



Ingenious Locking Technology
for Mobile Homes and Trailers



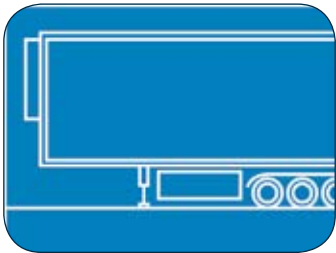
Mobile homes



Caravans



Horse trailers



Trailers

Pictograms

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

EMKA Group		Chapter 2 Hinges	80
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- Headquarters
- Production site
- Subsidiary
- Agencies/Sales office



EMKA worldwide



Wuppertal, Germany



Velbert, Germany



Birmingham, England



Bourré, France



Henriville, France



Arnedo, Spain



Pastrengo, Italy



Mionica, Serbia



Goražde, Bosnia and Herzegovina

The EMKA GROUP is world market leader for locks and latches, hinges and gasketing used in switch and control cabinets. The company is also among the leading manufacturers of locking technology in the fields HVAC technology and transport.

The more than 15,000 items are developed, manufactured, refined and assembled at ten production sites in Germany, France, England, Spain, Italy, Bosnia and Herzegovina.

The company is represented in 52 countries employing more than 1,450 employees.

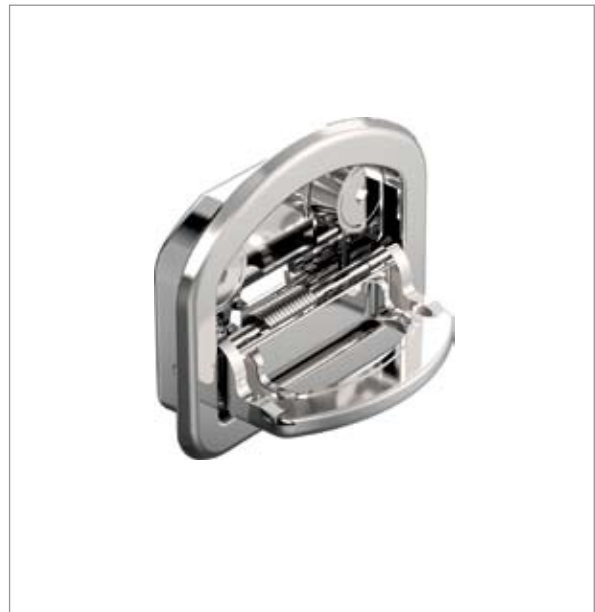
Locks/Latches



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.



Industry

Transport

Electronics

Production

Business units

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

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



Injection Moulding



Punching, bending
and metal working



Zinc Die Casting



SST Precision Casting

Production from A to Z



PUR foam technology



Surface treatment



Extrusion of Profiles



Assembly of profiles

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

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 and caravan / motor home 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.

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



Solutions for the road



Special vehicles for horse- and freight transport, 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.



BMW



Porsche



Ferrari



Porsche



VW



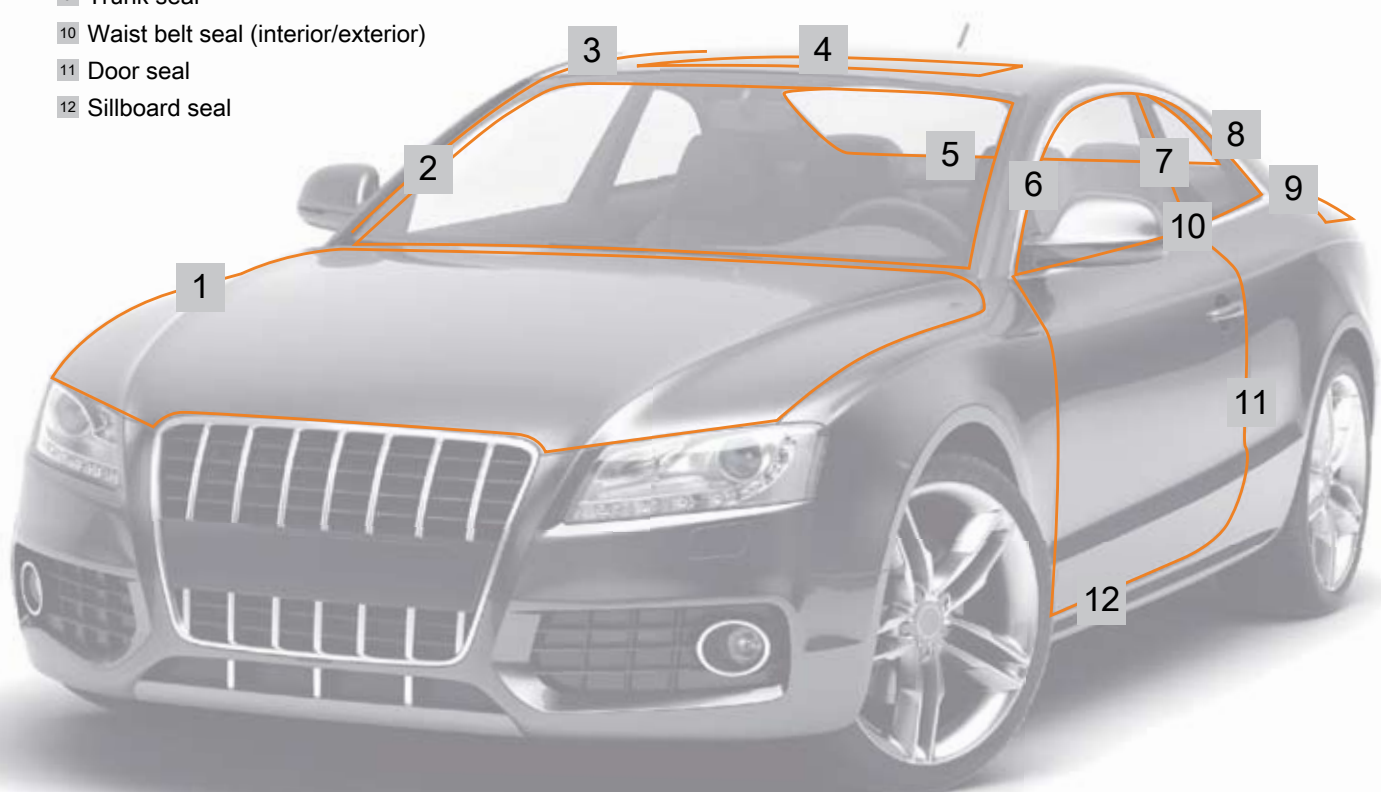
Bentley



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.

DNV·GL

MANAGEMENT SYSTEM ZERTIFIKAT

Zertifikat-Nr.: 194710-2016-AQ-GER-DAKKS	Datum der Erstzertifizierung: 16. Februar 2013	Gültig: 16. Februar 2016 - 15. September 2018
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Hiermit wird bescheinigt, dass das Unternehmen

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

Managementsysteme in Übereinstimmung mit diesen Standards eingeführt hat:

**ISO 9001:2008
ISO 14001:2004**

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

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

Ort und Datum:
Essen, 11. Februar 2016



Deutsche
Akkreditierungsstelle
D-ZM-18453-01-00

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

Thomas Beck
Leiter Zertifizierungsstelle

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



Quality assurance

DNV GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
194710-2016-AQ-GER-DAkkS

Initial certification date:
16. February 2013

Valid:
16. February 2016 - 15. September 2018

This is to certify that the management system of

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

has been found to conform to the Management System standards:

**ISO 9001:2008
ISO 14001:2004**

This certificate is valid for the following scope:

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

Place and date:
Essen, 11. February 2016

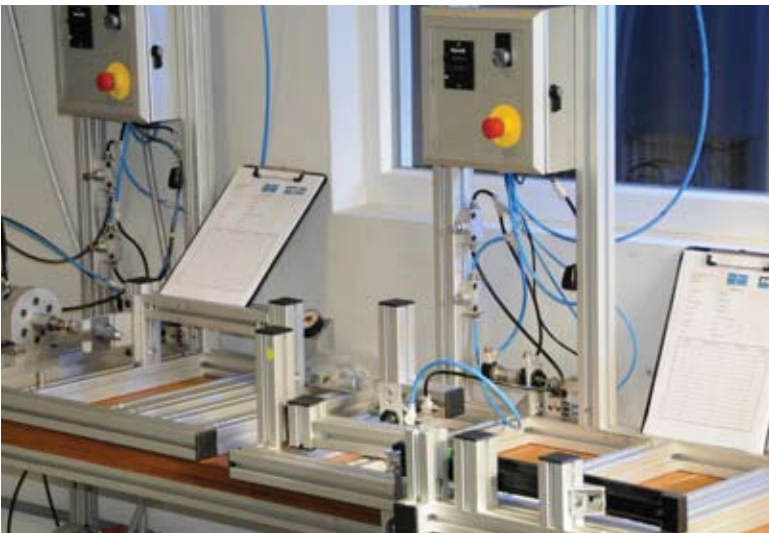


DAkkS
Deutsche
Akreditierungsstelle
D-ZM-18453-01-00

For the issuing office:
DNV GL - Business Assurance
 Schnieringhof 14, 45329 Essen, Germany


Thomas Beck
 Technical Manager

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



The high quality and product standards are guaranteed by excellent manufacturing know-how and by the certified process control according to ISO 9001. The in-house tool and mould making as well as state-of-the-art development, manufacturing and testing methods ensure a maximum of product quality and reliability.

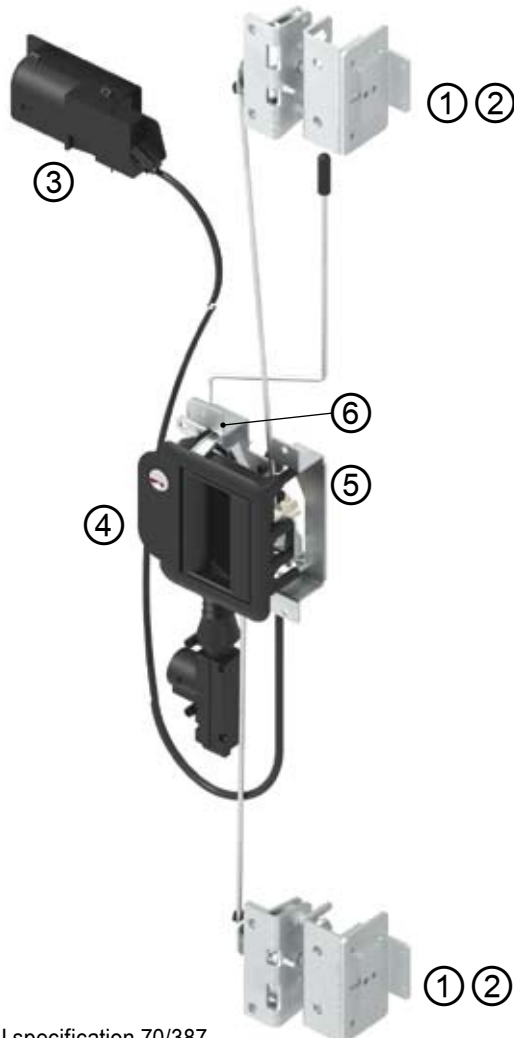
Chapter 1:

Latches and handles





System image



- ① rotary latch lock
- ② striking plate
- ③ interior handle
- ④ exterior handle
- ⑤ mounting bracket
- ⑥ lock shackle

Door locking system

Technology

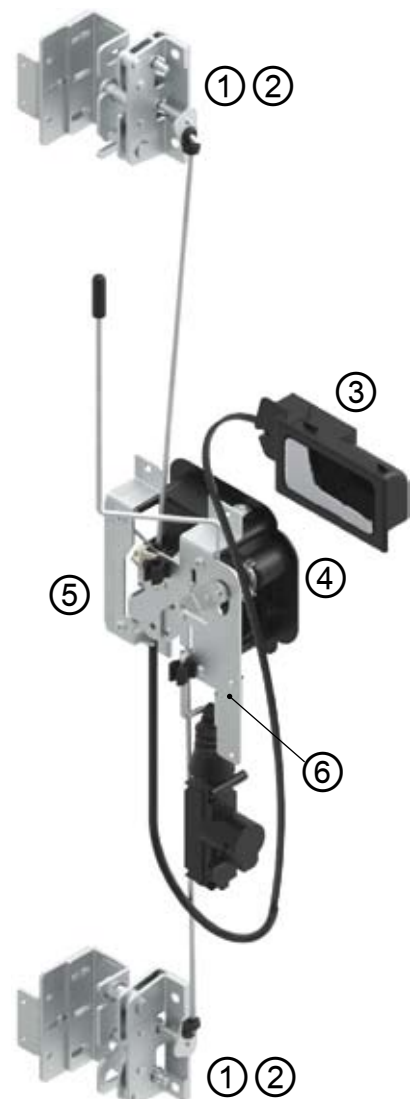
- M1 tested locking system, according to EU specification 70/387
- two rotary latch locks to be positioned freely, hence double security
- Automotive interior door release, zinc die chrome plated, can be positioned freely
- Burglar-proof by exterior handle with freewheel clutch
- Exterior handle designed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

Handling

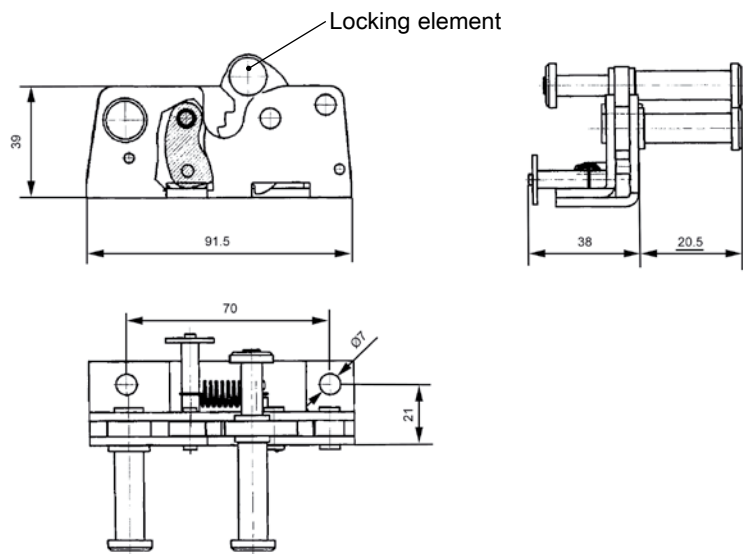
- ergonomically designed actuators
- specially smooth-running operation
- low closing force, hence very quiet
- with central locking, comfortable and secure

Versions

- colours as per request
- also available as M1 tested locking system with rotary latch lock
- Interior door release with galvanized surface in alu matt-finished look
- designed for clip-in cylinder, compatible with clip-in cylinder system 3
- optionally with positioning element for central locking
- Bowden control and round rods Ø4 available on request



Door locking system: 2-point-locking system PROGRAM 2004, 5177



Rotary latch lock m.s. zinc plated; with spring

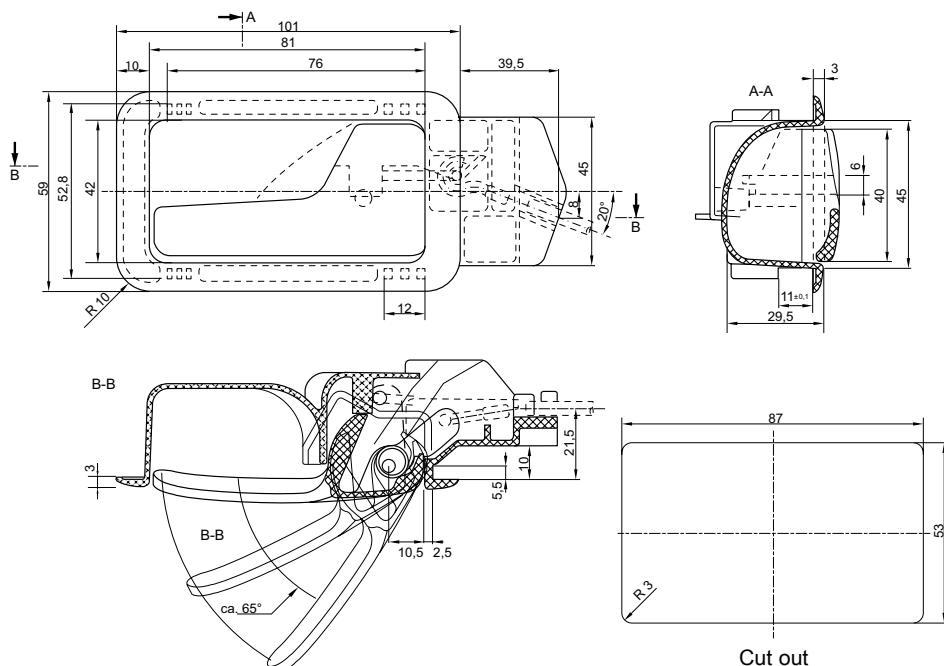
right, as depicted	2004-B8036
left mirror image	2004-B8031

Strike plate St zinc plated

right, as depicted	2004-B8034
left, mirror image	2004-B8027

On request:
– Round rod Ø4 available

Further parts see page
– Exterior handle 1.1-127
– Interior handle 1.1-125



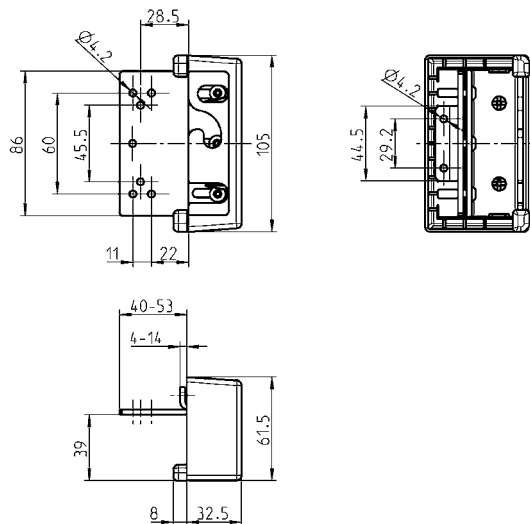
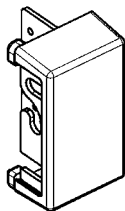
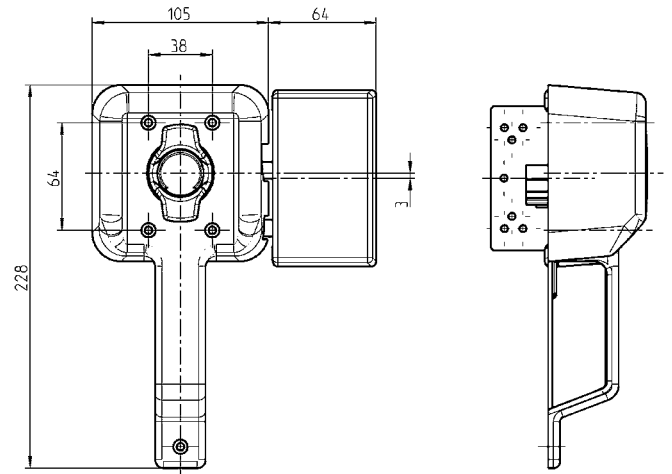
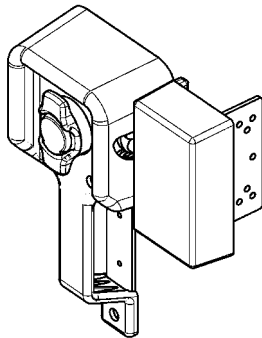
Note:
The cut out is to be adjusted to the respective application

On request:
– further colours
– bowden cable available

Interior handle polyamide GF black; handle zinc die matt chrome-plated; with spring

right, as depicted	5177-U200-AA
left, mirror image	5177-U201-AA

Further parts see page
– Exterior handle 1.1-127
– Rotary latch lock see above
– Striking plate see above



- according to Euro-Norm 70/387 EWG
- available in different colours and for different door thicknesses

Further parts see page
– Exterior handle see below

Interior lock polyamide black; case m.s. zinc plated;
clamp m.s. zinc plated; covering cap polyamide black; with spring

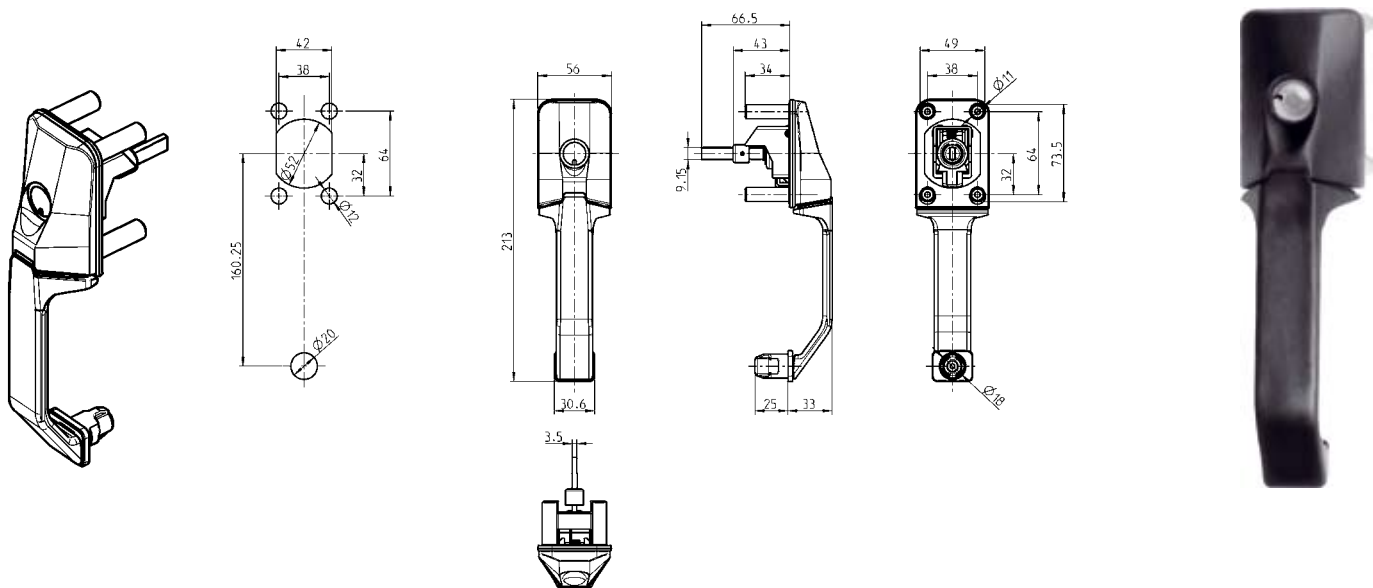
Door thickness = 30; right

9400-U218-AA

Door thickness = 30; left

9400-U219-AA

Interior lock; exterior handle PROGRAM 5271



Cut out

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

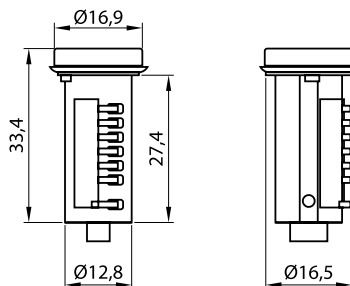
Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys

keyed 8888	9850-U100
keyed different	9850-U101

Further parts see page

– Interior lock

see above
1.1-150

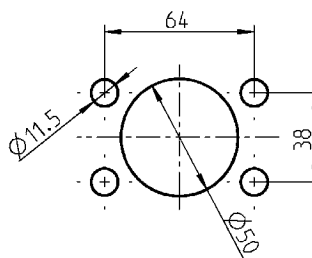
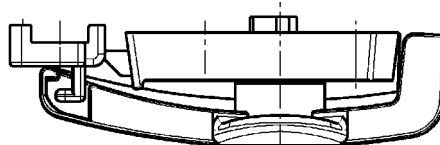
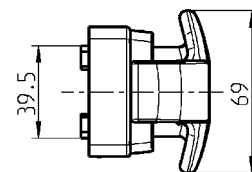
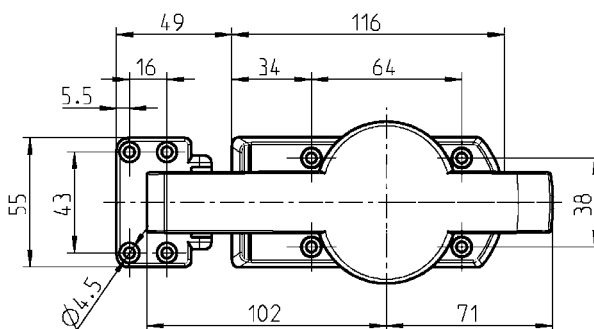
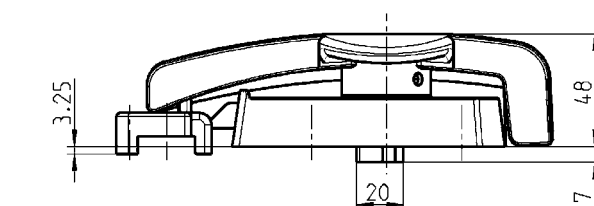


Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys

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

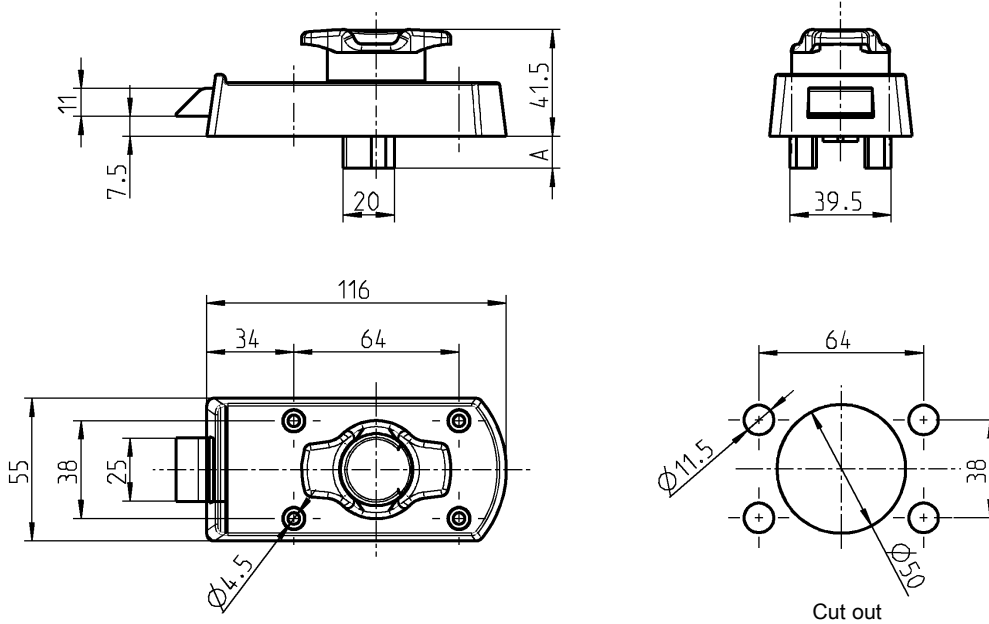
9500-U701-AC

Further parts see page

- Exterior handle 1.1-160
- Spacer plate 1.1-170

Interior lock

PROGRAM 5131, 9301



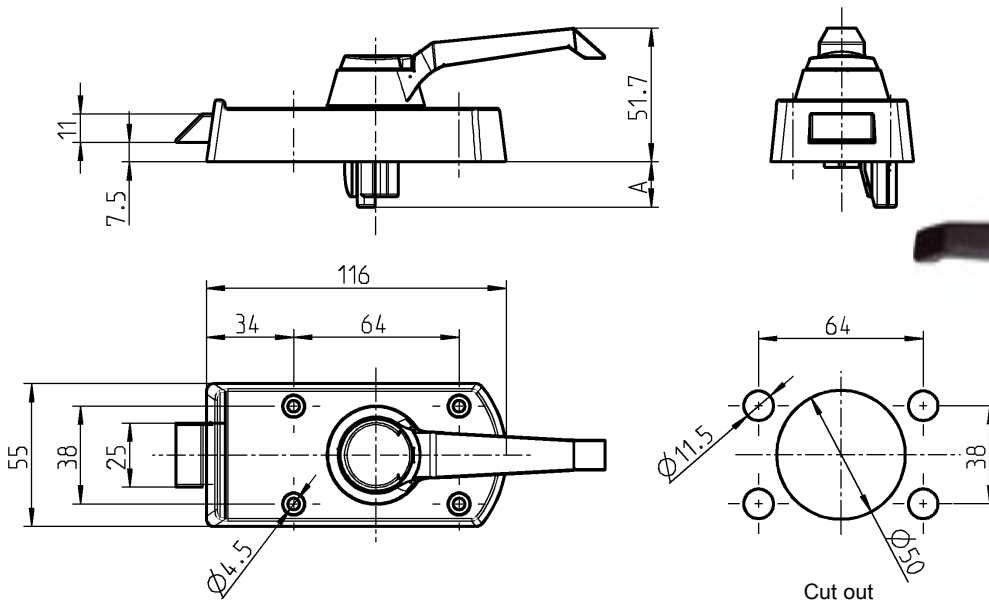
- available in various colours
- Please order clamp separately
- RH and LH application

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
Door thickness = 39 - 43; for (2)	14,5	9301-U815-AA	9301-U810-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



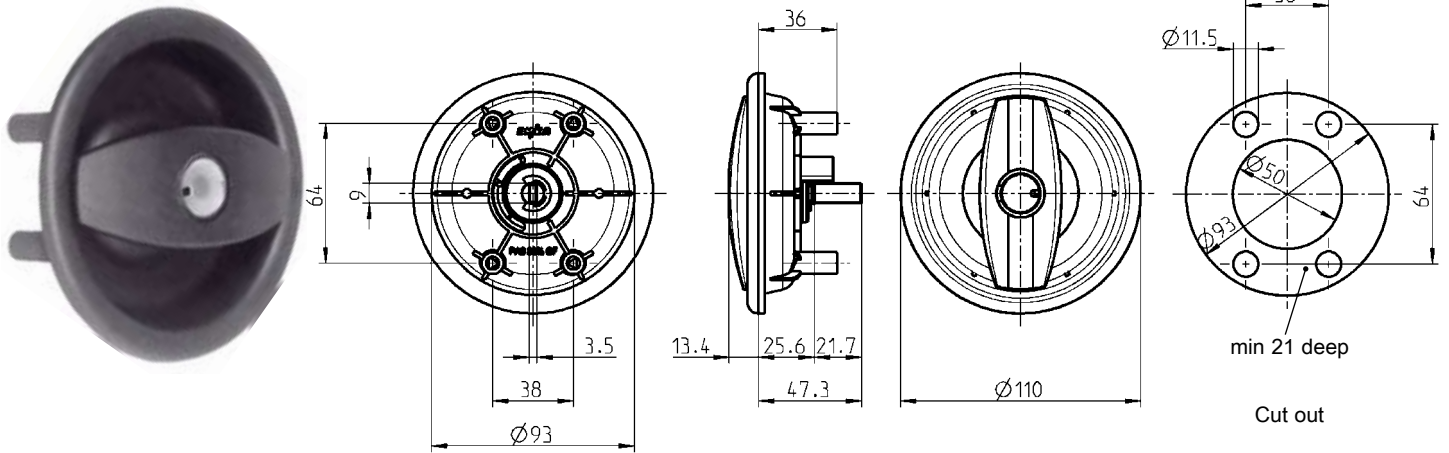
- available in various colours
- Please order clamp separately
- RH and LH application

