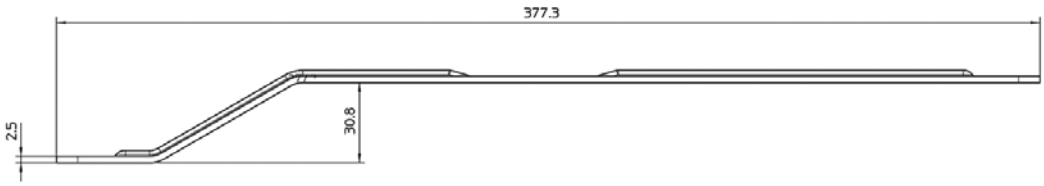




**Further parts see page**
– Interior release see below 1.11-130

| Interior handle zinc chrome plated, black PVC grip | |
|---|---|
| | 5225-U5-IK |

LH version




**Further parts see page**
– Inside handle see above

| Interior release zinc plated steel connecting rod, with spring | |
|---|---|
| Right, mirror image | 5225-U6 |
| Left, as shown | 5225-U7 |



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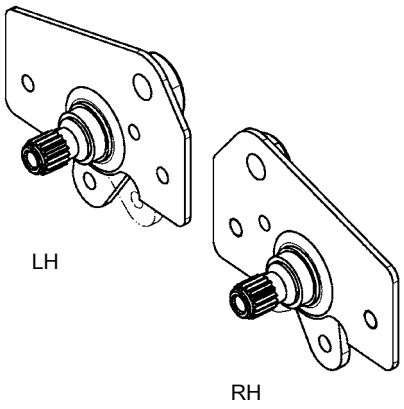
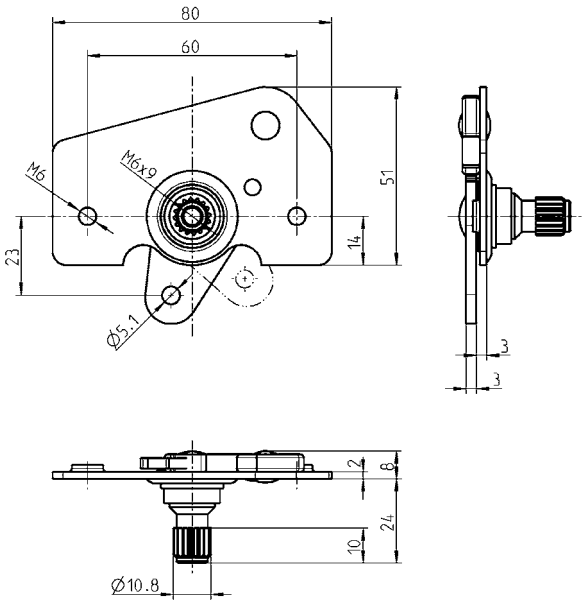
# Interior release; lock interior handle

*PROGRAM 1107, 5115*

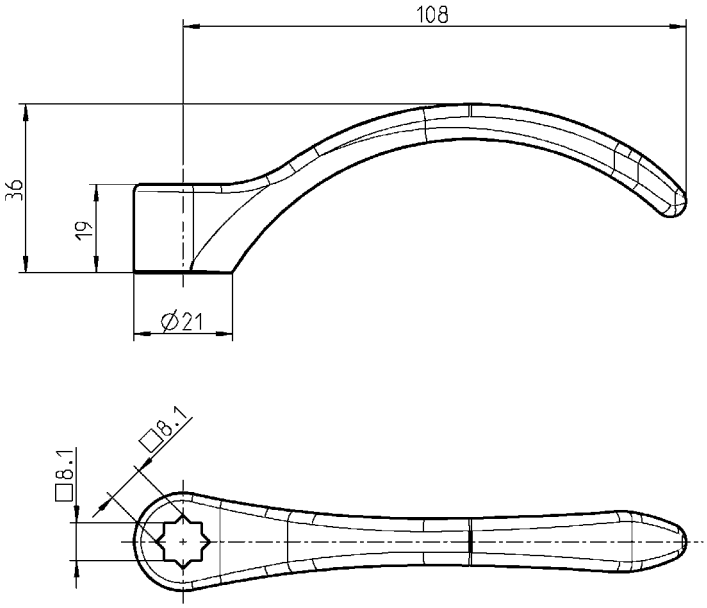


- 110 gr./pc.

| Internal control ms zinc plated, with spring | |
|---|---|
| Right, mirror image | 5115-SU5-01 |
| Left, as shown | 5115-SU5 |

**Further parts see page**
– Inside handle 1.11-120



- with 8 mm square hole offset by 45 ° and nut M8
- Handle length 115 mm
- 110 gr./pc.

| Lock inside handle zinc die chrome, dome nut M8 St chrome | |
|---|---|
| | 1107-SU439 |

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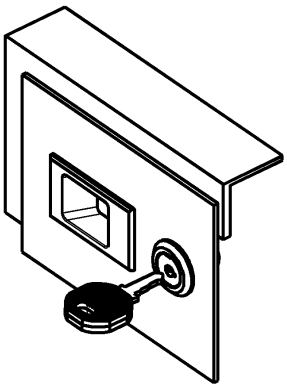
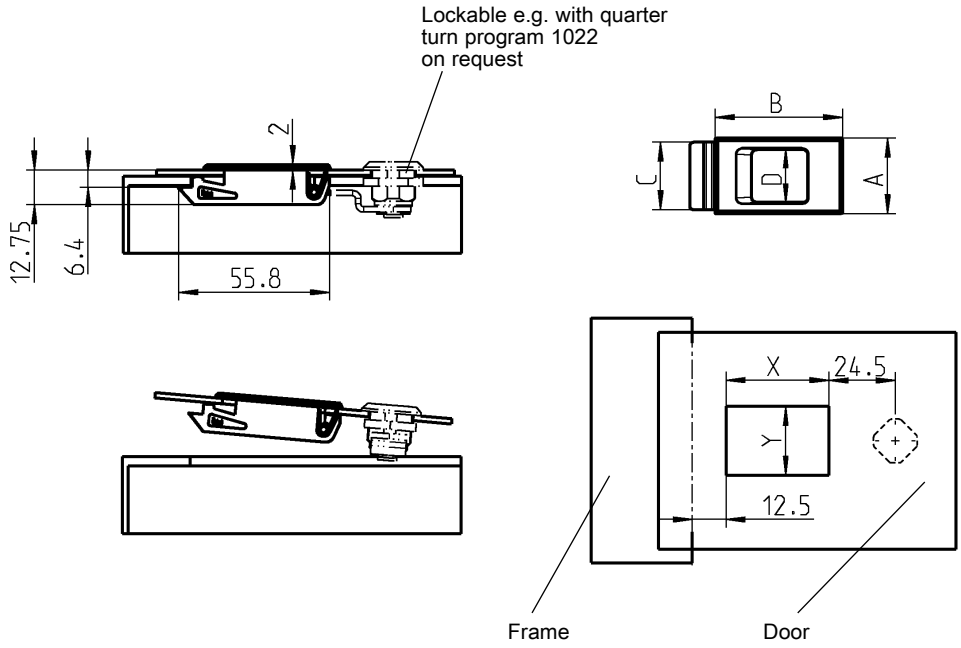
# Slide latch, snap-in installation

*PROGRAM 1091*






| Slide latch polyamide black with spring m.s. zinc plated | | | | | | | |
|---|---|---|---|---|---|---|---|
| Size | | Ts = 1.2 – 1.6 | | | Ts = 1.75 – 2.2 | | |
| 1 | | 1091-U114-01 | | | 1091-U114 | | |
| 2 | | 1091-U115-01 | | | 1091-U115 | | |
| 3 | | on request | | | 1091-U116 | | |
| Measure-ment | A | B | C | D | Door cut out | X | Y |
| 1 | 28 | 47 | 25 | 20 | 1 | 38 | 25,5 |
| 2 | 47 | 47 | 44 | 39,5 | 2 | 38 | 44,5 |
| 3 | 86 | 47 | 83 | 78,5 | 3 | 38 | 83,5 |

Suitable for door gauges of 1.2 up to 2.2 mm

**Further parts see page**
– Quarter turns on request



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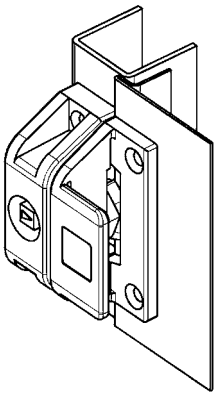
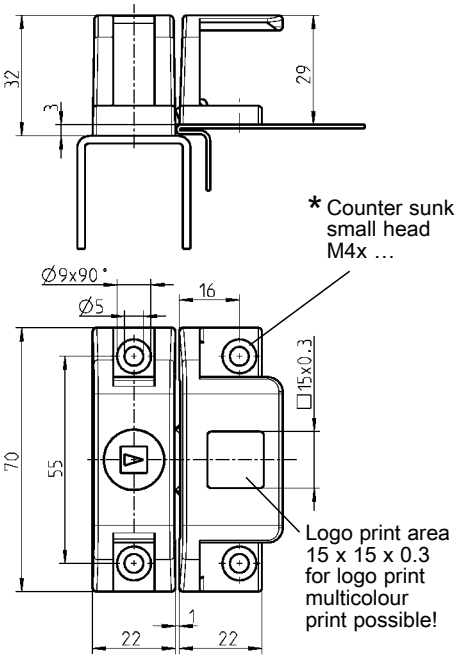
## Cam lock





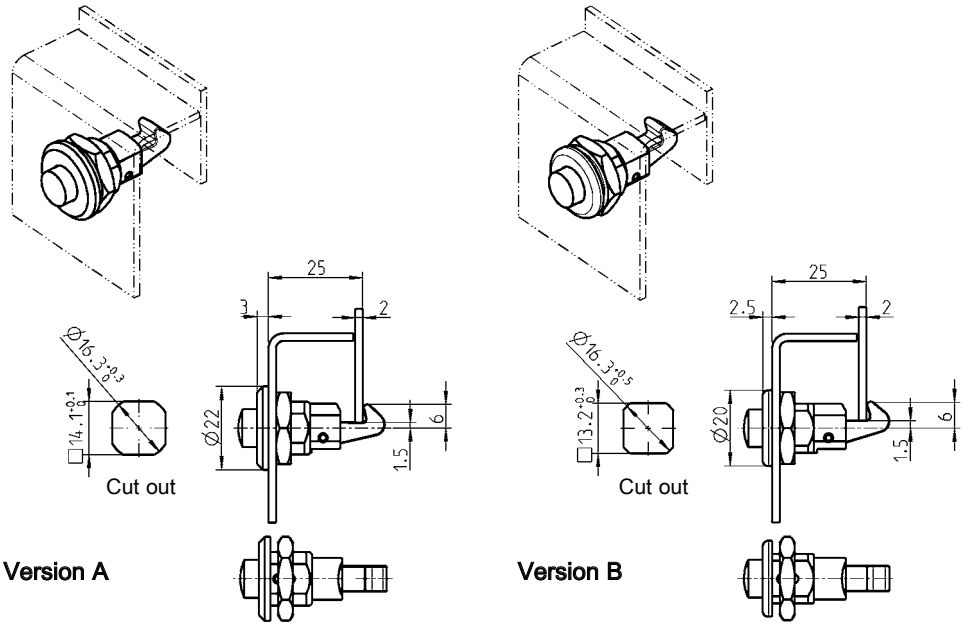
| Cam lock polyamide black, insert zinc die chrome pl. cam, screw and wave washer m.s. zinc pl. | | | |
|---|---|---|---|
| Square 7 | 1076-U5 | Double bit 3 | 1076-U9 |
| Square 8 | 1076-U6 | Double bit 5 | 1076-U10 |
| Triangular 7 | 1076-U7 | Hexagon female 10mm | 1076-U11 |
| Triangular 8 | 1076-U8 | Slot 2 x 4 | 1076-U12 |

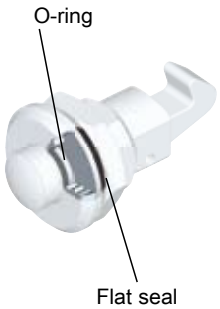
small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

* not included

Further parts see page
– Key 5.1-120

## Snap lock
with and without seal






| Snap lock zinc die chrome plated, without or with seal | | | |
|---|---|---|---|
| **Version A** | | **Version B** | |
| without seal | 1047-U3 | without seal | 1047-U2 |
| with seal IP 65 | 1047-U5 | with seal IP 65 | 1047-U4 |

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# Locking
## e.g. for horse trailers (tack room)

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# Locking
# e.g. for horse trailers (tailgate)

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# Examples of customer solutions

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# Chapter 2:
# Hinges

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# Content


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2.3 Torque hinges 145

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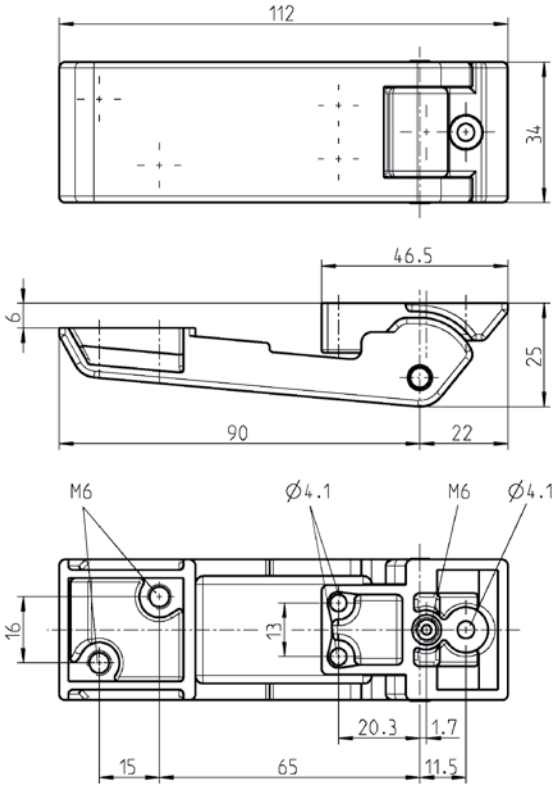
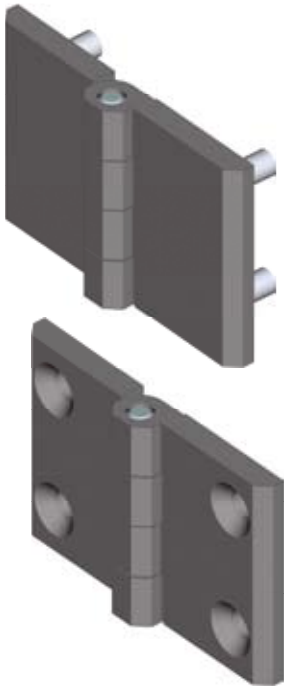
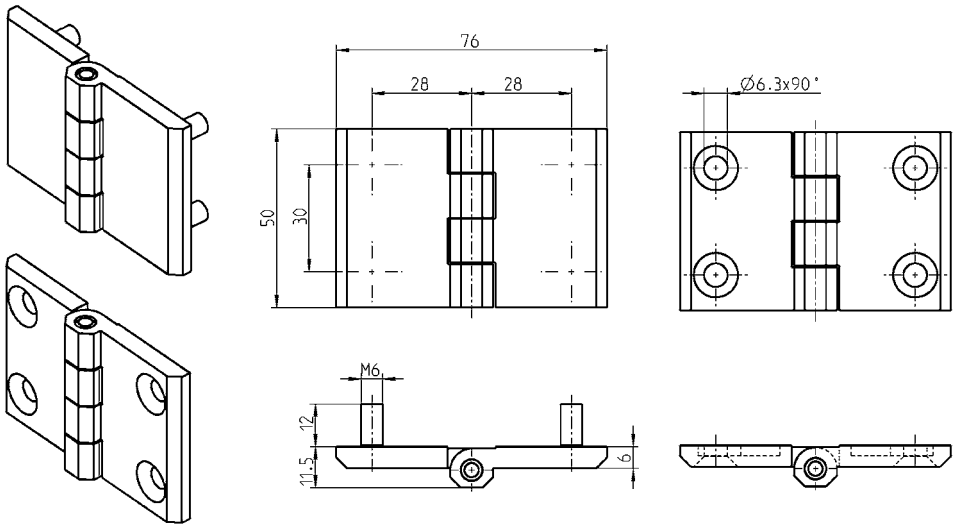



| Hinge zinc die white aluminium powder coated, RAL 9006; hinge pin m.s. zinc plated | |
|---|---|
| | 3060-U380-BK |



EDELSTAHL Rostfrei STAINLESS STEEL

**270° screw-on hinge**




| Screw-on hinge zinc die or stainl. steel, threaded studs M6 stainl. steel | | | |
|---|---|---|---|
| | Pin | threaded stud M6 | for countersunk screw M6 (2D-nut possible) |
| zinc die chrome pl. | stainless steel | 1056-U15 | 1056-U17 |
| zinc die black p.c. | stainless steel | 1056-U16 | 1056-U18 |
| AISI 316 | stainless steel | – | 1056-U17-PH |



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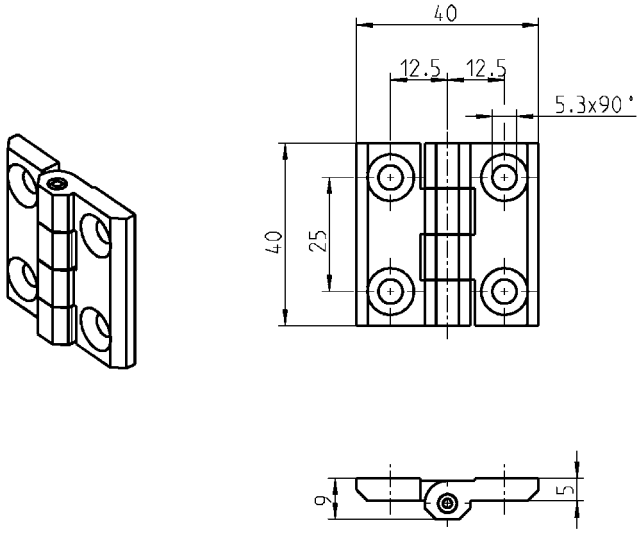
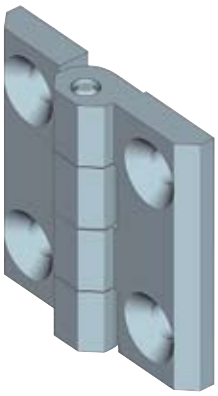
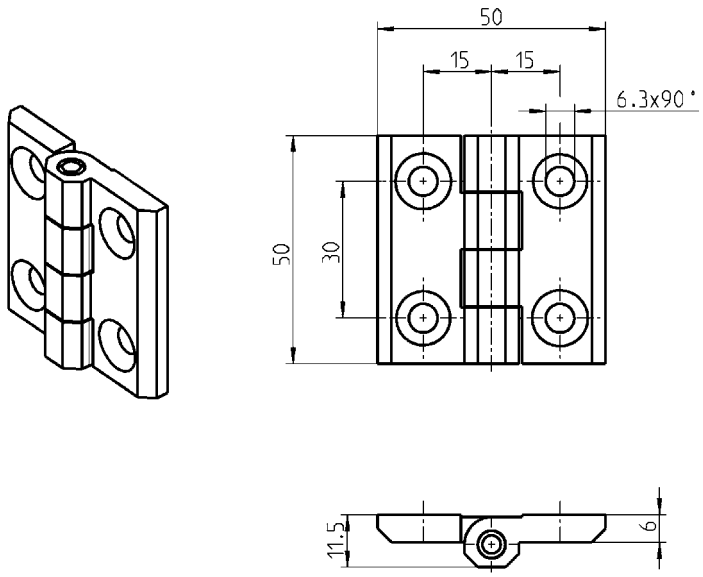
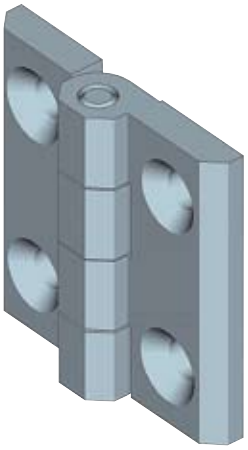




| Screw-on hinge AISI 316 for countersunk screw M5 | |
|---|---|
| | 1056-U5-PH |



| Screw-on hinge AISI 316 for countersunk screw M6 | |
|---|---|
| | 1056-U9-PH |

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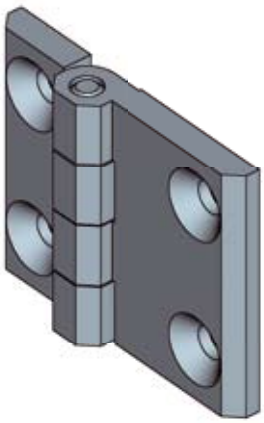
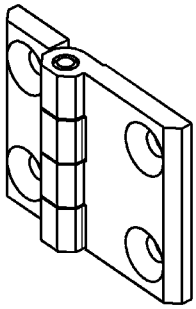
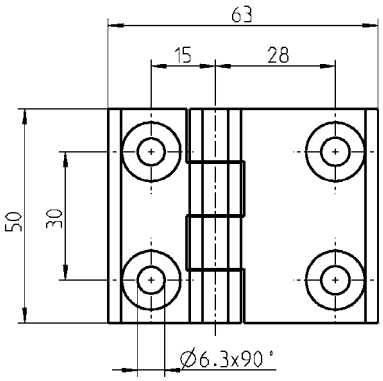
# 180° stainless steel screw-on hinge

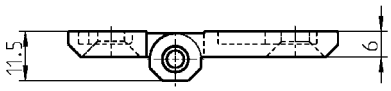
*PROGRAM 1056*



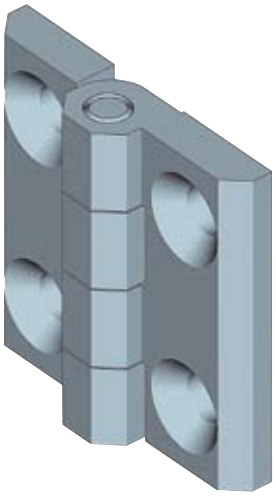


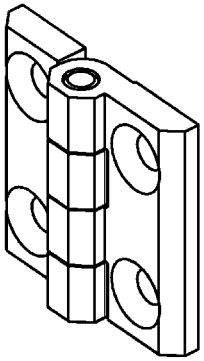


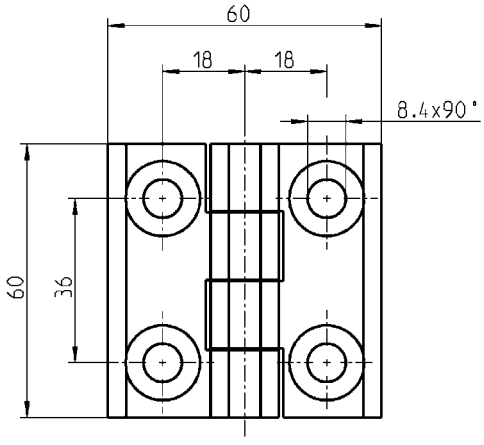


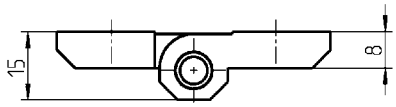




| Screw-on hinge AISI 316, hinge pin stainless steel, for countersunk screw M6 | |
|---|---|
| | 1056-U59-PH |








| Screw-on hinge AISI 316 for countersunk screw M8 | |
|---|---|
| | 1056-U13-PH |