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



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

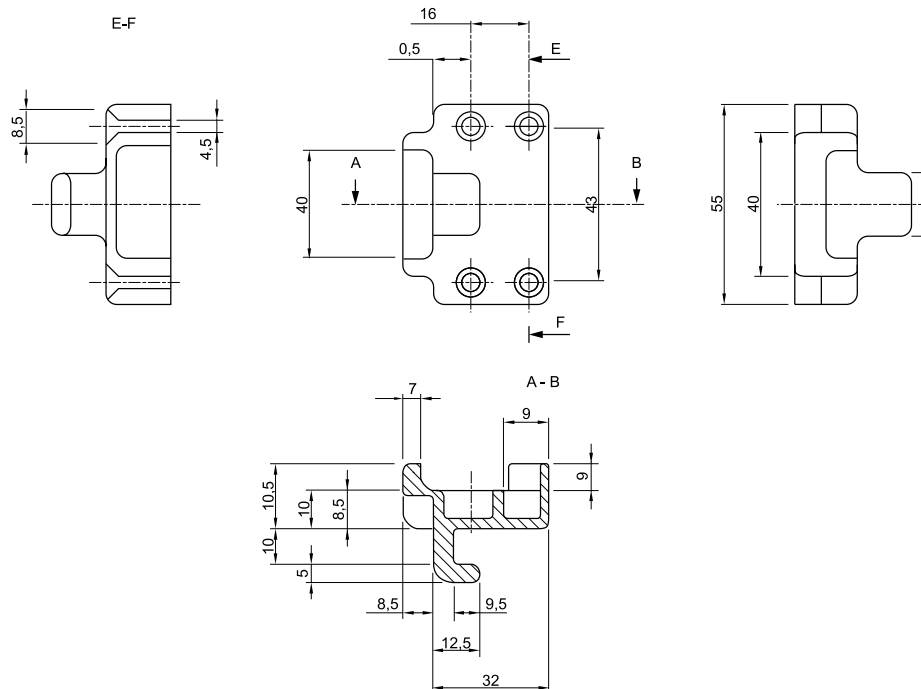
Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys

keyed 8888 9850-U100

keyed different 9850-U101

Further parts see page
– Interior lock

1.1-140
1.1-150



Further parts see page
– Interior lock

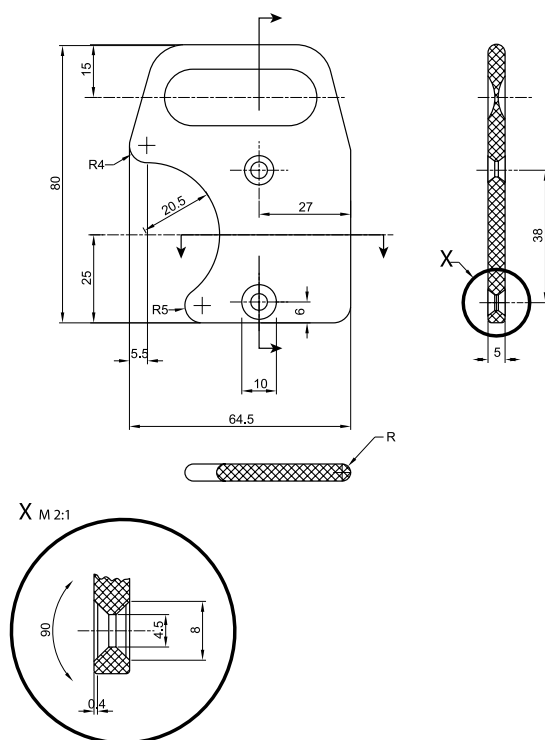
1.1-140
1.1-150

Clamp zinc die black; 4 plastic plugs

9500-U701-AC

Handle plate; spacer plate

PROGRAM 5131



- for interior locks
- Hole center distance 38 mm

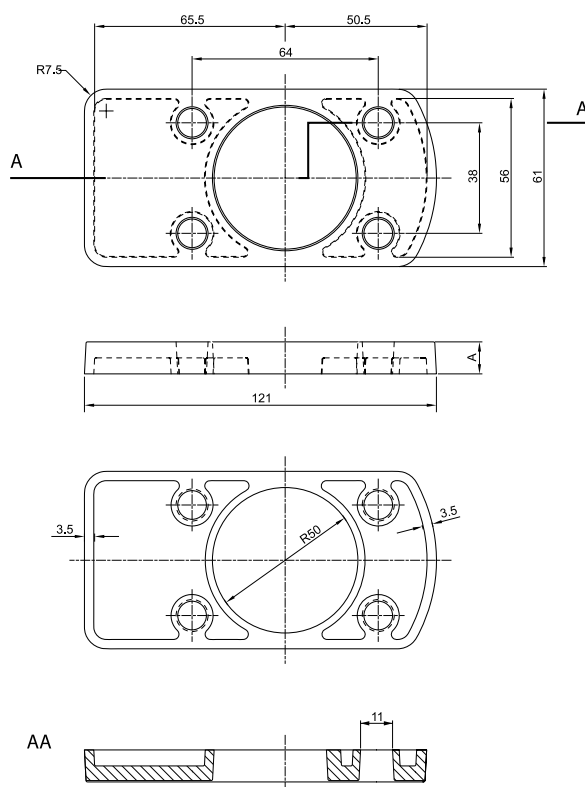
On request:
– further colours

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

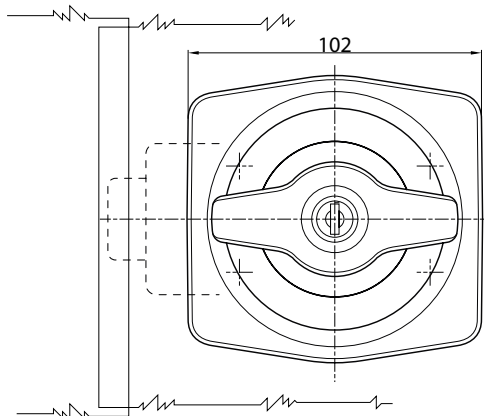
5131-4000-AA

A = 4 mm

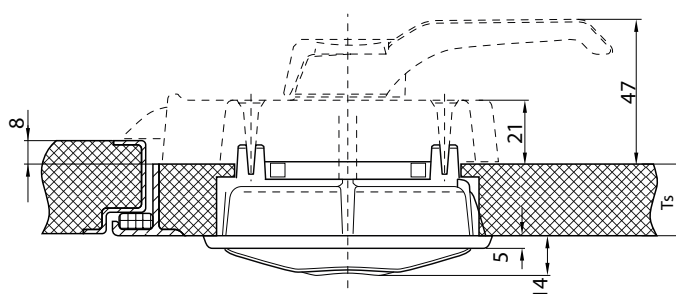
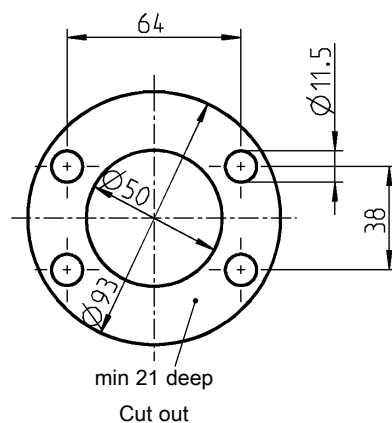
5131-4001-AA

Further parts see page
– Interior lock

1.1-140
1.1-150



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



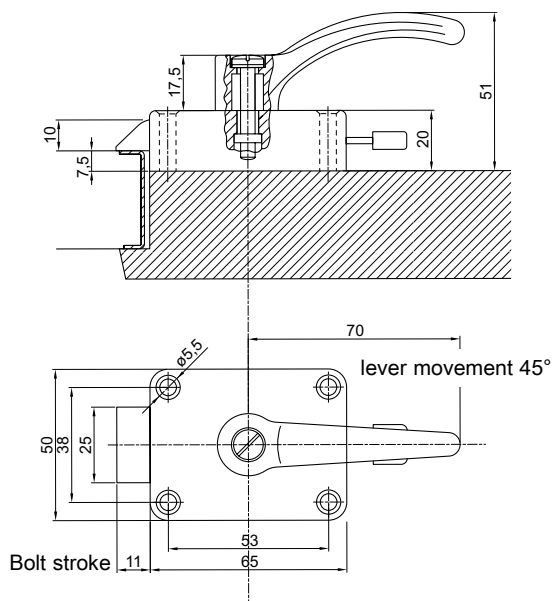
Exterior handle polyamide GF black; pivot stainless steel;
plate cylinder zinc die chrome plated with two keys; plate and screws m.s. zinc plated; with
spring

	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

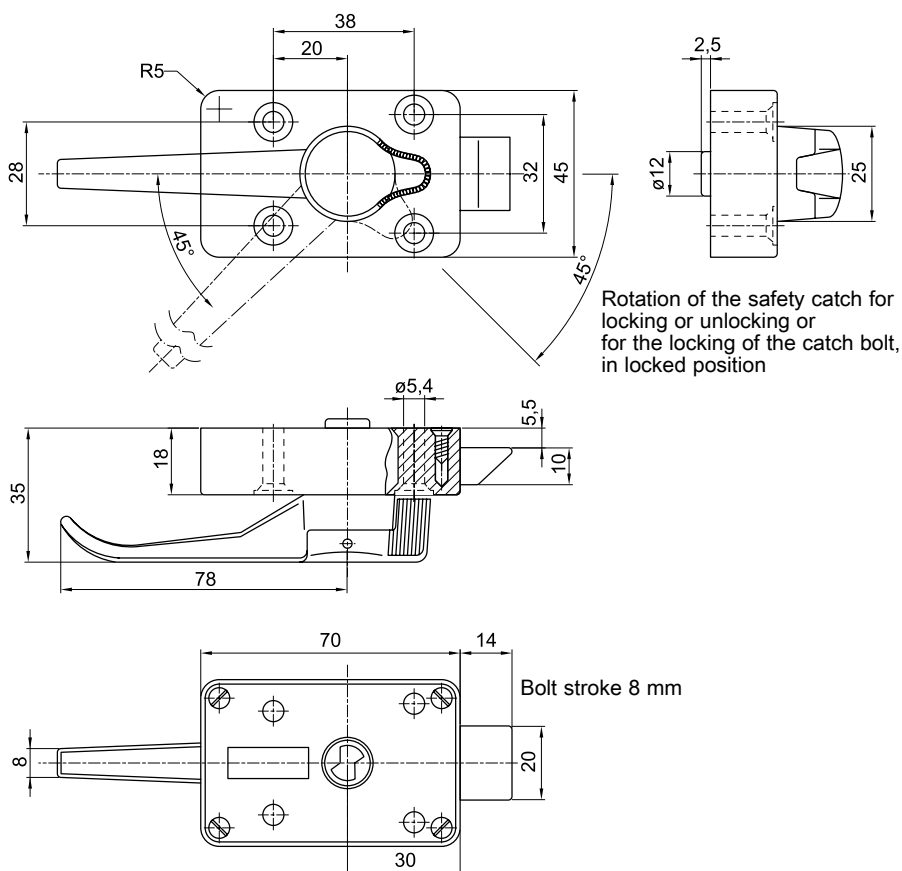
Interior lock PROGRAM 5036, 5064



- with inside handle and locking device

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

5036-U640-IK

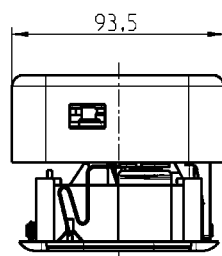
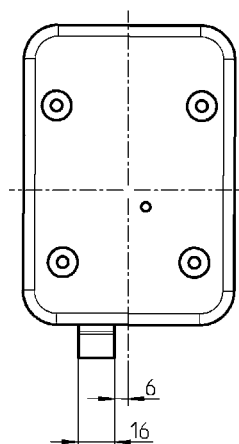
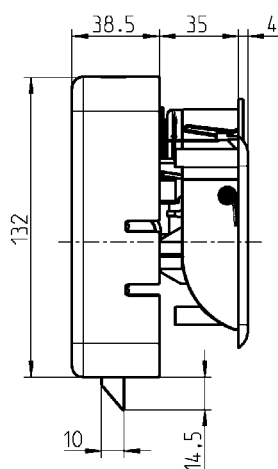
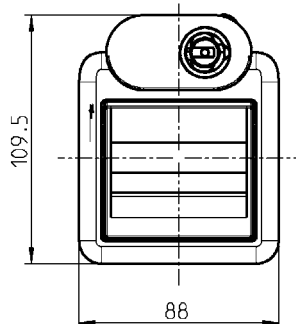
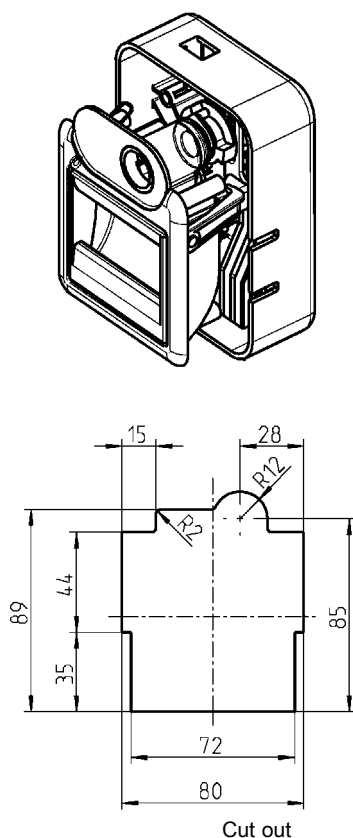


- with inside handle and locking device

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

5064-U647-IK

Flap lock PROGRAM 9802



Technology

- redesigned locking system with bolt locks
- Interior lock freely positionable
- Breakup assurance 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
- low 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

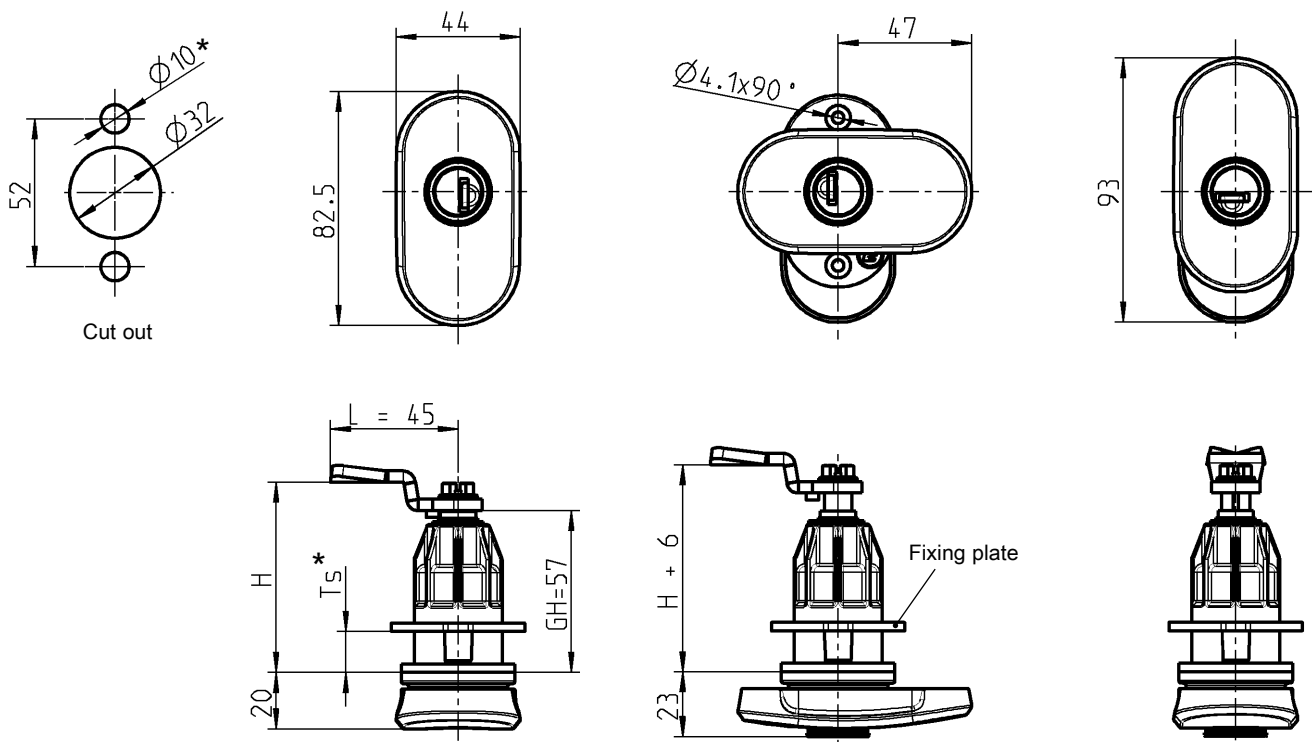
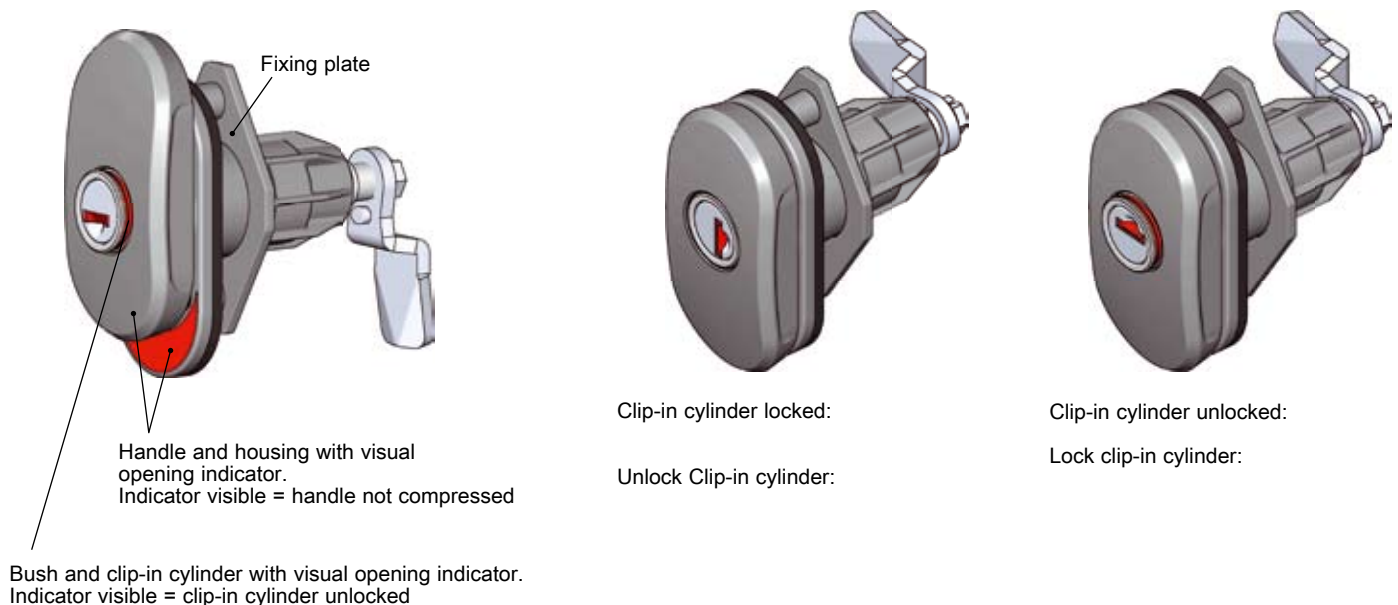
9850-U101

Compression latch "Double Red" with two-fold visual opening indicator for storage cases

PROGRAM 1000

Product description:

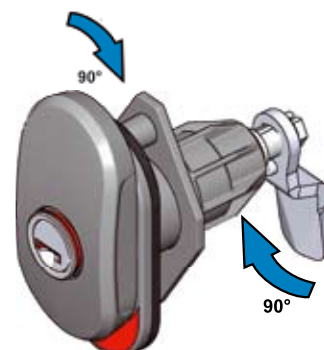
The compression latch has two visual opening indicators. These consist of the indicator of the clip-in cylinder and the second indicator for the position of the handle. If the opening indicator on the sleeve and the clip-in cylinder is visible, the compression latch is unlocked. The same is true for the opening indicator between handle and housing. If the opening indicator is visible, the compression latch is not compressed.



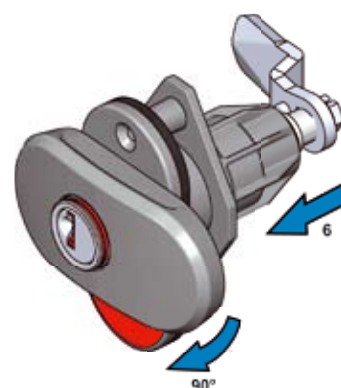
* Attention:
When the fixing plate is turned over, the cut out holes are decreased from $\phi 10$ to $\phi 4.1$. The maximum value of the Ts dimension is decreased by -10 mm.

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.



Open position
 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

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

Compression latch swinghandle for storage box

PROGRAM 1342

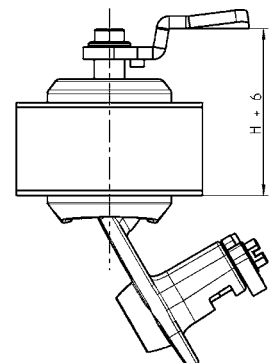
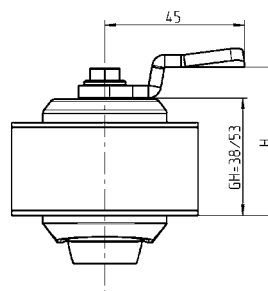
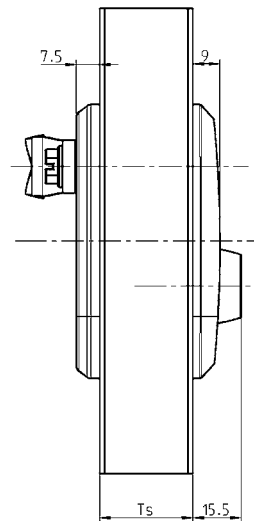
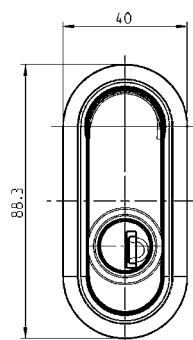
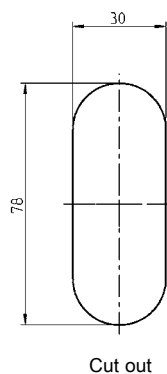
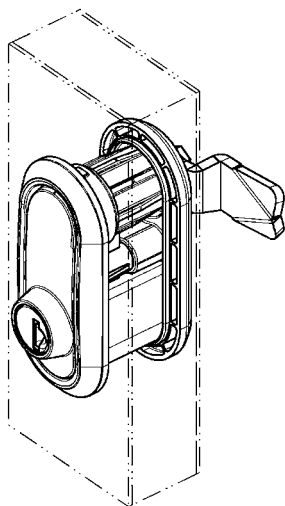
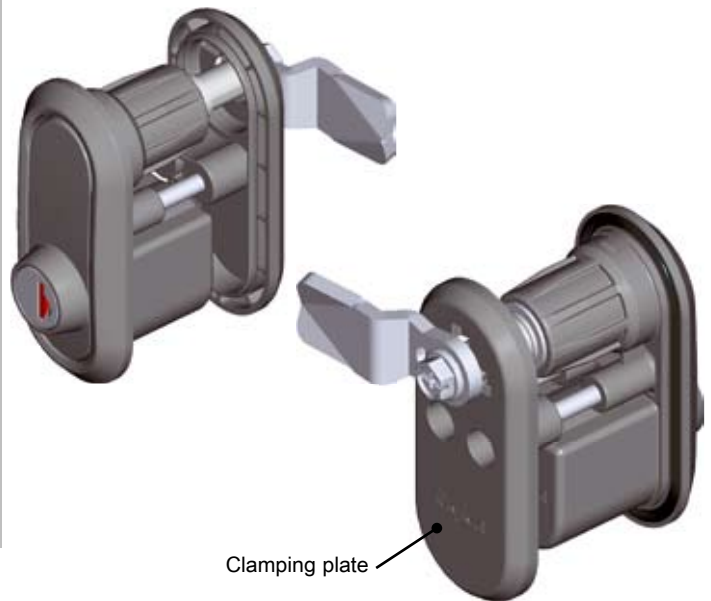
Vibration proof

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

for $T_s = 15 - 30 \text{ mm}$; $GH = 38 \text{ mm}$



for $T_s = 30 - 45 \text{ mm}$; $GH = 53 \text{ mm}$





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

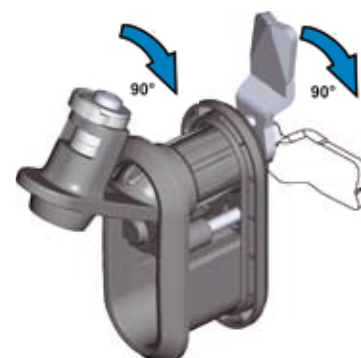
keyed 8888	9850-U100
keyed different	9850-U101

**To be ordered separately:
clamping plate polyamide GF black,
fixing material m.s. zinc plated**

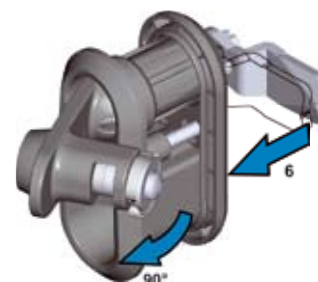
Ts = 15 - 21	1342-U3	Ts = 30 - 36	1342-U5
Ts = 21 - 30	1342-U4	Ts = 36 - 45	1342-U6

**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



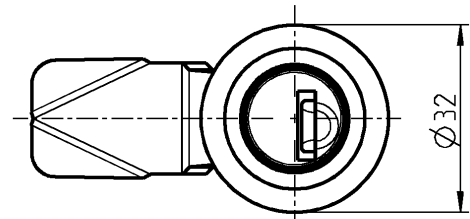
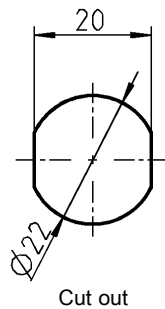
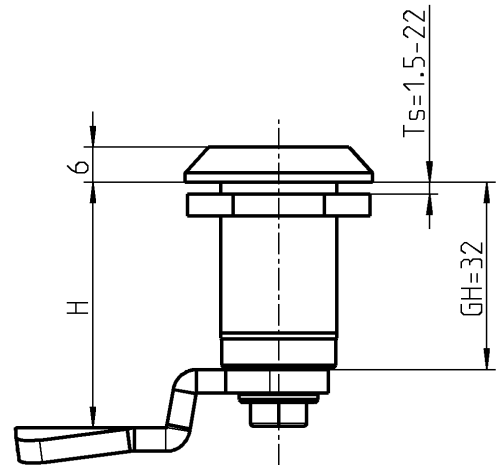
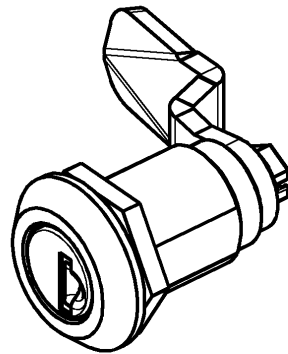
Open condition
By turning the handle by 90°, the cam rotates.



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



Compressed condition
Unlock:
Reversed rotation



As a supplementary measure for vibration proof fastening
the serrated washer 1000-103 can be used.