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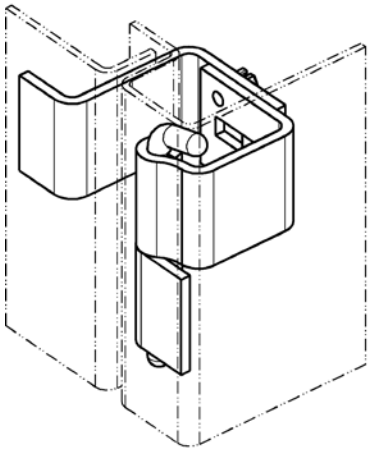
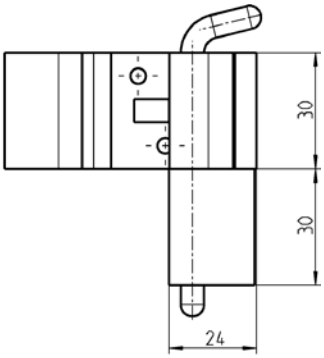
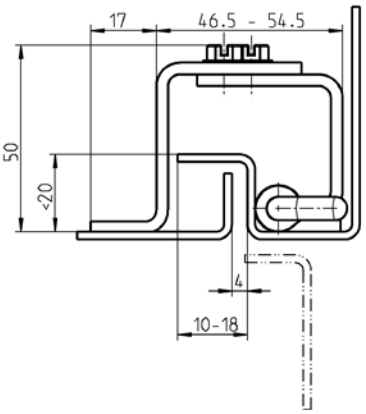
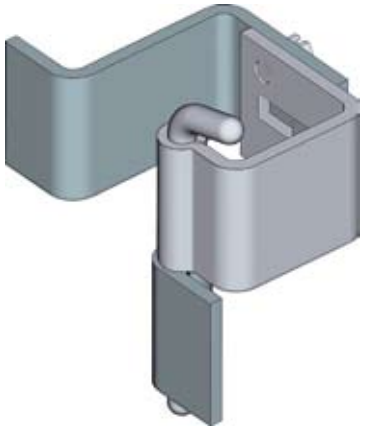
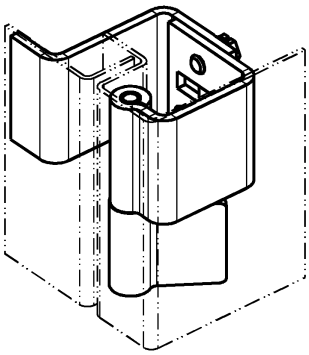


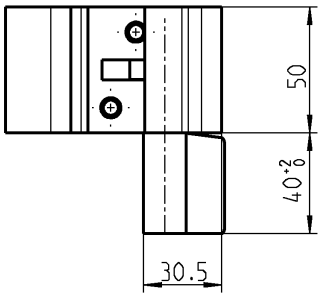


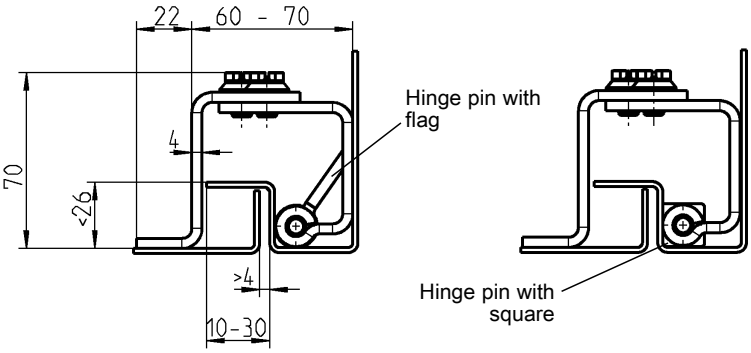



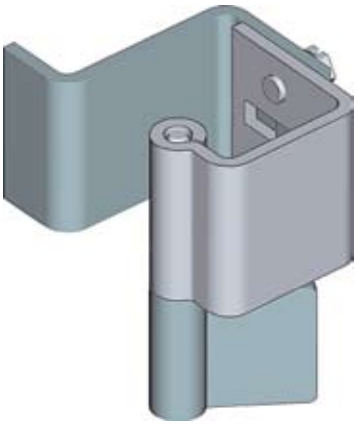



| Concealed hinge | |
|---|---|
| m.s. zinc pl., weld-on part m. s. raw | 1006-U1 |
| AISI 304 and AISI 303 | 1006-U1-PC |





| Concealed hinge m.s. zinc pl., weld-on parts m.s. raw | |
|---|---|
| Hinge pin with flag | 1007-U2 |
| Hinge pin with square (17x50) | 1007-U1 |

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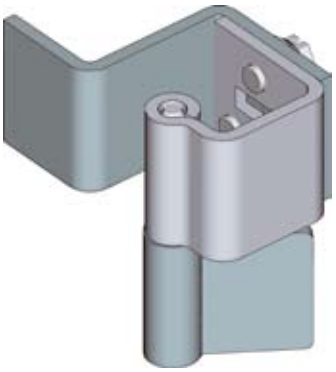
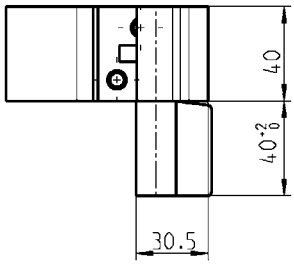
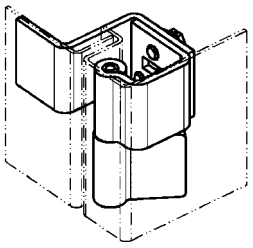
# 90° concealed hinge

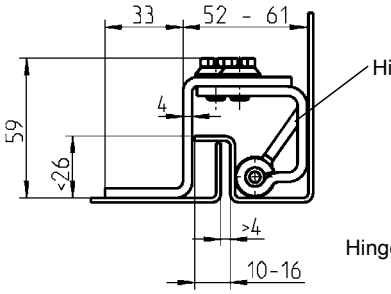
*PROGRAM 1046*

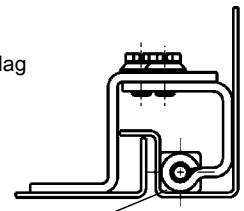




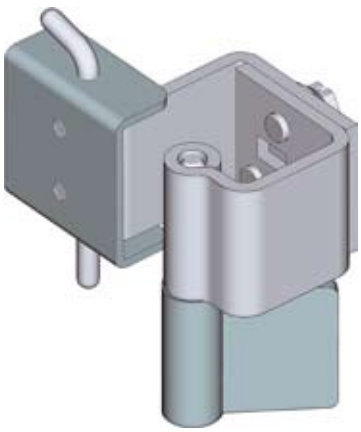


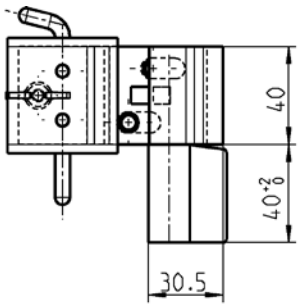



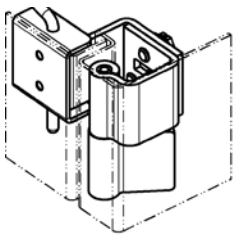


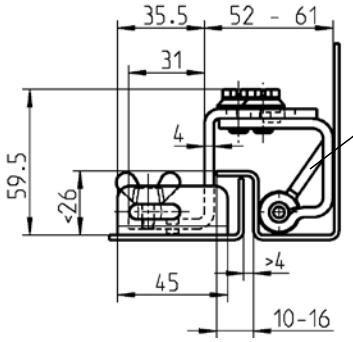



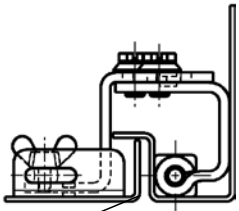

| Concealed hinge m.s. zinc pl., weld-on parts m.s. raw or AISI 304 and AISI 303 | | |
|---|---|---|
| | m.s. | AISI 304 |
| Hinge pin with flag | 1046-U1 | 1046-U5 |
| Hinge pin with square (17x50) | 1046-U3 | – |








| Concealed hinge m.s. zinc pl., weld-on parts m.s. raw | |
|---|---|
| Hinge pin with flag | 1046-U2 |
| Hinge pin with square (17x50) | 1046-U4 |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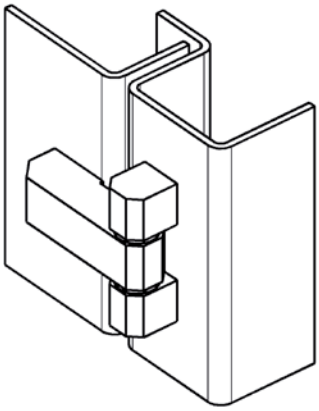
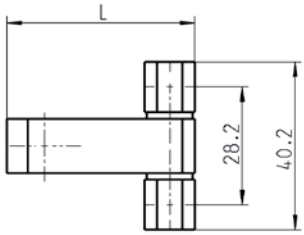
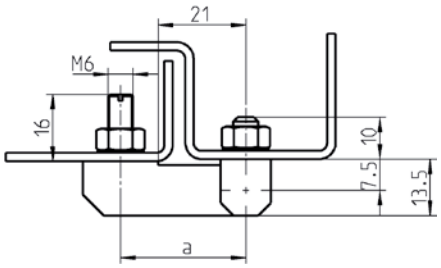
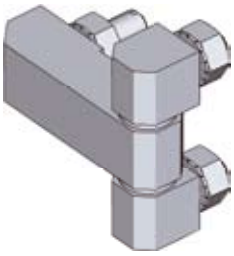
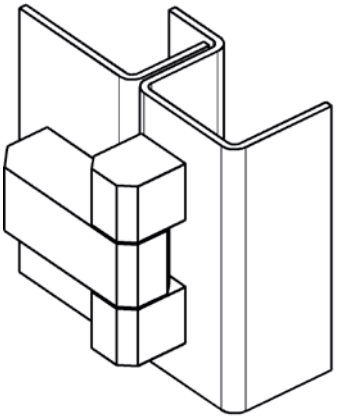


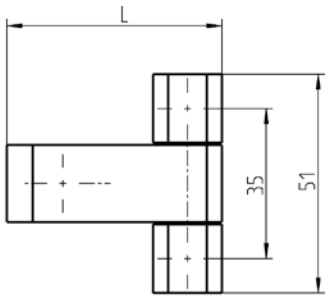


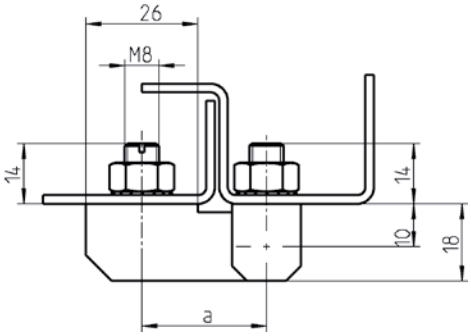



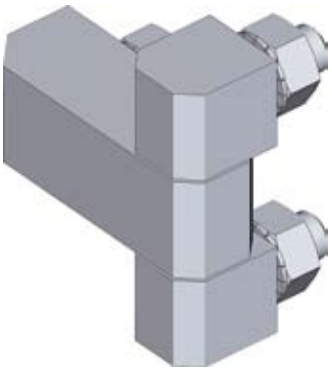



| Screw-on hinge m.s. zinc pl., pin and washers brass nickel pl. or completely stainl. steel | | | | |
|---|---|---|---|---|
| **L** | **A** | **m.s.** | **AISI 303** | **AISI 316** |
| 45 | 30 | 1055-U3 | 1055-U7 | 1055-U9 |
| 53 | 38 | 1055-U4 | – | – |





| Screw-on hinge m.s. zinc pl., pin and washers brass nickel pl. or completely stainl. steel | | | | |
|---|---|---|---|---|
| **L** | **A** | **m.s.** | **AISI 303** | **AISI 316** |
| 50 | 29 | 1039-U10 | 1039-U18 | 1039-U25 |
| 61 | 40 | 1039-U11 | – | – |

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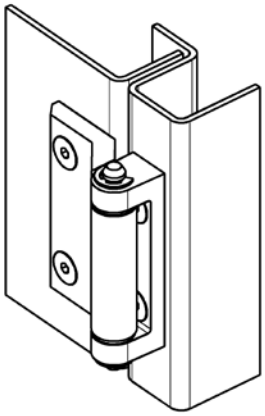
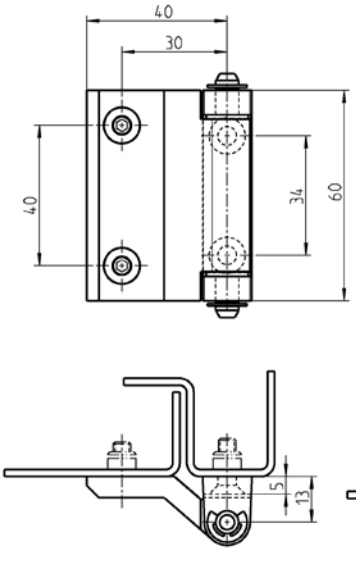
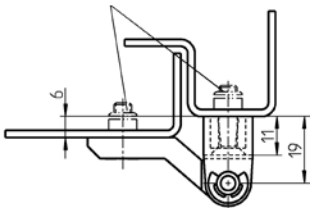
# 180° screw-on hinge

*PROGRAM 1054*

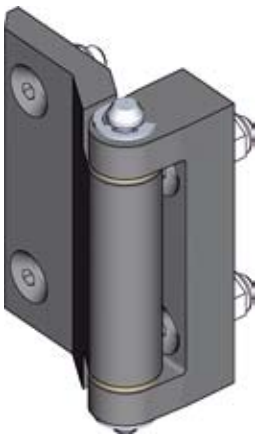


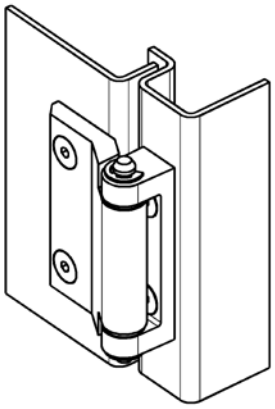


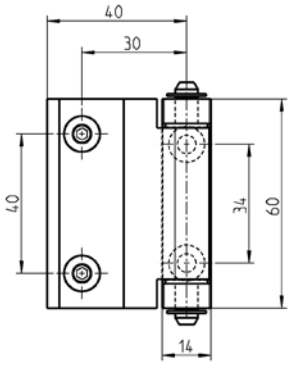

* Countersunk screw small head M5x…



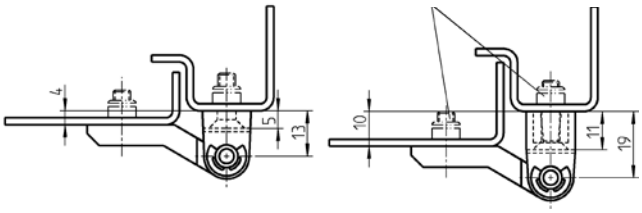

| Screw-on hinge zinc die, pin and washer m.s. zinc pl. and bushes polyamide | | |
|---|---|---|
| | **straight** | **6 mm higher** |
| chrome plated | 1054-U4 | 1054-U27 |
| black powder coated | 1054-U5 | 1054-U28 |
| raw | 1054-U22** | 1054-U29** |
| ** = Minimum order quantity 1000 pcs. | | |
| **Screw-on hinge AISI 316 and bushes polyamide** | | |
| | 1054-U5-PH | - |








* Countersunk screw small head M5x…




| Screw-on hinge zinc die, pin and washer m.s. zinc pl. and bushes polyamide | | |
|---|---|---|
| | **4 mm higher** | **10 mm higher** |
| chrome plated | 1054-U7 | 1054-U19 |
| black powder coated | 1054-U10 | 1054-U20 |
| raw | 1054-U18** | 1054-U21** |
| ** = Minimum order quantity 1000 pcs. | | |

* not included

**small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047**



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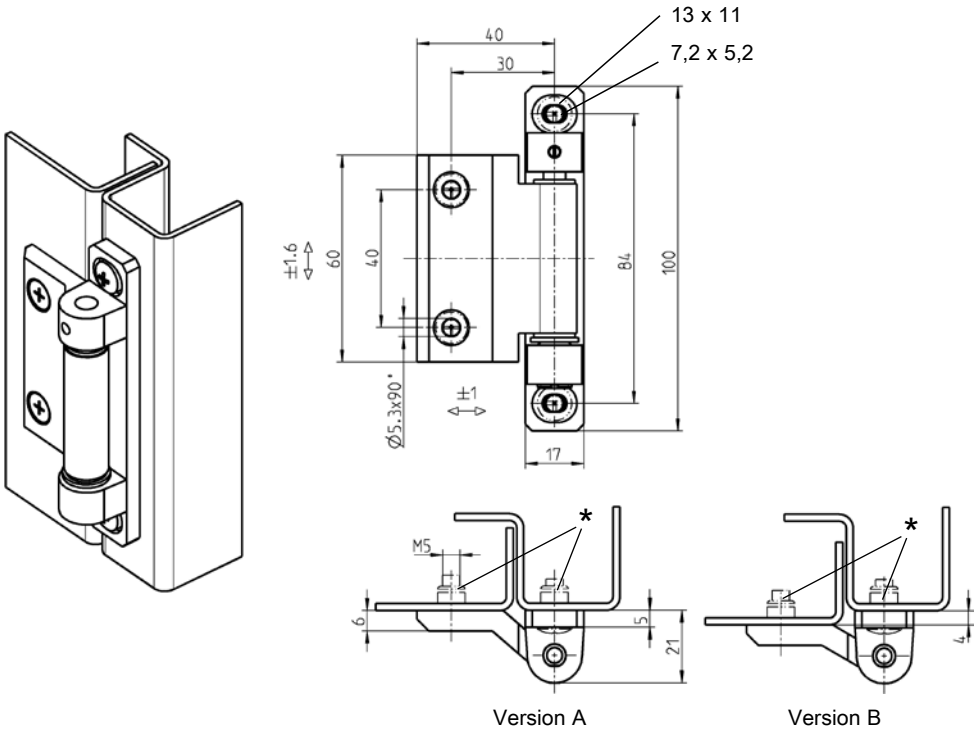
# 180° 2D-screw-on hinge
*PROGRAM 1054*

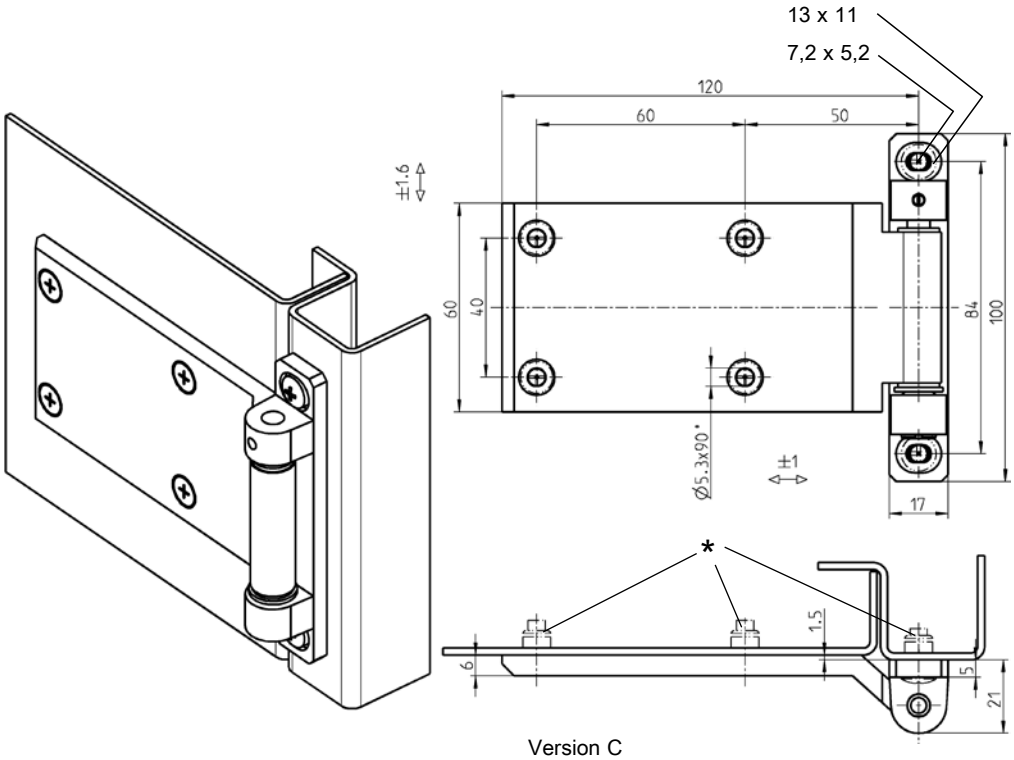


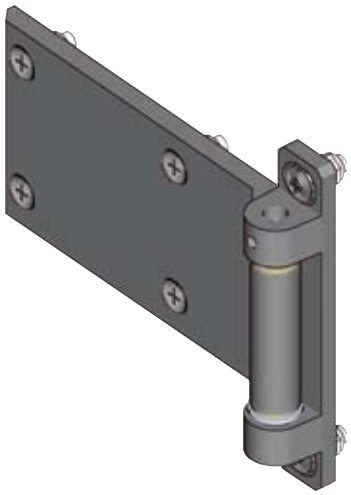
Hinges

Version for RH use respectively version for LH use is created by turning the hinge pin with flag.

Hinge pin is self-gripping

**Counterbores for small head countersunk screw M5x**



| 2D-screw-on hinge zinc die, axle brass nickel pl., washer m.s. zinc pl. and bush polyamide | | | |
|---|---|---|---|
| | **Version A** | **Version B** | **Version C** |
| black powder coated | 1054-U33-01 | 1054-U34-01 | 1054-U35-01 |
| raw | 1054-U33-02 | 1054-U34-02 | 1054-U35-02 |

* not included

**small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047**

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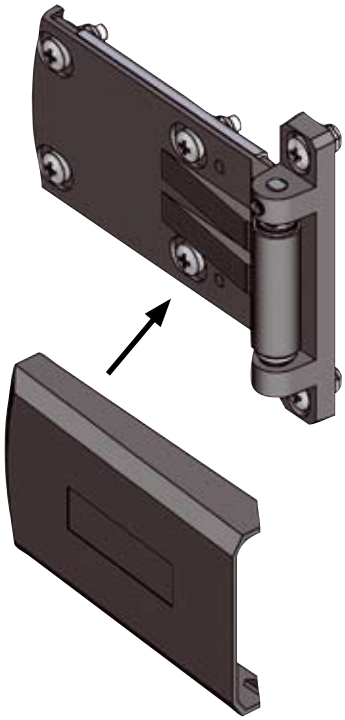
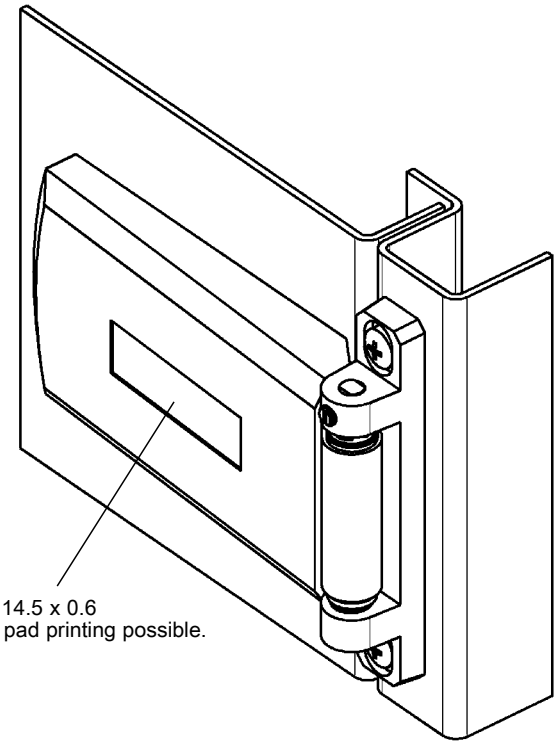
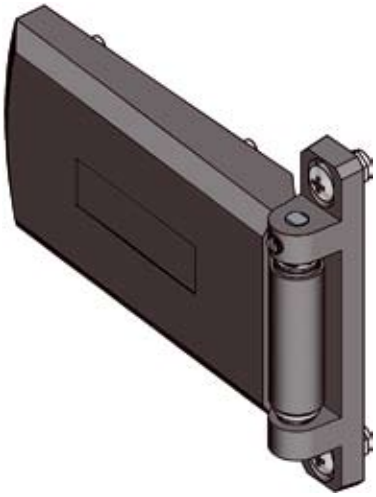
# 180° 3D-screw-on hinge

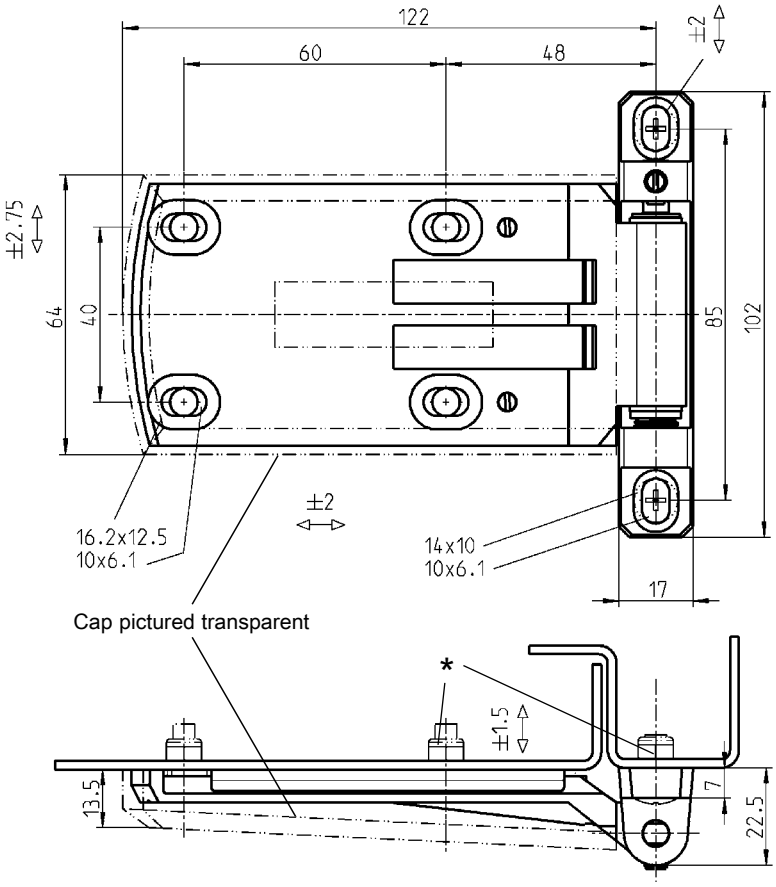
*PROGRAM 1054*










* not included

RH or LH´version by turning around the hinge with flag.

| 3D-screw-on hinge zinc die black p.c., axle stainless steel, plate and pins steel zinc pl., cap and bushes polyamide black | |
|---|---|
| RH version | 1054-U36-RE |
| LH version | 1054-U36-LI |



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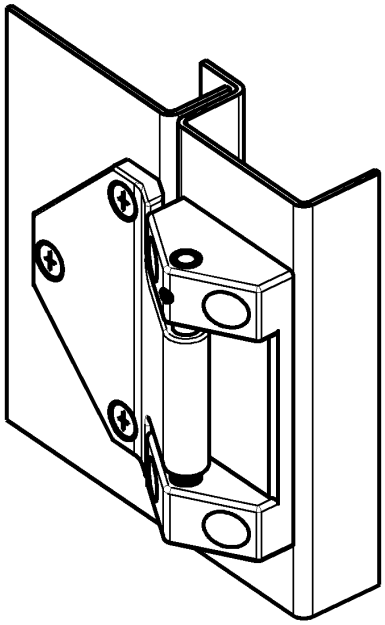
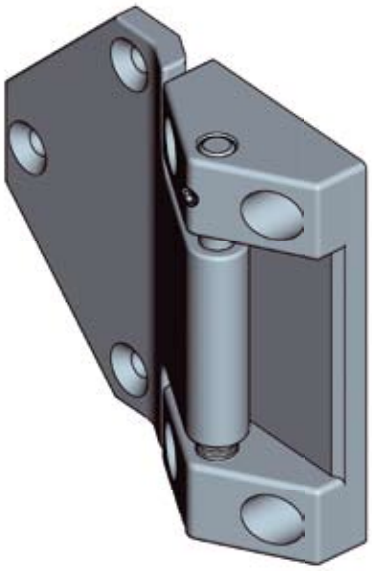
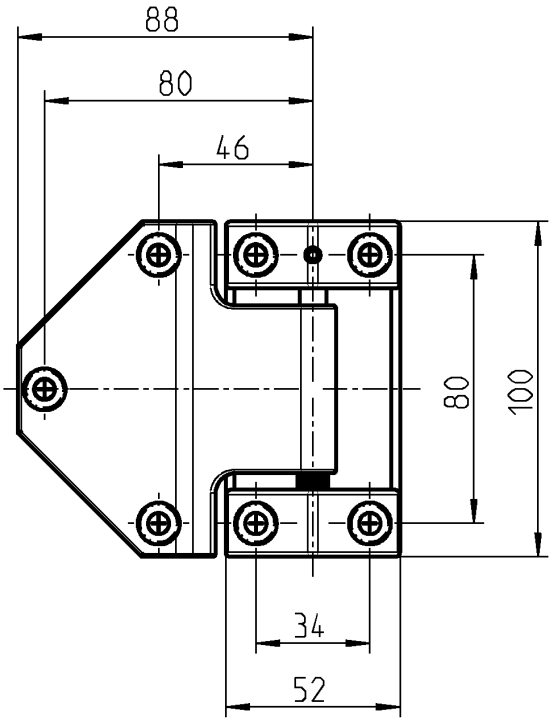
# 180° stainless steel screw-on hinge adjustable

*PROGRAM 1054*



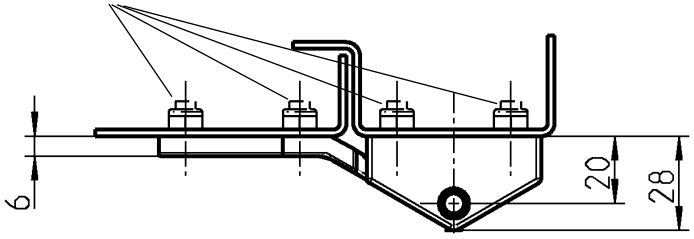







**Height adjustment ±4 mm**

RH- or LH-version by turning around the hinge with flag




* not included

| Screw-on hinge adjustable stainless steel 1.4571; washer and hinge pin stainless steel | |
|---|---|
| | 1054-U39 |

**small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047**

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# 3D-hinge e.g. for horse trailer

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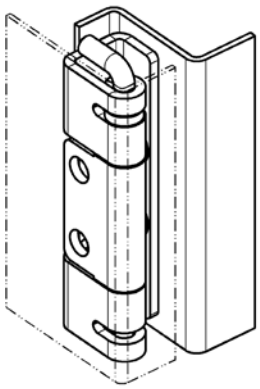
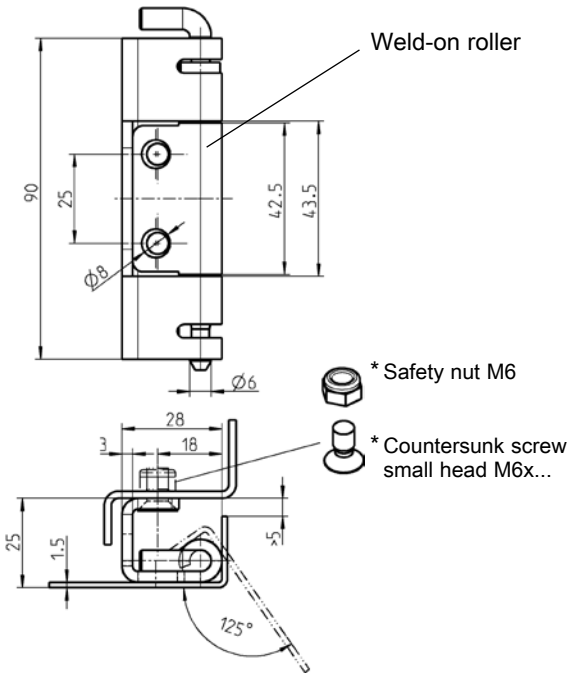
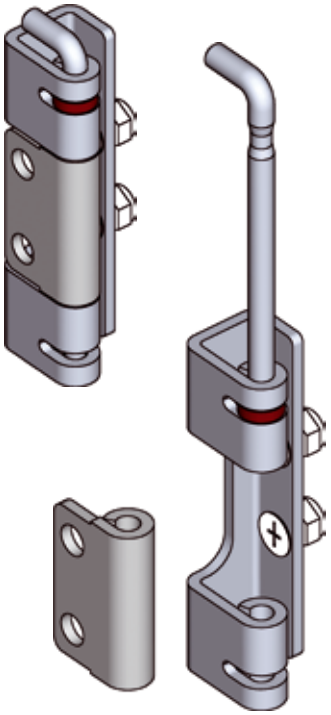
# 125° hinge with captive pin
*PROGRAM 1031*

**125° hinge**
**for 25 mm chamfer**





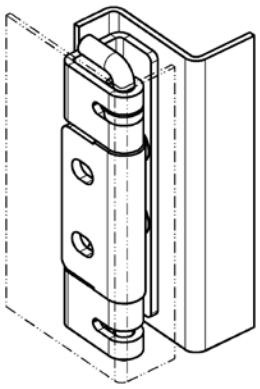



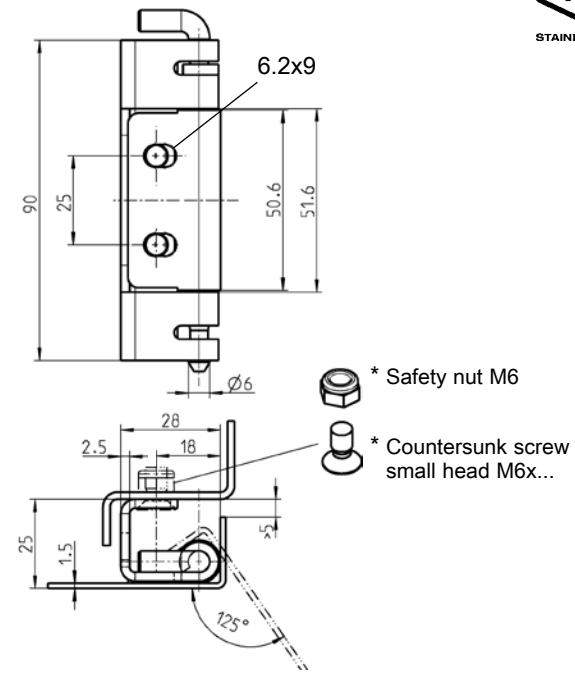
**Note:**
For the use in the area of fire protection it is to be seen to that the hinge pin is mounted from the top.

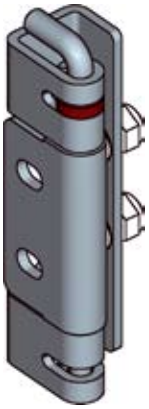
| 125° hinge m.s. zinc pl.; roller m.s. raw, pin clamping ring POM red | |
|---|---|
| | 1031-U12 |

**125° hinge**
**for 25 mm chamfer**

EDELSTAHL Rost frei STAINLESS STEEL





**Note:**
For the use in the area of fire protection it is to be seen to that the hinge pin is mounted from the top.

| 125° hinge material as requested; pin clamping ring POM red | |
|---|---|
| AISI 304 | 1031-U13 |
| m.s. zinc plated | on request |

*** not included in the scope**

**small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047**



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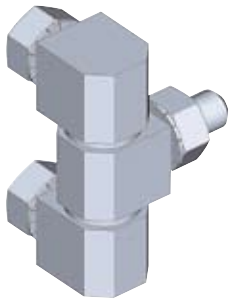
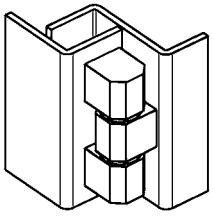
# 180° screw-on hinge

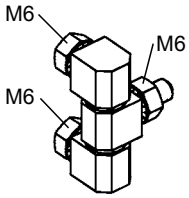
*PROGRAM 1055, 1039*

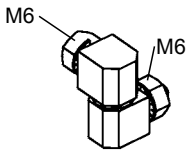


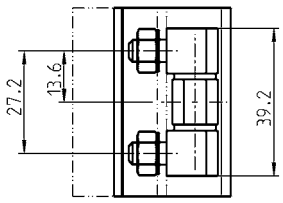


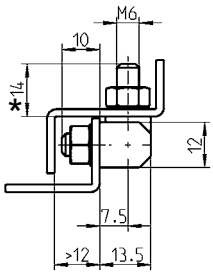
## 180° screw-on hinge





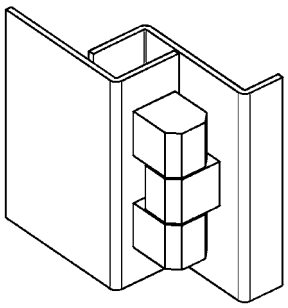



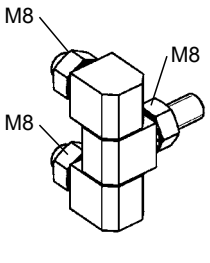



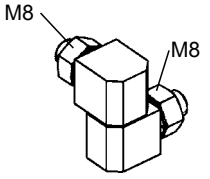

* = 10 mm in case of 2-part hinge

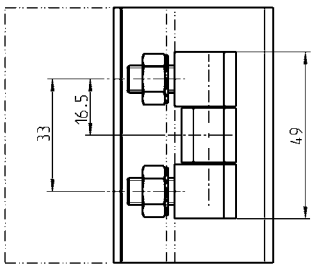
| 180° screw-on hinge m.s. zinc plated; pin and washers brass nickel plated respectively completely stainless steel | | |
|---|---|---|
| – three-piece | m.s. | 1055-U2 |
| | AISI 303 | 1055-U6 |
| | AISI 316 | 1055-U8 |
| – two-piece | m.s. | 1055-U5 |

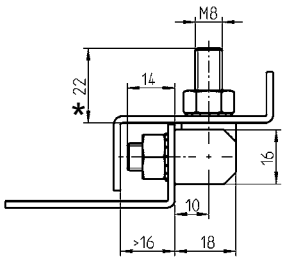
## 180° screw-on hinge






* = 14 mm in case of 2-part hinge

| 180° screw-on hinge m.s. zinc plated; pin and washers brass nickel plated respectively completely stainless steel | | |
|---|---|---|
| – three-piece | m.s. | 1039-U12 |
| | AISI 303 | 1039-U19 |
| | AISI 316 | 1039-U26 |
| – two-piece | m.s. | 1039-U17 |



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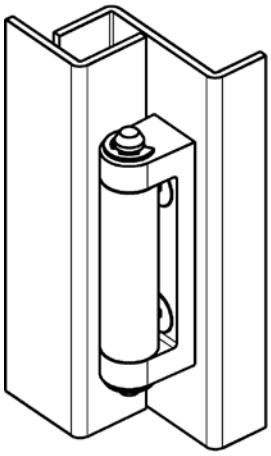
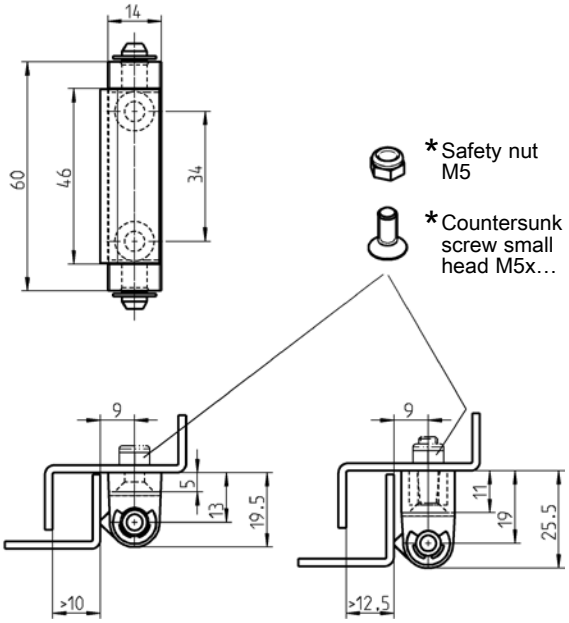
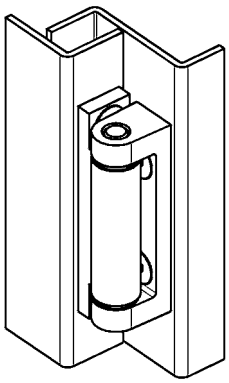
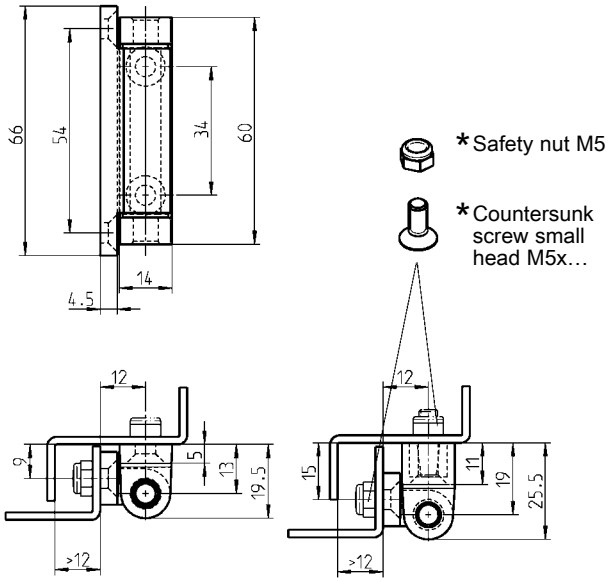
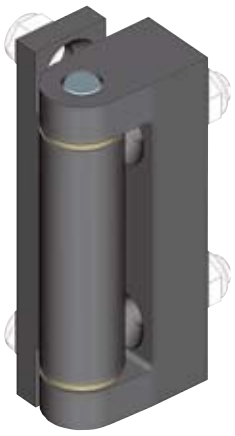




| Hinge zinc die; middle part m.s. raw; pin and washer m.s. zinc plated | | |
|---|---|---|
| | **Dimension 19.5** | **Dimension 22.5** |
| chrome plated | 1054-U2 | 1054-U14 |
| black powder coated | 1054-U8 | 1054-U15 |
| raw | 1054-U26 ** | 1054-U25 ** |
| **=Minimum order quantity: 1000 pieces | | |





| Hinge zinc die; pin stainless steel and bushes polyamide | | |
|---|---|---|
| | **Dimension 19.5** | **Dimension 22.5** |
| chrome plated | 1054-U3 | 1054-U16 |
| black powder coated | 1054-U9 | 1054-U17 |
| raw | 1054-U23 ** | 1054-U24 ** |
| ** = Minimum order quantity: 1000 pieces | | |

* not included

**small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047**

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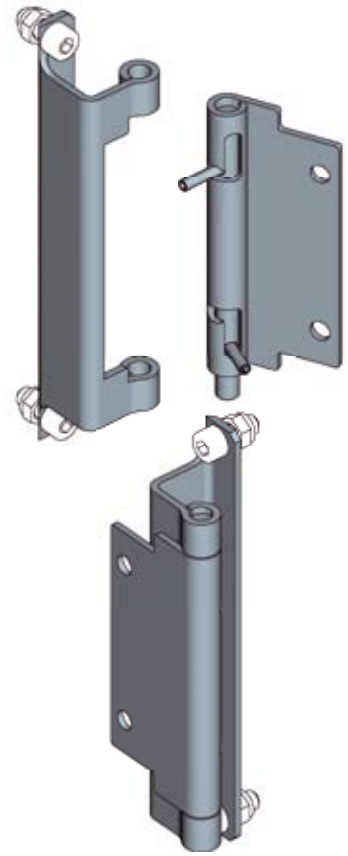
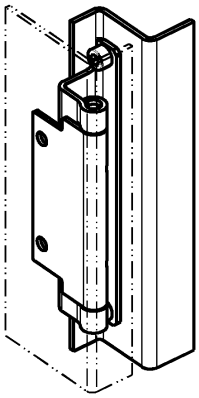
# 115° and 135° stainless steel hinge with captive pin