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

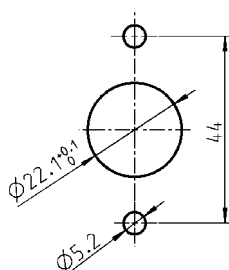
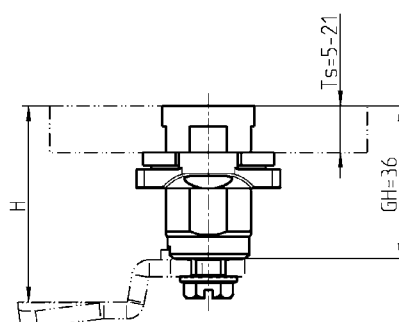
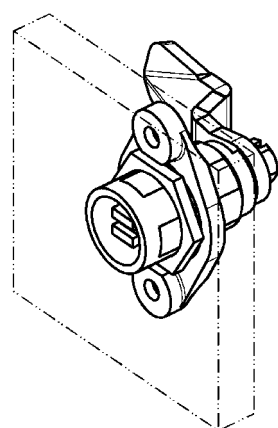
Further parts see page

– Cam without catch 1.2-400
– Dust cap 1.4-250

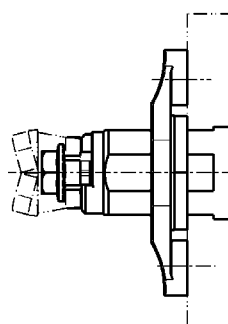
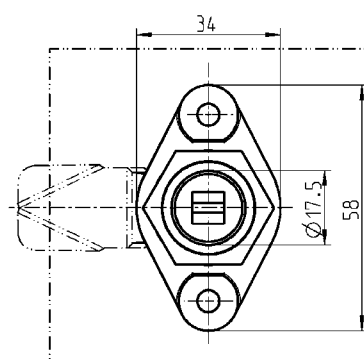
Quarter turn for clip-in cylinder;
housing zinc die surface of your choice;
adapter zinc die raw; nut and screw m.s. zinc plated

	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	1000-U875-03	on request
serrated lock washer m.s. zinc plated		
		1000-103
Clip-in cylinder system 3 zinc die chromated with stainless steel cap; with 2 keys		
keyed 8888		9850-U100
keyed different		9850-U101

Quarter turn for flush mounting PROGRAM 1000



Cut out



Quarter turn for flush mounting
housing and insert squart 8 zinc die chrome-plated; anti-twist guard AISI 304;
nut and screw m.s. zinc-plated; with seal

1057-U3

Further parts see page
– cam with catch
– Key

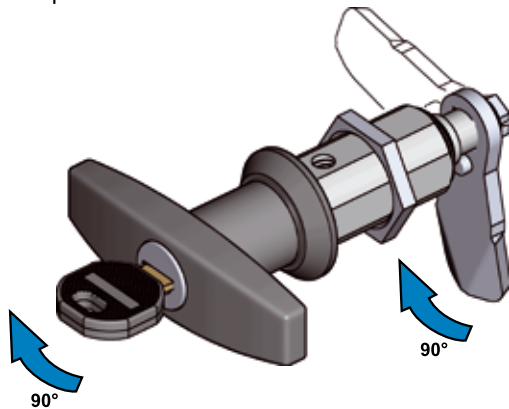
1.2-400
1.2-420

Compression latch with handle

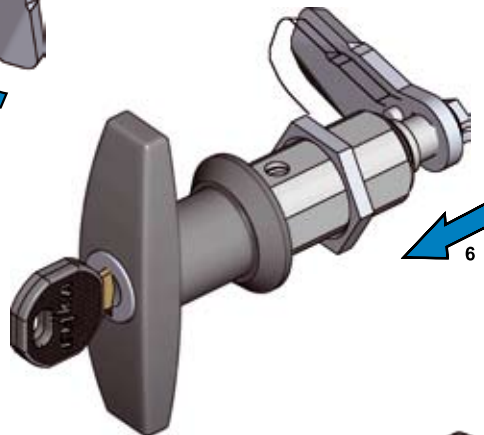
PROGRAM 1000



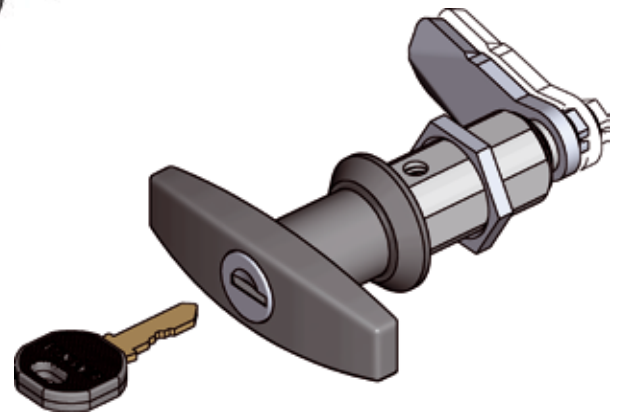
Compression T handle



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



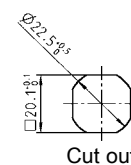
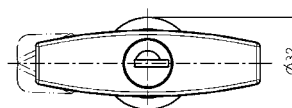
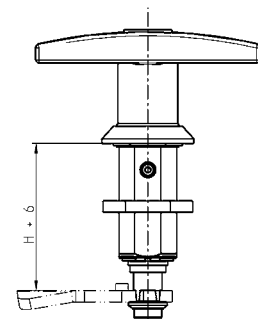
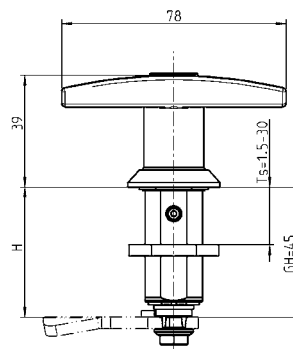
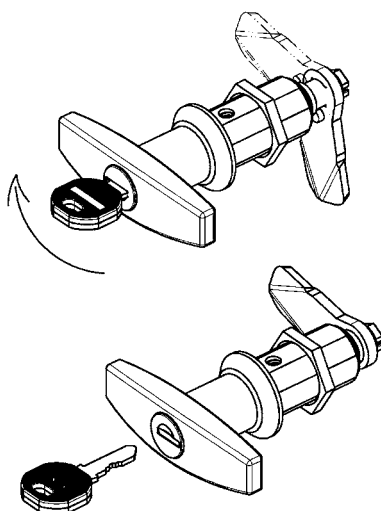
Closed position
The second 90° of rotation draws the cam 6mm axially towards the door.



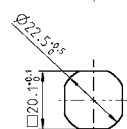
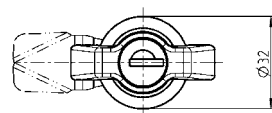
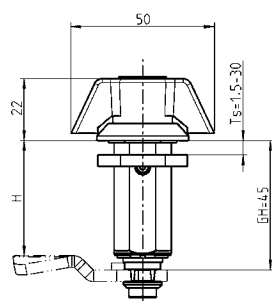
Compressed condition
Key removable

Unlock:
Reversed rotation

Compression latch with T-handle

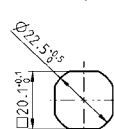
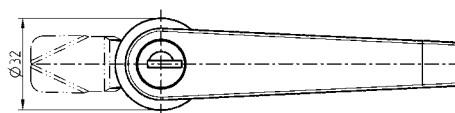
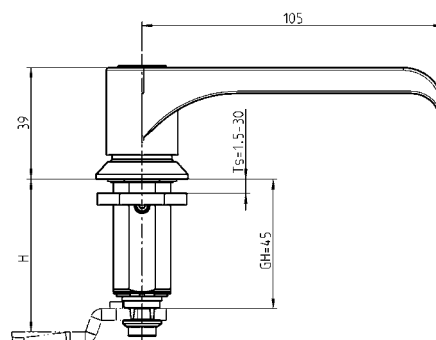


Compression Wing knob

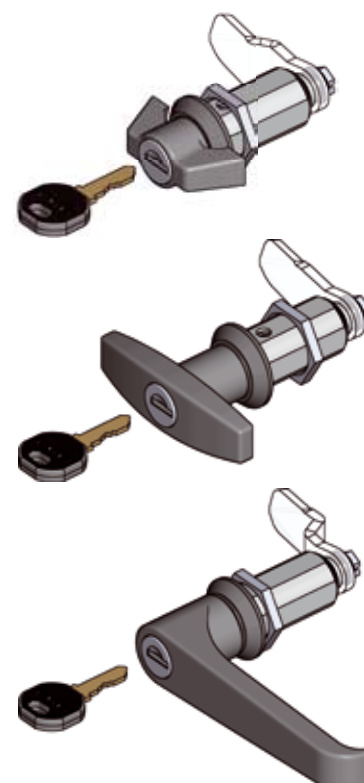


Cut out

Compression L-handle



Cut out



Latches and handles

Vibration proof

This Compression latch is of a vibration-proof design.

This depends on the installation location and operational conditions.

Specific checks are necessary and/or supplementary measures of fastening required.

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 polyamid 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

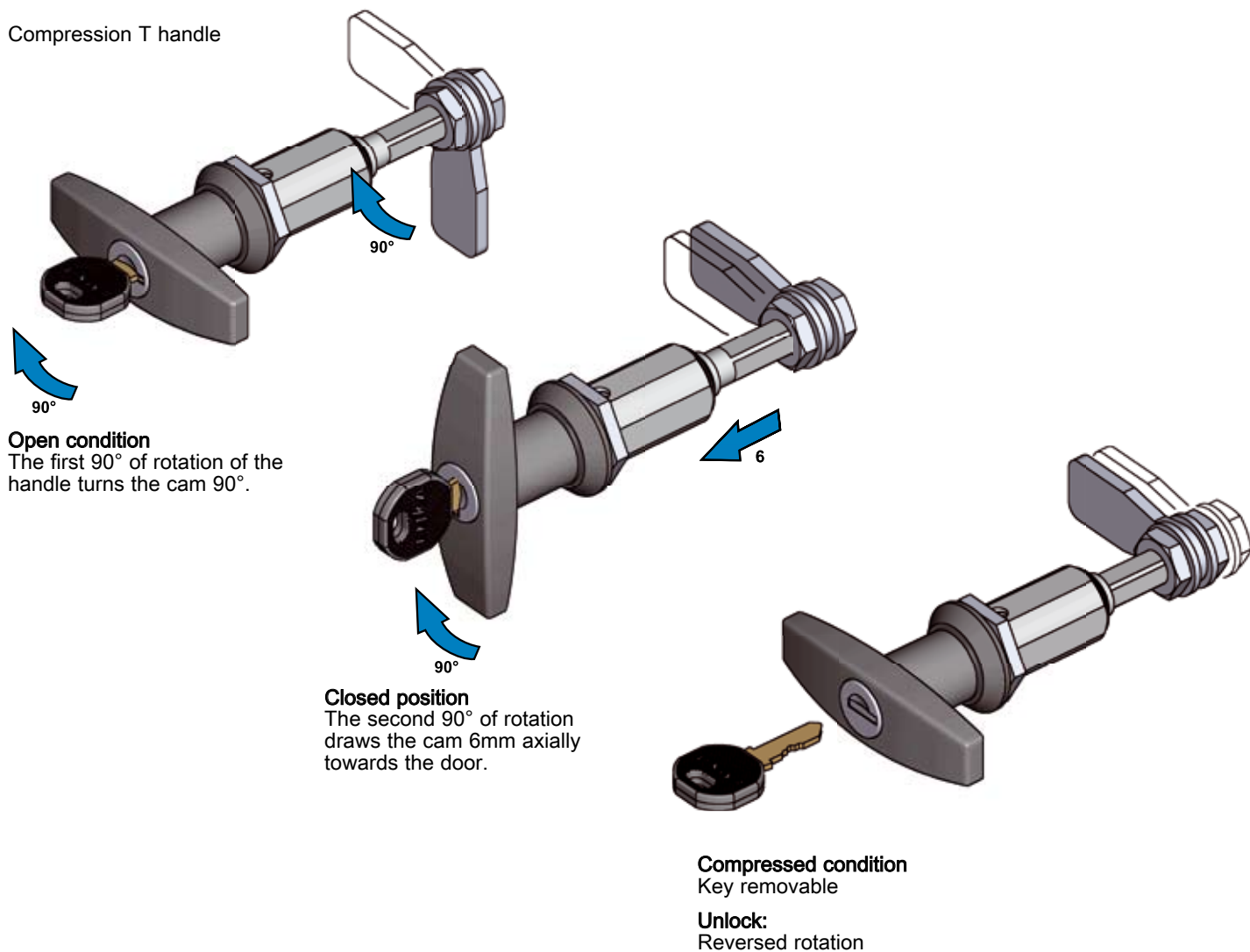
– cam with catch 1.2-400
 – Dust cap for T-Handle 1.4-250

Compression Handles with adjustable Cams

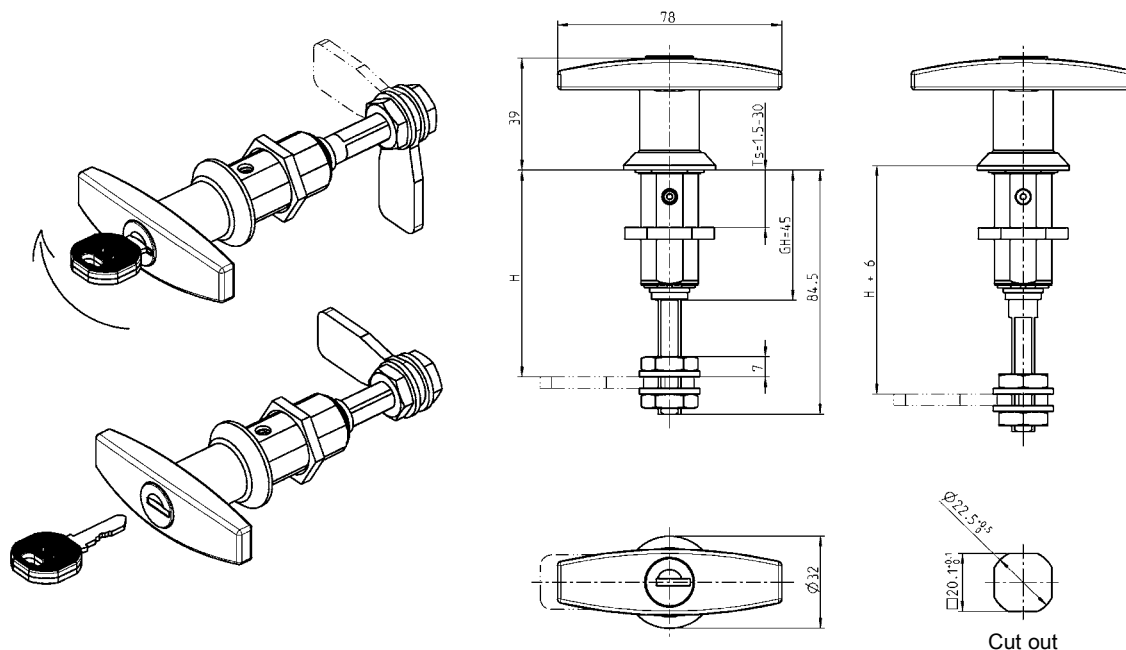
PROGRAM 1000



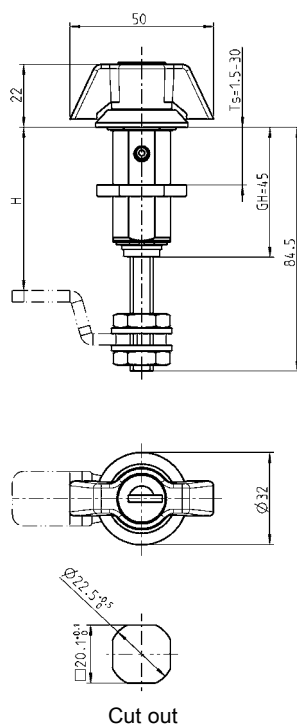
Compression T handle



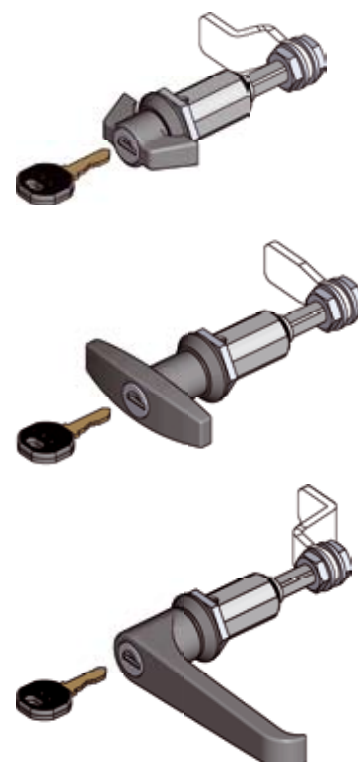
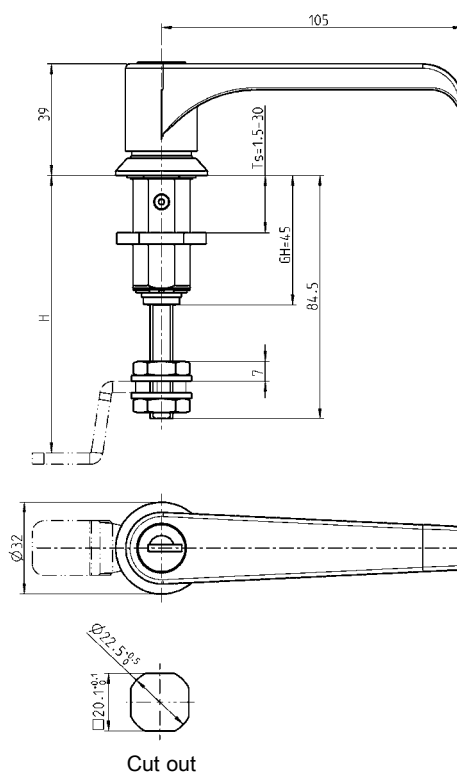
Compression latch with T-handle



Compression Wing knob



Compression L-handle



Vibration proof

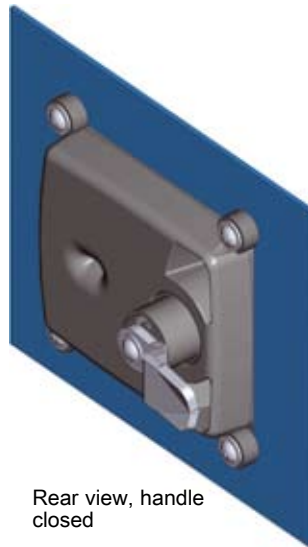
This Compression latch is of a vibration-proof design.
 This depends on the installation location and operational conditions.
 Specific checks are necessary and/or supplementary measures of fastening required.

Stainless steel version on request.

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

	non locking	keyed EK 333	keyed different
Wing knob	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 1.2-410
 – Dust cap for T-Handle 1.4-250



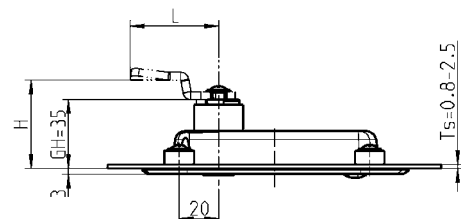
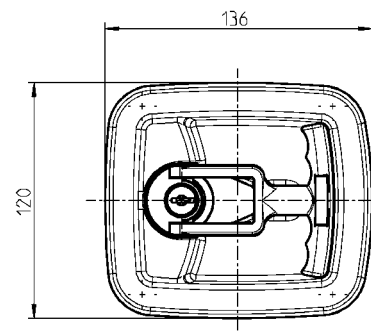
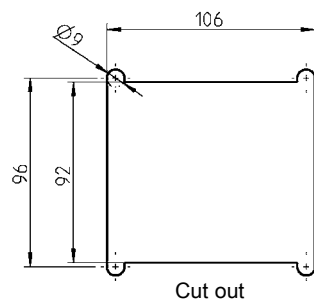
Rear view, handle closed



Front view, handle open

Note:

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



Further parts see page
– cam with catch

1.2-400

Recess T-handle polyamide GF black; fixing material m.s. zinc plated; with seal.
Each round cylinder has one key m.s. nickel plated.

keyed EK 333

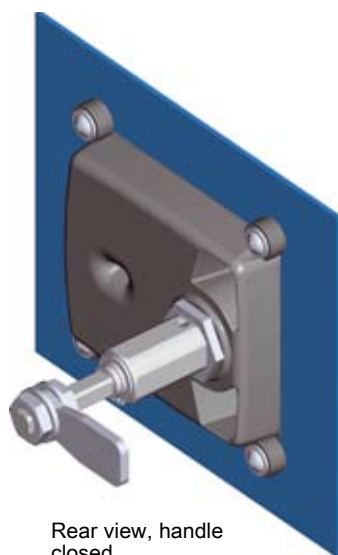
1130-U3

keyed different

1130-U4

Retractable T-Handle with compression function with adjustable cams

PROGRAM 1130



Rear view, handle closed

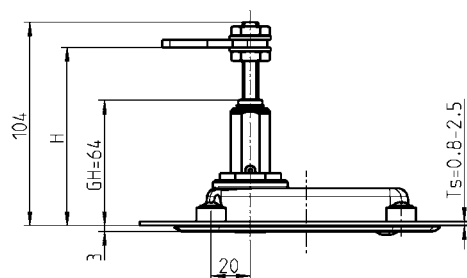
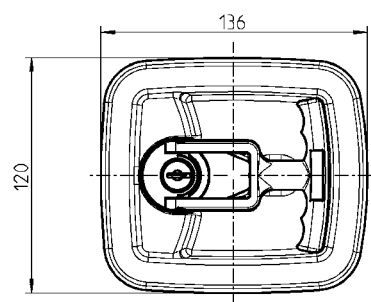
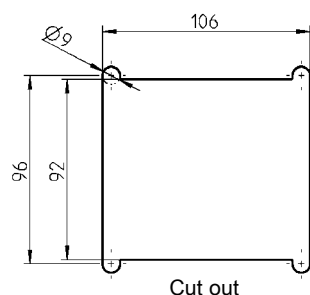


Front view, handle open



Note:

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



Recess T-handle polyamide GF black; housing zinc die;
fixing material m.s. zinc plated; with seal.
Each round cylinder has one key m.s. nickel plated.

keyed EK 333

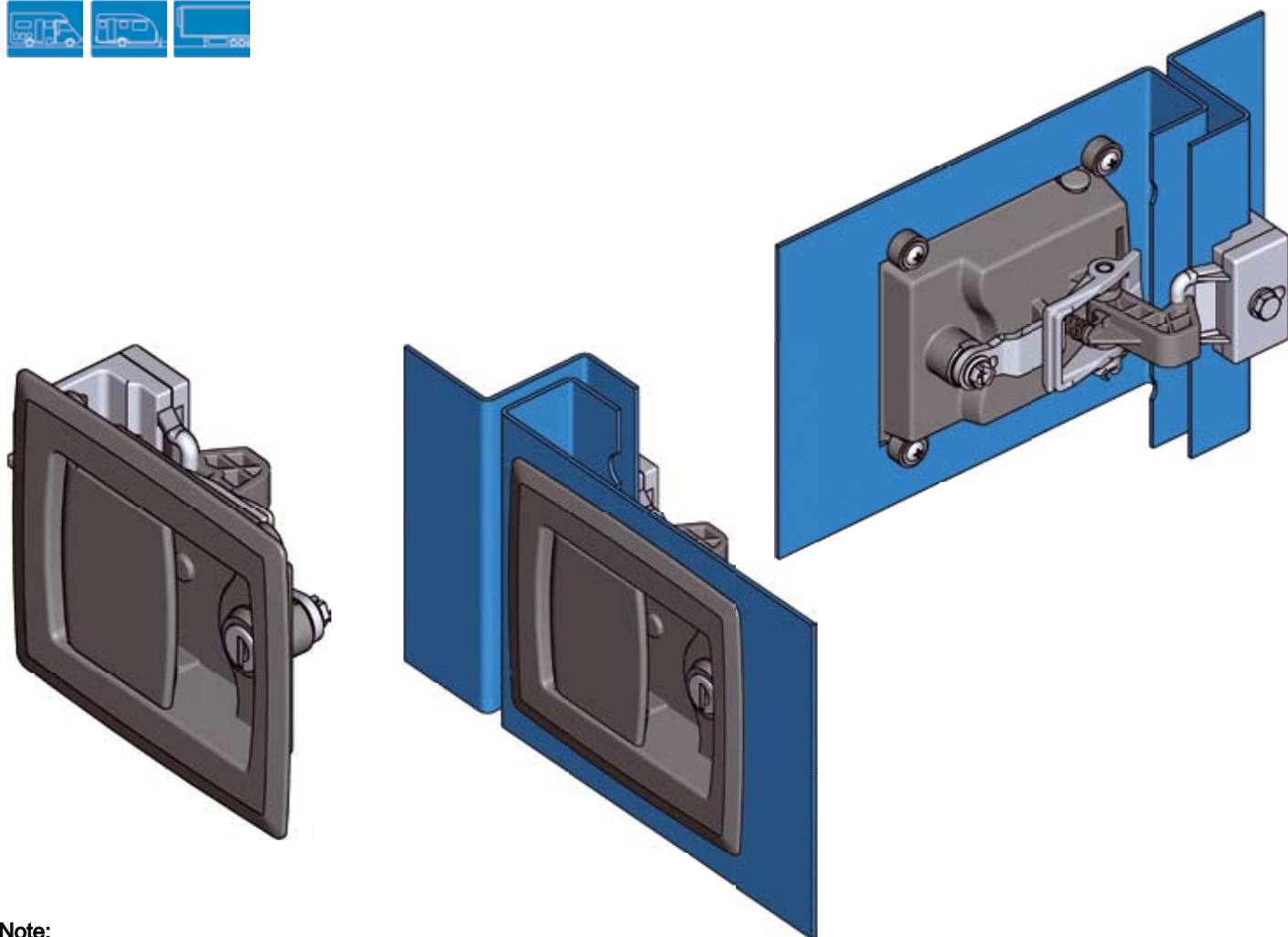
1130-U10

keyed different

1130-U11

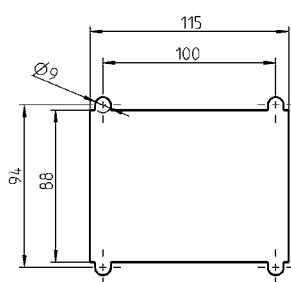
Further parts see page
– Cam

1.2-410

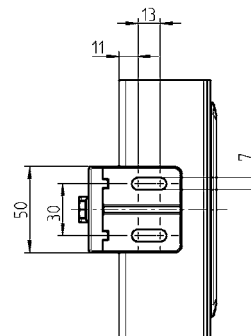
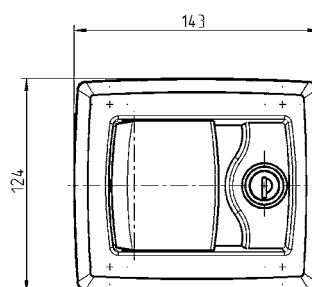


Note:
The Version 1130-U1 and -U2
are made for RH use by default.

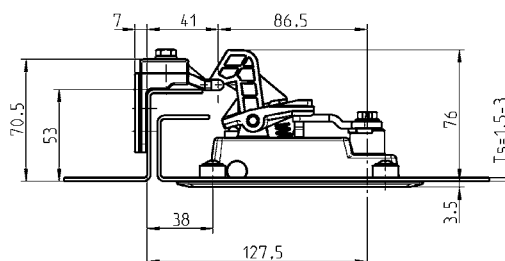
Version for LH use is created by
removal of the round cylinder
rotating 180° and refitting.



Cut out



Function:
The spring-loaded locking
hook is equipped with a
“door-slam” effect.
Thereby 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.

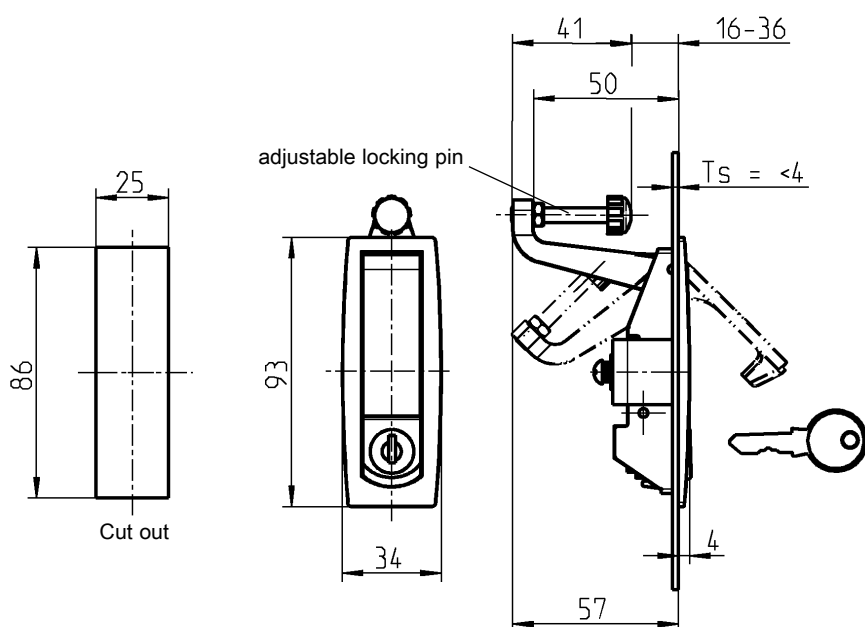
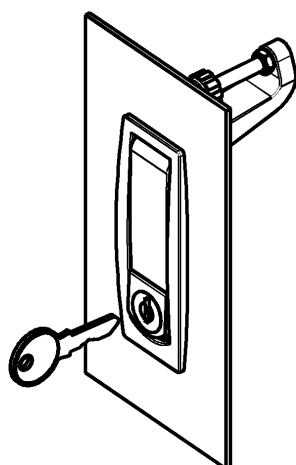
keyed EK 333

1130-U1

keyed different

1130-U2

Chest handle PROGRAM 1130



Compression flush handle zinc die black powder coated, locking pin m.s. zinc plated / TPE-V,
fixing material m.s. zinc plated.
Each round cylinder has one key m.s. nickel plated.

keyed EK 333

1130-U8

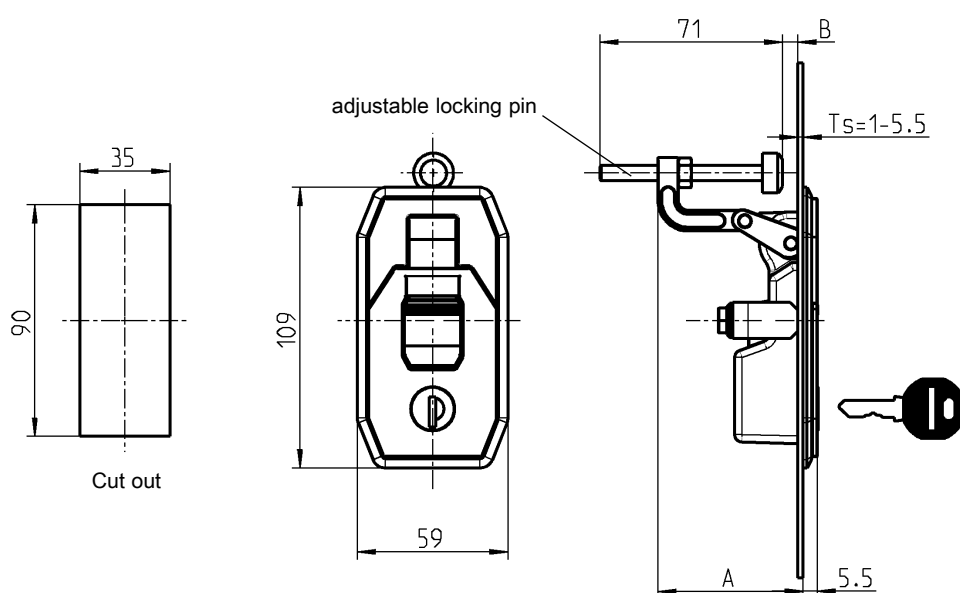
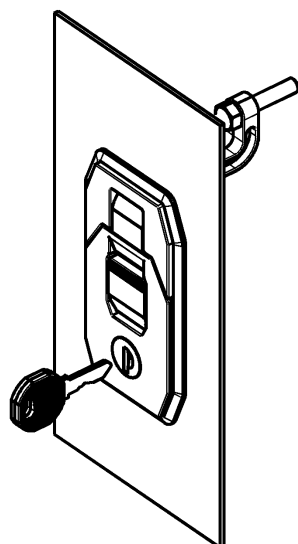
Blank

1130-U9

Notes:

Lined area for notes.