*PROGRAM 1031*

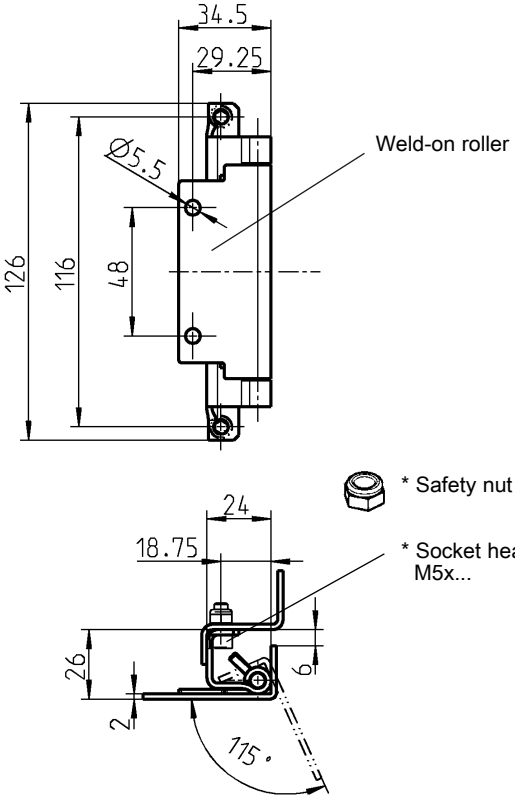




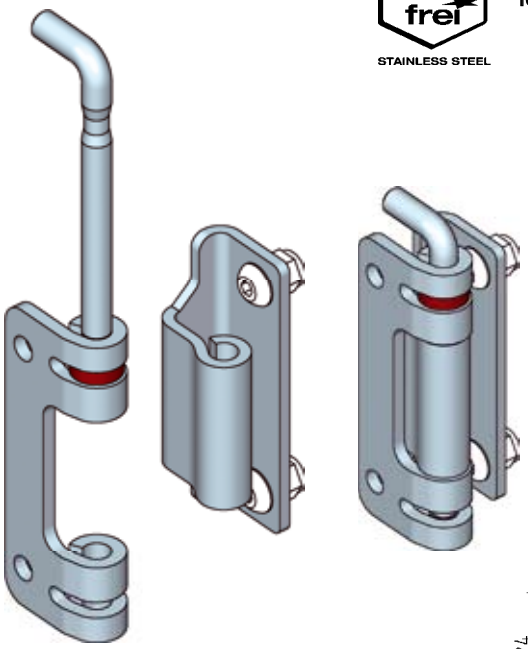
EDELSTAHL Rostfrei STAINLESS STEEL



**115° hinge**
**for 26 mm chamfer**

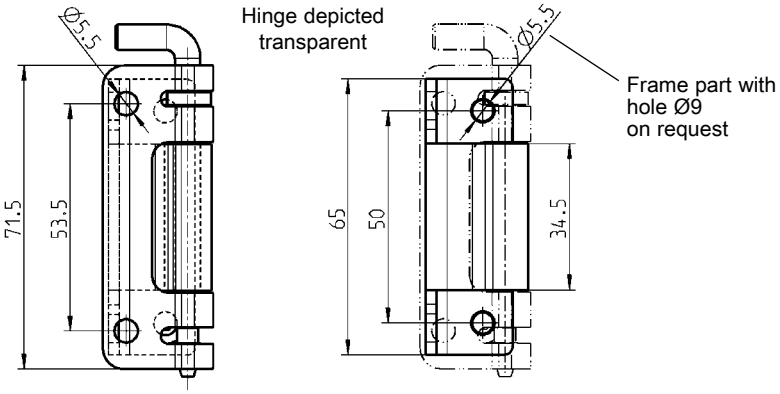


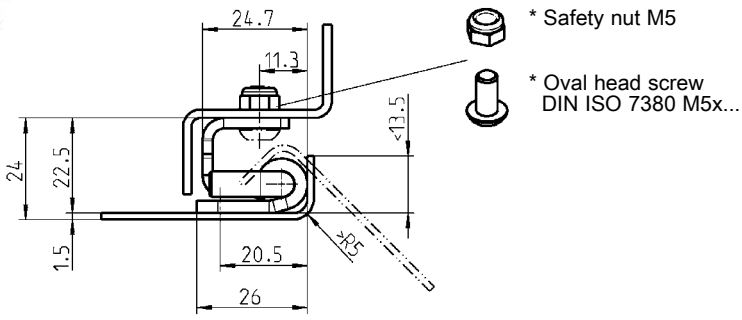

| 115° hinge AISI 304 | |
|---|---|
| | 1031-U14 |



EDELSTAHL Rostfrei STAINLESS STEEL

**135° hinge**
**for 24 mm chamfer**




**Note:**
For the use in the area of fire protection it is to be seen to that the hinge pin is mounted from the top.

*** not included in the scope**

| 135° hinge AISI 304; pin AISI 303; pin clamping ring POM red | |
|---|---|
| Fixing points according to common standards | 1031-U15 |



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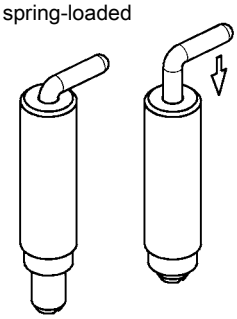
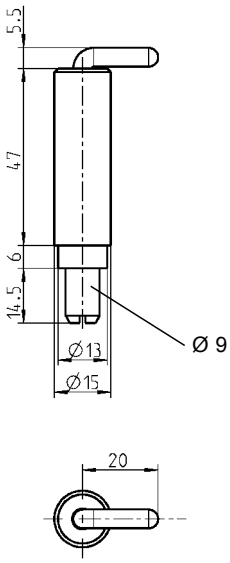
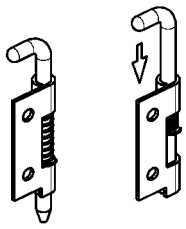
spring-loaded



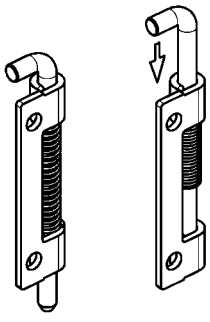


| Pin hinge m.s. zinc pl., spring material spring steel zinc pl., guide tube m.s. raw or AISI 304, pin AISI 303, spring stainless steel | |
|---|---|
| m.s. | 1117-U1 |
| AISI | 1117-U1-PF |

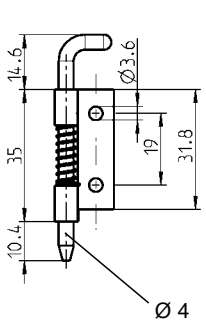
spring-loaded

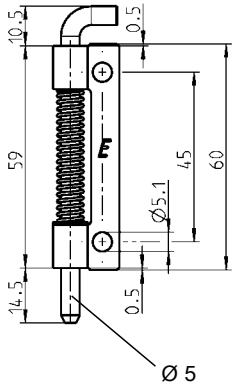


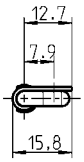
Version A

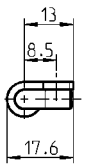


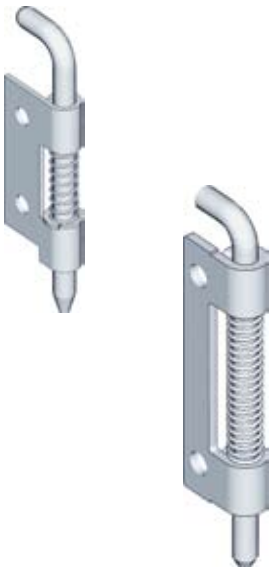
Version B



| Pin hinge m.s. zinc pl., spring material spring steel zinc pl. | | | |
|---|---|---|---|
| RH-version A | 1117-U2 | LH-version A | 1117-U3 |
| Version B right | 1117-U4 | Version B left | 1117-U5 |
| **Pin hinge AISI 304, pin AISI 303, spring stainless steel** | | | |
| Version B right | 1117-U4-PC | Version B left | 1117-U5-PC |

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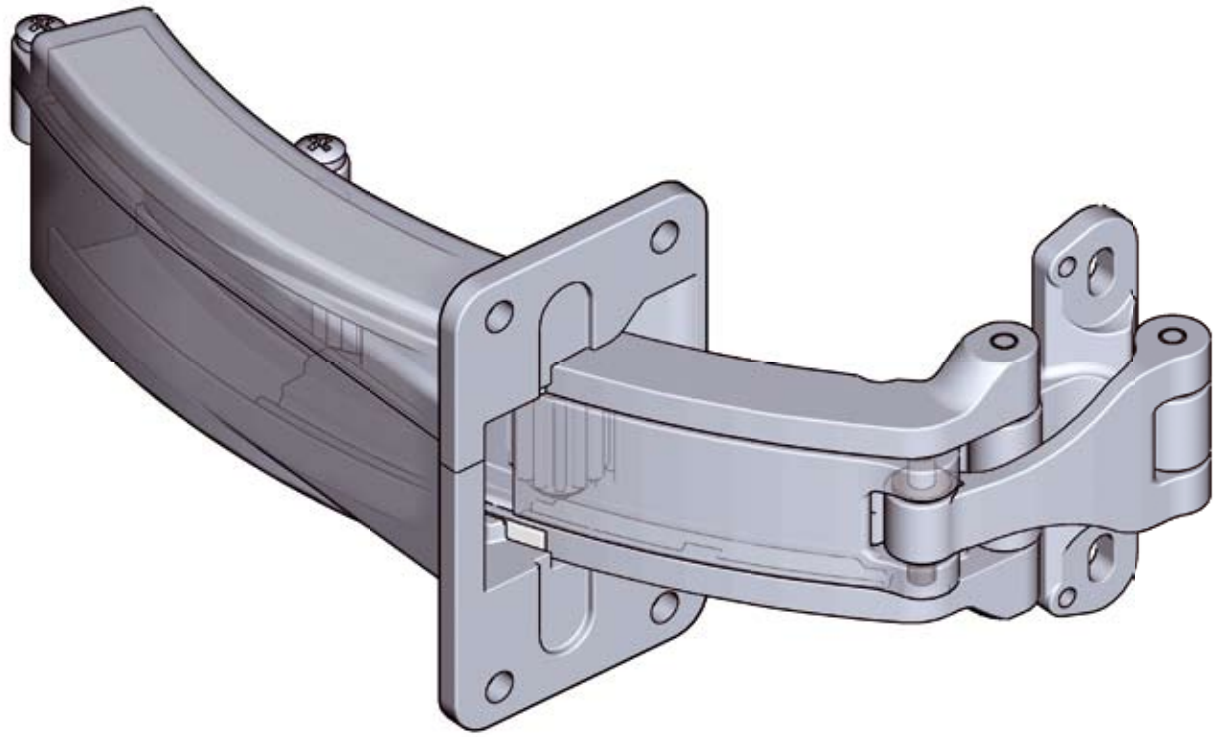

180° gear hinge open and pictured transparently



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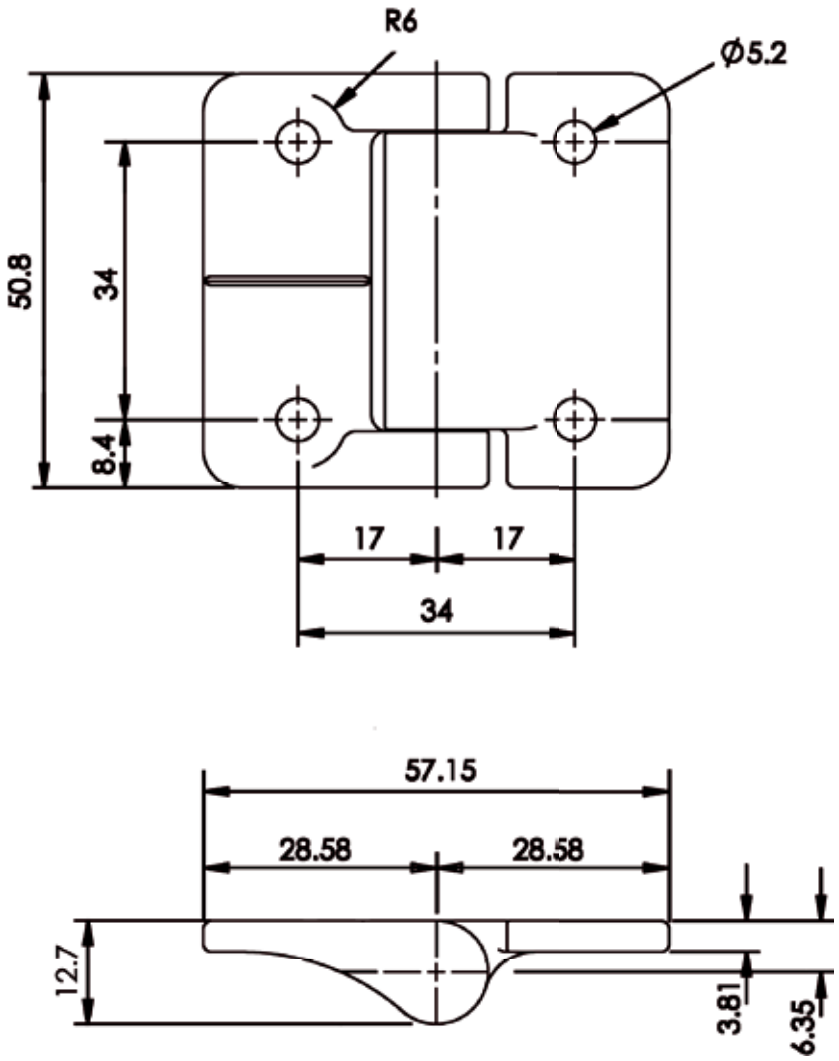
# 270° torque hinge
*PROGRAM 1058*



**Torque hinge**
The hinge has a constant torque and can be brought into position steplessly.
There it remains in the same position.
The torque is the same during opening and closing.

**Note:**

– Springback < 1°
– > 20.000 cycles with 180° open-close
– Constant torque

Further versions on request!

| 270° torque hinge zinc die or AISI 316; pin and spring element steel hardened | | | |
|---|---|---|---|
| **Nm** | **Tolerance +/-%** | **Zinc die raw** | **Zinc die black** |
| 3,4 | 20 | on request | 1058-U8035-105 |

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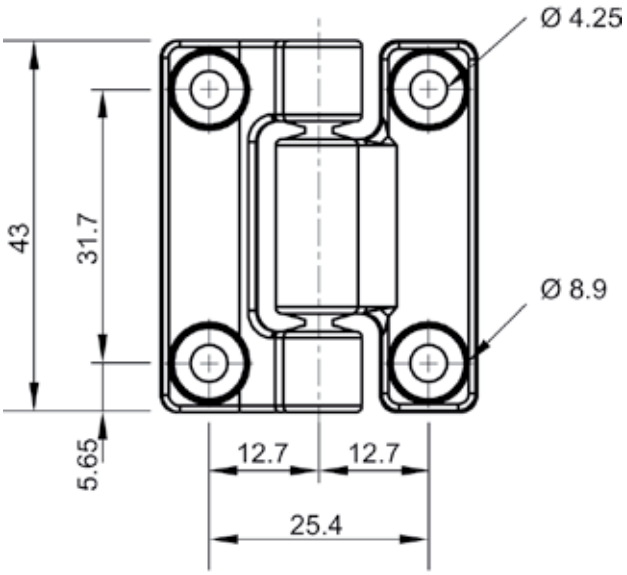
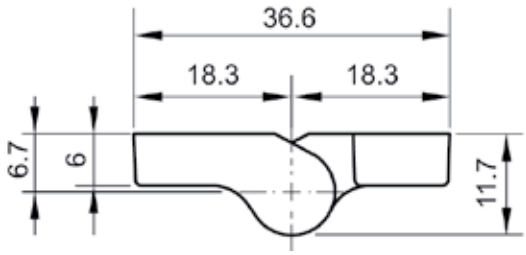
# 270° torque hinge

*PROGRAM 1058*




**Torque hinge**
The hinge has a constant torque and can be brought into position steplessly.
There it remains in the same position.
The torque is the same during opening and closing.

**Note:**

– Springback < 1°
– > 25.000 cycles
with 180° open-close
– Constant torque

Further versions on request!

| 270° torque hinge plastic black, pin and spring element steel hardened | | |
|---|---|---|
| **Nm** | **Tolerance +/-%** | |
| 0,4 | 35 | 1058-U12-000 |
| 0,8 | 25 | on request |
| 1,6 | 20 | 1058-U12-003 |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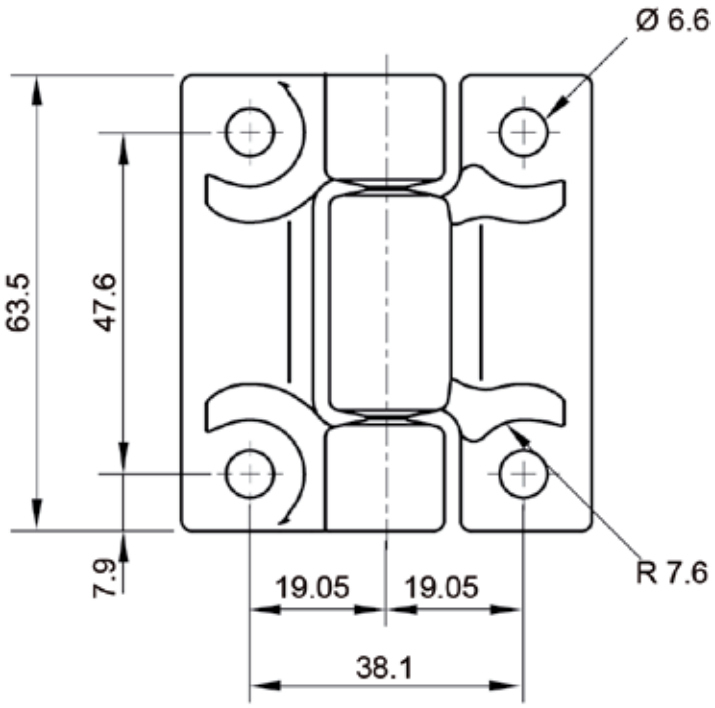
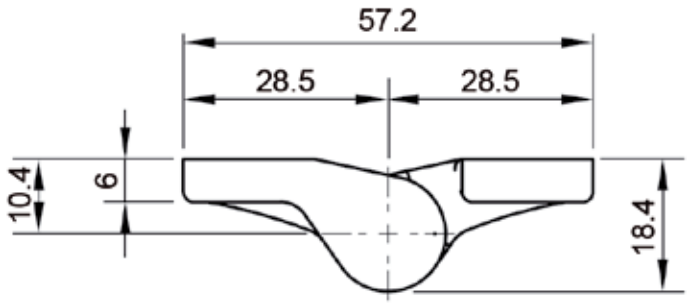
# 270° torque hinge
*PROGRAM 1058*



**Torque hinge**
The hinge has a constant torque and can be brought into position steplessly.
There it remains in the same position.
The torque is the same during opening and closing.

**Note:**

– Springback < 1°
– > 20.000 cycles with 180° open-close
– Constant torque

Further versions on request!

| 270° torque hinge plastic black, pin and spring element steel hardened | | |
|---|---|---|
| **Nm** | **Tolerance +/-%** | |
| 1,8 | 30 | 1058-U14-118 |
| 3,4 | 20 | 1058-U14-134 |
| 4,2 | 20 | on request |
| 5,8 | 20 | 1058-U14-158 |



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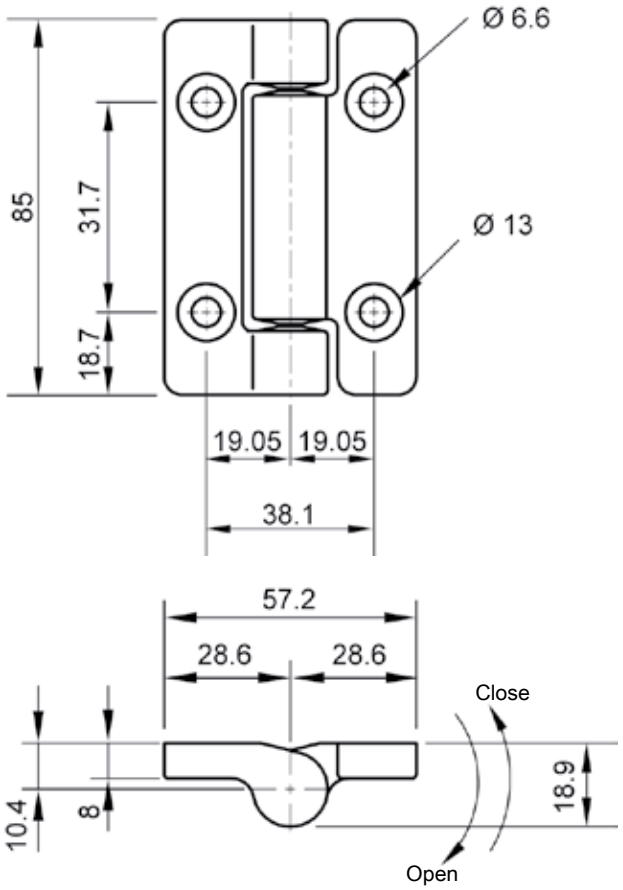
# 270° torque hinge

*PROGRAM 1058*




**Torque hinge**
The hinge has a constant torque and can be brought into position steplessly.
There it remains in the same position.
Two versions available:
1. same torque during opening and closing
2. different torques during opening and closing on request

**Note:**

– Springback < 1°
– > 20.000 cycles with 180° open-close
– Constant torque

Further versions on request!

| 270° torque hinge plastic black, pin and spring element steel hardened | | |
|---|---|---|
| Nm during opening and closing | Tolerance +/-% | |
| 8,0 | 20 | 1058-U15-206 |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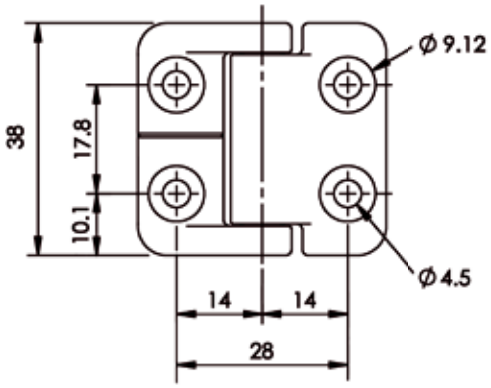
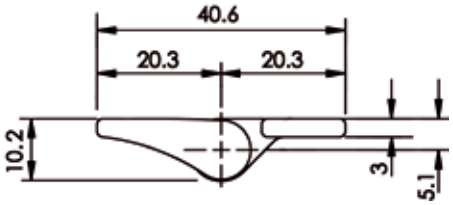
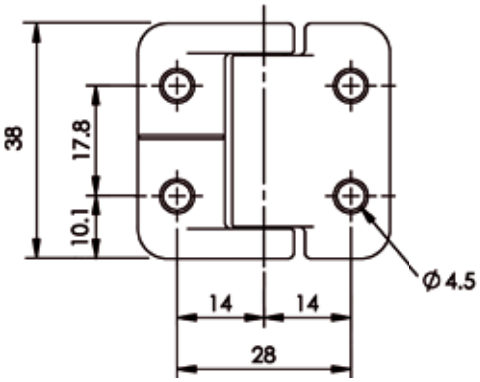
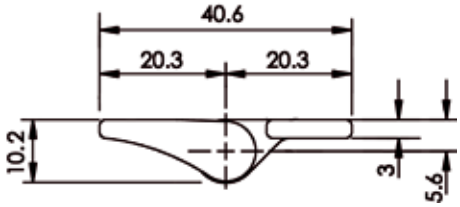



Version A




Version B

Version A

Version B

**Torque hinge**
The hinge has a constant torque and can be brought into position steplessly.
There it remains in the same position.
The torque is the same during opening and closing.

**Note:**

– Springback < 1°
– > 20.000 cycles with 180° open-close
– Constant torque

Further versions on request!

| 270° torque hinge zinc die or AISI 316, pin and spring element steel hardened respectively AISI 316 | | | | |
|---|---|---|---|---|
| **Nm** | **Tolerance +/-%** | **Zinc die raw** | **Zinc die black** | **AISI 316** |
| **Version A** | | | | |
| 1,57 | 20 | 1058-U28-016 | on request | on request |
| **Version B** | | | | |
| 0,44 | 20 | 1058-U35-004 | on request | on request |
| 2,79 | 20 | 1058-U35-030 | on request | on request |



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Notes:

Notes:

# Chapter 3:
# Gasketing

**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 limitations, 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 in 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 that EPDM.

**Disclaimer:**
As a rule, disclosed values are standard values detected on sample plates and correspond to our state of knowledge. However, they do not release the end user of individual and thorough tests.


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Other cross section on request

# Content


| | | |
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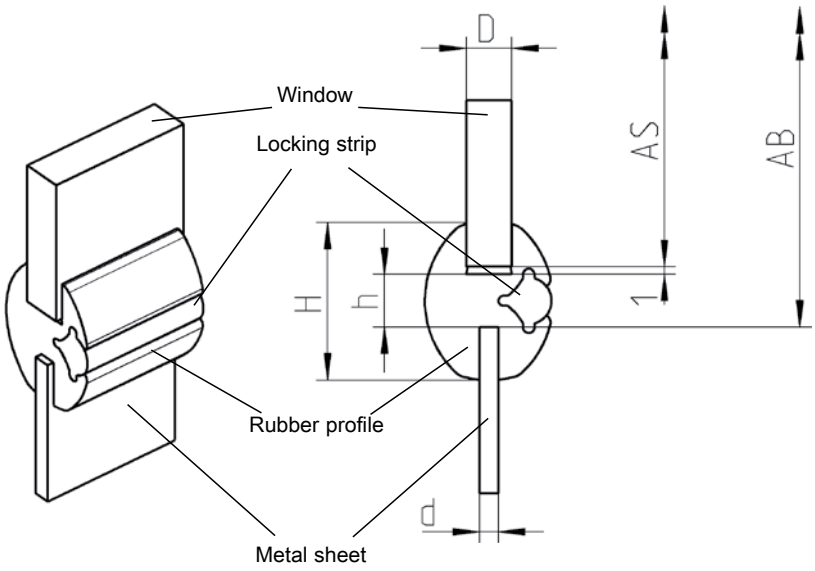
Other cross section on request

# Window-rubber with locking strip

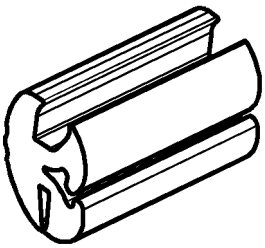
*PROGRAM 1030*

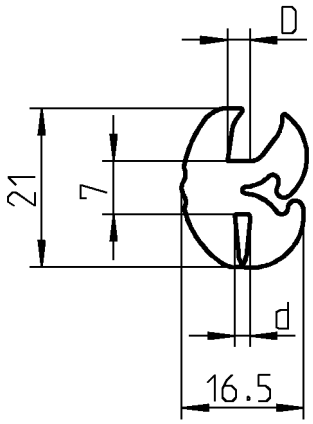



AS = dimension of the window
AB = dimension of the cut out

The indication of the bending radius is based on the pane receiver = AS +1 mm

| Glazing profile EPDM 75° ± 5 Shore black with Filler EPDM 85° ± 5 Shore black | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| D | d | H | h | Bending radius | AB in mm | Rubber profile | + | Locking strip |
| 4 | 2 | 15 | 4 | >30 | AS+10 | 1030-01 | + | 1030-04 |
| 4 | 2,5 | 21 | 7 | >70 | AS+16 | 1030-02 | + | 1030-05 |
| 6 | 2,5 | 21 | 7 | >70 | AS+16 | 1030-03 | + | 1030-05 |
| 5 | 2 | 17 | 5 | >50 | AS+12 | 1030-07 | + | 1030-10 |
| 2 tools for installation for window and locking strip | | | | | | | | |
| | | | | | | | | 1030-U1 |






| Glazing profile EPDM 70° ± 5 Shore black with Filler EPDM 80° ± 5 Shore black | | | | | | |
|---|---|---|---|---|---|---|
| D | d | Bending radius | | Rubber profile | + | Locking strip |
| 4 | 1.5 | >80 | | 1030-HP453 | + | 1030-HP454 |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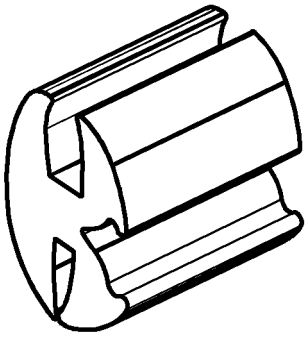
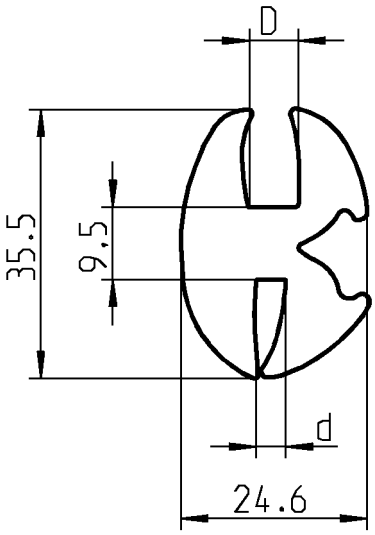
Other cross section on request

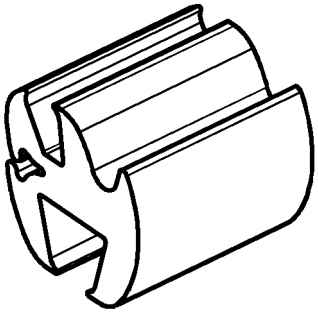
# Window-rubber with locking strip

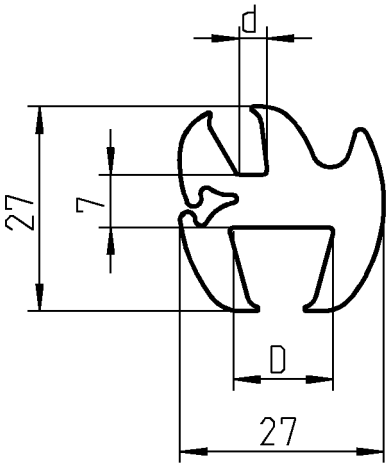
*PROGRAM 1030*





| Glazing profile EPDM 70° ± 5 Shore black<br>with Filler EPDM 80° ± 5 Shore black | | | | | | |
|---|---|---|---|---|---|---|
| D | d | Bending radius | | Rubber profile | + | Locking strip |
| 6 | 3.5 | >100 | | 1030-HP488 | + | 1030-HP454 |





| Glazing profile EPDM 70° ± 5 Shore black<br>with Filler EPDM 80° ± 5 Shore black | | | | | | |
|---|---|---|---|---|---|---|
| D | d | Bending radius | | Rubber profile | + | Locking strip |
| 13 | 3.5 | >100 | | 1030-HP511 | + | 1030-HP454 |



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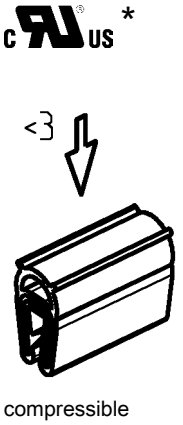
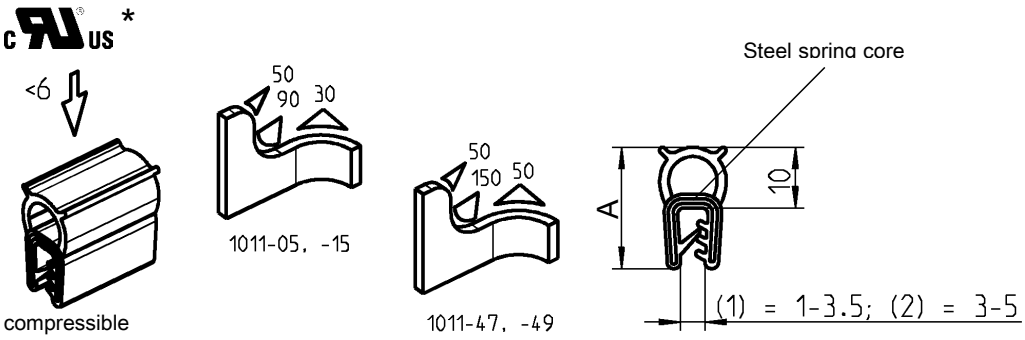
Other cross section on request

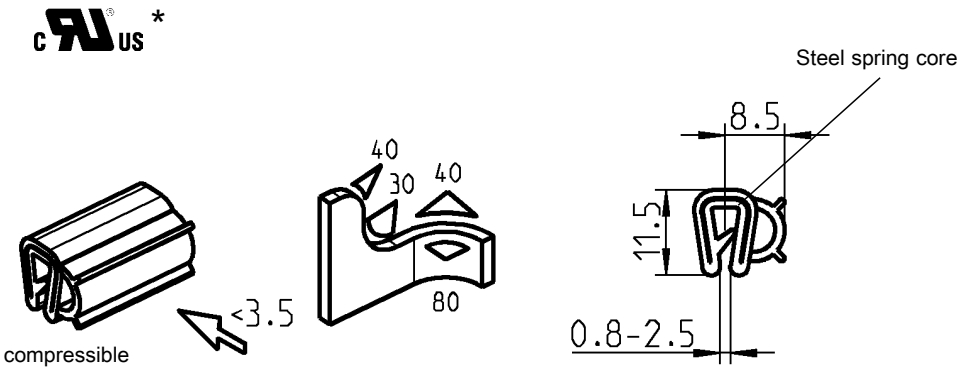
# Self-gripping gasketing
## *PROGRAM 1011*




| Material for gasket as requested | |
|---|---|
| Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore A) | 1011-10* |
| Sponge rubber (NBR) black (gripping profile NBR 60° ±5 Shore A) | 1011-50 |




| Material for gasket as requested | A | |
|---|---|---|
| Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore A) | 20 | 1011-05* (1) |
| Sponge rubber (NBR) black (gripping profile NBR 60° ±5 Shore A) | 21 | 1011-15 (1) |
| Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore A) | 21 | 1011-49 (2) |
| Sponge rubber (NBR) black (gripping profile NBR 60° ±5 Shore A) | 21 | 1011-47 (2) |




* UL 50
UL 50(E)
UL 94-HB

| Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore A) | |
|---|---|
| | 1011-09* |



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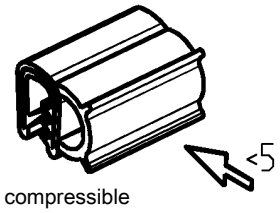
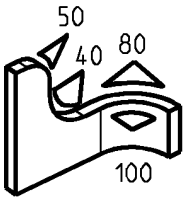
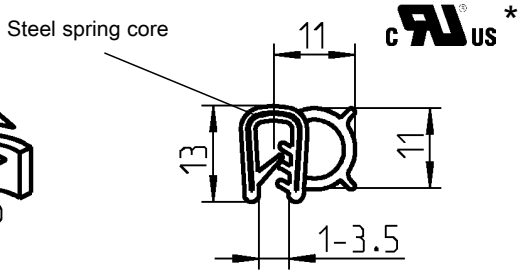
Other cross sections on request



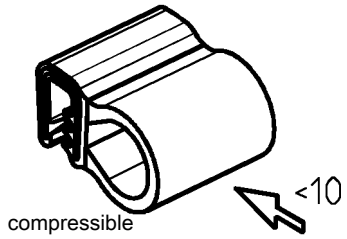



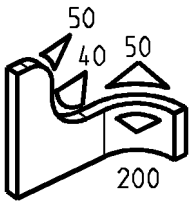



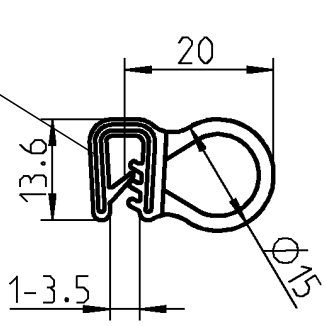

c US *

| Material for gasket as requested | |
|---|---|
| Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore A) | 1011-06* |
| Sponge rubber (NBR) black (gripping profile NBR 60° ±5 Shore A) | 1011-16 |

c US *

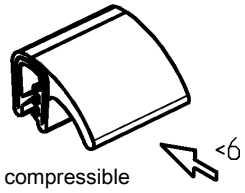


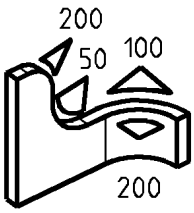



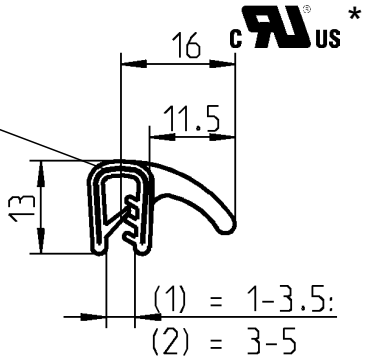



| Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore A) | |
|---|---|
| | 1011-12* |

c US *



| Material for gasket as requested | | |
|---|---|---|
| Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore A) | (1) | 1011-08* |
| Sponge rubber (NBR) black (gripping profile NBR 60° ±5 Shore A) | (1) | 1011-46 |
| Sponge rubber (NBR) black (gripping profile NBR 60° ±5 Shore A) | (2) | 1011-48 |

* c US
UL 50
UL 50(E)
UL 94-HB



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Other cross sections on request

# Fire protection info

**History:**

- The work on EN 45545 was finished in January 2012 for the time being.
- DIN EN 45545 was published in June 2013 (available from August 2013).
- The DOW (date of withdrawal) has been Extended from 6 to 36 months so that national standards, e. g. DIN 5510, are to be withdrawn by March 2016.

**DIN EN 45545-2:**

This part stipulates the test procedures for test conditions and requirements for the reaction to fire of each Hazard Level.

**Hazard Level:**

| Operation category | Building class | | | |
|---|---|---|---|---|
| | N: Standard vehicles | A: Vehicles for automatic train operation not having staff on board that is trained for emergencies. | D: Double-decker trains | S: Sleepers and couchettes (bilevel or unilevel) |
| 1 | HL1 | HL1 | HL1 | HL2 |
| 2 | HL2 | HL2 | HL2 | HL2 |
| 3 | HL2 | HL2 | HL2 | HL3 |
| 4 | HL3 | HL3 | HL3 | HL3 |

**Operation categories:**

Operation category 1: surface vehicles
Operation category 2: tunnel max. 5 km
Operation category 2: tunnel > 5 km
Operation category 4: tunnel, evacuation from the side not possible

**Gasketing:**

The gasketing has been included in DIN EN 45545 and have to meet the requirements R22 for indoors or R23 for outdoors as a function of the Hazard Level. In order to be able to define the Hazard Level, you need to know the Operation Category and Building Class, e. g. 2 (tunnel max. 5 km) D (double-decker trains)!




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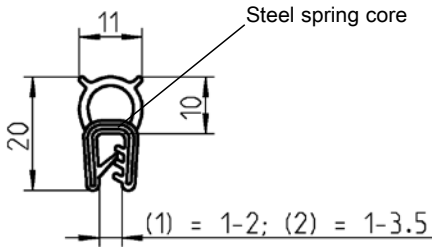
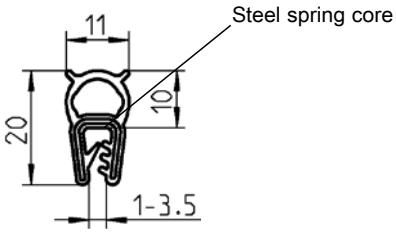
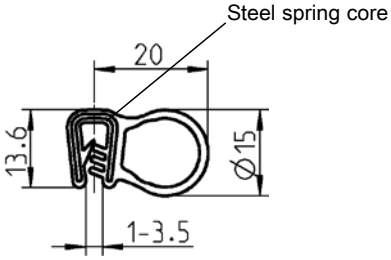


| Fire protection sealing profile | | |
|---|---|---|
| ⑤⑥⑦ | Sponge-rubber (EPDM) black (gasket sponge-rubber EPDM) | 1011-S19 (1) |
| ①② | Sponge rubber (EPDM) black (gripping profile soft rubber) | 1011-S39 (2) |



| Fire protection sealing profile silicon solid material | | |
|---|---|---|
| ①②③④ | graphite grey 65° ±5° Shore A | 1011-S47-BF |
| ②③ | white 75° ±5° Shore A | 1011-S47-HA |



| Fire protection sealing profile silicon solid material | | |
|---|---|---|
| ①②③④ | graphite grey 65° ±5° Shore A | 1011-S42-BF |
| ②③ | white 75° ±5° Shore A | 1011-S42-HA |

| Fire protection standards | |
|---|---|
| ① | DIN 5510-2 |
| ② | NF F 16-101/ -102 |
| ③ | DIN EN 45545-2 |
| ④ | UNI CEI 11170 |
| ⑤ | ASTM C542-90 |
| ⑥ | ASTM E662-95 |
| ⑦ | SMP 800-C |
| | |



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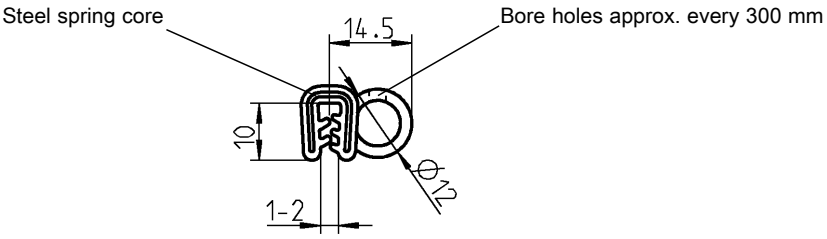
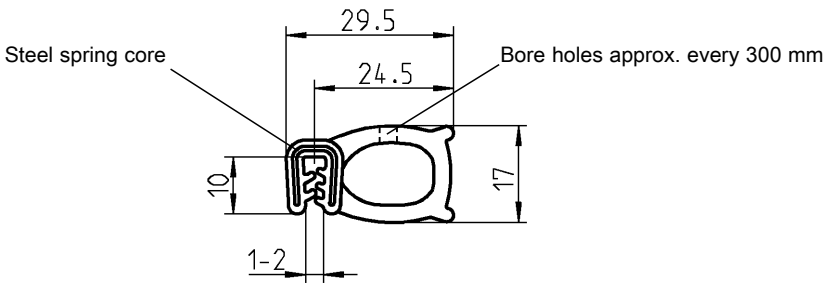
Other cross section on request

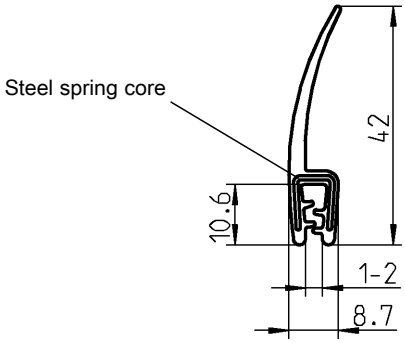
# Fire protection gaskets
## *PROGRAM 1011*




| Fire protection sponge-rubber (EPDM) black (gasket sponge-rubber EPDM) | |
|---|---|
| ⑤⑥⑦ | 1011-S23 |




| Fire protection sponge-rubber (EPDM) black (gasket sponge-rubber EPDM) | |
|---|---|
| ⑤⑥⑦ | 1011-S24 |




| Fire protection sealing profile silicon solid material 65° ±5° Shore A graphite grey | |
|---|---|
| ①②③④ | 1011-S83-BF |

| Fire protection standards | |
|---|---|
| ① | DIN 5510-2 |
| ② | NF F 16-101/ -102 |
| ③ | DIN EN 45545-2 |
| ④ | UNI CEI 11170 |
| ⑤ | ASTM C542-90 |
| ⑥ | ASTM E662-95 |
| ⑦ | SMP 800-C |
| | |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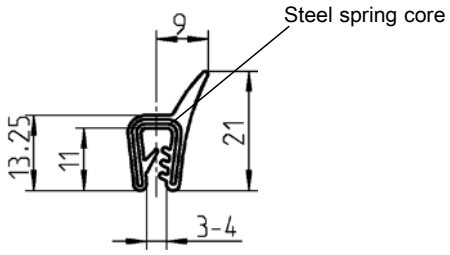
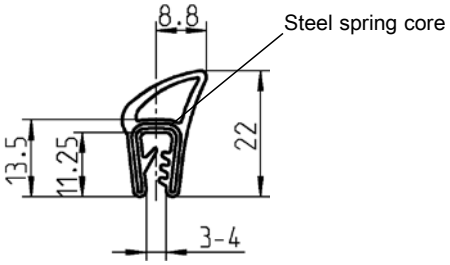
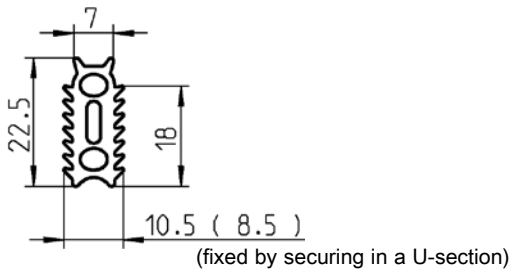


| Fire protection sealing profile silicon solid material 65° ±5° Shore A graphite grey | |
|---|---|
| ①②③④ | 1011-S53-BF |



| Fire protection sealing profile silicon solid material 65° ±5° Shore A graphite grey | |
|---|---|
| ①②③④ | 1011-S56-BF |



| Fire protection sealing profile material of your choice | | |
|---|---|---|
| ①② | Sponge rubber 30 ±5° Shore A black | 1003-S23 |
| ① | Silicon solid material 50° ±5° Shore A graphite grey | 1003-S30-BF |

| Fire protection standards | |
|---|---|
| ① | DIN 5510-2 |
| ② | NF F 16-101/ -102 |
| ③ | DIN EN 45545-2 |
| ④ | UNI CEI 11170 |
| ⑤ | ASTM C542-90 |
| ⑥ | ASTM E662-95 |
| ⑦ | SMP 800-C |
| | |



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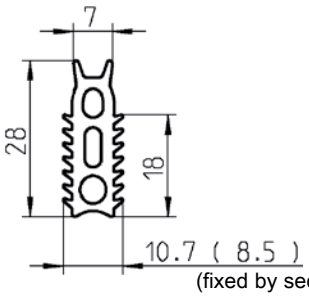
Other cross section on request

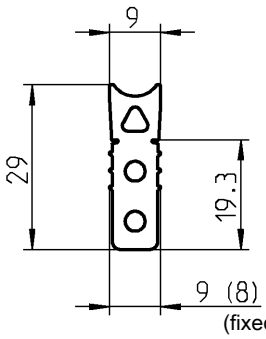
# Fire protection gaskets

## *PROGRAM 1003, 1016*



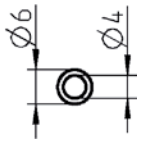

(fixed by securing in a U-section)

| Fire protection sealing Profile silicon solid material 50° ±5° Shore A graphite grey | |
|---|---|
| ① | 1003-S29-BF |




(fixed by securing in a U-section)

| Fire protection sealing profile silicone foam graphite grey | |
|---|---|
| ①③ | 1003-S32-BF |




| Fire protection sealing profile silicon solid material | | |
|---|---|---|
| ①②③④ | graphite grey 65° ±5° Shore A | 1016-S4-BF |
| ②③ | white 75° ±5° Shore A | 1016-S4-HA |

| Fire protection standards | |
|---|---|
| ① | DIN 5510-2 |
| ② | NF F 16-101/ -102 |
| ③ | DIN EN 45545-2 |
| ④ | UNI CEI 11170 |
| ⑤ | ASTM C542-90 |
| ⑥ | ASTM E662-95 |
| ⑦ | SMP 800-C |
| | |





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Other cross section on request

EPDM-Fire protection gasket

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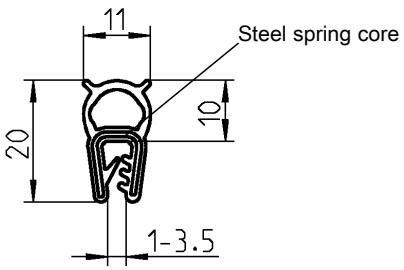
Other cross section on request

# EMC gasketing material

## *PROGRAM 1011, 1016*

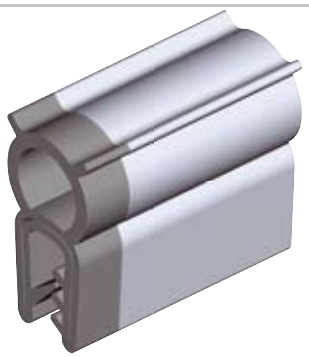
**anti-static**



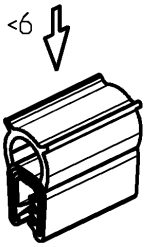

**Attention:**

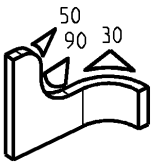
Please provide a contact area for all anti-static gaskets. For painted or powder coated cabinets see conductive tape.