Chest handle PROGRAM 1130



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

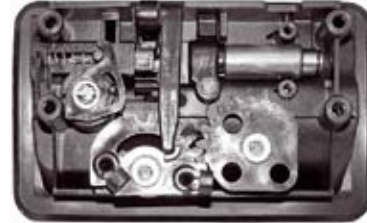
A = 57 ; keyed EK 333	1130-U7
A = 57 ; keyed different	1130-U7-V
A = 71 ; keyed EK 333	1130-U7-01
A = 71 ; keyed different	1130-U7-01V



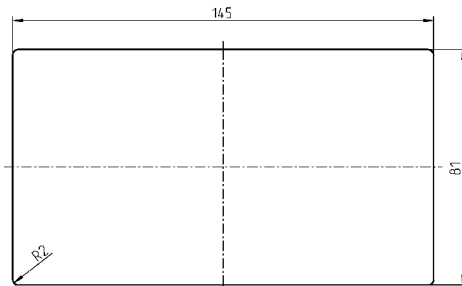
Unlocking device manual



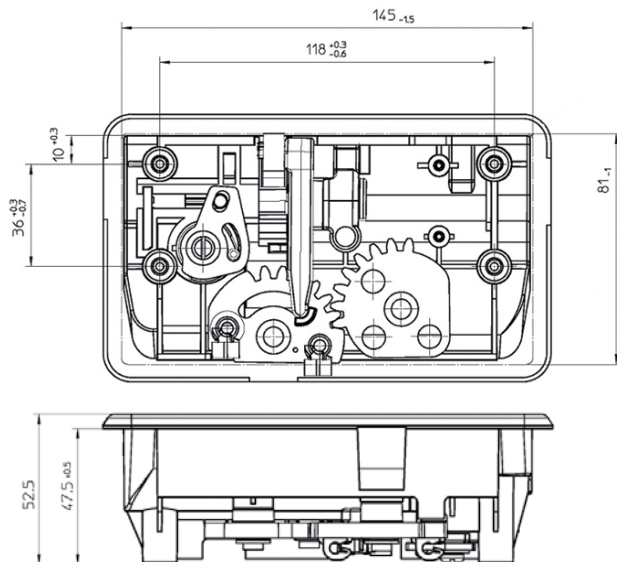
Unlocking device manual and pneumatic



Unlocking device manual
and electric 12V or 24V



Cut out



Further parts see page

- Interior release 1.2-250
- Rotary latch lock 1.3-240
- Locking pin 1.2-280
- 1.2-280

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

Exterior handle closed PROGRAM 5225

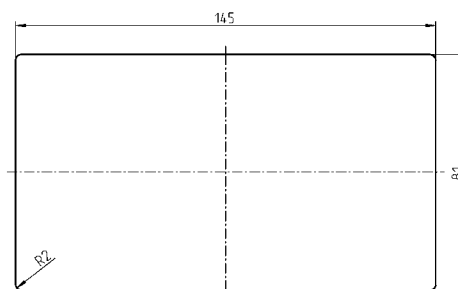
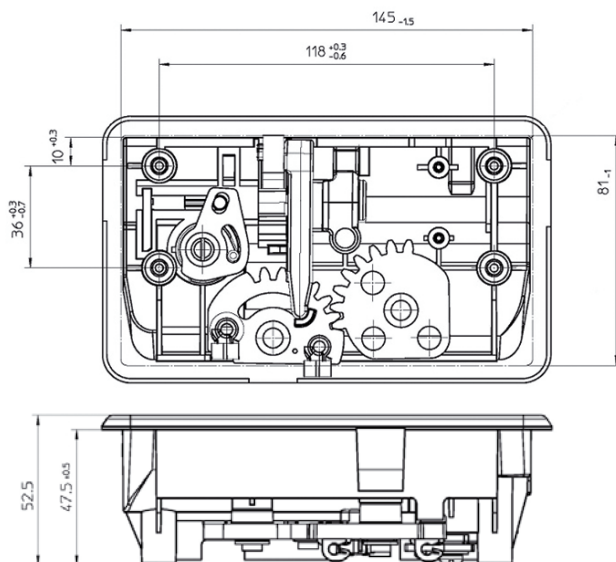
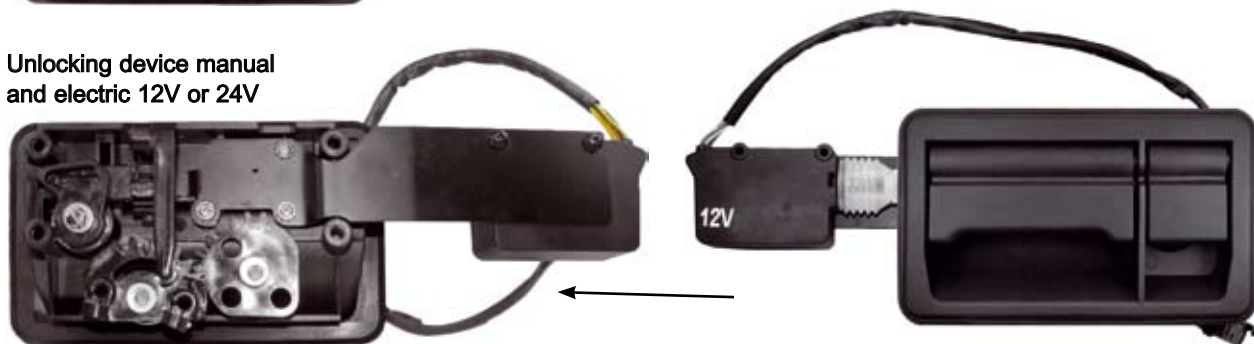
Unlocking device manual



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

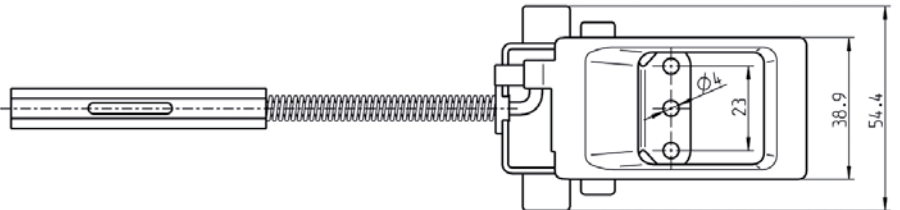
Unlocking device manual	5225-U104
Unlocking device manual and pneumatic	5225-U105
Electrical and manual operation 12V	5225-U106
Unlocking device manual and electric 24V	5225-U107

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	1.2-250
– Rotary latch lock	1.3-240
– Locking pin	1.2-280

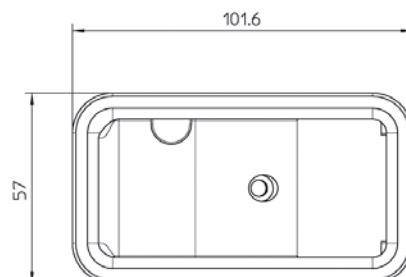
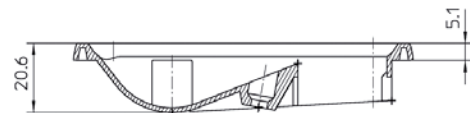
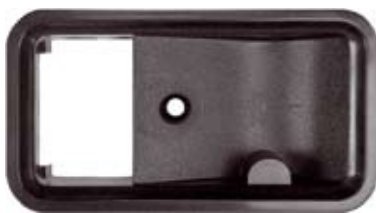


Further parts see page

- Escutcheon see below
- Exterior handle open 1.2-230
- Exterior handle closed 1.2-240

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

5225-U8

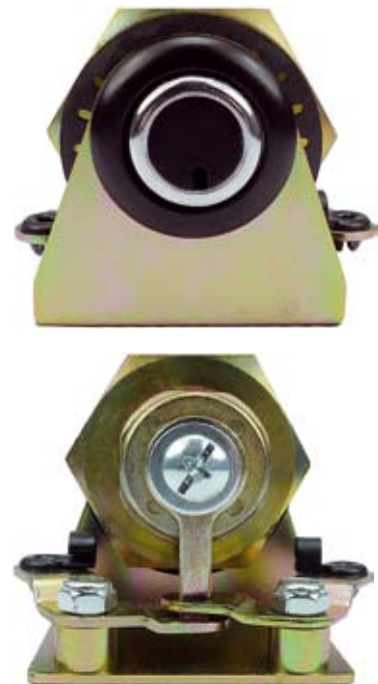
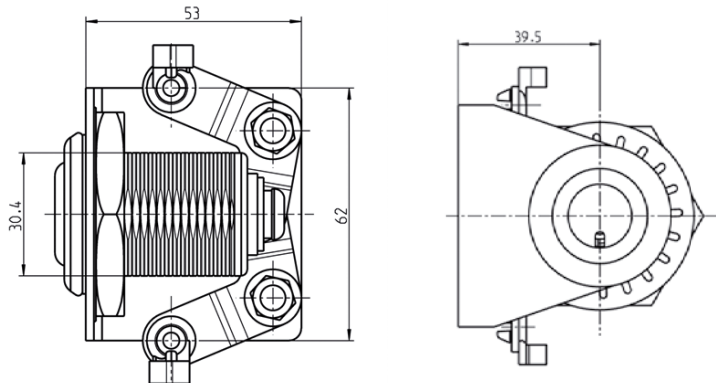


Further parts see page

- Interior release see above
- Exterior handle open 1.2-230
- Exterior handle closed 1.2-240

Escutcheon for interior release ABS black

5225-01-AA



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

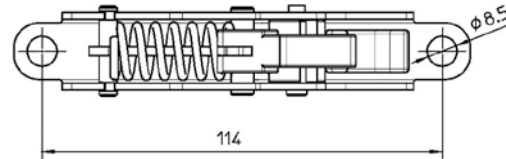
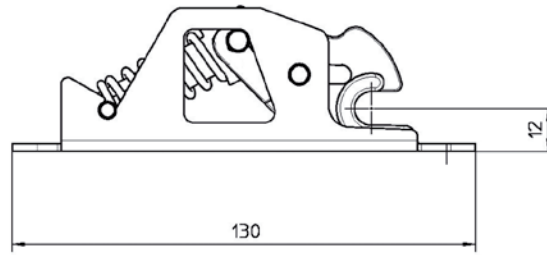
9850-U100

keyed different

9850-U101

Further parts see page

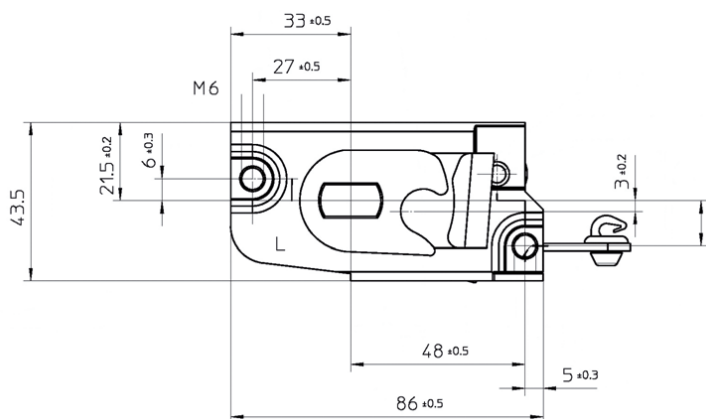
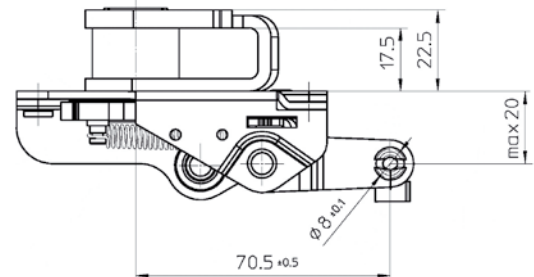
– Rotary latch lock 1.3-240
1.2-280
– Locking pin 1.2-280



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

Spring bolt lock stainless steel

5225-U31



Further parts see page

- Locking pin 1.2-280
- Pushbutton lock 1.2-260
- Exterior handle open 1.2-230
- Exterior handle closed 1.2-240

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

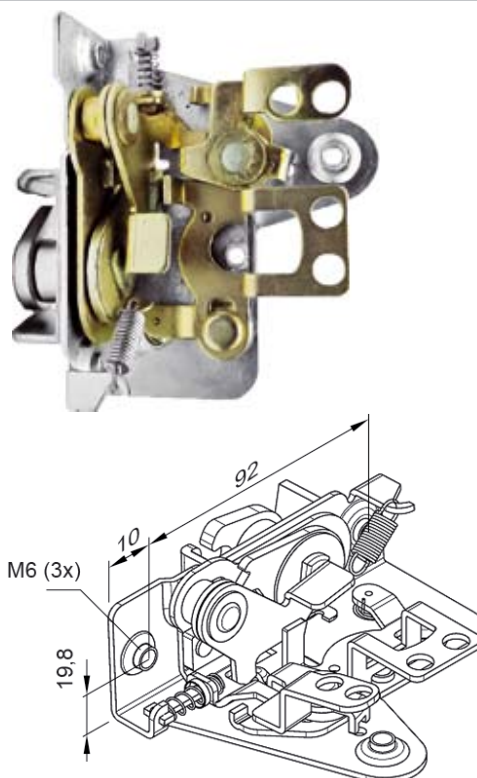
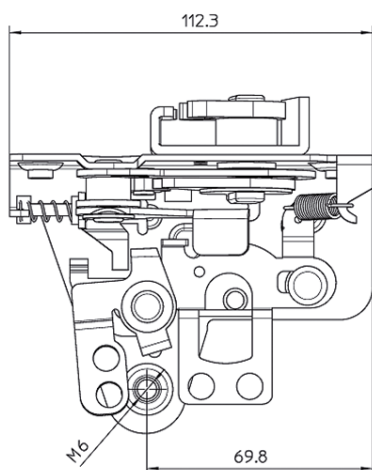
Right mirror image

5225-U9-01

Left as shown

5225-U10-01

Rotary bolt lock with safety catch; locking pin with plate PROGRAM 5225



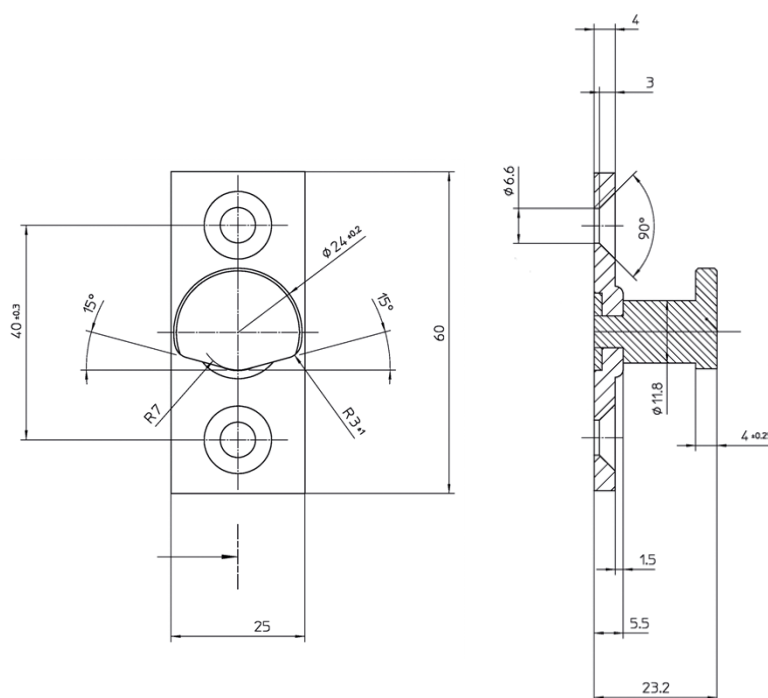
Locked and unlocked from the inside

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 1.2-260
- Exterior handle open 1.2-230
- Exterior handle closed 1.2-240



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

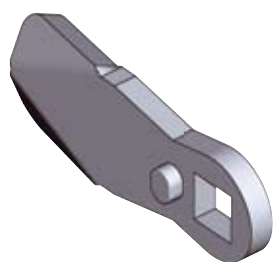
Further parts see page

- Rotary latch lock 1.3-240
- Pushbutton lock 1.2-260
- Exterior handle open 1.2-230
- Exterior handle closed 1.2-240

cam with catch

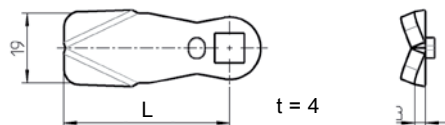
Cam without catch

PROGRAM 1000

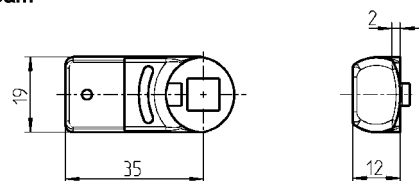


cam with catch

Version 1
Cam

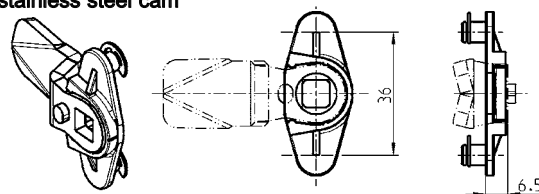


Version 2
Cam



Version 3

Rod control for steel cam or
stainless steel cam



Rod control zinc die,
zinc plated circlip m.s. zinc plated

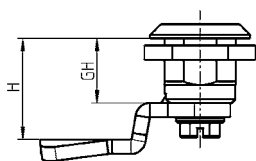
1000-U776

Rod control AISI 316,
circlip stainless steel

1000-U776-PH



Cams without catch
on request.



minus offset



straight version

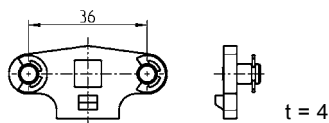


plus offset

Cam with catch material as requested

H dimensions for GH =

12	18	22	28	30	31	32	36	39	40	42	43	45	50	60		
-	4	8	14	16	17	18	22	25	26	28	29	31	36	46		
-	6	10	16	18	19	20	24	27	28	30	31	33	38	48		
2	8	12	18	20	21	22	26	29	30	32	33	35	40	50		
4	10	14	20	22	23	24	28	31	32	34	35	37	42	52		
7	13	17	23	25	26	27	31	34	35	37	38	40	45	55		
8	14	18	24	26	27	28	32	35	36	38	39	41	46	56		
9	15	19	25	27	28	29	33	36	37	39	40	42	47	57		
10	16	20	26	28	29	30	34	37	38	40	41	43	48	58		
12	18	22	28	30	31	32	36	39	40	42	43	45	50	60		
14	20	24	30	32	33	34	38	41	42	44	45	47	52	62		
16	22	26	32	34	35	36	40	43	44	46	47	49	54	64		
18	24	28	34	36	37	38	42	45	46	48	49	51	56	66		
19	25	29	35	37	38	39	43	46	47	49	50	52	57	67		
20	26	30	36	38	39	40	44	47	48	50	51	53	58	68		
22	28	32	38	40	41	42	46	49	50	52	53	55	60	70		
24	30	34	40	42	43	44	48	51	52	54	55	57	62	72		
26	32	36	42	44	45	46	50	53	54	56	57	59	64	74		
28	34	38	44	46	46	48	52	55	56	58	59	61	66	76		
29	35	39	45	47	48	49	53	56	57	59	60	62	67	77		
30	36	40	46	48	49	50	54	57	58	60	61	63	68	78		
32	38	42	48	50	51	52	56	59	60	62	63	65	70	80		
34	40	44	50	52	53	54	58	61	62	64	65	67	72	82		
36	42	46	52	54	55	56	60	63	64	66	67	69	74	84		
38	44	48	54	56	57	58	62	65	66	68	69	71	76	86		
39	45	49	55	57	58	59	63	66	67	69	70	72	77	87		
41	47	51	57	59	60	61	65	68	69	71	72	74	79	89		
44	50	54	60	62	63	64	68	71	72	74	75	78	82	92		

Version 4
Rod control

2-point rod control m.s. zinc plated

1000-U167

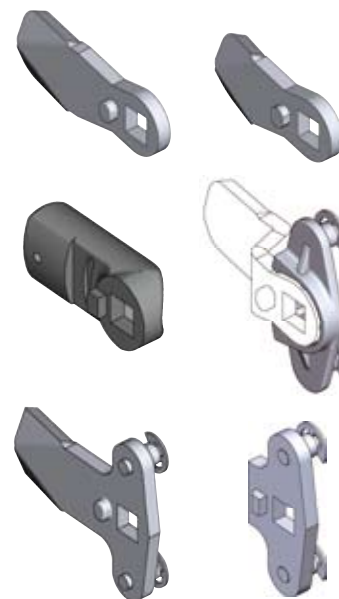
Note:

This catalogue page does not show all available cams.

Other versions such as:

- Cams without catch
- Cams with other H and L dimension
- Cams with spoon in the opposite direction
- etc.

please ask.



Latches and handles

Version 1			Version 1		Version 2
L = 45 m.s. zinc pl.	L = 45 AISI 304	L = 45 AISI 316	L = 35 m.s. zinc pl.	L = 35 polyamide black ①	polyamide black
1000-112	-	-	-	-	-
1000-22	1000-221	1000-221-PD	-	-	-
1000-113	-	-	-	-	-
1000-21	1000-223	1000-223-PD	-	-	-
1000-20	-	-	-	-	-
1000-19	1000-225	1000-225-PD	-	-	-
-	-	-	-	1000-5043-SI	-
1000-18	-	-	-	-	-
1000-17	1000-227	1000-227-PD	1000-5046	1000-5046-SI	1000-386-18
1000-16	1000-228	1000-228-PD	1000-5161	-	1000-386-20
1000-15	1000-179	1000-179-PD	1000-5119	-	1000-386-22
1000-14	1000-229	1000-229-PD	-	-	1000-386-24
1000-27	-	-	-	-	-
1000-50	1000-230	1000-230-PD	-	-	-
1000-13	1000-180	1000-180-PD	1000-5164	-	1000-386-28
1000-28	-	-	-	-	1000-386-30
1000-26	-	-	-	-	-
1000-12	-	-	-	-	-
1000-11	-	-	-	-	-
1000-51	-	-	-	-	-
1000-52	-	-	-	-	-
1000-25	-	-	-	-	-
1000-53	-	-	-	-	-
1000-54	-	-	-	-	-
1000-10	-	-	-	-	-
1000-55	-	-	-	-	-
1000-56	-	-	-	-	-

If cams are used with rod control the axial movement of the connecting rods needs to be considered.

①
only for light doors and covers

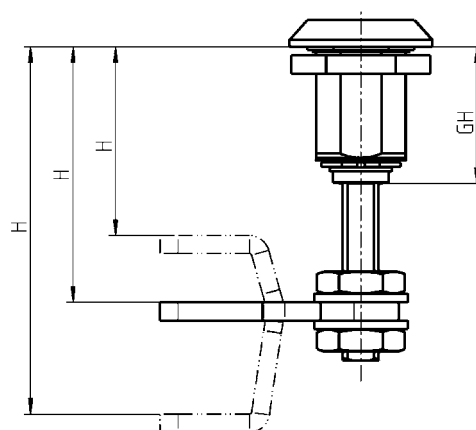
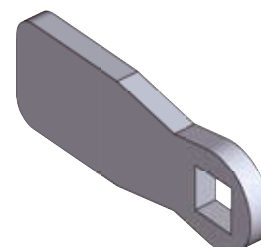
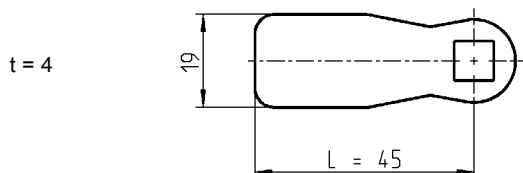
Further parts see page

Part for cam with catch

- Chest handle 1.2-180
- Quarter turns 1.4-140
- 1.4-240
- 1.4-280
- 1.4-320
- 1.2-160
- 1.4-520
- 1.4-540
- 1.4-560
- 1.4-580
- 1.4-620
- 1.4-630

Part for cam without catch

- Quarter turns 1.4-160
- 1.4-220
- 1.4-336
- 1.4-420
- 1.4-430
- 1.4-680



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

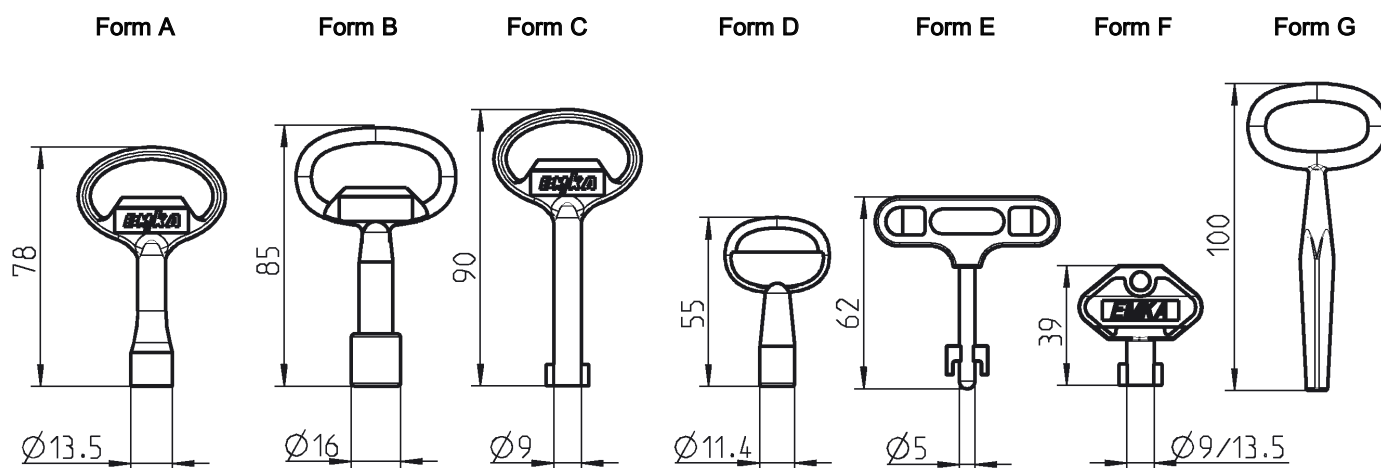
On request:
– further cams

Further parts see page
– Chest handle
– Quarter turns

1.2-190
1.4-290
1.4-330
1.2-170

Key

PROGRAM 1004



Keys can be supplied on request with customer logo

Minimum quantity: Form A, B, C, D

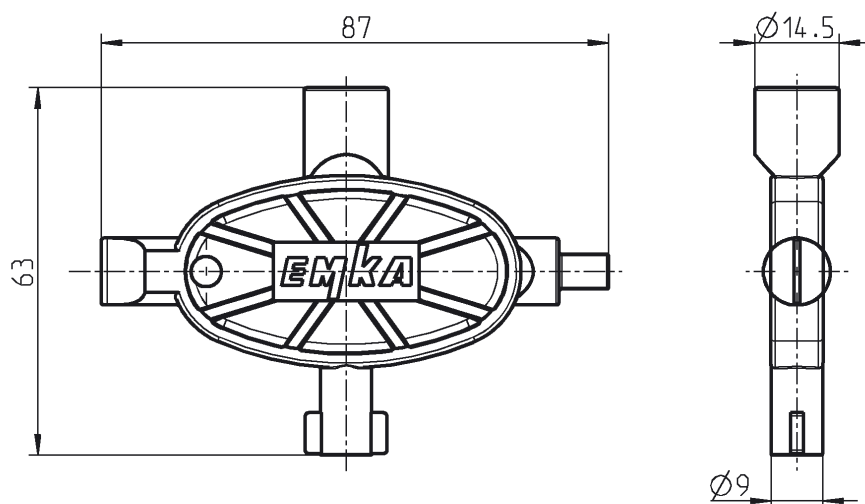
2,000 pieces

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	–	–	–

Form H

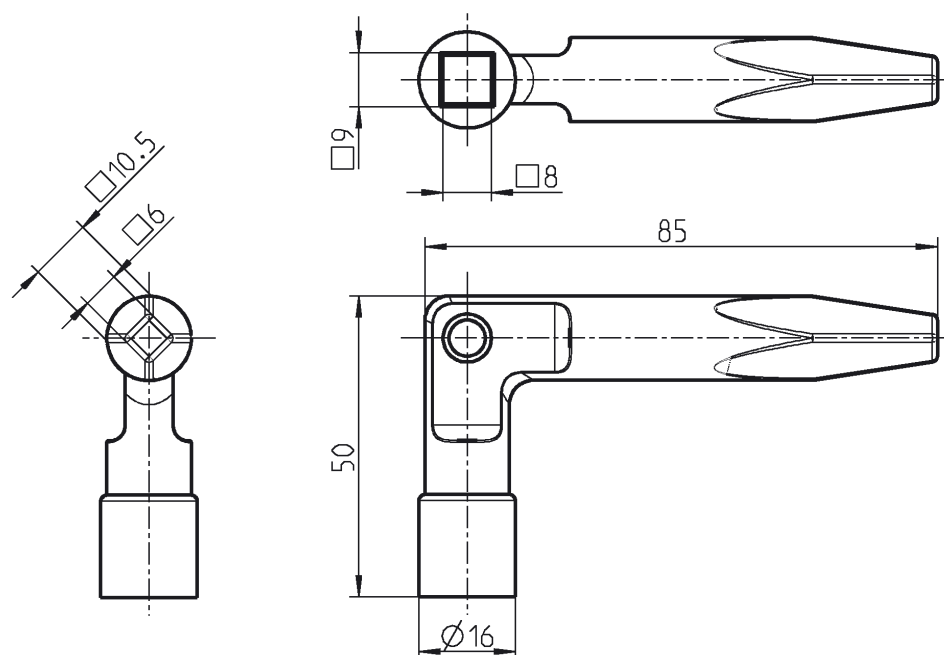


Form H, universal-key polyamide blue

Square male 6, square 8, double bit 5 and slot insert

1004-48

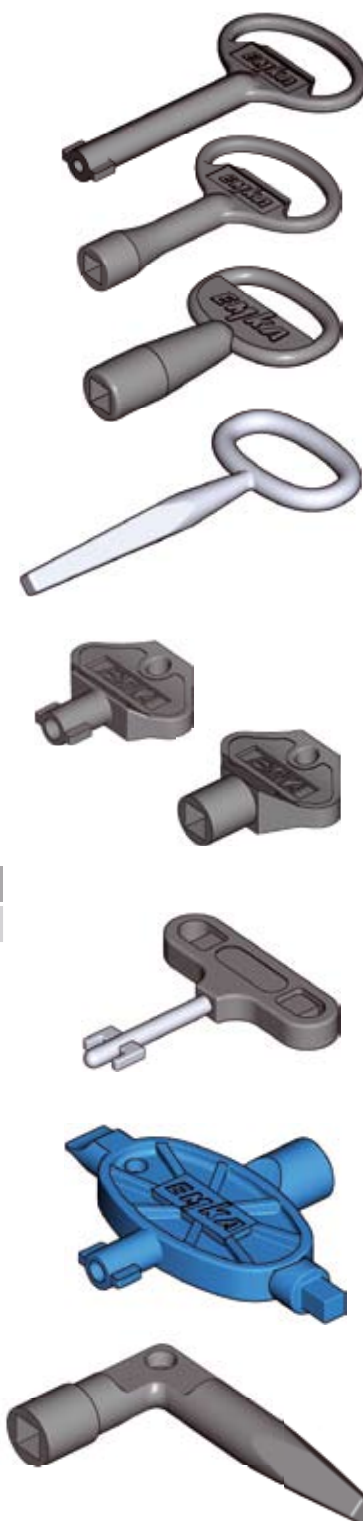
Form I



Form I, railway version, zinc die black

Square 8 - 9, square male 6 - 10,5

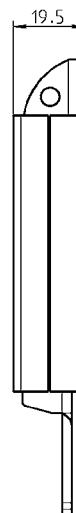
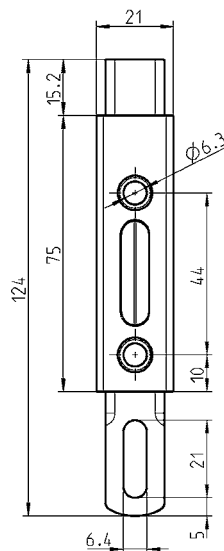
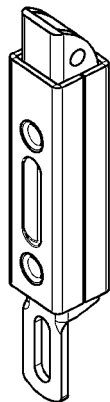
1004-52