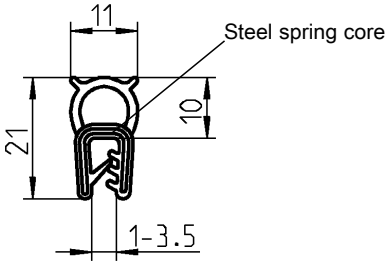
| Sealing profile silicon solid material and steel spring core; flame proof according to DIN 5510-2 | |
|---|---|
| | 1011-S80 |



**EMC**




**Attention:**

Please provide a contact area for all EMC gasketings. For painted or powder coated cabinets see conductive tape.

| Soft-sponge rubber / EPDM with conductive overall coating and steel spring core | |
|---|---|
| | 1011-05-E |

**EMC conductive tape**
– for painting and contact
– highly-conductive adhesive for creating paint-free contact areas
– length 25 metres

**Note:**
– The area to be adhered to has to be free of grease and dust.

– Remove the protective foil from the conductive tape and adhere it to the contact area. For better adhesion the conductive tape is wider than the mask.

– Afterwards painting or coating is possible, the mask prevents the coating adhering to the conductive tape.
Please note the following instructions for heat treatment of the conductive tape: max. 120°C permanent heat; short term up to 230°C possible; each time individual testing is necassary.

– After painting or powder coating the mask can be removed easily, the conductive tape is left securely in place.

| EMC conductive tape | | |
|---|---|---|
| **width of tape (mm)** | **in combination with EMC gasketing** | |
| 12,7 | – – | 1016-220-127E |
| 22 | 1011-09-E; 1011-10-E | 1016-220-220E |
| 25,4 | 1011-05-E; 1011-06-E; 1011-S80 | 1016-220-254E |
| Further dimensions on request | | |





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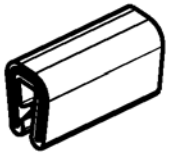
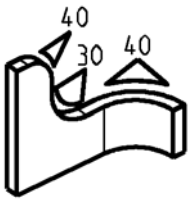
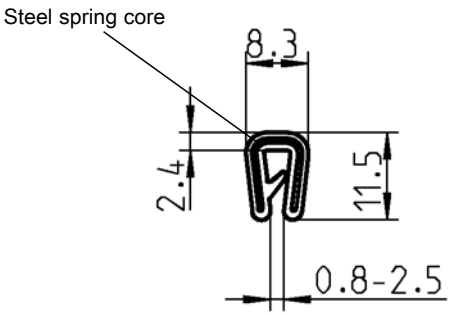
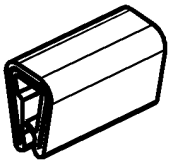
Other cross section on request

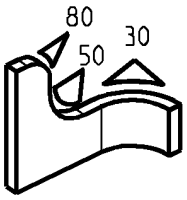


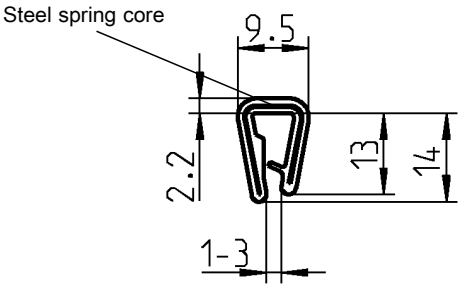


| Edge-protection EPDM 60° ± 5 Shore A black | |
|---|---|
| | 1010-12 |

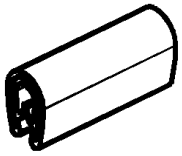


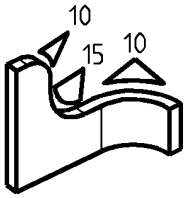


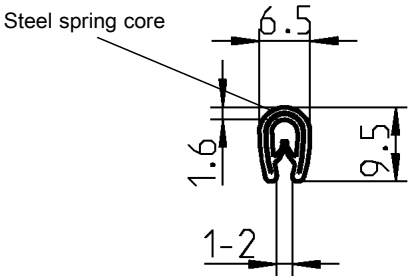



| Edge protector PVC grey | |
|---|---|
| | 1010-05 |

Temperature = -40°C to 90°C

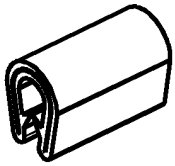


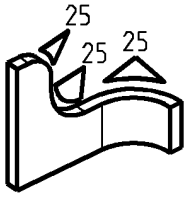


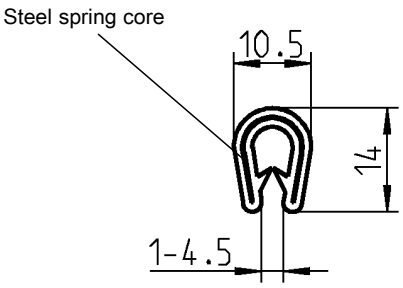



| Edge-protection PVC black | |
|---|---|
| | 1010-02 |

Temperature = -40°C to 90°C





| Edge-protection PVC black | |
|---|---|
| | 1010-01 |



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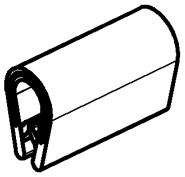
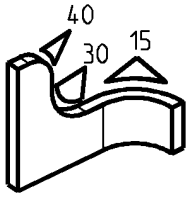
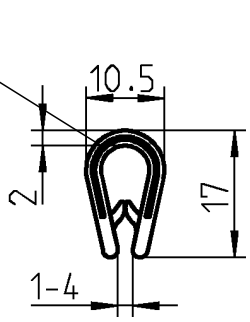
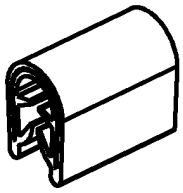
Other cross section on request

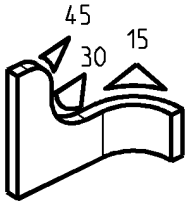


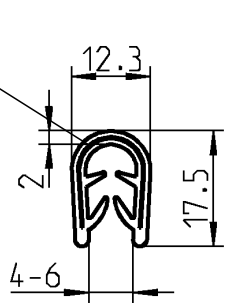


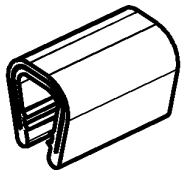

| Edge-protection PVC black | |
|---|---|
| | 1010-08 |

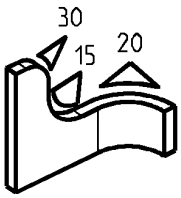


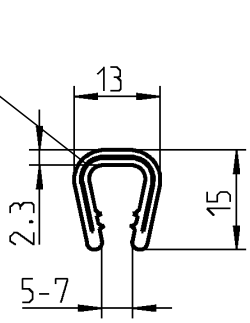



| Edge protection PVC color of your choice | |
|---|---|
| black | 1010-11 |
| dark grey | 1010-11-01 |






| Edge protection color of your choice | |
|---|---|
| black | 1010-06 |
| light-grey | 1010-06-01 |



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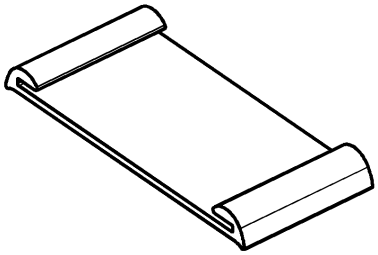
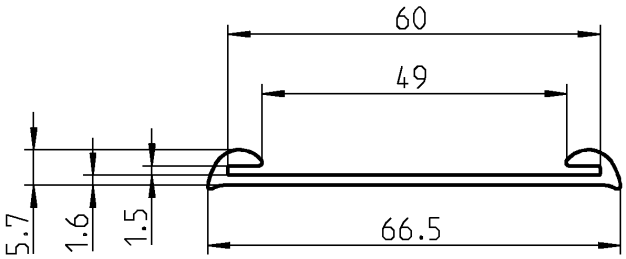
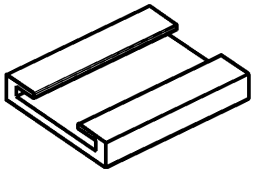
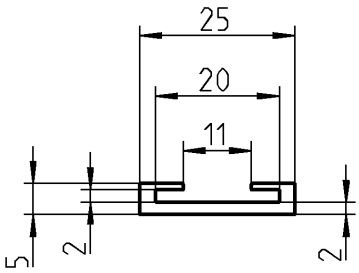
Other cross section on request

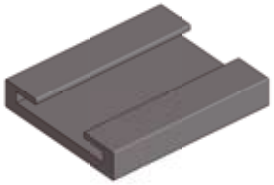




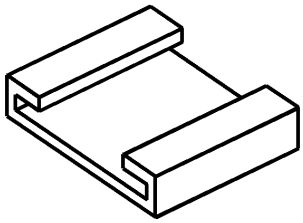
| Support for tank bands EPDM 60° Shore A black | |
|---|---|
| | 1038-HP437 |

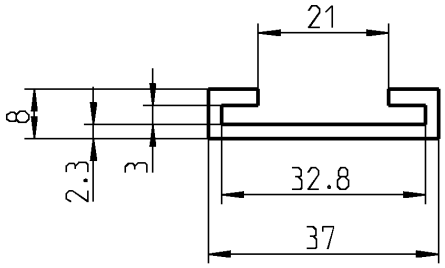


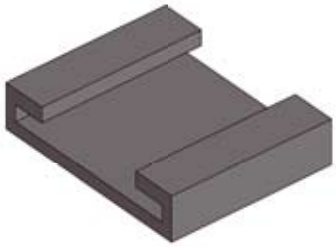


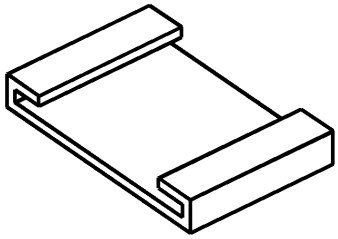
| Support for tank bands NBR 70° Shore A black | |
|---|---|
| | 1038-HP353 |

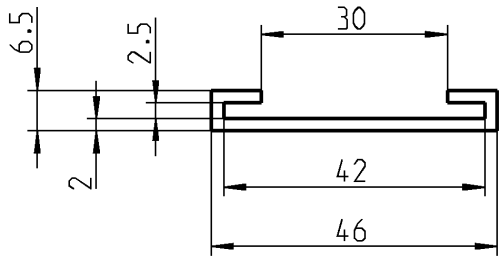


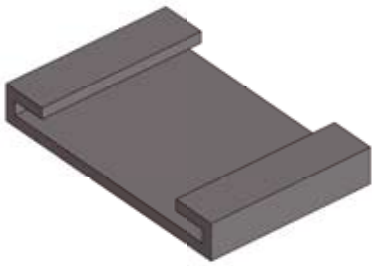


| Support for tank bands NBR 70° Shore A black | |
|---|---|
| | 1038-HP298 |





| Support for tank bands NBR 70° Shore A black | |
|---|---|
| | 1038-HP299 |



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Other cross section on request

# Chapter 4:
# Electronics

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# Content


4.1 Electronic locking system 174

4.2 Electromechanical locking system 175






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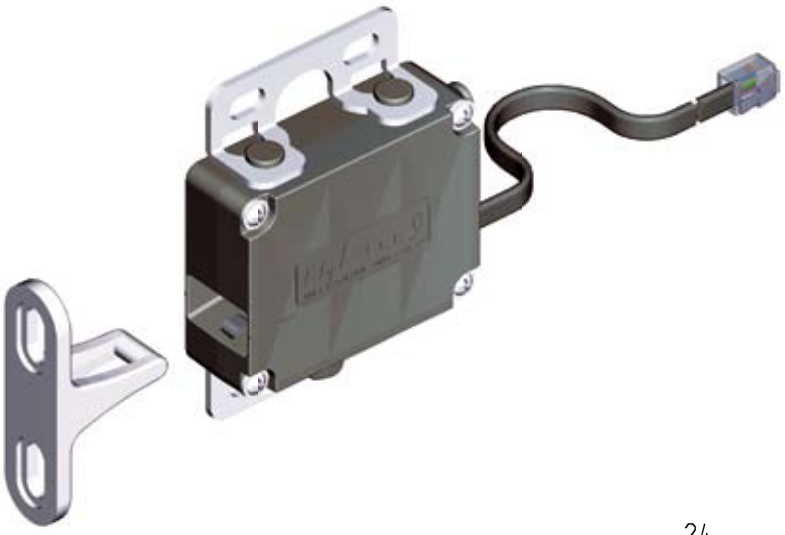
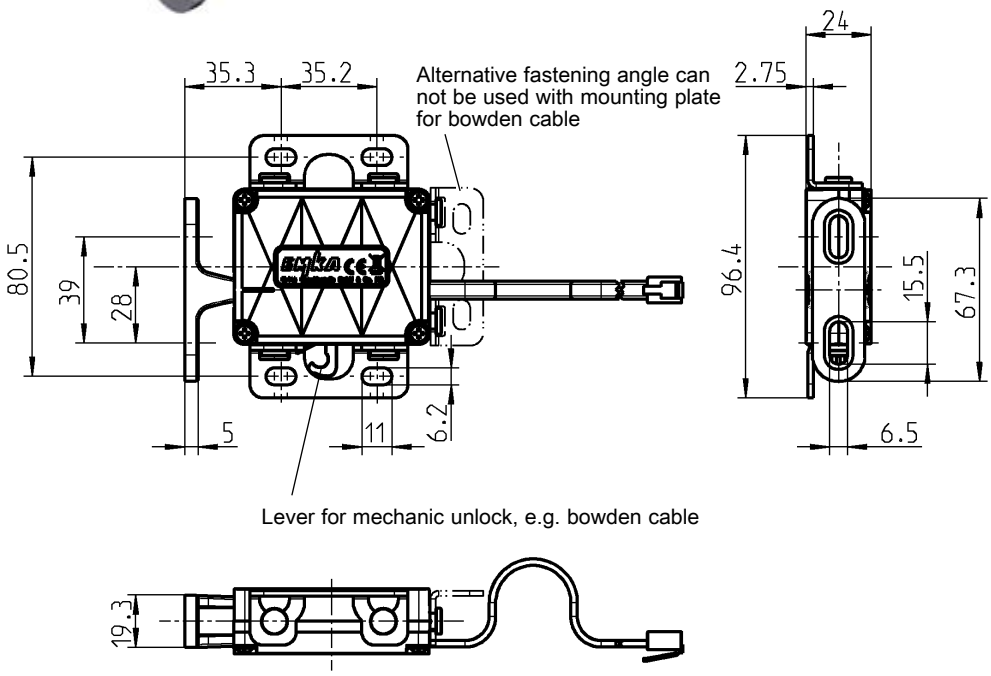
## Single point latch with integrated status contact

The single-point-locking is applicable in special application areas. The single-point-locking is designed for the connection with the control modules 3000-U32-0x and 3000-U33-0x.






| | |
|---|---|
| **Single-point-locking with integrated status contact, housing polyamide 66+PA6i GF 40 V0 black; rotary latch and ratchet m.s. bonded coating; bolt catch AISI 316; gear motor; electronics; cable with RJ connector 150 mm; fastening angle m.s. zinc plated; screw m.s. zinc plated; with springs; with assembly instruction and user manual** | |
| Basic | 3000-U300-01 |
| Basic delayed Re-Lock; (with delayed re-lock) | 3000-U300-02 |
| Energy-store; automatic unlock in case of power failure | 3000-U300-03 |
| **Adapter cable for RJ-box to ....** | |
| open cable end for modular construction form KIT | 3000-U15 |
| Plug for modules of type Box and 19“ rack mount unit | 3000-U15-01 |

**On request:**

– Fitting panel for Bowden cable
– Bowden cable

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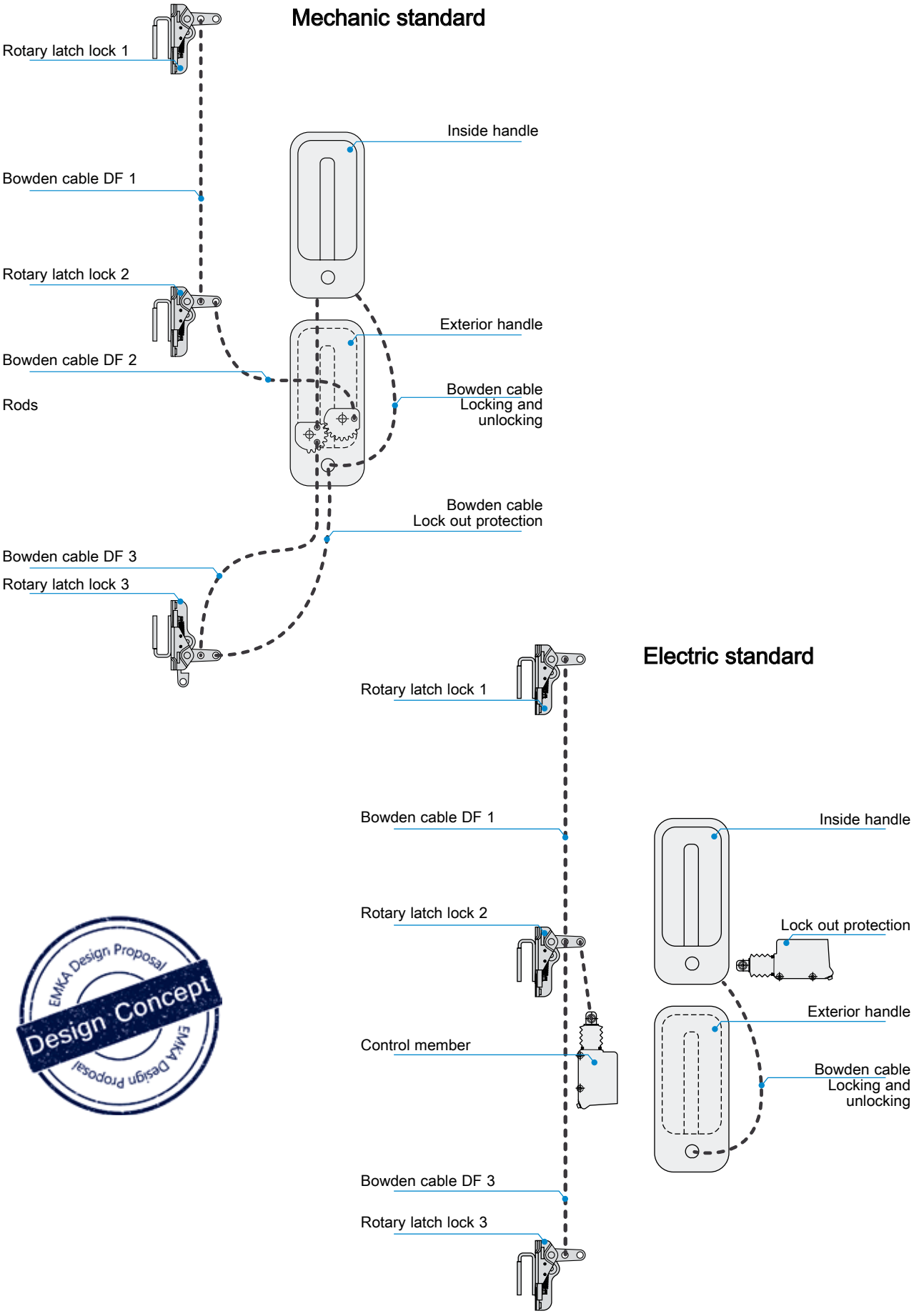
# Electromechanical locking system on basis of rotary latch lock



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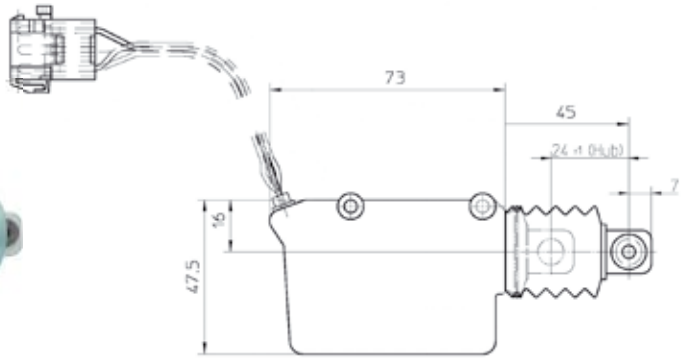
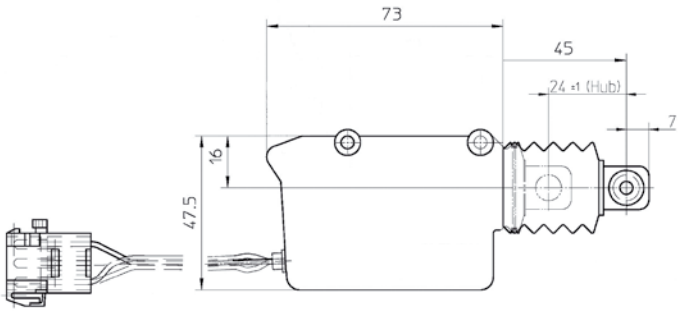
# Actuator
## *PROGRAM 5225*




Version 5225-U1 and U3; max. 1 second to energize




Several versions available:
Tension and pressure motor with spring return



- Motor for central locking
- Tension and pressure motor
- with or without microswitch
- multiple connectors
- Cable lengths and versions on request

| Actuator electric locking and unlocking e.g. for central locking | |
|---|---|
| 12V with microswitch, cable length 400 mm with 6-pin. AMP connector | 5225-U1 |
| 24V with microswitch, cable length 400 mm with 6-pin. AMP connector | 5225-U3 |
| Further versions and cable lengths | on request |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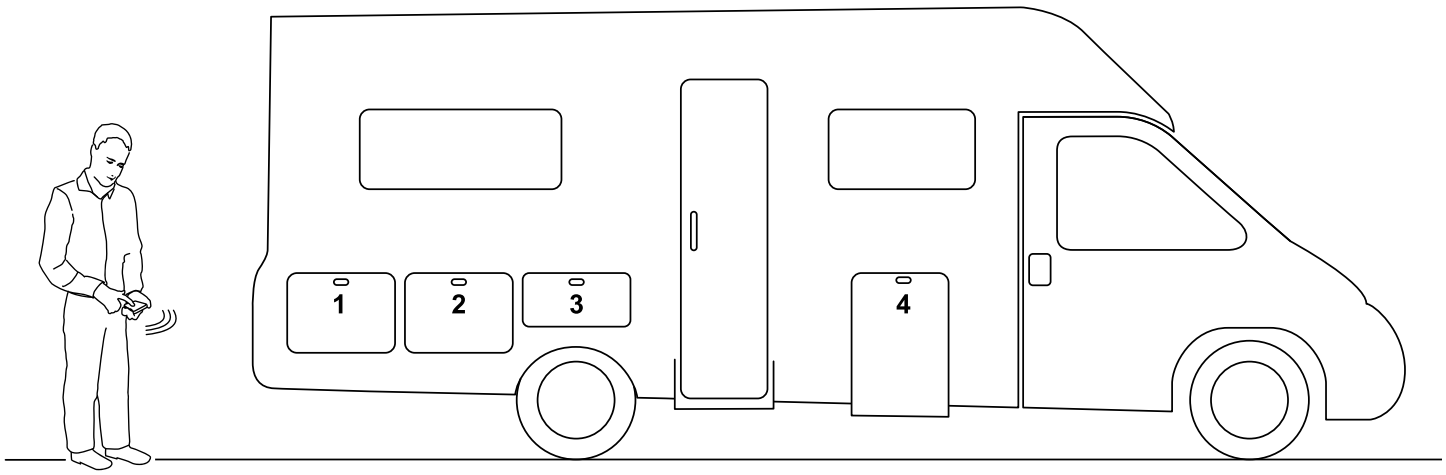
# Electromechanical flap lock



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# Chapter 5: Accessories

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# Content


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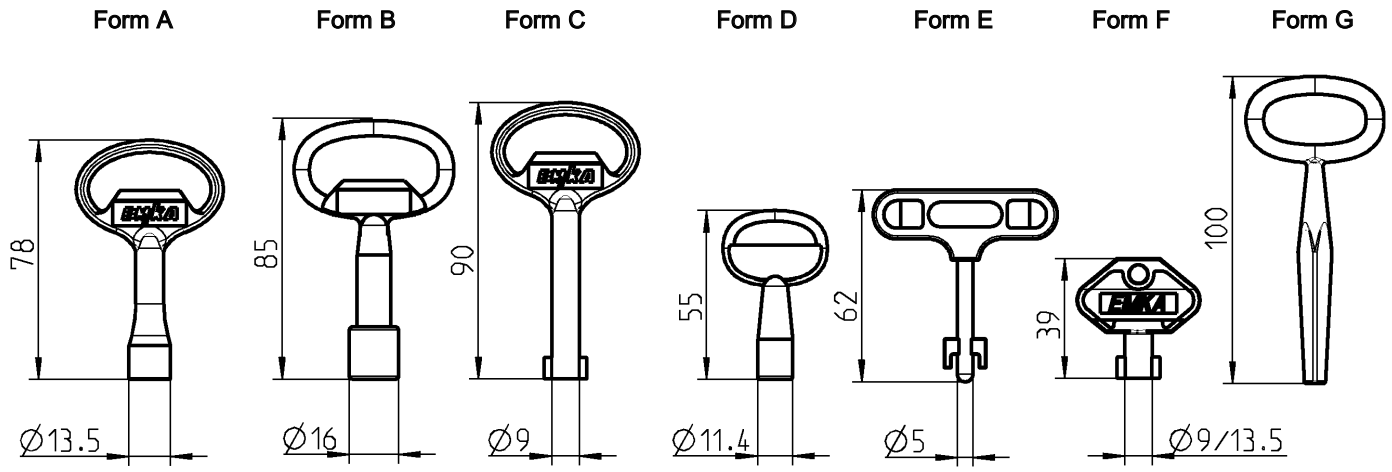
# Key
## *PROGRAM 1004*




Keys can be supplied on request with customer logo
Minimum quantity: Form A, B, C, D 2,000 pieces
Minimum quantity: Form E, F, H 5,000 pieces

| Key-Form | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| | Zinc die black | Zinc die black | Zinc die black | Zinc die black | zinc die/ polyamide | Polyamide GF | GTW nickel plated |
| Square 6 | 1004-18 | – | – | 1004-20 | – | 1004-37 | – |
| Square 7 | 1004-01 | – | – | – | – | 1004-36 | – |
| Square 8 | 1004-02 | – | – | – | – | 1004-35 | – |
| Triangular 6,5 | – | – | – | 1004-21 | – | – | – |
| Triangular 6.5mm CNOMO | 1004-26 | – | – | – | – | – | – |
| Triangular 7 | 1004-03 | – | – | – | – | 1004-39 | – |
| Triangular 8 | 1004-04 | – | – | – | – | 1004-38 | – |
| Triangular 10 | – | 1004-24 | – | – | – | – | – |
| Crown type | – | 1004-31 | – | – | – | – | – |
| Eastern Europe Ø13 half round | – | 1004-42 | – | – | – | – | – |
| Double bit 3 | – | – | 1004-05 | – | – | 1004-34 | – |
| Double bit 5 | – | – | 1004-06 | – | – | 1004-33 | – |
| Male hexagon 11.1 with indicator | – | 1004-54 | – | – | – | – | – |
| Daimler Benz | 1004-17 | – | – | – | – | – | – |
| FIAT | – | – | – | – | 1004-41 | – | – |
| Square male 6 | 1004-29 | – | – | – | – | – | – |
| Square male 8 | 1004-30 | – | – | – | – | – | – |
| Square male 6 – 9.5 | – | – | – | – | – | – | 1004-19 |
| Hexagon head 8 with boring | 1004-49 | – | – | – | – | – | – |
| Tube | – | – | – | 1004-51 | – | – | – |

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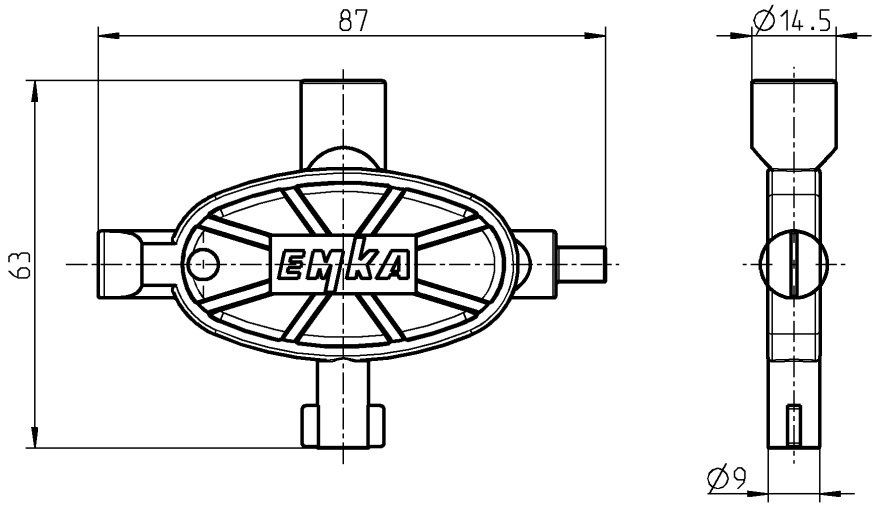
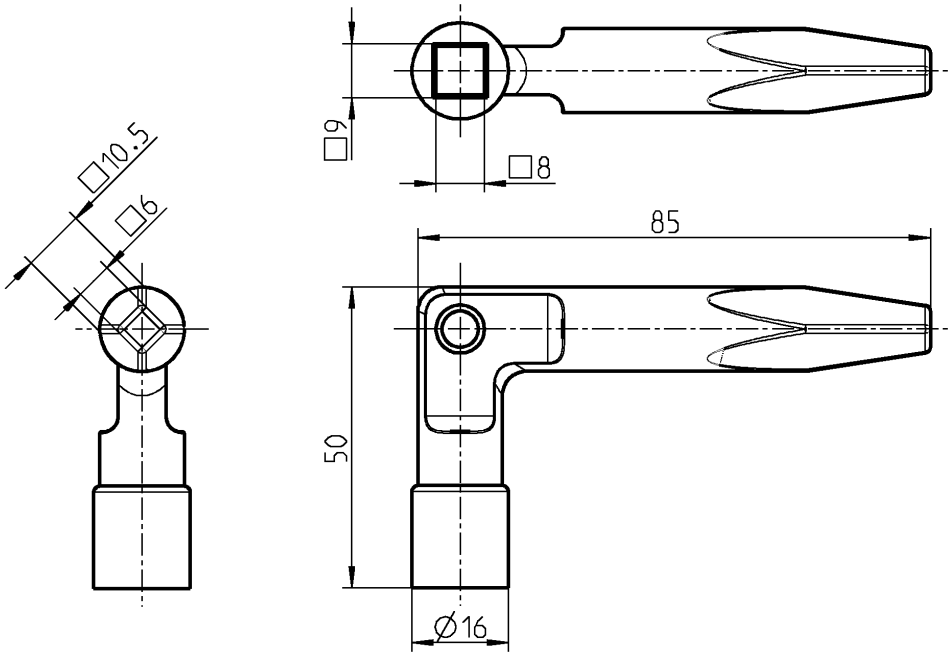
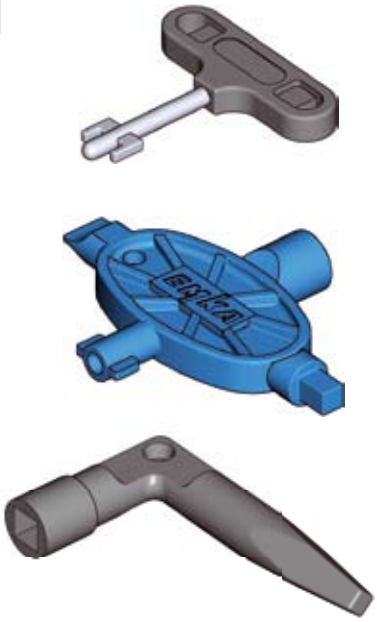
## Form H



| Form H, universal-key polyamide blue | |
|---|---|
| Square male 6, square 8, double bit 5 and slot insert | 1004-48 |

## Form I



| Form I, railway version, zinc die black | |
|---|---|
| Square 8 - 9, square male 6 - 10.5 | 1004-52 |

Stainless steel key
on request

**Further parts see page**
– Quarter turns 1.5-140
up to 1.5-520

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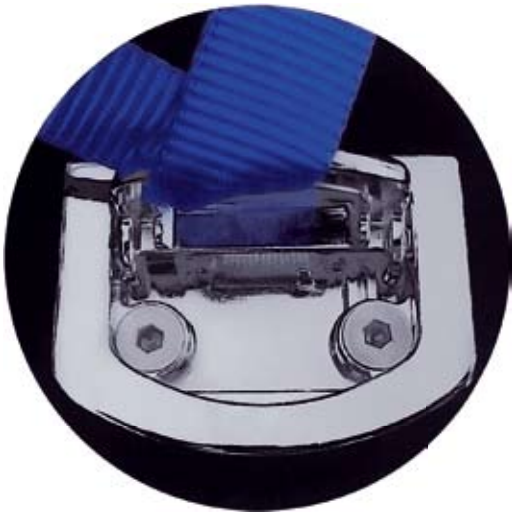
# Retractable loop

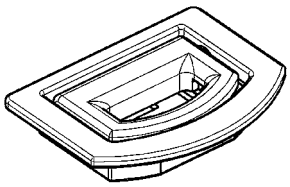
*PROGRAM 5291*

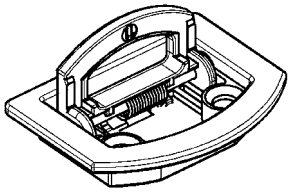
Item without bracing

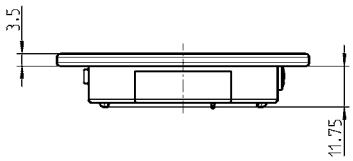
Complete item with bracing

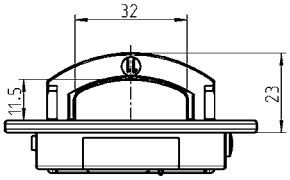
## Detail: Loop and belt

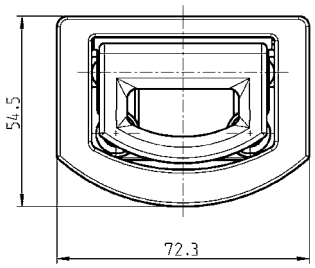


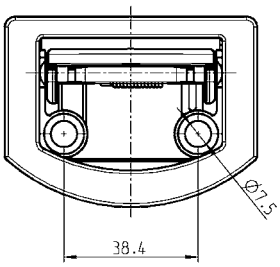


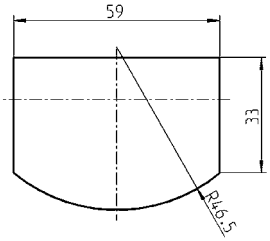





Cut out

- e.g. for suitcases, bicycles and pushchairs
- retrofittable for all vehicles
- robust die-cast zinc construction, chrome
- accessable
- depending on surface resiliant up to 3,000 N (300 kgs)
- further colours upon request

| | |
|---|---|
| **Loop chrome plated** | |
| with latching cams | 5291-U500-IA |
| without latching cams | 5291-U501-IA |
| **Loop zinc die chrome plated, mounting plates steel zinc plated** | |
| without latching cams | 5291-U701-IA |





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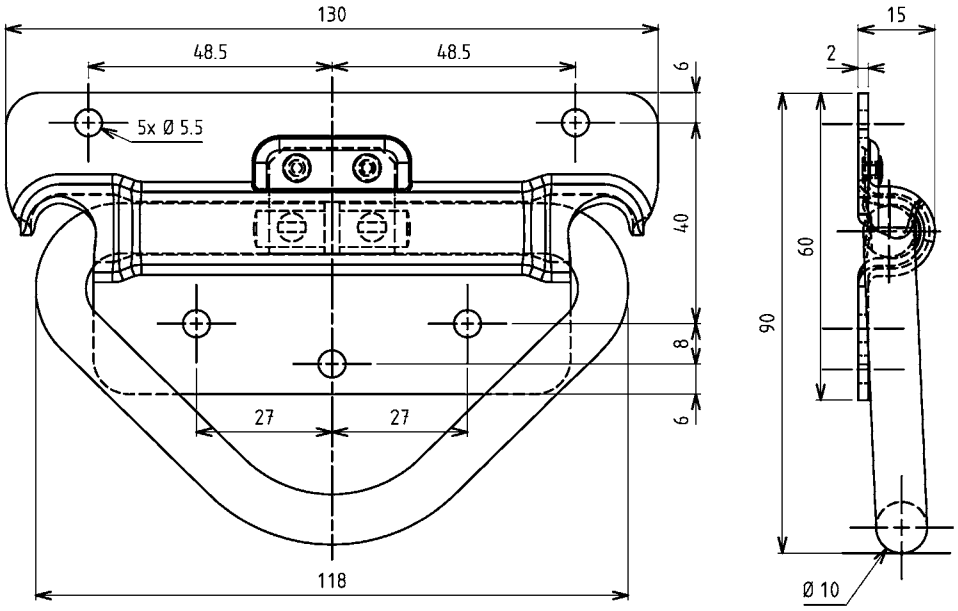


| Slinging ring | |
|---|---|
| | with leaf spring |
| Zinc plated steel DS plus Top Coat drilled | 6040-U80-JQ |
| AISI 304 drilled | 6040-U80-PC |

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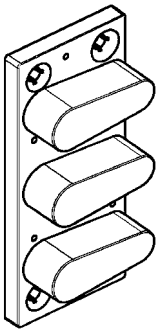
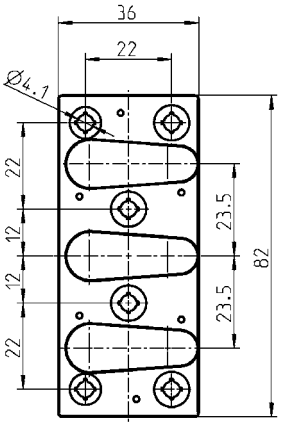
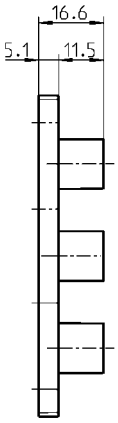
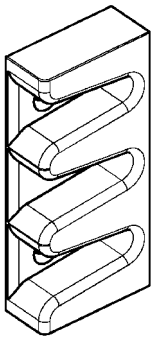
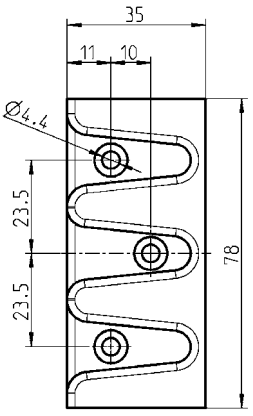


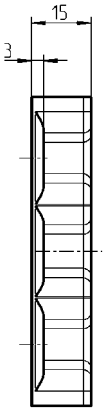



| Dove tail zinc die with rubber coating self lubricated | |
|---|---|
| | 8900-SB12-01 |






| Dove tail zinc die raw | |
|---|---|
| | 8900-S331-03KA |



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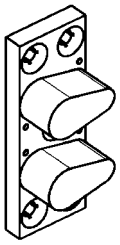
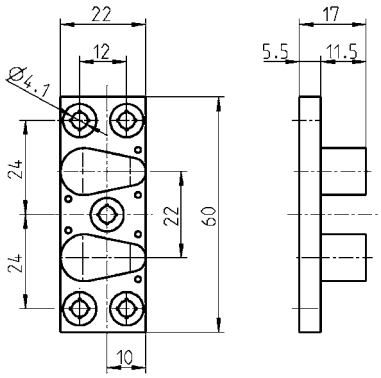
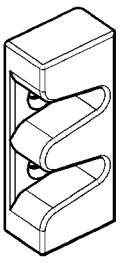
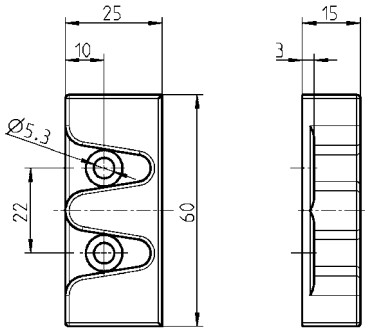




| Dove tail zinc die with rubber coating self lubricated | |
|---|---|
| | 8900-SB11-01 |





| Dove tail zinc die raw | |
|---|---|
| | 8900-S330-03KA |

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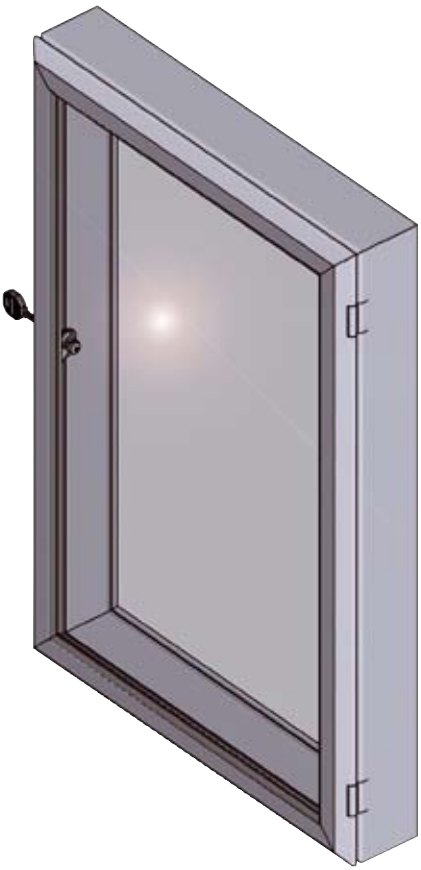
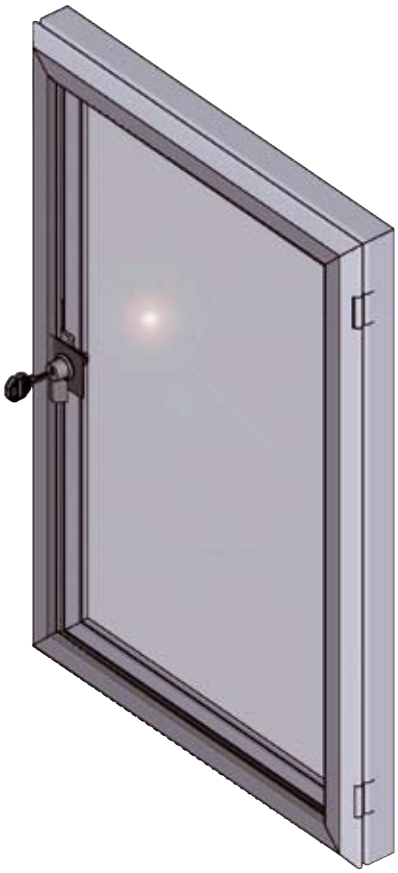
# Aluminium window - with or without a frame

*PROGRAM 1200*

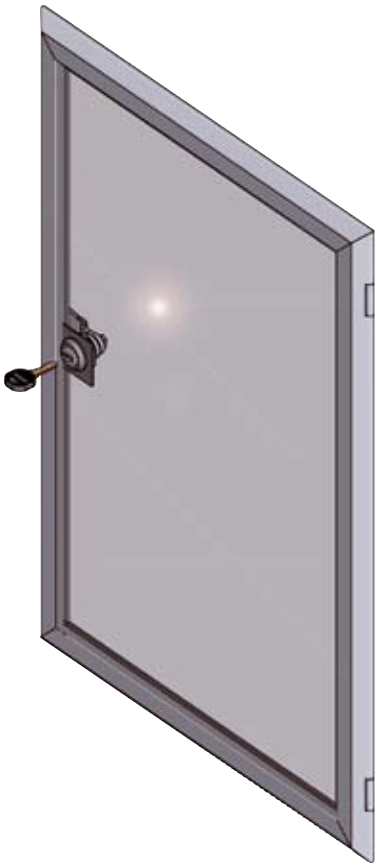
Aluminium window with 61 mm frame
available fully assembled