Stainless steel key
on request

Further parts see page

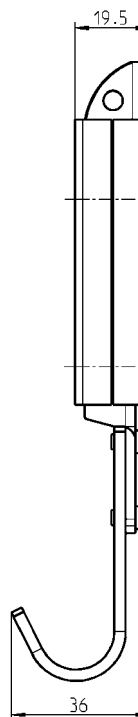
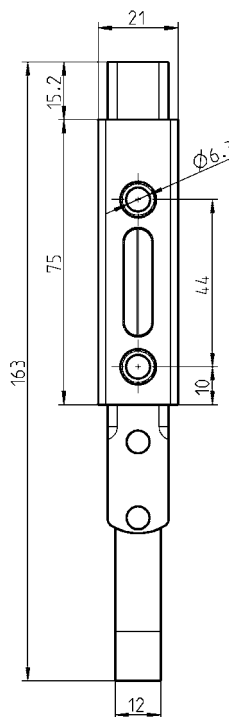
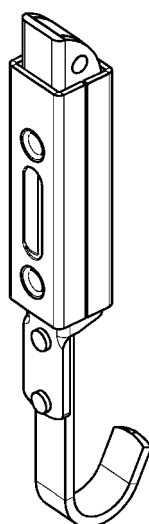
– Quarter turns up to 1.4-520



Slam locks with different tensions
on request

Slam-lock m.s. zinc plated; with spring

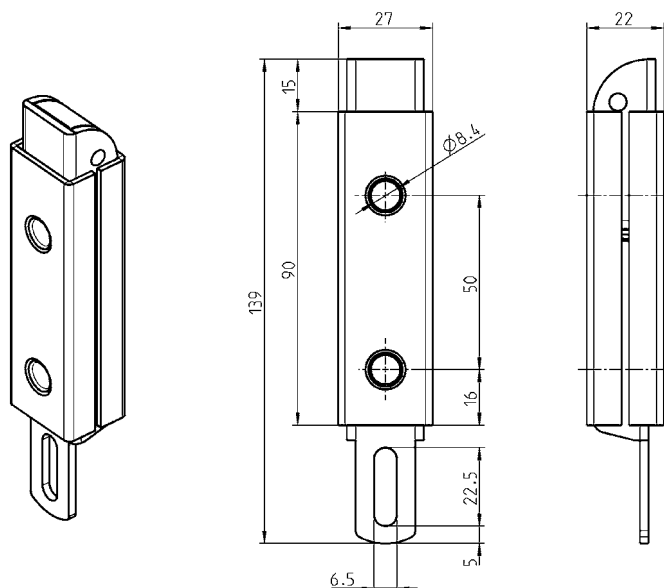
1085-U1



Slam locks with different tensions
on request

Slam-lock m.s. zinc plated; with spring

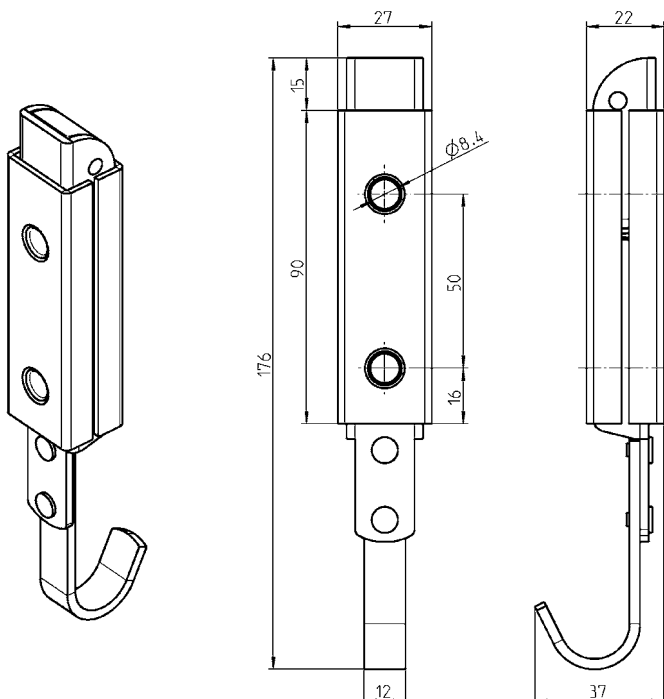
1085-SU8



Slam-lock m.s. zinc plated; with spring

1085-SU7

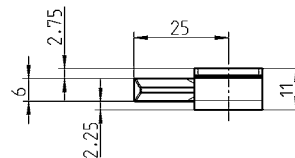
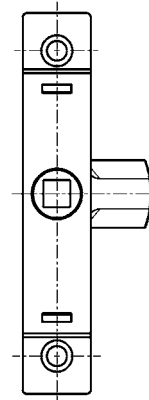
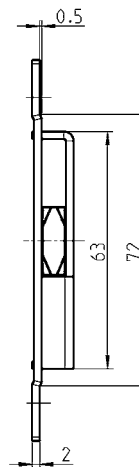
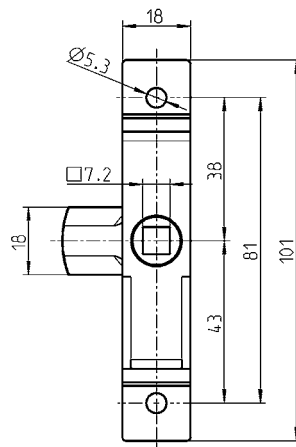
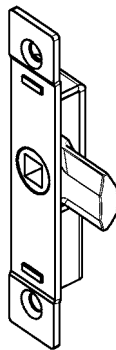
Slam locks with different tensions on request



Slam-lock m.s. zinc plated; with spring

1085-SU6

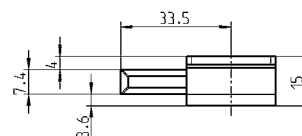
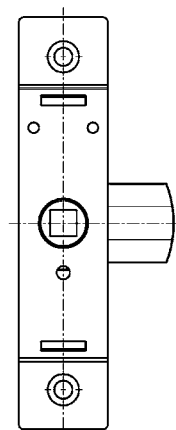
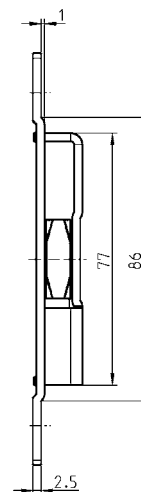
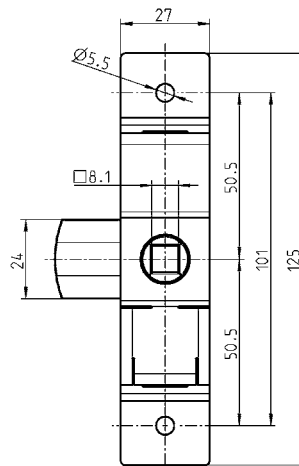
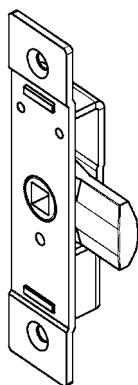
Slam locks with different tensions on request



- 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

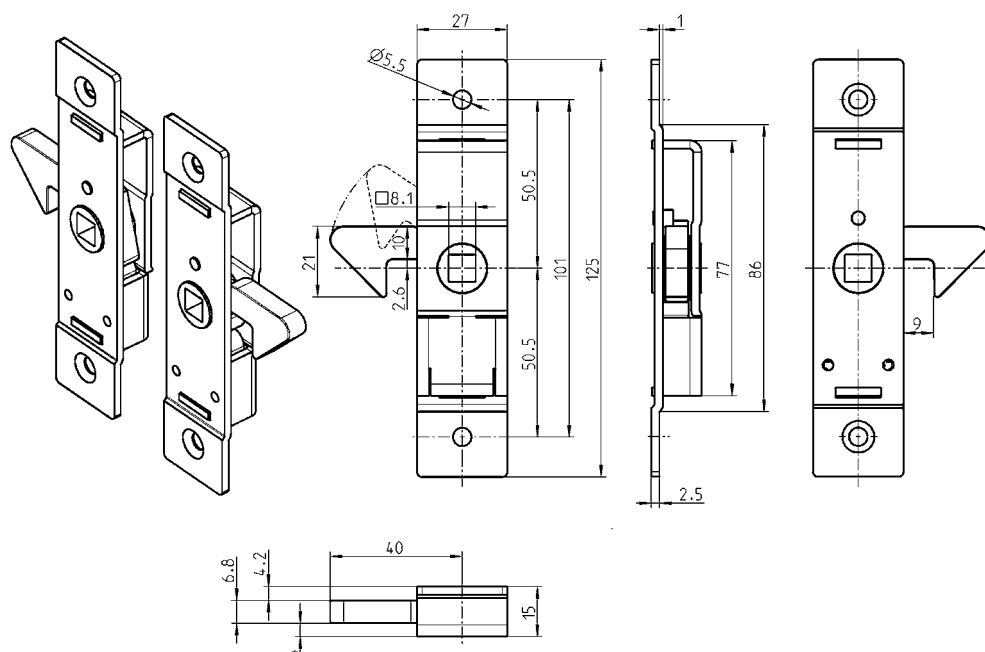


- Door edge to sq drive c/l approx. 13 mm

Latch lock m.s. zinc plated; cam zinc die raw; with spring

1001-U44

Hook latch Dead-bolt lock PROGRAM 1001, 1080



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

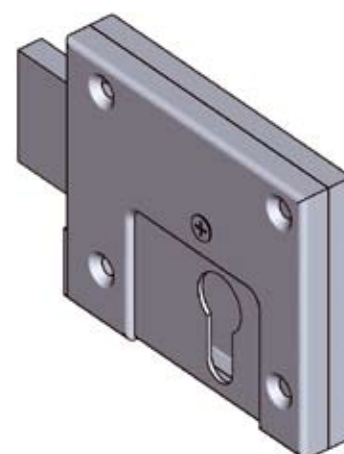
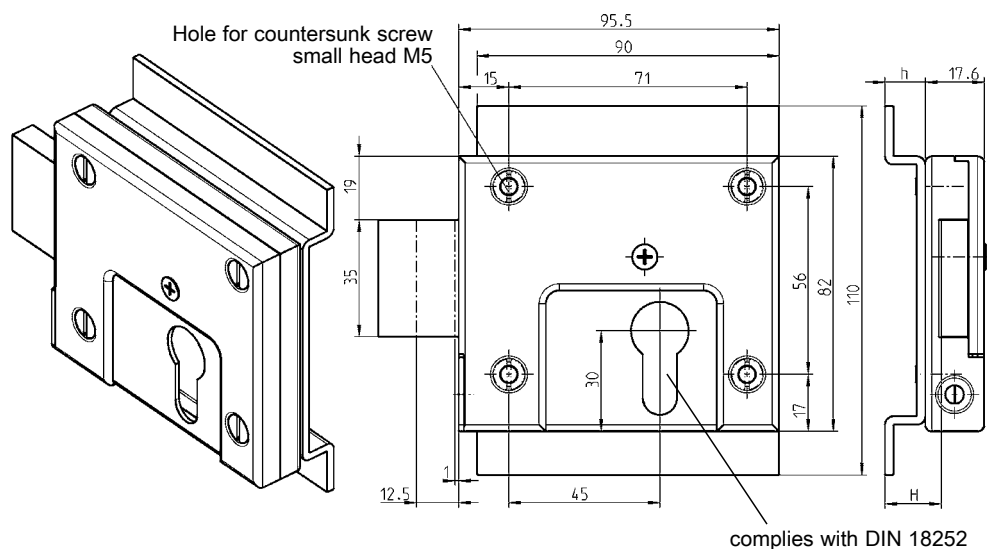
Latch lock m.s. zinc plated; hook cam zinc die raw; with spring

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

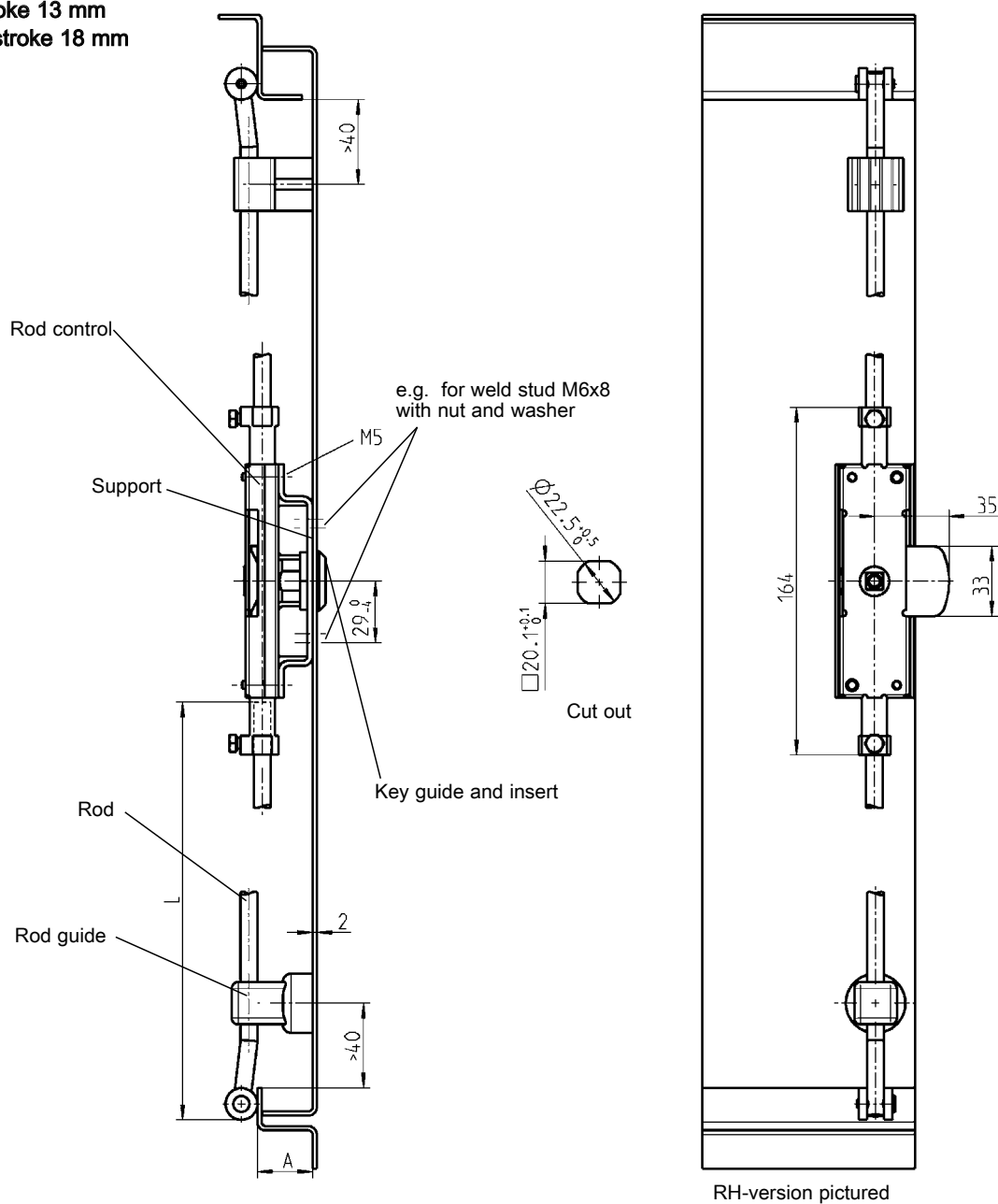
H	H	Profile cylinder length	
16,5	12	40	1080-01
26,5	22	50	1080-02

On request:
– further lock versions

3 point latches and inserts

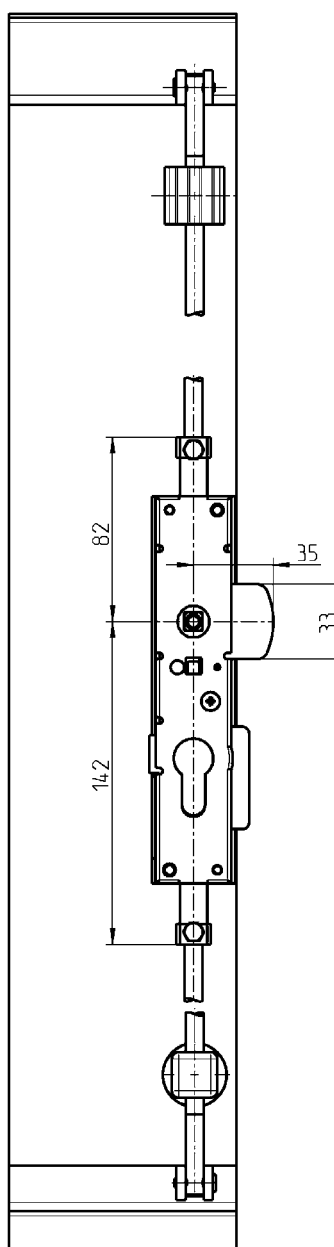
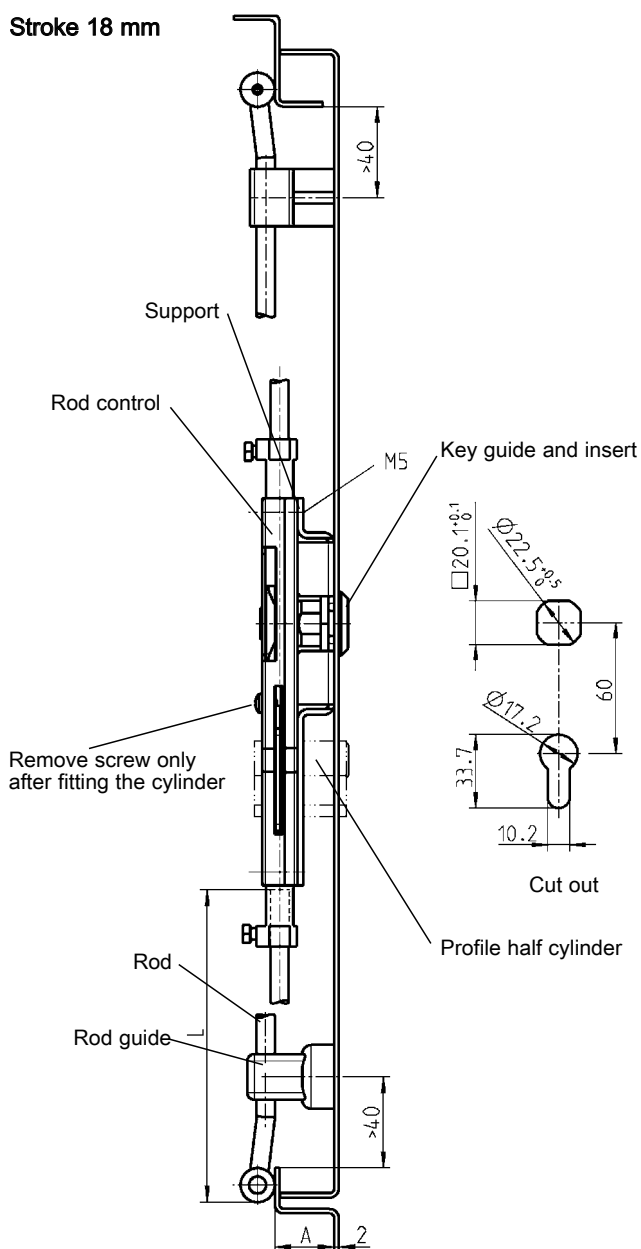
PROGRAM 1049, 1068

Stroke 13 mm
or stroke 18 mm

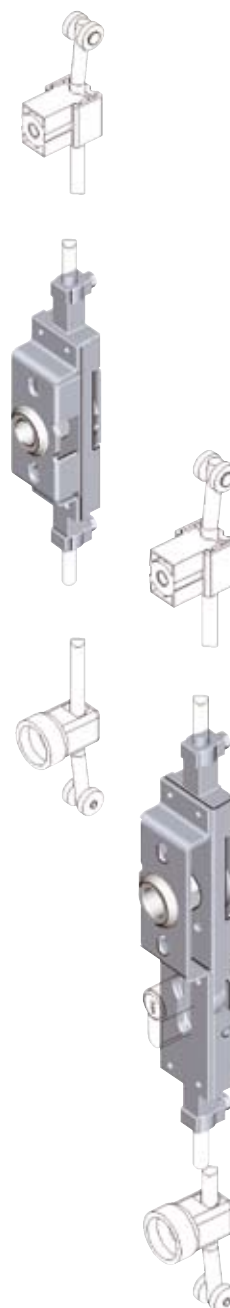


Latch m.s. zinc plated			Latch m.s. zinc pl. for profile cylinder		
	Stroke 13	Stroke 18			Stroke 18
RH	1049-U1	1049-U19	RH	–	1068-U1
LH	1049-U2	1049-U20	LH	–	1068-U2
Support m.s. zinc plated			Support m.s. zinc plated		
	A20	A26		A20	A26
RH/LH	1001-47	1001-50	RH	1001-45	1001-48
			LH	1001-46	1001-49

Stroke 18 mm



RH-version pictured



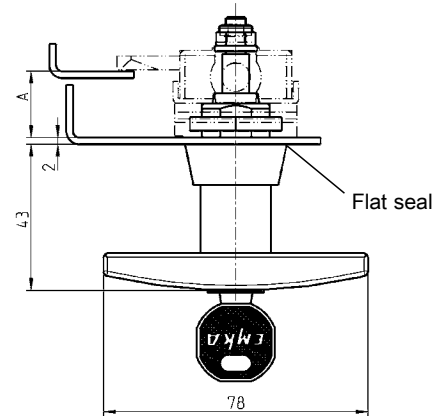
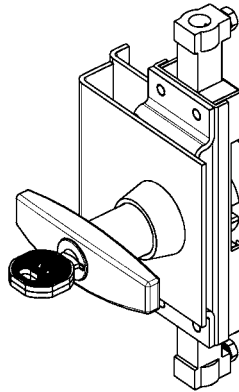
Key guide zinc die Chrome plated or powder coated black with nut m.s. zinc plated			Insert zinc die chrome pl.	
chrome plated			Square	6 1000-59
for square and triangular			Square	7 1000-04
for double bit			Square	8 1000-05
for Daimler Benz			Triangular	7 1000-06
for FIAT			Triangular	8 1000-07
black powder coated			for double bit	3 1000-08
for square and triangular			for double bit	5 1000-09
for double bit			for Daimler Benz	1000-64
for Daimler Benz			for FIAT	1000-352
for FIAT			IP 65 with:	
			Flat seal	1000-23
			O-ring	1000-24

Further parts see page

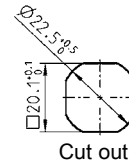
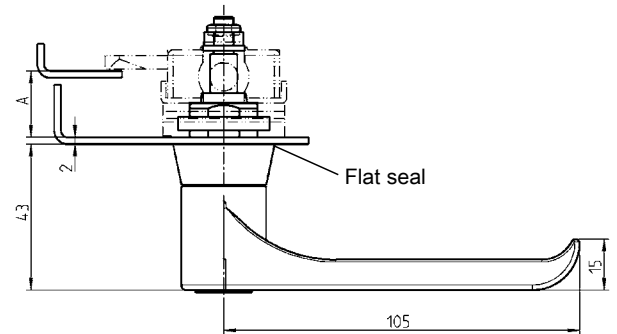
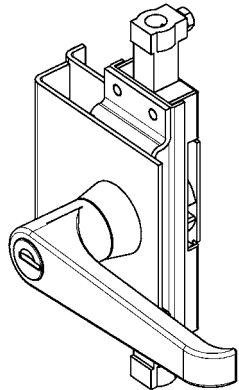
- T-Handle	1.3-140
- L-Handle	1.3-140
- Rod	on request
- Rod guide	on request
- Profile half cylinder	on request
- Key	1.2-420
- Escutcheon	on request
- Adapter system for insulated doors	1.3-150



T-Handle



L-Handle



**T-Handle zinc die with nut and washer m.s. zinc pl., with seal.
Each round cylinder has one silver steel key with polyamide grip GF black.**

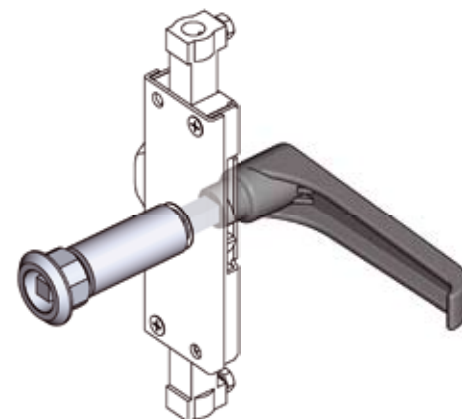
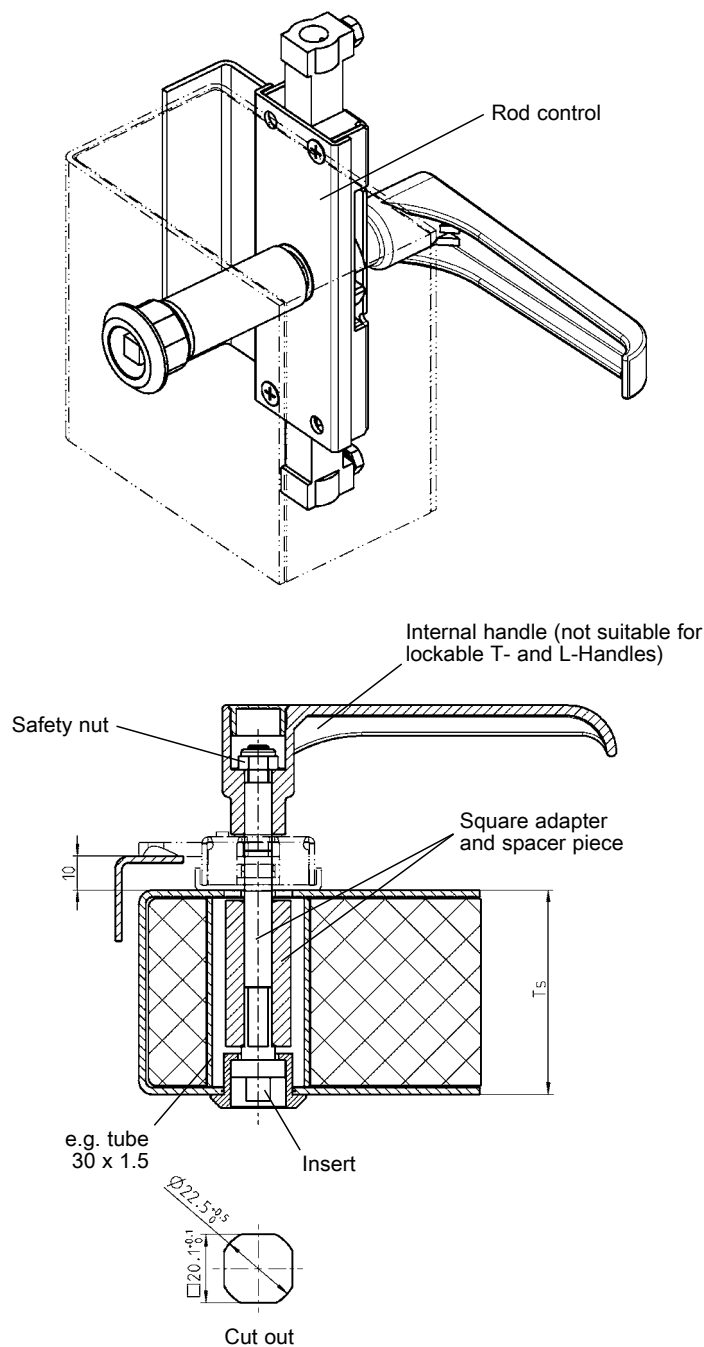
		non locking	Keyed EMKA 333	keyed different
A20	chrome plated	1102-U1	1102-U3	1102-U5
	black powder coated	1102-U7	1102-U9	1102-U11
A26	chrome plated	1102-U2	1102-U4	1102-U6
	black powder coated	1102-U8	1102-U10	1102-U12

**L-Handle zinc die with nut and washer m.s. zinc pl., with seal.
Each round cylinder has 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 EK 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	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 1.4-250
- Rod control 1.3-130
- Adapter system for insulated doors 1.3-150
- Key 1.2-420

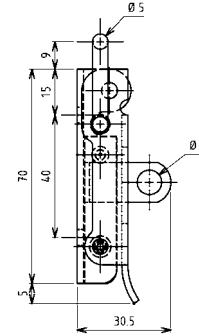
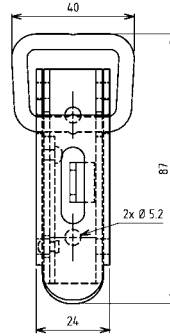


Adapter system pre-assembled with handle or insert, inserted into the aperture and held by locking nut M6.

Insert, m.s. zinc plated Key guide zinc die chrome plated Safety nut m.s.zinc plated		Door gauge 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 internal 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			

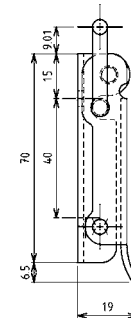
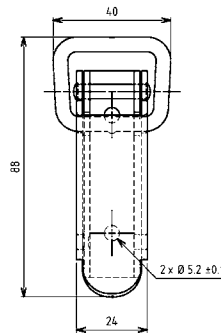
Further parts see page

- Rod control 1.3-130
- T- or L-Handle
- A = 26 1.3-140
- Key 1.2-420
- Rotation prevention on request



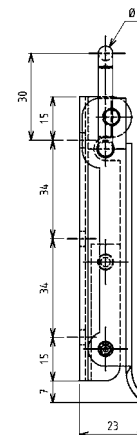
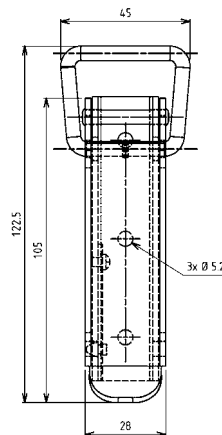
Toggle latch with high opening resistance

	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

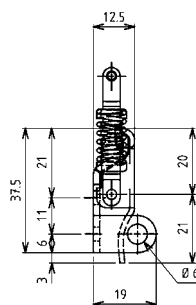
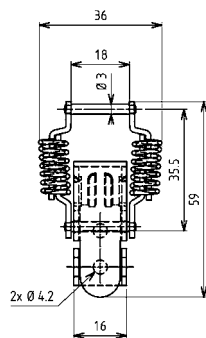
	Without padlock-facility	With padlock-facility
Zinc plated steel, drilled	6002-U76-JB	-



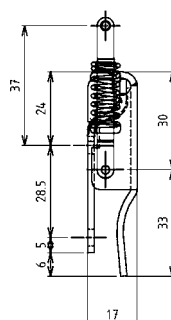
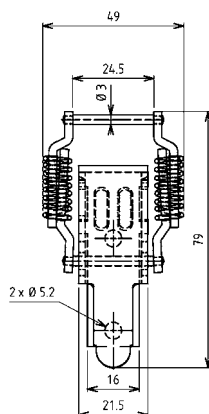
Toggle latch with high opening resistance

	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

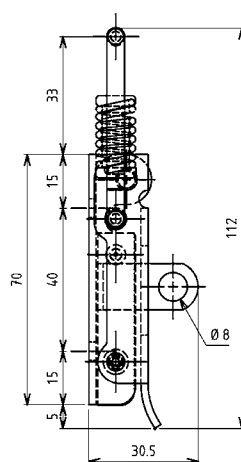
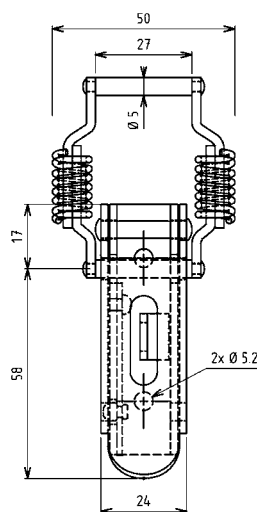
Toggle latches with springs for tolerance compensation PROGRAM 6000



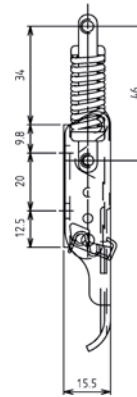
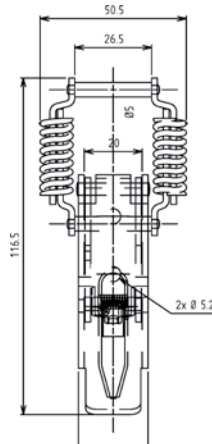
Toggle latch	Without padlock-facility	With padlock-facility
Raw steel drilled	6004-U22-KA	6004-U23-KA
Zinc plated steel DS plus Top Coat drilled	6004-U22-JQ	6004-U23-JQ
AISI 304 drilled	6004-U22-PC	6004-U23-PC



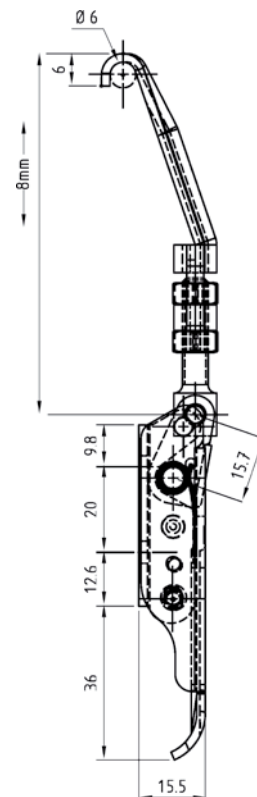
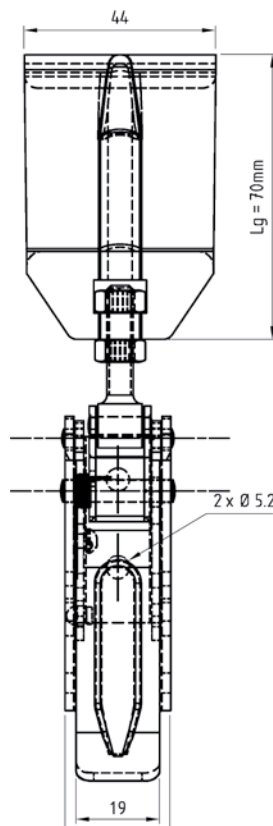
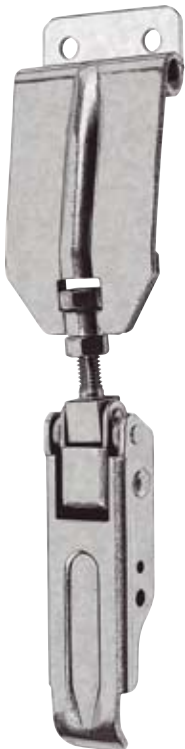
Toggle latch	Without padlock-facility	With padlock-facility
Raw steel drilled	6004-U24-KA	6004-U25-KA
Zinc plated steel DS plus Top Coat drilled	6004-U24-JQ	6004-U25-JQ
AISI 304 drilled	6004-U24-PC	6004-U25-PC



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



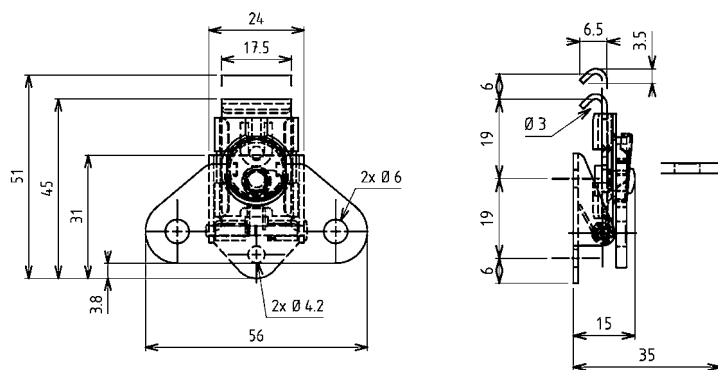
Toggle latch	Without locking latch	With locking latch
Zinc plated steel DS plus Top Coat drilled	6004-U17-JQ	6004-U517-JQ
AISI 304 drilled	6004-U17-PC	6004-U517-PC



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

Compression latches; hooks

PROGRAM 6000



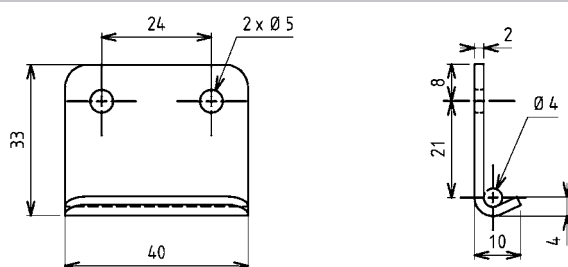
Compression latch

Zinc plated steel DS plus Top Coat drilled

6006-U10-JQ

AISI 304 drilled

6006-U10-PC



Catch plate

Raw steel drilled

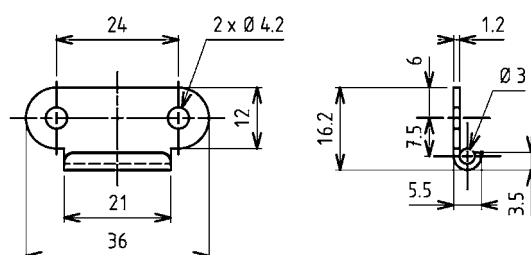
6010-18-KA

Zinc plated steel DS plus Top Coat drilled

6010-18-JQ

AISI 304 drilled

6010-18-PC



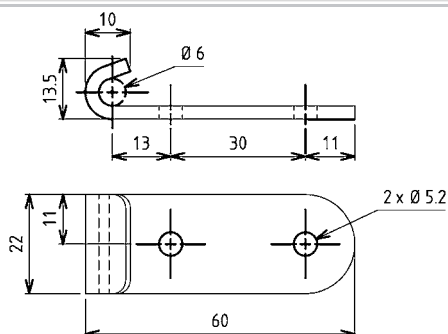
Catch plate

Zinc plated steel DS plus Top Coat drilled

6010-20-JQ

AISI 304 drilled

6010-20-PC



Catch plate

Raw steel drilled

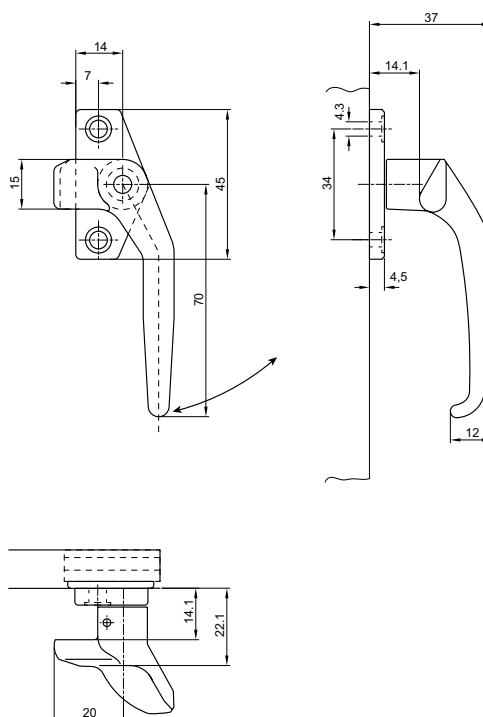
6010-12-KA

Zinc plated steel DS plus Top Coat drilled

6010-12-JQ

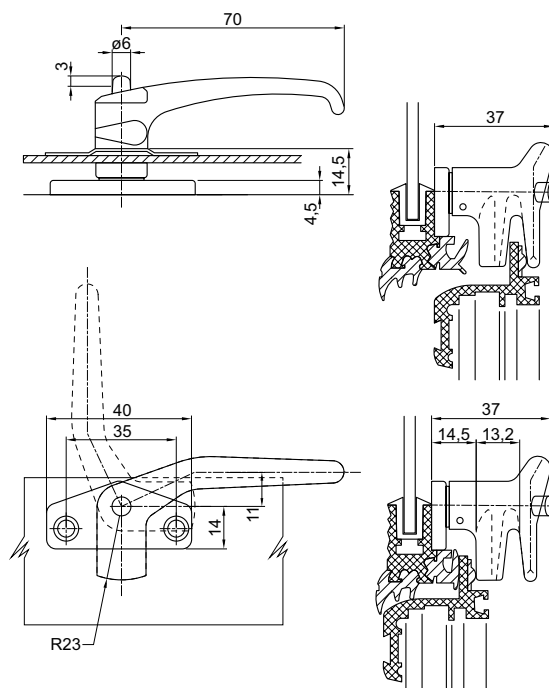
AISI 304 drilled

6010-12-PC



Rotary latch zinc die chrome plated

5072-U804-IA



Rotary latch with vent position zinc die chrome plated

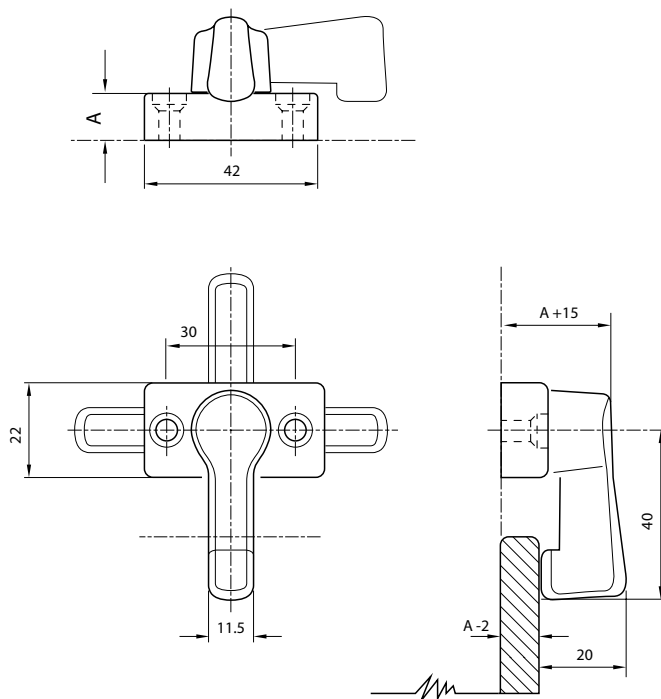
right, as depicted

5072-U805-IA

left, mirror image

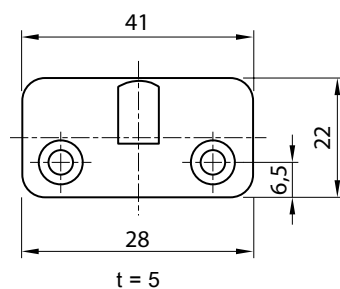
5072-U806-IA

Window connection catch; striker plate PROGRAM 5100



Door lock zinc die chrome plated

A = 5 mm	5100-U830-IA
A = 8 mm	5100-U831-IA



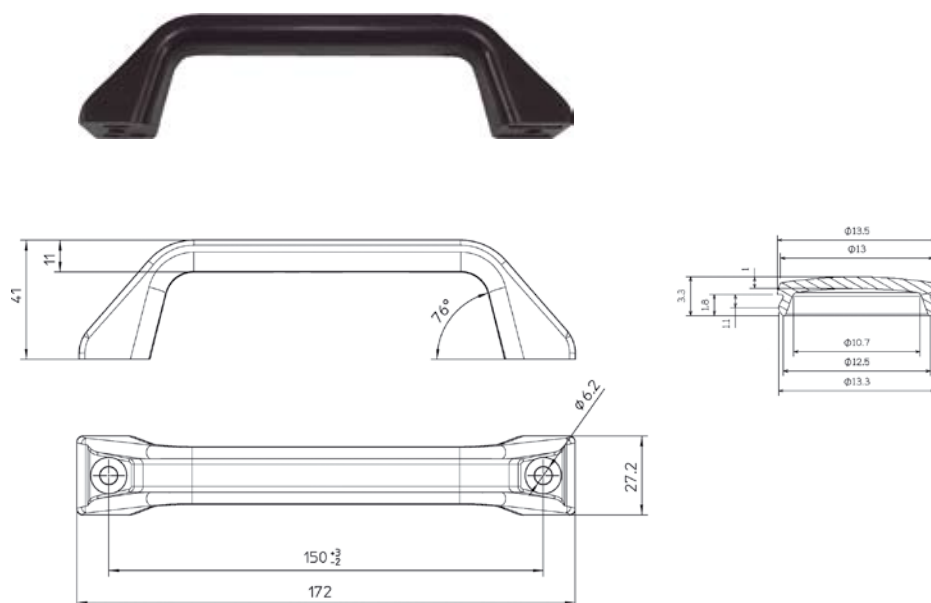
- suitable for all door connecting catches

Catch plate polyamide colour of your choice

cream white	5100-4000-HA
grey	5100-4000-BD

Polyamide handle

PROGRAM 1095



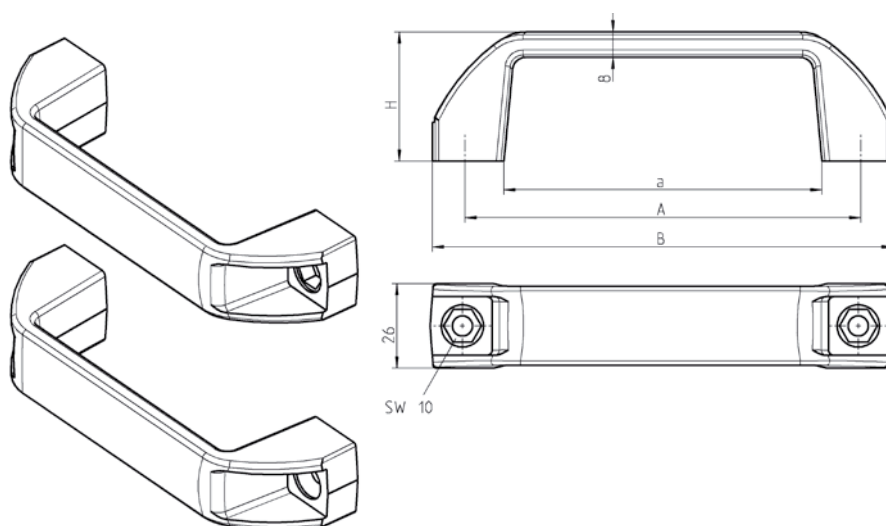
Handle polyamide black

1095-33

Cover polyamide black

(2x per order)

1095-34



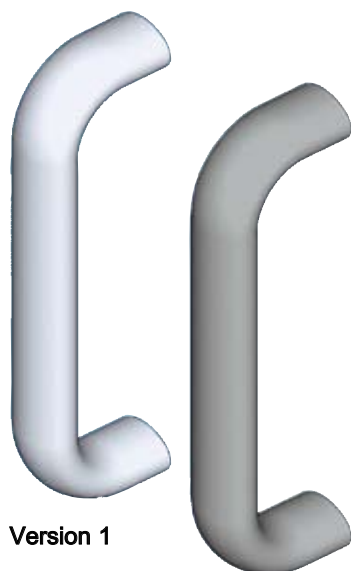
Version 1: a = 98; A = 122; B = 142; H = 40
Version 2: a = 118,5; A = 152; B = 167; H = 53,5

Handle polyamide GF black

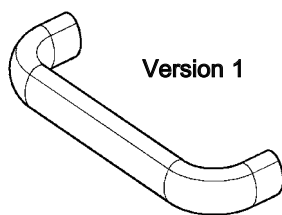
	Version 1	Version 2
Handle for hexagon or socket head screw M6 acc. to DIN 4017/1207	1095-05	1095-19
Handle for countersunk screw M5 or rivet 4.8 mm dia	1095-06	—

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

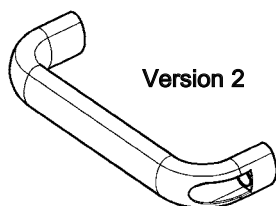
Fastening material is not included in delivery.



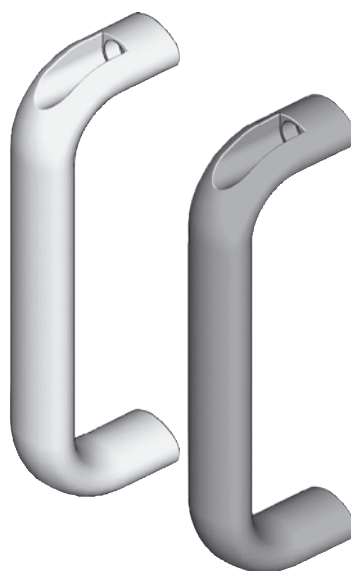
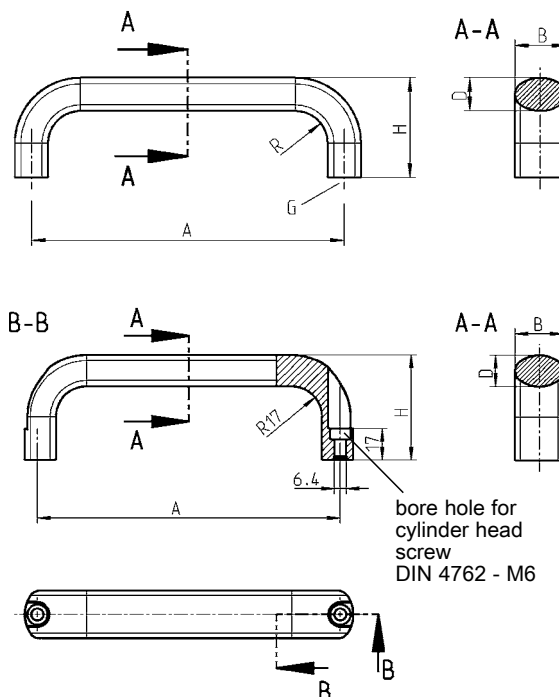
Version 1



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

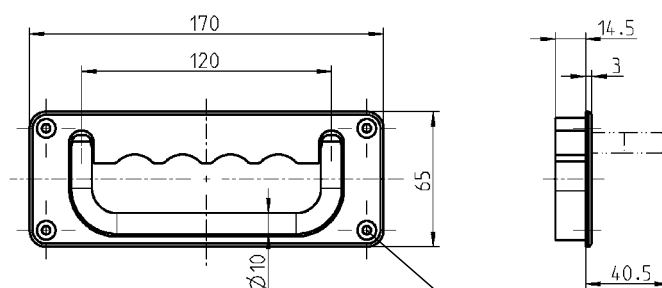
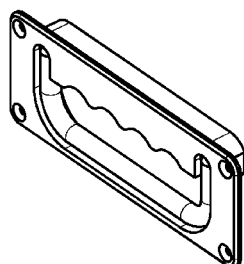
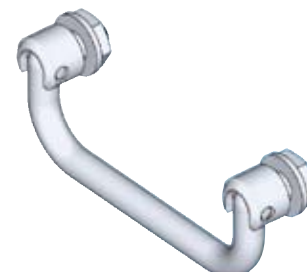
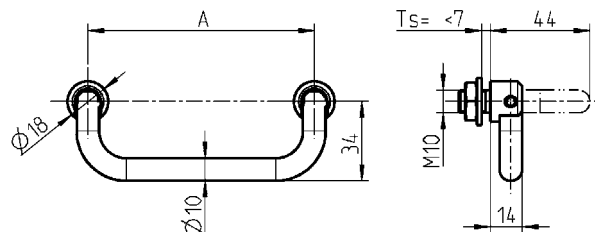
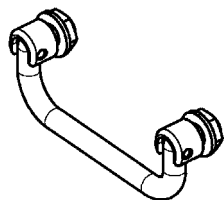
A	B	D		H		raw	anodized	black
116	26	17		53		1095-28-116KB	1095-28-116NA	1095-28-116AA
132	26	17		55		1095-28-132KB	1095-28-132NA	1095-28-132AA
164	26	17		57		1095-28-164KB	1095-28-164NA	1095-28-164AA
196	26	17		57		1095-28-196KB	1095-28-196NA	1095-28-196AA

Version 2

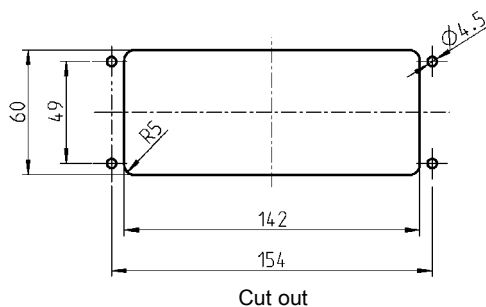
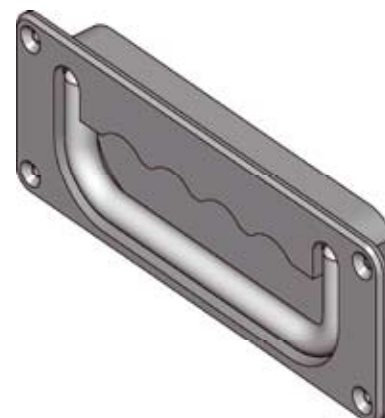
A	B	D		H				AISI 316
116	26	17		53				1095-28-116PH

Fastening material is not included in delivery.

Chest handle PROGRAM 1095



* Fixing hole for countersunk screw M4 DIN 7991



Cut out

* Fastening material is not included in delivery.

** = on request

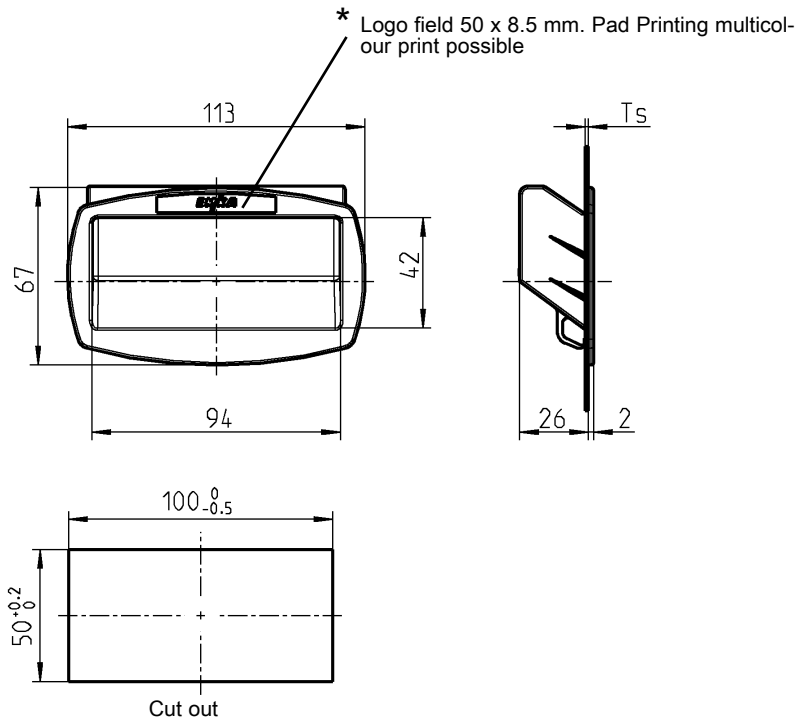
- Handle length 100 instead of 120
- with spring reset of the handle when folded in

Chest handle m.s. chrome plated or stain. 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

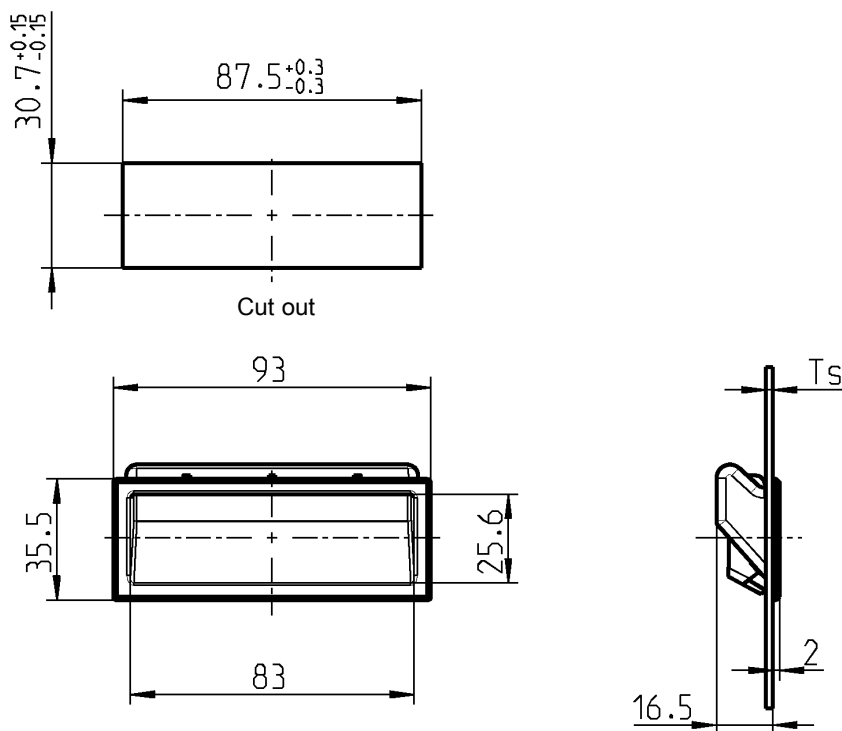
with locking mechanism of the handle both when folded in and out	1095-U32-AA **
--	----------------



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

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

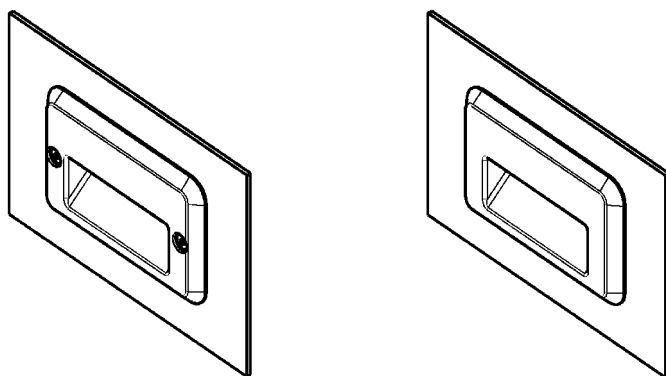


Assembling:
The pull is fitted with clips that automatically snap in behind the door part.