Aluminium window with 30 mm frame
available fully assembled



Aluminium window without frame
available fully assembled



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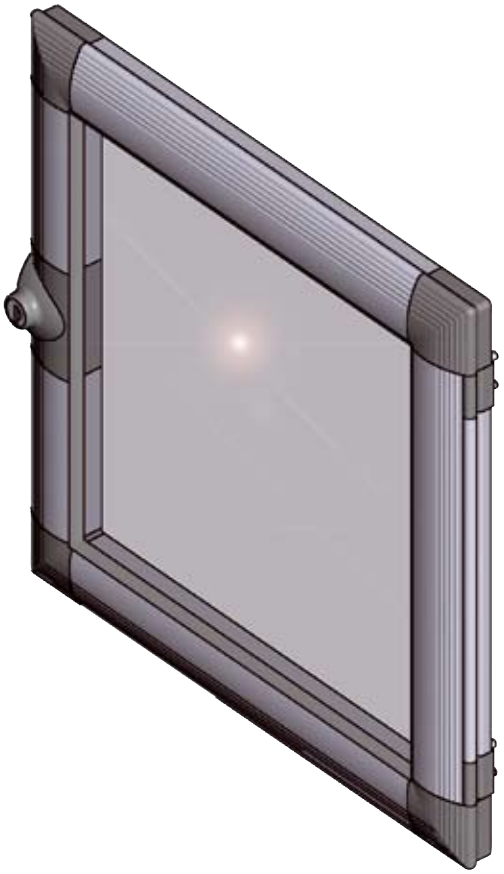
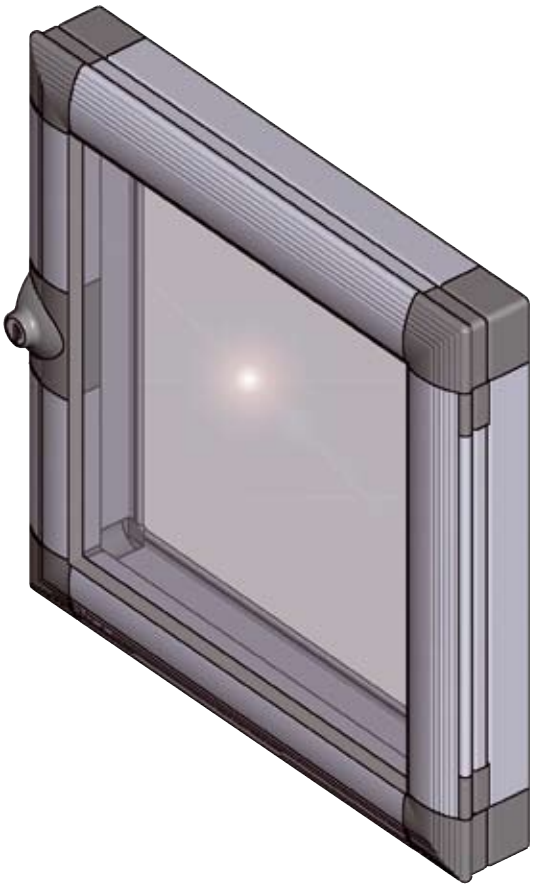
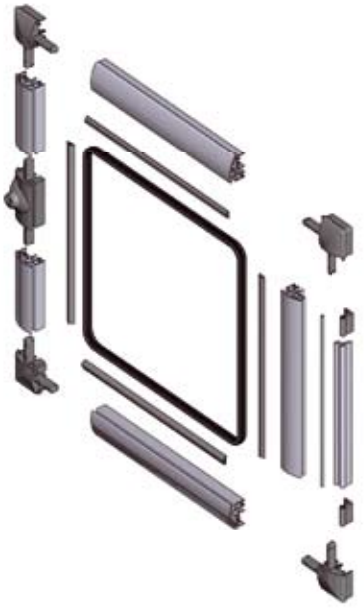
Aluminium window without frame
available fully assembled

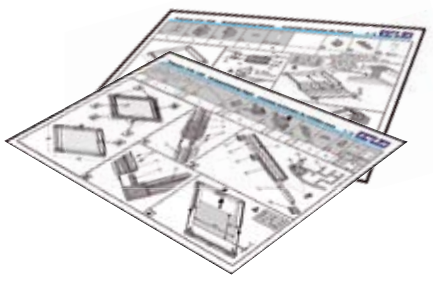


Aluminium window without frame
available fully assembled





Windows and frames unmounted
as assembly set



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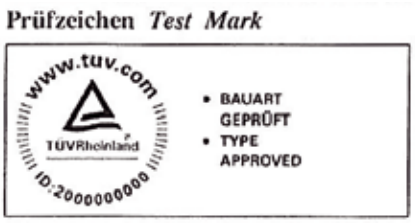
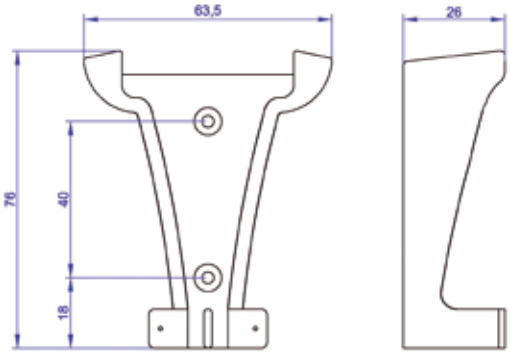
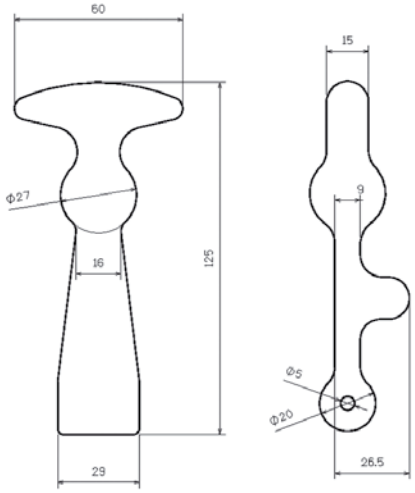
# Emergency hammer with holder
# Rubber bonnet catch
*PROGRAM 5225*

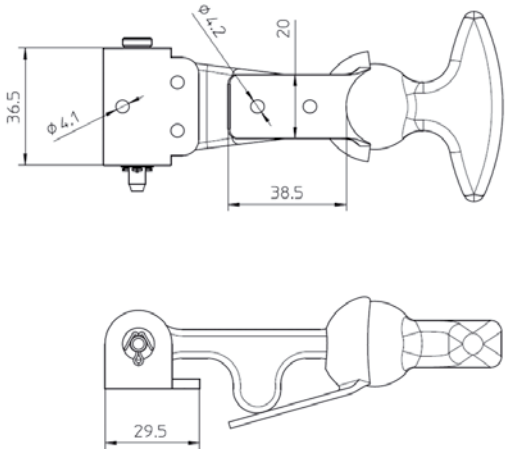





Emergency hammer material to fire test 95/28/EC Annex 4

| | |
|---|---|
| **Emergency hammer polypropylene red, steel zinc plated with hardened insert on tip** | |
| | 5225-U305 |
| **Emergency hammer holder grey polypropylene** | |
| | 5225-03 |




| | |
|---|---|
| **Bonnet lock black rubber self greasing, steel parts chrome plated** | |
| without holder | 5225-02-AA |
| with holder | 5225-U201 |

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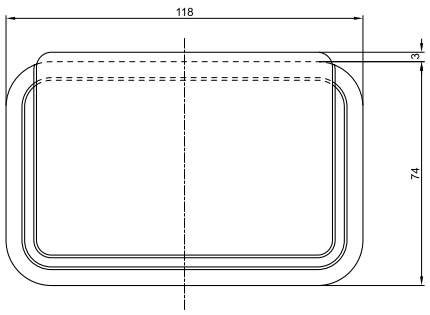
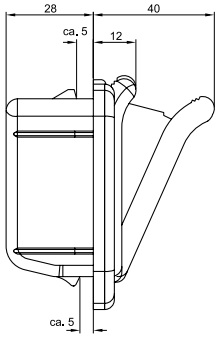
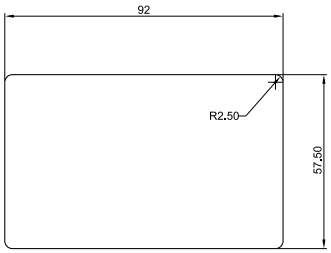
# Ashtray
# Cup holder
*PROGRAM 5225*

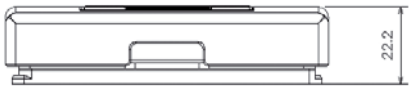


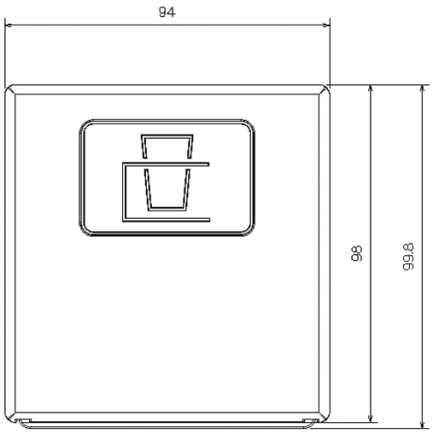






Cut out

| Clip-in ashtray housing thermoplastic black, ash container Thermoset black, embossed cover with steel detent spring | |
|---|---|
| | 5225-U300 |



| Cup holder polyamide 66 black | |
|---|---|
| Approx. 70 mm diameter | 5225-U301 |



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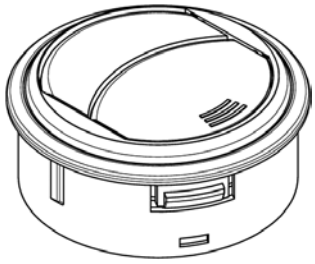
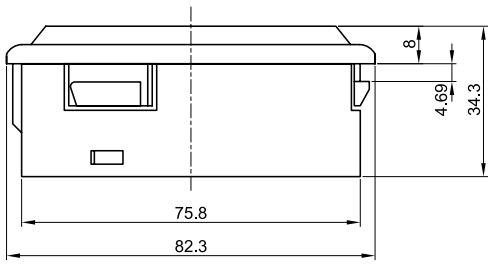
# Clip in vents

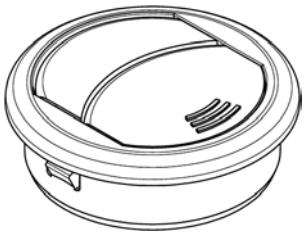
## *PROGRAM 5225*

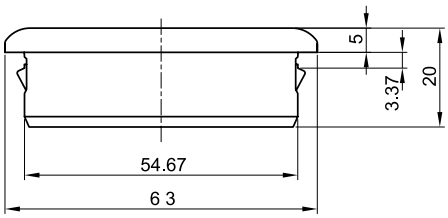





Infinitely adjustable and rotating

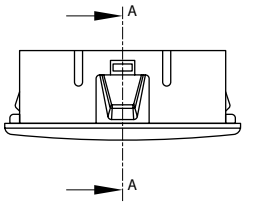
| Clip in ABS vent | |
|---|---|
| Black housing | 5225-U302-AA |
| Housing RAL 9006 | 5225-U302-BK |

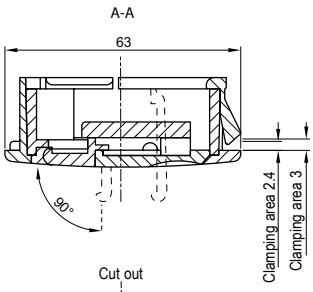


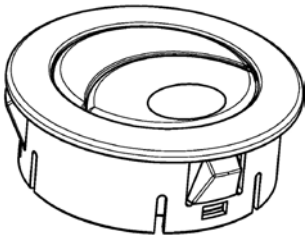


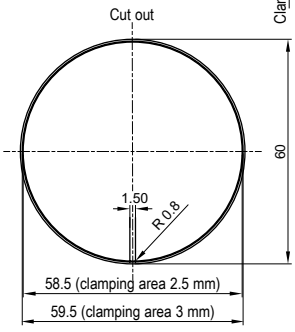

Infinitely adjustable, non rotating

| Clip in black ABS vent | |
|---|---|
| | 5225-U303-AA |






Infinitely adjustable and rotating

| Clip in black ABS vent | |
|---|---|
| | 5225-U304-AA |





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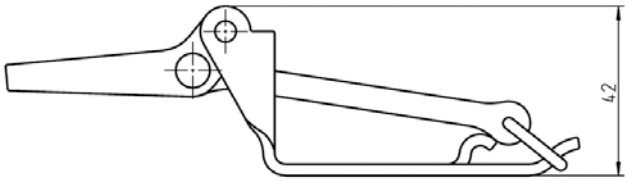
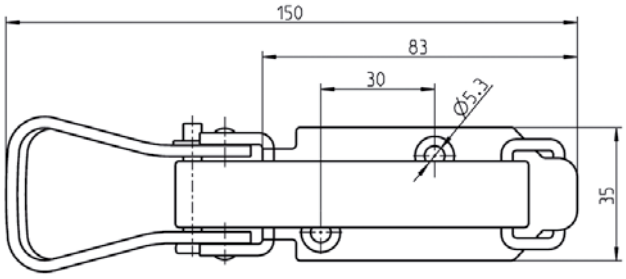
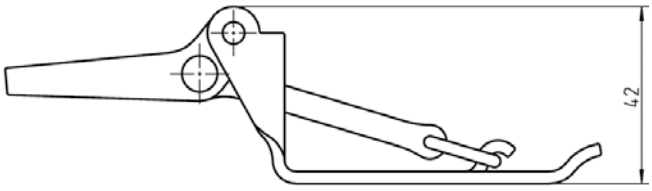
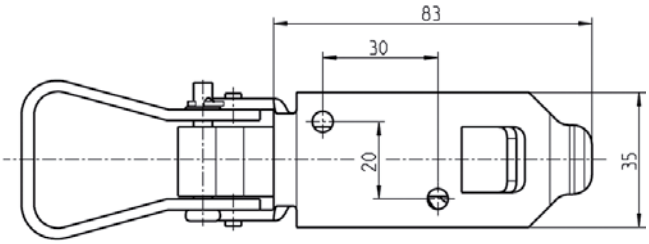
# Stowage clamp for axe
# Stowage clamp for spade
*PROGRAM 5225*





| Stowage clamp for claw axe with coating from selection with black rubber strap | |
|---|---|
| Green | 5225-U306 |
| zinc plated | 5225-U306-JB |
| CDP coated black | 5225-U306-IL |





| Stowage clamp for spade with coating from selection with black rubber strap | |
|---|---|
| Green | 5225-U307 |
| zinc plated | 5225-U307-JB |
| CDP coated black | 5225-U307-IL |

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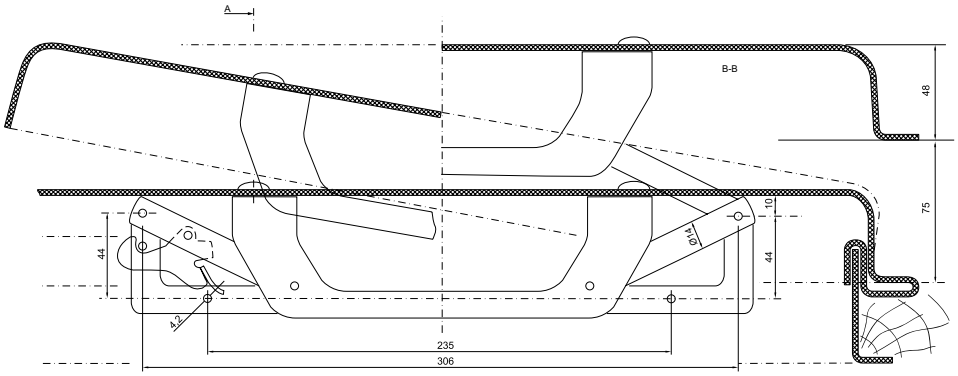
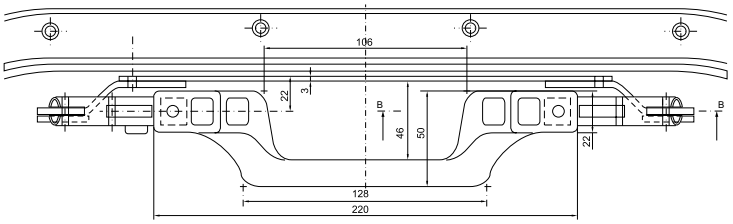
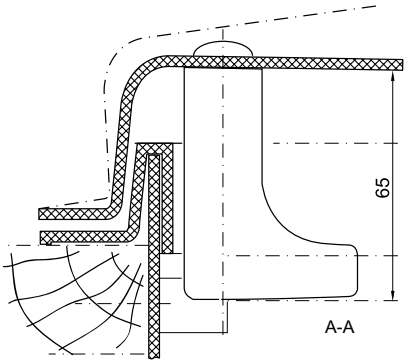
# Roof hatch opener with catch

*PROGRAM 5124*




- with catch
- white powder coated, RAL 9010

| | |
|---|---|
| **Roof hatch opener white polypropylene, RAL 9010; mounting bracket m.s. powder coated white, RAL 9010; catch m.s. zinc plated** | |
| | 5124-U853-HA |





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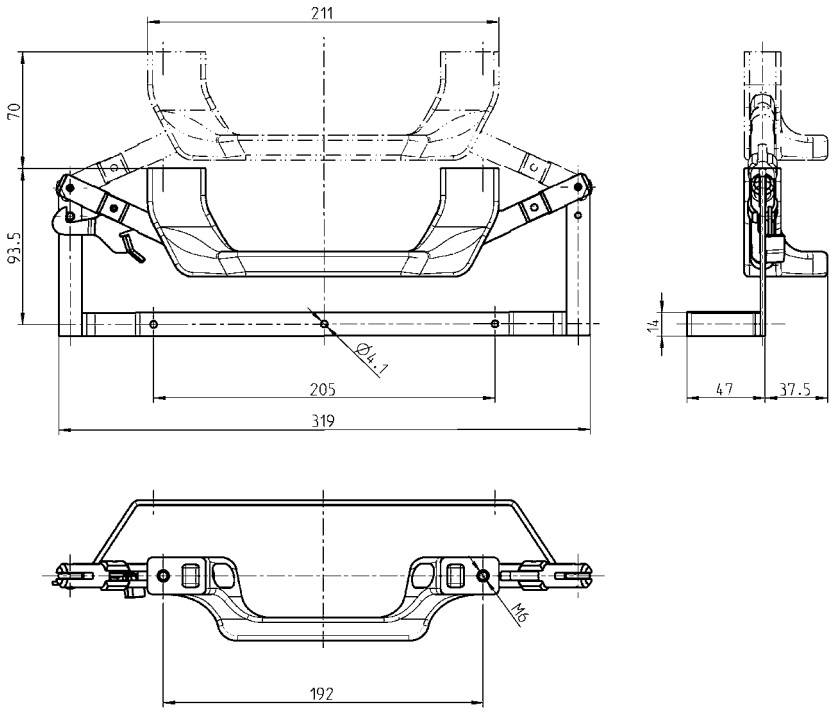
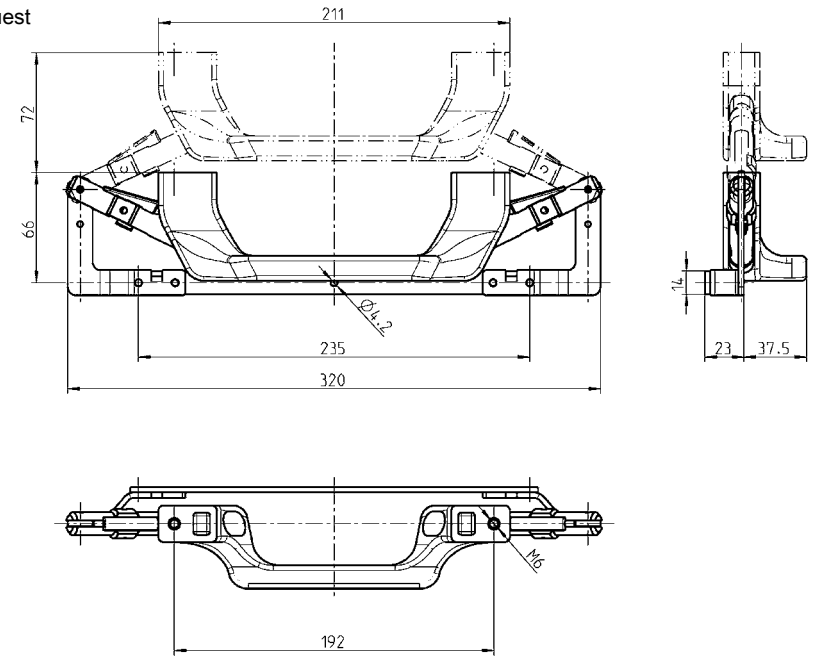
# Roof hatch opener with and without catch

*PROGRAM 5124*



on request




| | |
|---|---|
| **Roof hatch opener natural polypropylene; mounting bracket and catch m.s. zinc plated** | |
| without catch | 5124-U856-JB |
| with catch | 5124-U857-JB |
| **Roof hatch opener white polypropylene, RAL 9010; mounting bracket m.s. powder coated white, RAL 9010** | |
| | 5124-U850-HA |
| **Roof hatch opener light grey polypropylene; mounting bracket m.s. zinc plated 2 locking slides polyamide light grey** | |
| | on request |

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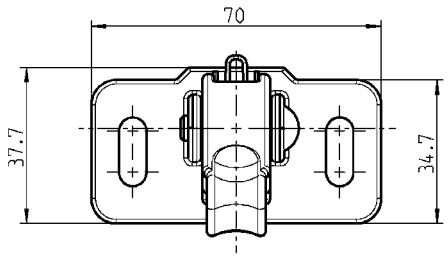
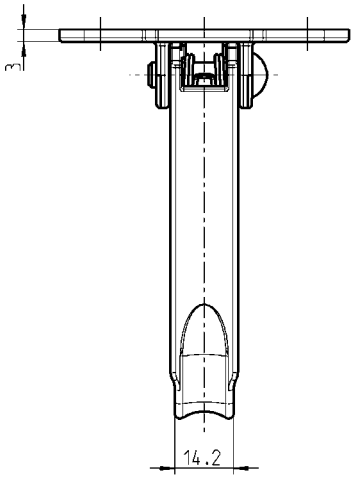
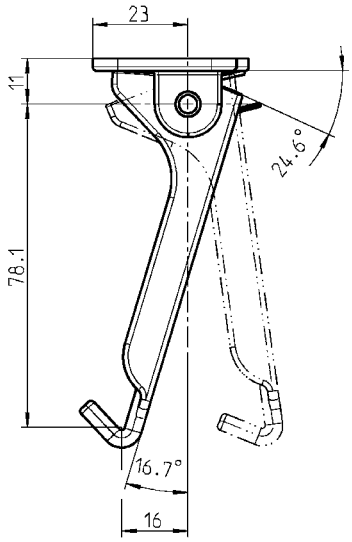
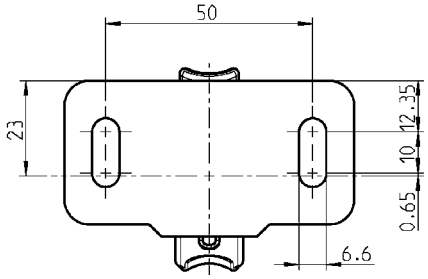
# Tail hook

## *PROGRAM 5225*




| Tail hook AISI 316; spring and half-round rivet<br>stainless steel | |
|---|---|
| | 5225-U400 |





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