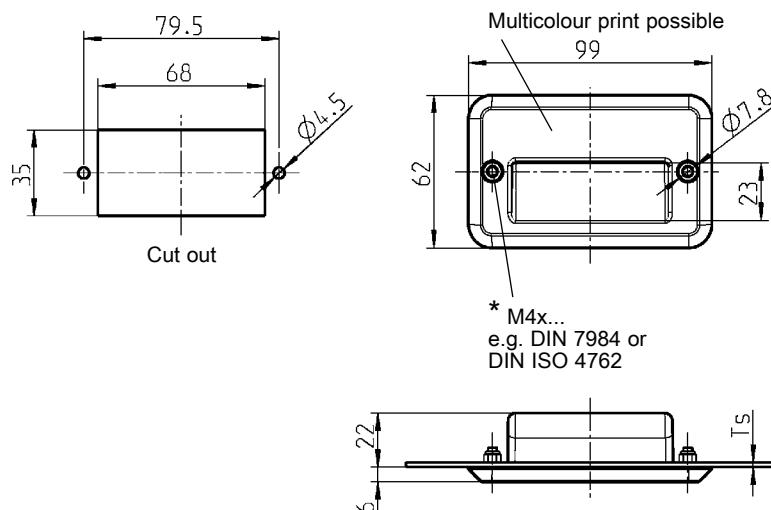
Pull polyamide GF black

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

On request:
– Pulls for further door thicknesses



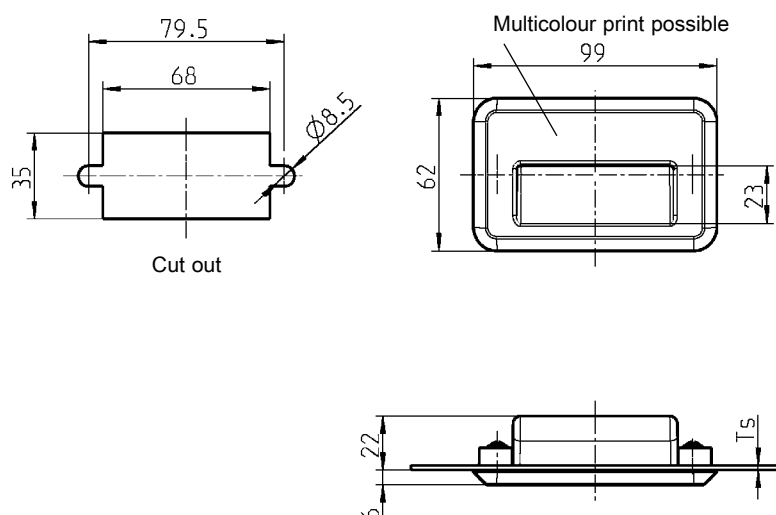
Version A



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
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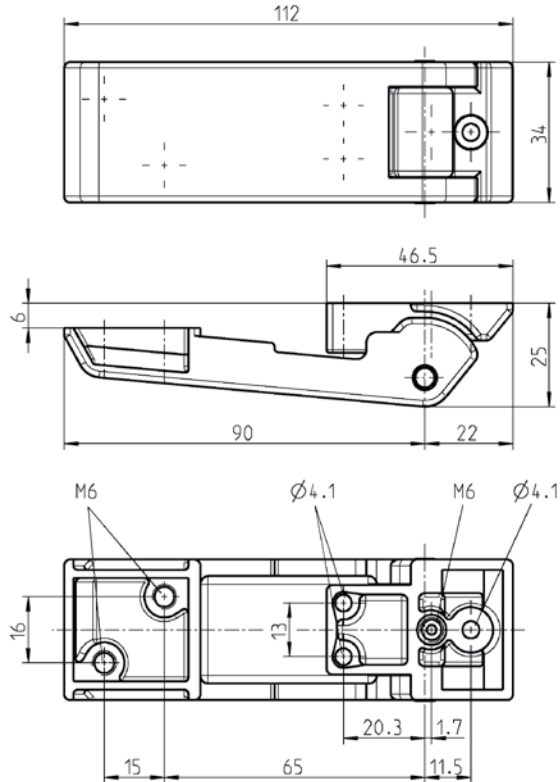
* not included

**On request:
– Pulls for further
door thicknesses

Chapter 2:

Hinges



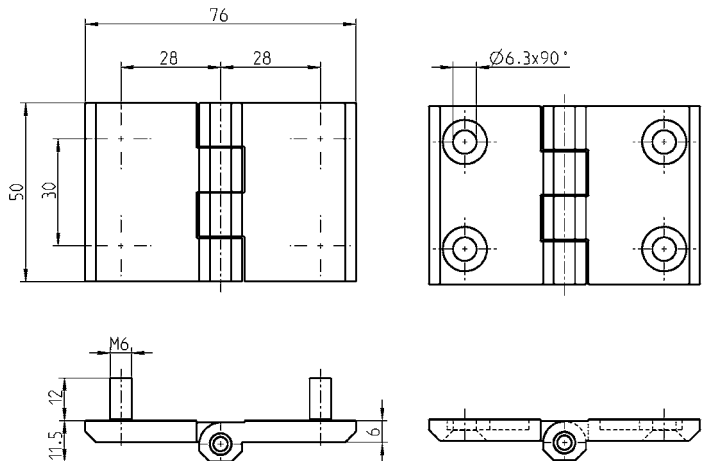
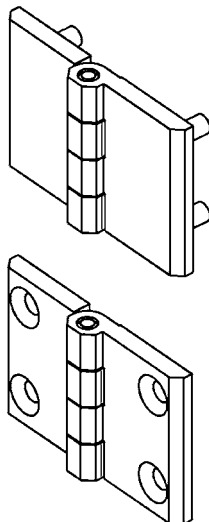
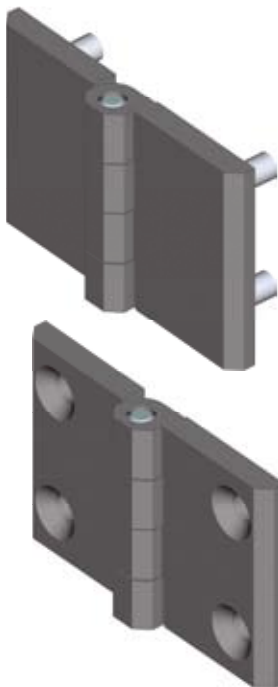


Hinge zinc die white aluminium powder coated, RAL 9006; hinge pin m.s. zinc plated

3060-U380-BK



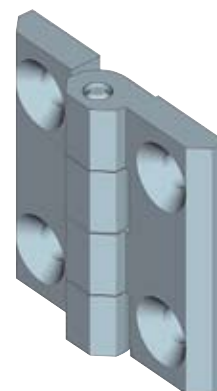
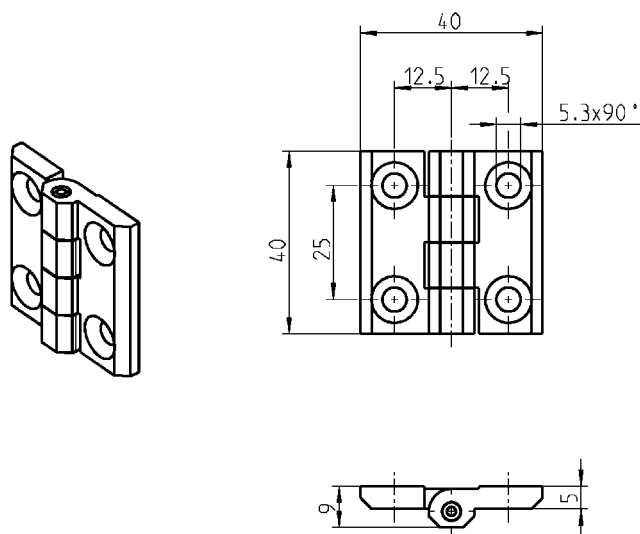
270° screw-on hinge



Screw-on hinge zinc die or stainl. steel, threaded studs M6 stainl. steel

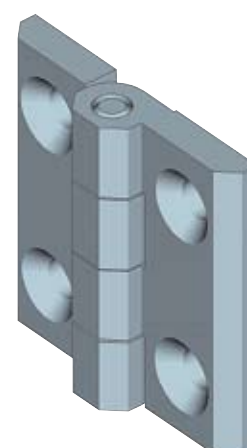
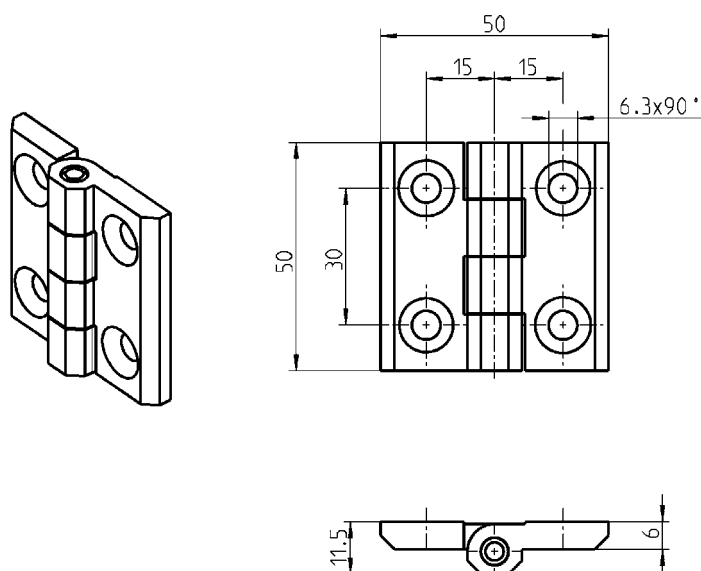
	Pin	with threaded studs M6	for countersunk screw M6 (2D-nut possible)
zinc die chrome pl.	Stainless steel	1056-U15	1056-U17
zinc die black p.c.	Stainless steel	1056-U16	1056-U18
AISI 316	Stainless steel	—	1056-U17-PH

180° Stainless steel screw-on hinge PROGRAM 1056



Screw-on hinge AISI 316 for countersunk screw M5

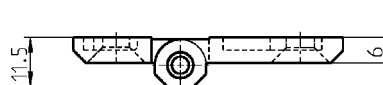
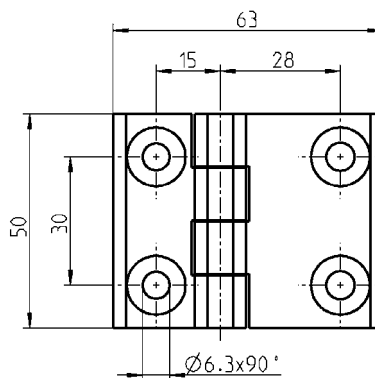
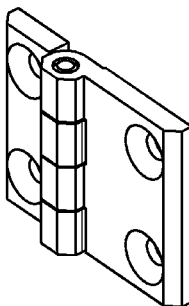
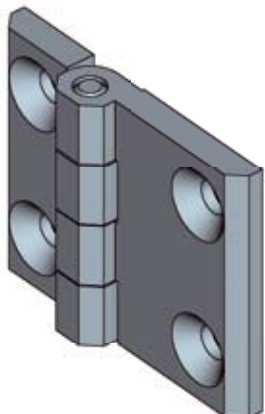
1056-U5-PH



Screw-on hinge AISI 316 for countersunk screw M6

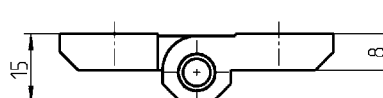
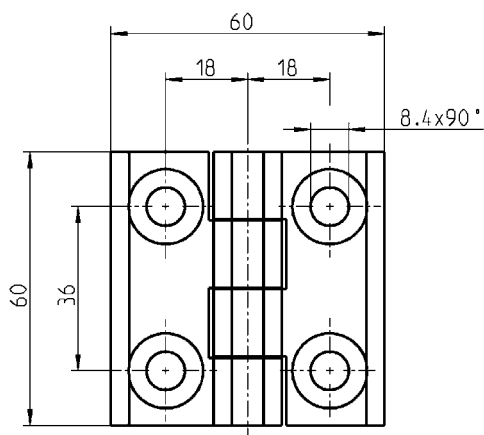
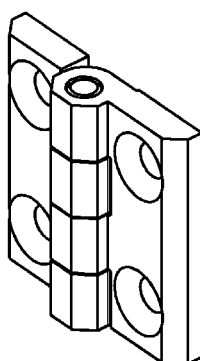
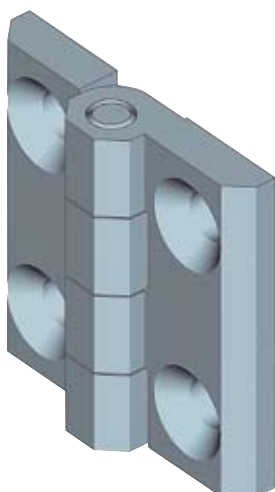
1056-U9-PH

180° Stainless steel screw-on hinge PROGRAM 1056



Screw-on hinge AISI 316, hinge pin stainless steel, for countersunk screw M6

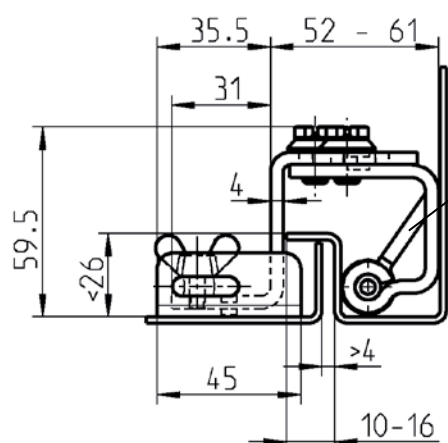
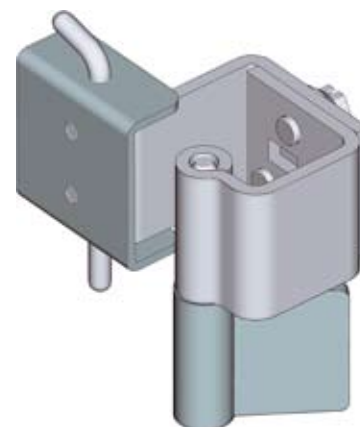
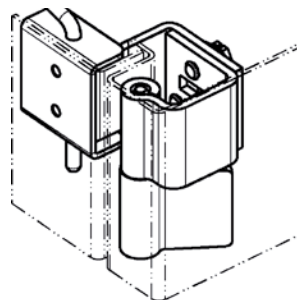
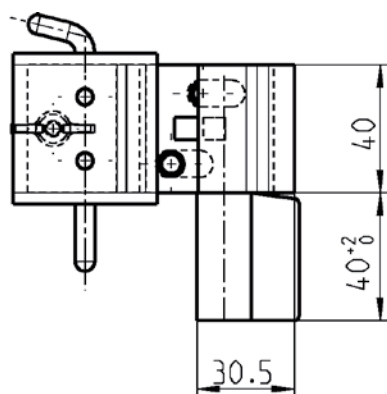
1056-U59-PH



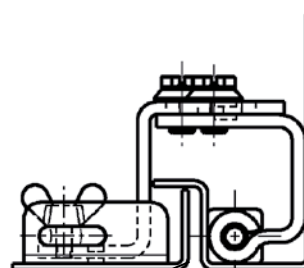
Screw-on hinge AISI 316 for countersunk screw M8

1056-U13-PH

90° concealed hinge PROGRAM 1046



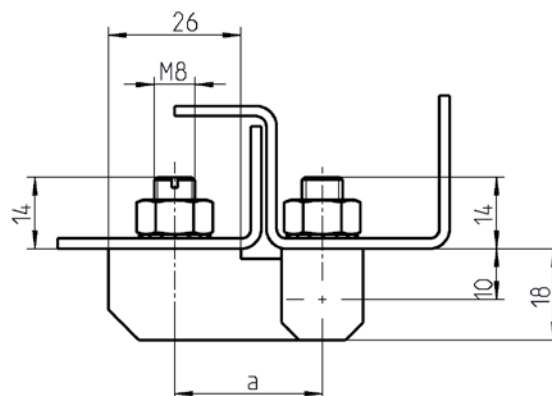
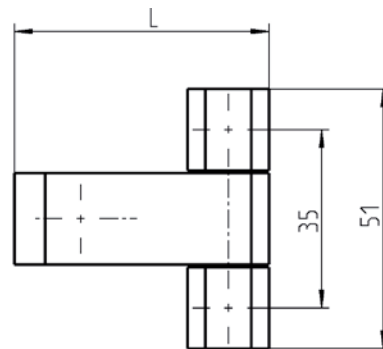
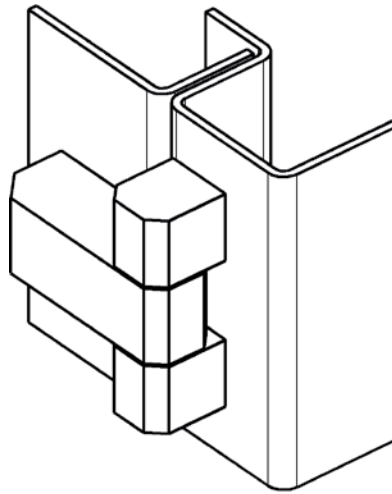
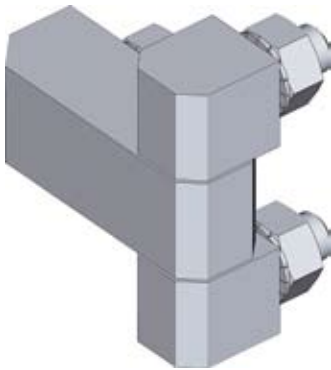
Hinge pin with
flag



Hinge pin with
square

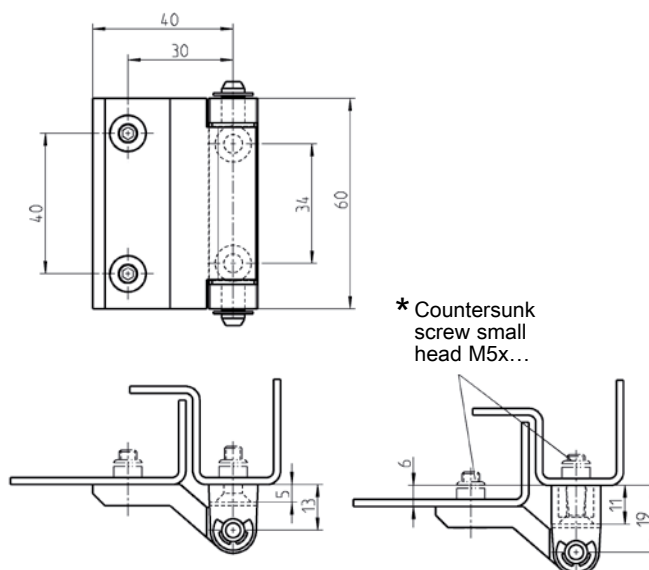
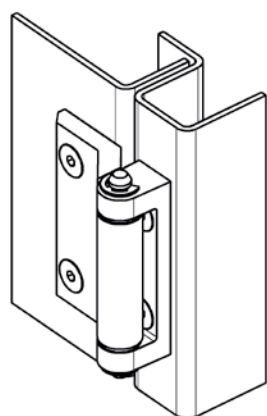
Concealed hinge m.s. zinc pl., weld-on parts m.s. raw

Hinge pin with flag	1046-U2
Hinge pin with square (17x50)	1046-U4



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

180° screw-on hinge PROGRAM 1054



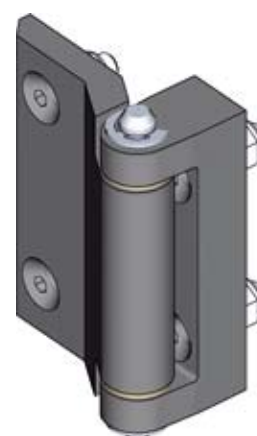
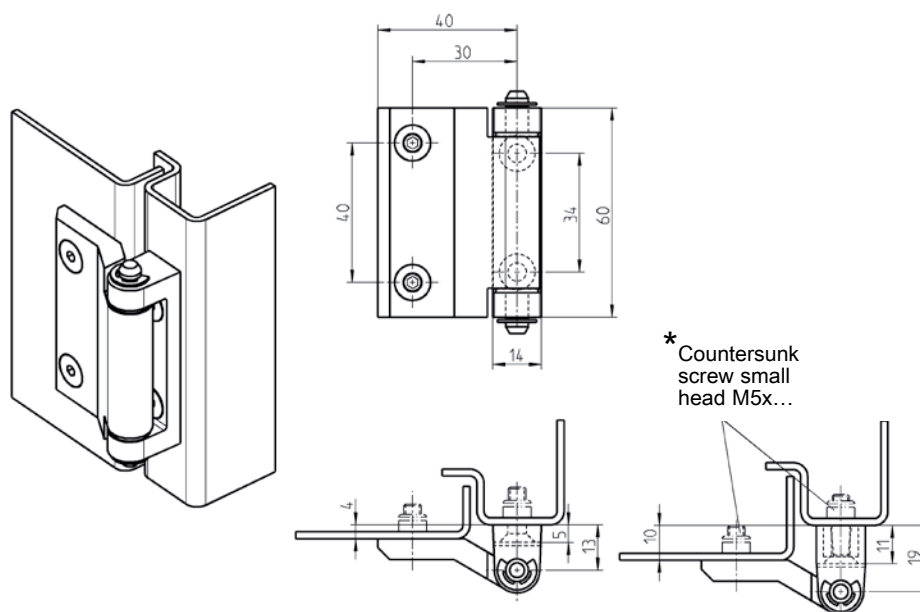
Screw-on hinge zinc die, pin and washer m.s. zinc pl. and bush polyamide

	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	-
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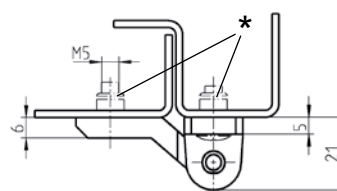
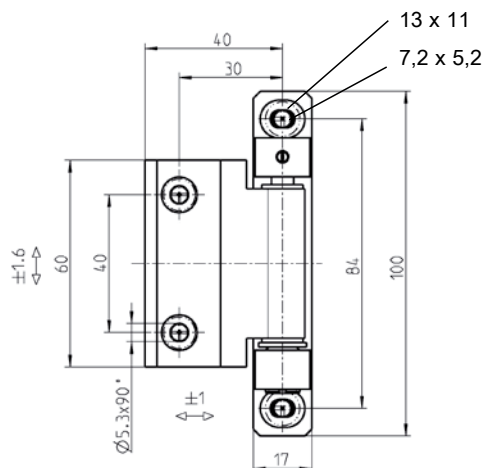
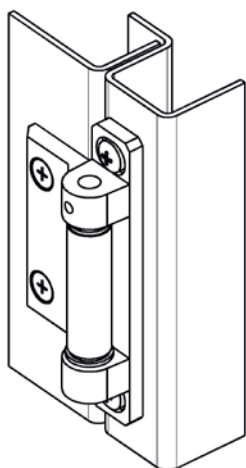
Screw-on hinge zinc die, pin and washer m.s. zinc pl. and bush polyamide

	4 mm higher	10 mm higher
chrome plated	1054-U7	1054-U19
black powder coated	1054-U10	1054-U20
raw	1054-U18**	1054-U21**

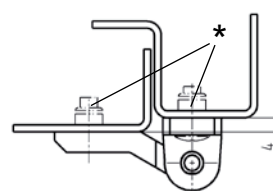
** = Minimum order quantity 1000 pcs.

* not included

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



Version A

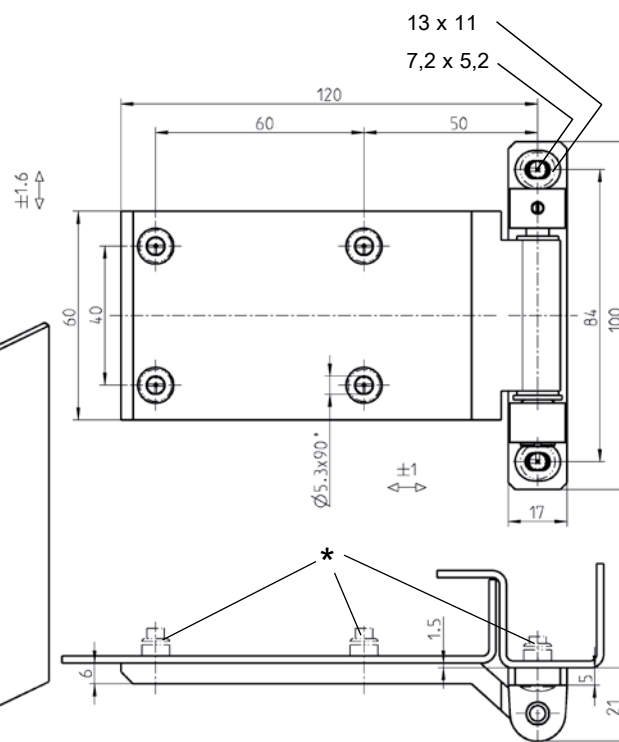
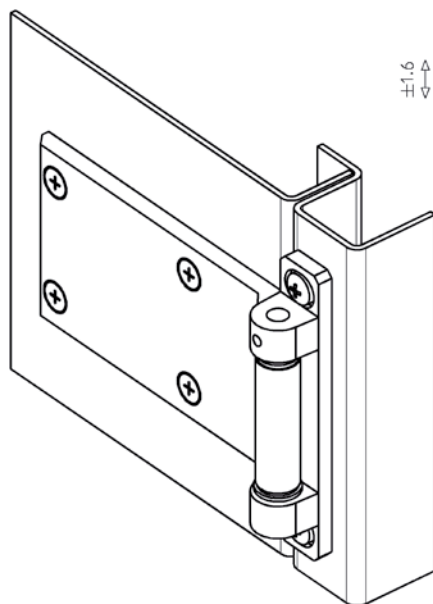
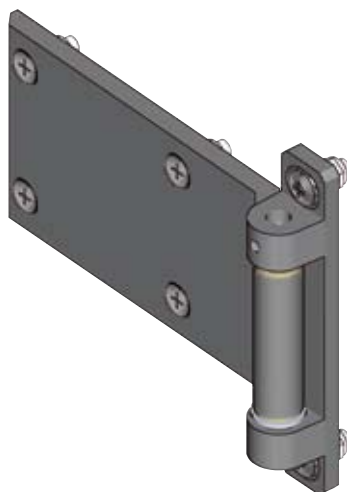


Version B

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

Hinge pin is self-gripping

Countersunk for small head countersunk screw M5x



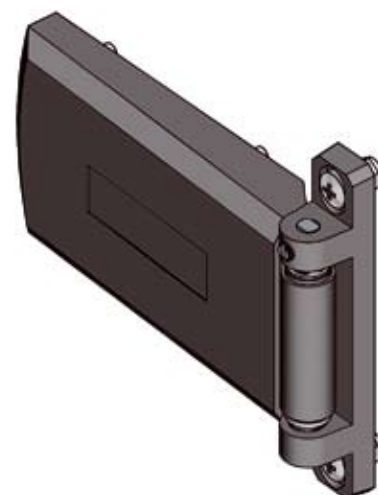
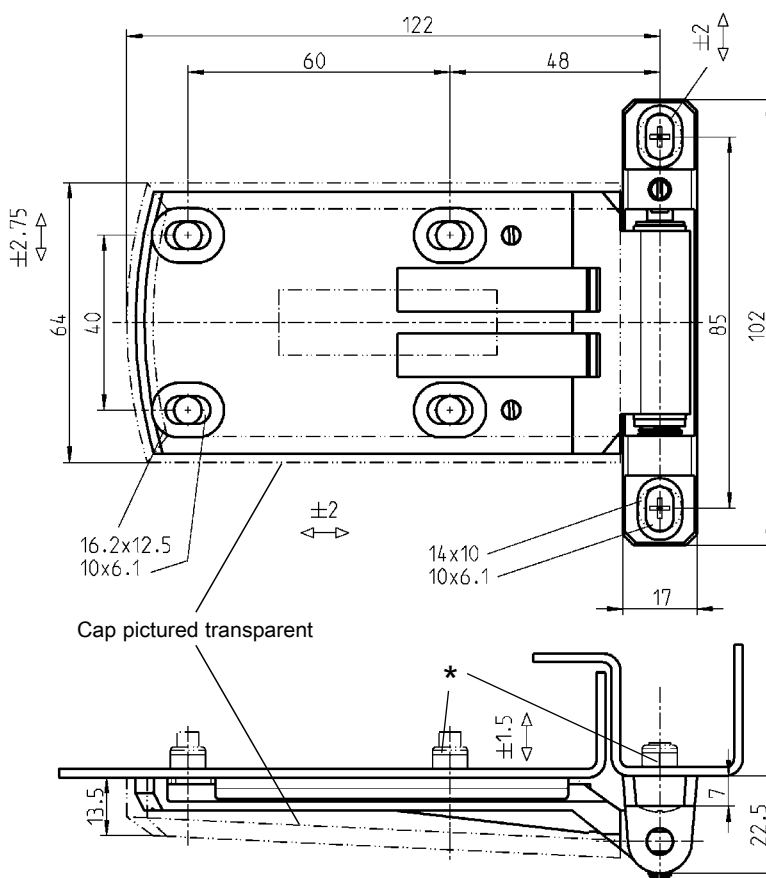
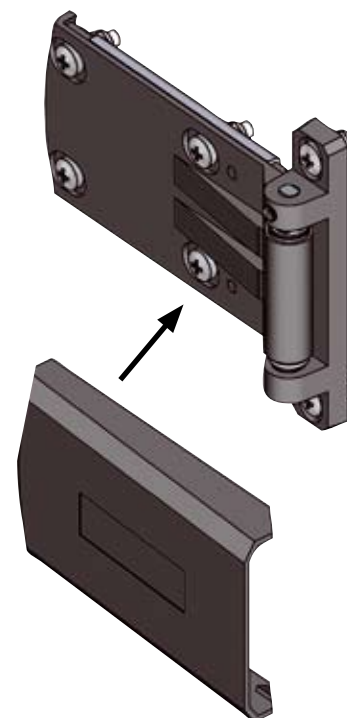
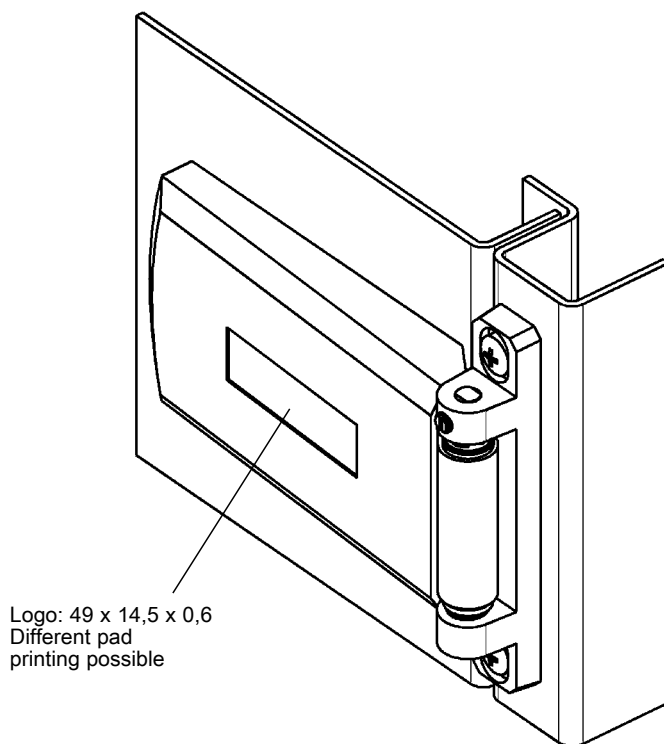
Version C

* not included

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

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

180° 3D-screw-on hinge PROGRAM 1054



3D-screw-on hinge zinc die black p.c., axle stainless steel,
pin and washer steel zinc pl., cap and bush polyamide black

RH version

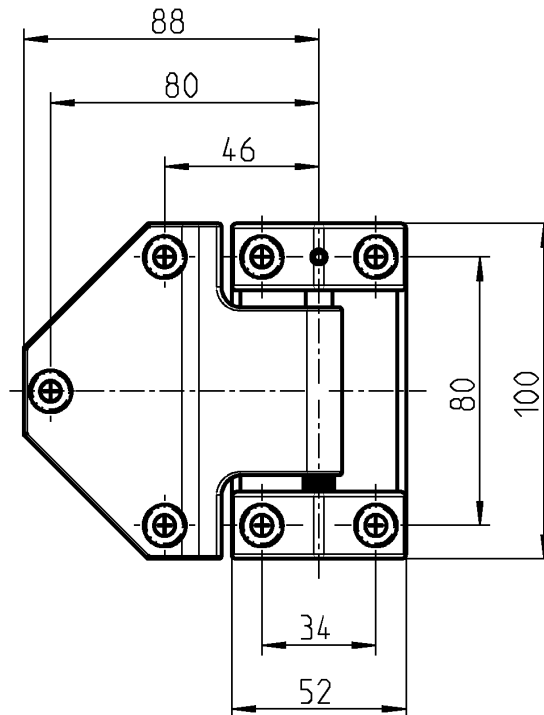
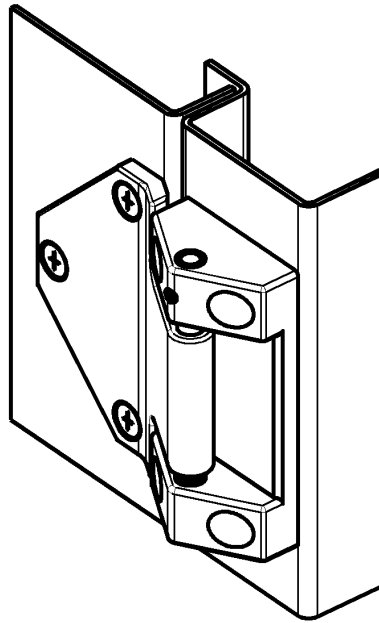
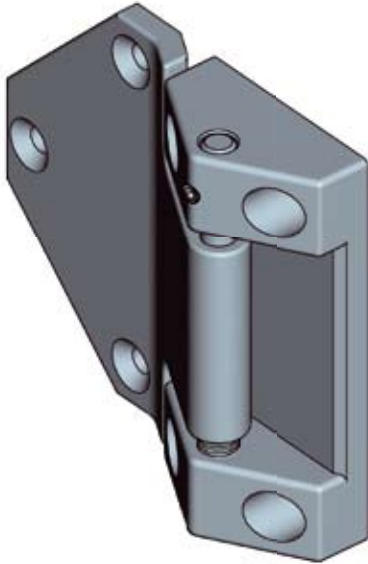
1054-U36-RE

LH version

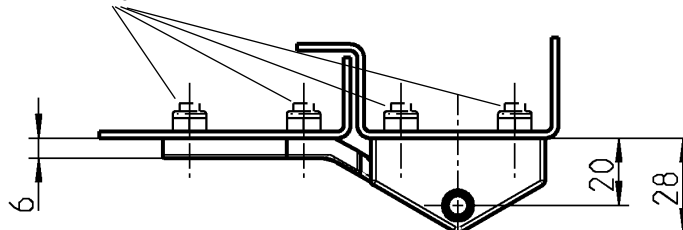
1054-U36-LI

* not included

RH- or LH-version by turning
around the door part



* Countersunk screw
smallhead
M6x...



Height adjustment ± 4 mm

RH or LH version by turning
around the door part

* not included

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

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

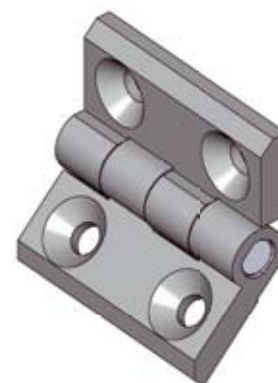
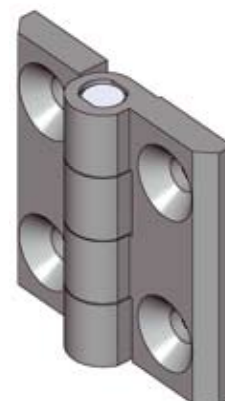
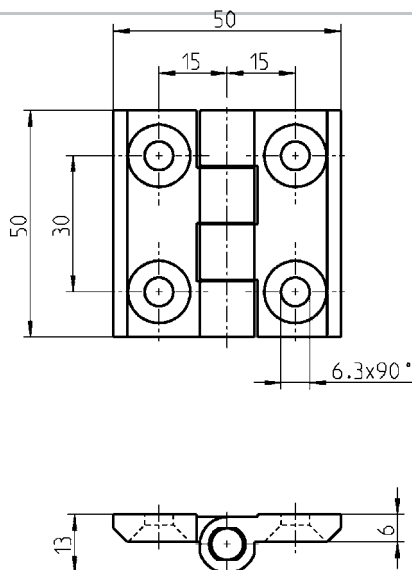
1054-U39

180° screw-on torque hinge

PROGRAM 1056

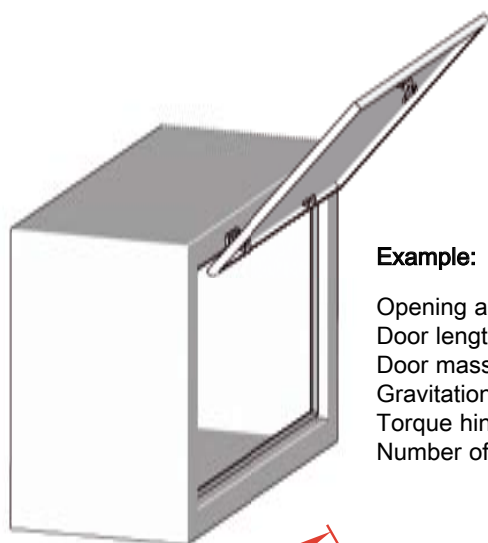
Product benefits

- holds any position continuously at adequate load
- constant torque across 180° adjustment range
- same torque while opening and closing
- compatible with all hinges of the 1056 program with identical cut out
- can replace door stops, cover stays or gas springs depending on installation location



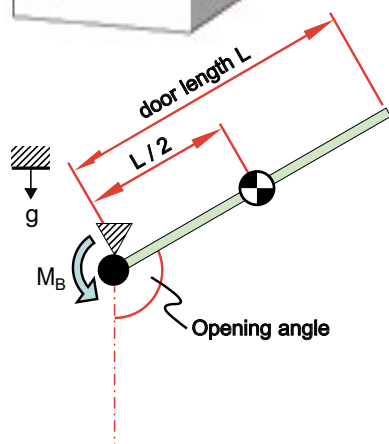
Dimensioning / calculation:

The number of hinges in case of covers depends on the size and the weight of the cover. We are pleased to help you with the dimensioning of the hinges on request.



Example:

Opening angle: α = 120°
 Door length: L = 0,4 m
 Door mass: m = 2 kg
 Gravitational pull: g = 9.81 m/s²
 Torque hinge: M = 2 Nm
 Number of hinges: n = ?



Formula:

$$\text{Total } M = \left(\frac{L \times m \times g \times \sin \alpha}{2} \right)$$

Result:

3.4 Nm = 2 hinges

Torque hinge

The hinge can be set continuously in any position. There it remains in the same position. The torque is the same during opening and closing.

Application:

This torque hinge is suitable for doors and covers.

Technical data:

10,000 cycles
 at 180° open - close

Also available on request with 1.0 Nm

180° screw-on torque hinge zinc-die black powder-coated;
 two torque units m.s. nickel-plated

Nm	Tolerance ± %	
2.0	25	1056-U110

Further parts see page
 – 2D-nut

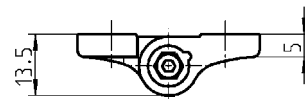
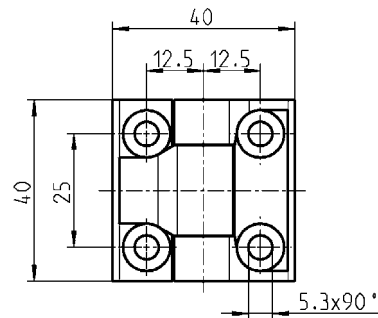
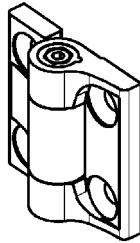
12E-120

180° screw-on torque hinge with adjustment function

PROGRAM 1056

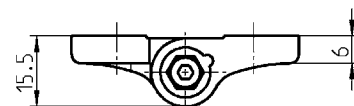
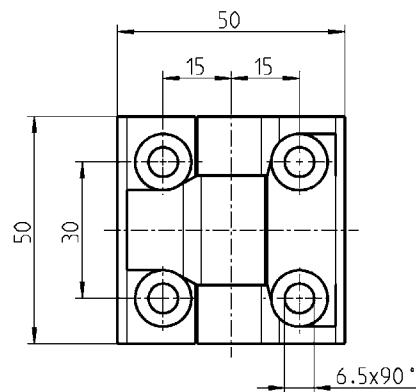
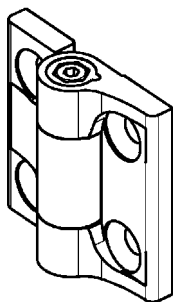
Product benefits

- adjustable torque
- holds any position continuously at adequate load
- constant torque across 180° adjustment range
- same torque while opening and closing
- compatible with all hinges of the 1056 program with identical cut out
- can replace door stops, cover stays or gas springs depending on installation location



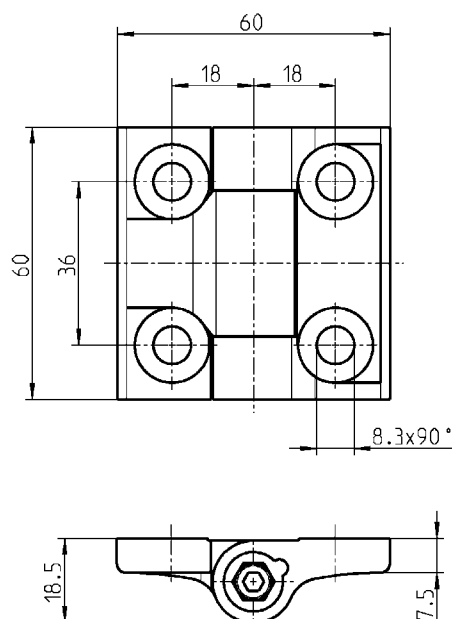
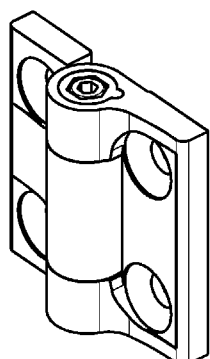
180° screw-on torque hinge zinc-die black powder-coated for countersunk screw M5;
friction cone polyacetal POM; screw and nut m.s. zinc-plated

Nm	max. tightening torque of screw in Nm	
to ~ 2	0,5	1056-U6-01



180° screw-on torque hinge zinc-die black powder-coated for countersunk screw M6 (2D nut can be used);
friction cone polyacetal POM; screw and nut m.s. zinc-plated

Nm	max. tightening torque of screw in Nm	
to ~ 4	0,75	1056-U10-01



180° screw-on torque hinge zinc-die black powder-coated for countersunk screw M8; friction cone polyacetal POM; screw and nut m.s. zinc-plated

Nm	max. tightening torque of screw in Nm
to ~ 6.5	1,5

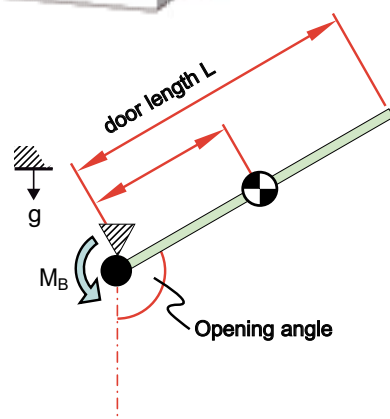
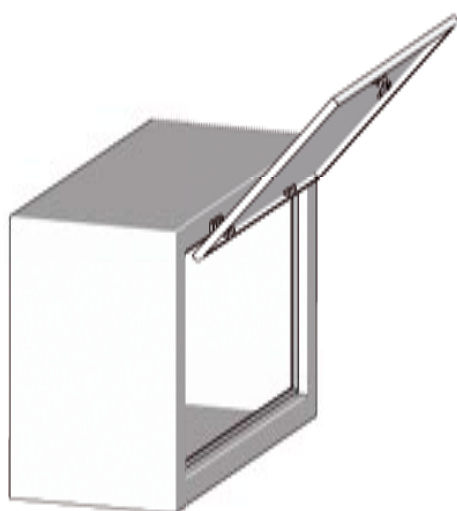
1056-U14-01

Dimensioning / calculation:

The number of hinges in case of covers depends on the size and the weight of the cover. We are pleased to help you with the dimensioning of the hinges on request.

Example:

Opening angle: $\alpha = 120^\circ$
 Door length: $L = 0,8 \text{ m}$
 Door mass: $m = 3,5 \text{ kg}$
 Gravitational pull: $g = 9,81 \text{ m/s}^2$
 Torque hinge: $M = 6,5 \text{ Nm}$
 Number of hinges: $n = ?$



Formula:

$$\text{Total} \left(\right)$$

Result:

11.9 Nm = 2 hinges of item no. 1056-U14-01



Torque hinge

The hinge can be set continuously in any position. There it remains in the same position. The torque is the same during opening and closing.

Application:

This torque hinge is suitable for doors and covers.

Further parts see page

– 2D-nut 12E-120
 (only for 1056-U10-01)

Chapter 3: Gasketing



Notes:

Lined area for notes.

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:

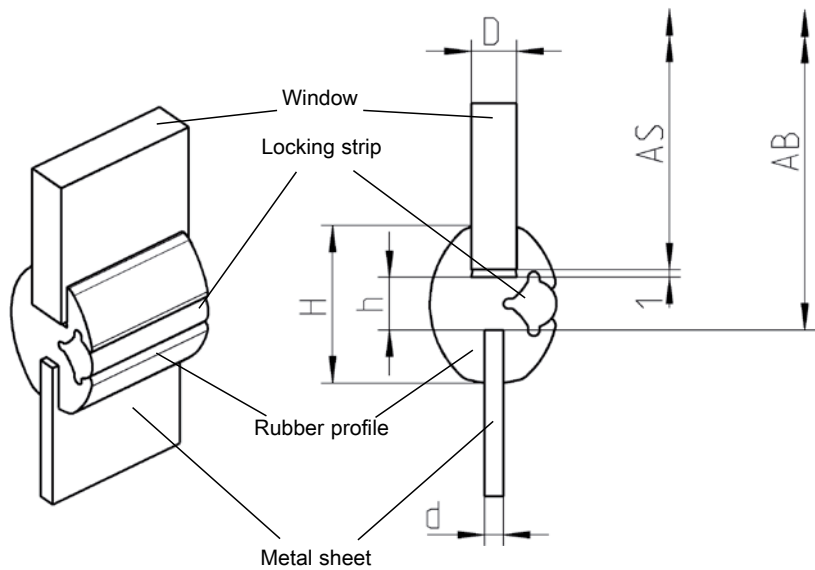
Because of the large variety of possible chemicals, solvent (concentrations), operating temperatures and times, no evaluations concerning the possible resistances can be made at this point. In every individual case, a test under the present circumstances, like concentration, temperature and duration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

Fire protection:

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

Disclaimer:

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.



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

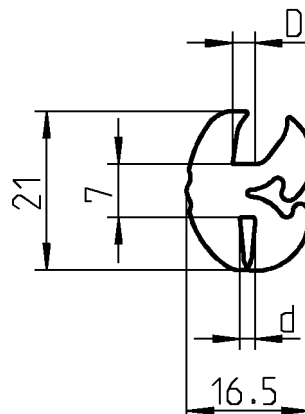
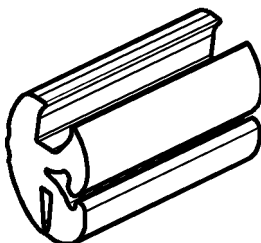
The indication of the bending radius is based on the pane receiver = AS + 1 mm

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

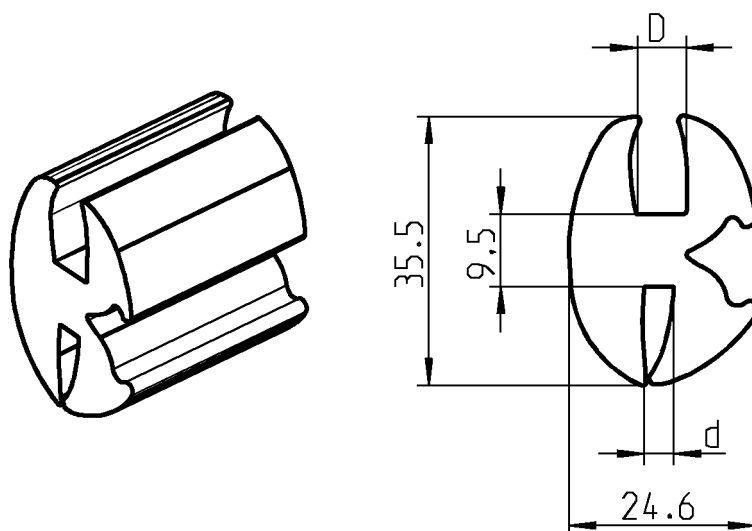


Glazing profile EPDM 70° ± 5 Shore black with Filler EPDM 80° ± 5 Shore black

D	D	Bending radius	Rubber profile	+	Locking strip
4	1.5	>80	1030-HP453	+	1030-HP454

Window-rubber with locking strip

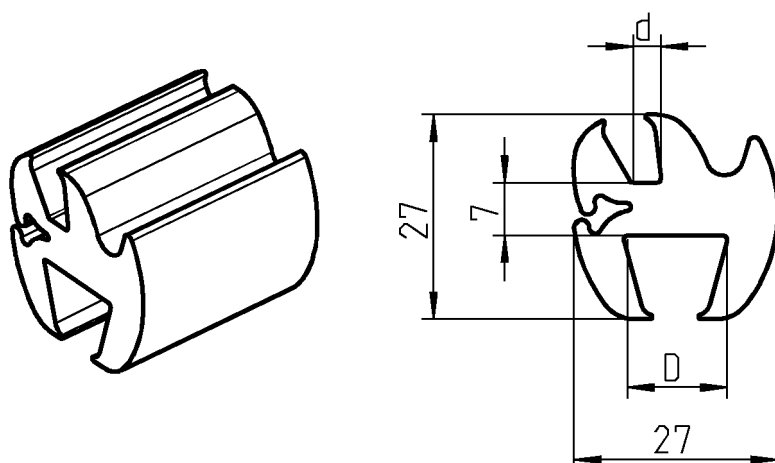
PROGRAM 1030



Glazing profile EPDM 70° ± 5 Shore black
with Filler EPDM 80° ± 5 Shore black

D	D	Bending radius		Rubber profile	+	Locking strip
6	3.5	>100		1030-HP488	+	1030-HP454

Gasketing



Glazing profile EPDM 70° ± 5 Shore black
with Filler EPDM 80° ± 5 Shore black

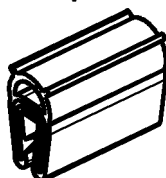
D	D	Bending radius		Rubber profile	+	Locking strip
13	3.5	>100		1030-HP511	+	1030-HP454



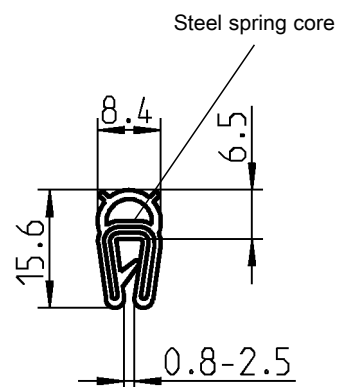
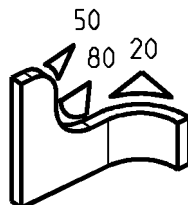
c **RU** [®] **US** *



<3



compression



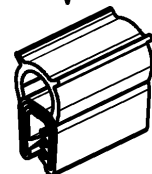
Material for gasket depends upon choice

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

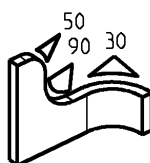
c **RU** [®] **US** *



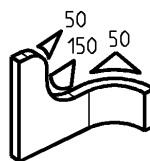
<6



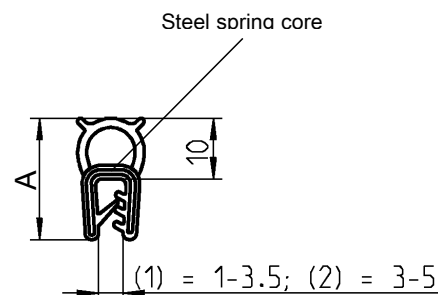
compression



1011-05, -15



1011-47, -49



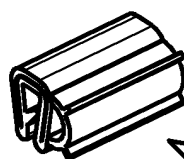
Material for gasket depends upon choice

	A	
Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore)	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)	21	1011-49 (2)
Sponge rubber (NBR) black (gripping profile NBR 60° ±5 Shore A)	21	1011-47 (2)

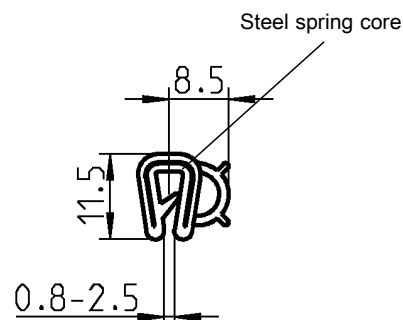
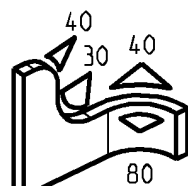
c **RU** [®] **US** *



<3.5



compression



* c **RU** [®] **US**

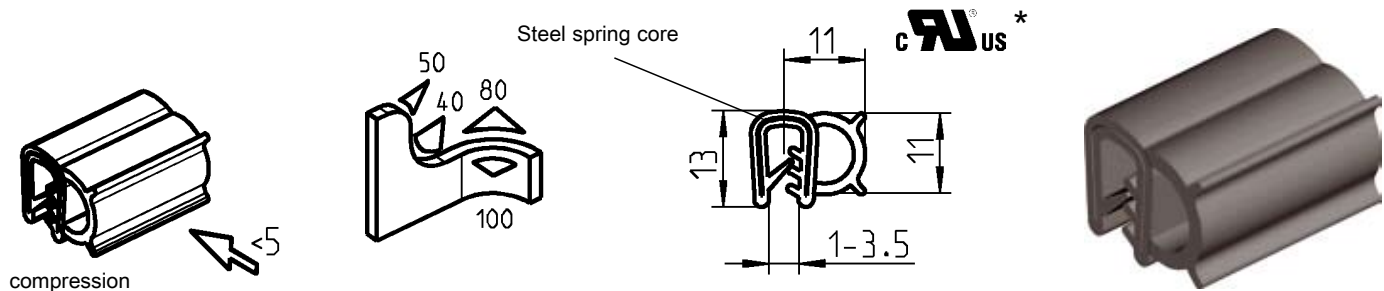
UL 50
UL 50(E)
UL 94-HB

Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore A)

1011-09*

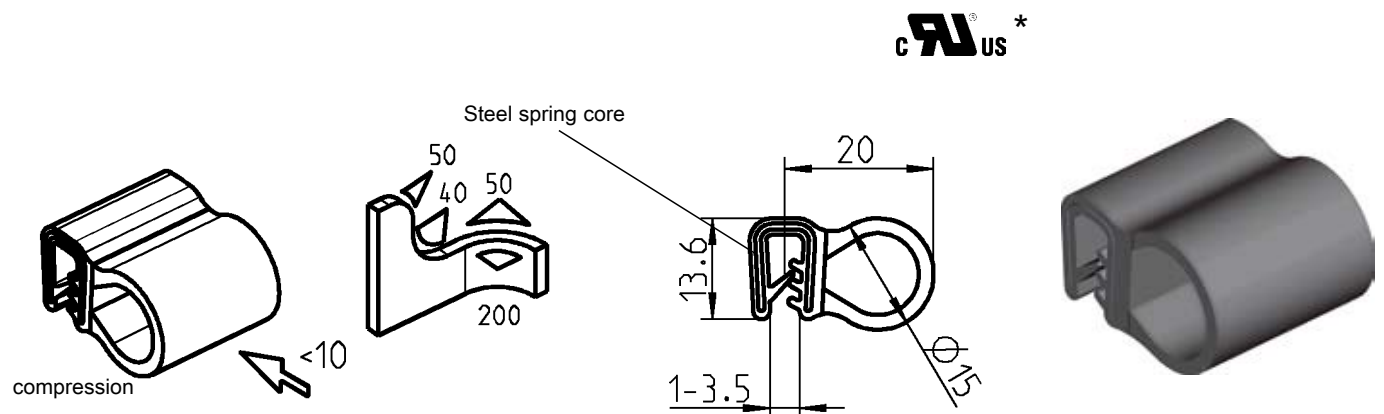
Self-clamping gasketing

PROGRAM 1011



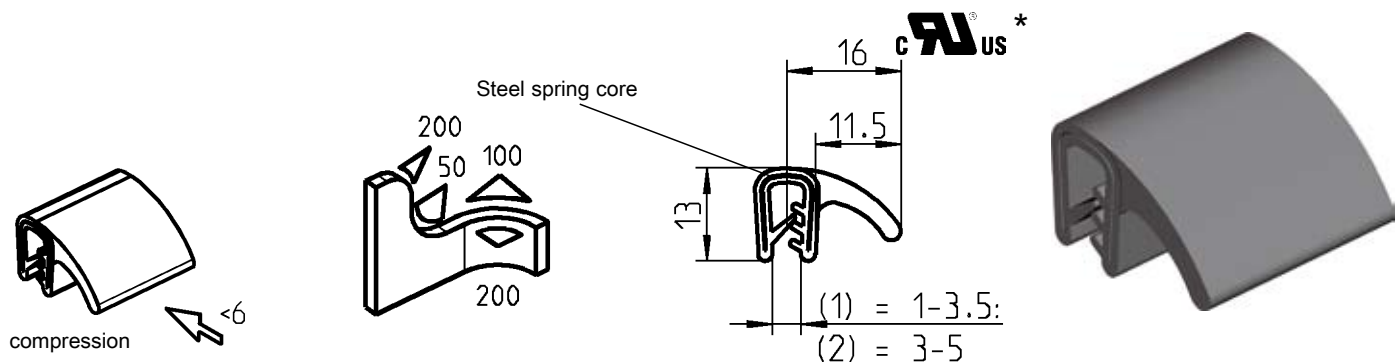
Material for gasket depends upon choice

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



Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore A)

1011-12*



Material for gasket depends upon choice

Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore)	(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

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

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:

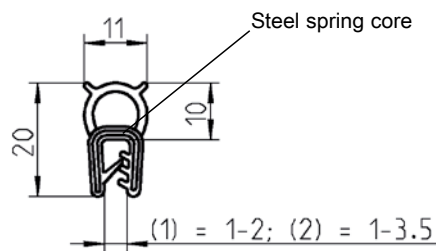
Operation category	Building class			
	N: Standard vehicles	A: Vehicles for automatic train operation not having staff on board that is trained for emergencies.	D: Double-decker trains	S: Sleepers and couchettes (bilevel or unilevel)
1	HL1	HL1	HL1	HL2
2	HL2	HL2	HL2	HL2
3	HL2	HL2	HL2	HL3
4	HL3	HL3	HL3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

Operation categories:

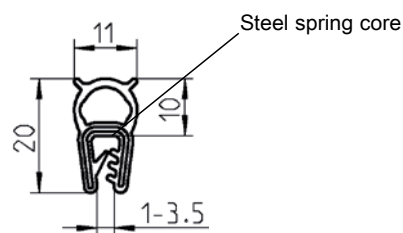
Operation category 1: surface vehicles
 Operation category 2: tunnel max. 5 km
 Operation category 2: tunnel > 5 km
 Operation category 4: tunnel, evacuation from the side not possible

Gasketing:

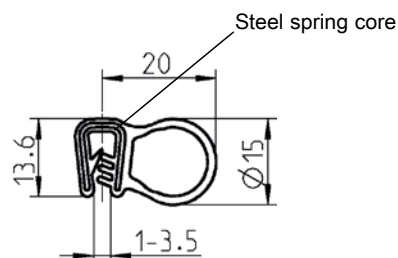
The gasketing has been included in DIN EN 45545 and have to meet the requirements R22 for indoors or R23 for outdoors as a function of the Hazard Level. In order to be able to define the Hazard Level, you need to know the Operation Category and Building Class, e. g. 2 (tunnel max. 5 km) D (double-decker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



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

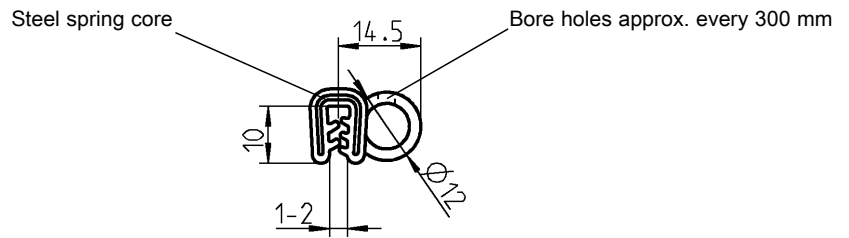


Fire protection sealing profile silicon solid material		
①②③④	graphite grey 65° ±5° Shore A	1011-S47-BF
②③	white 75° ±5° Shore A	1011-S47-HA



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

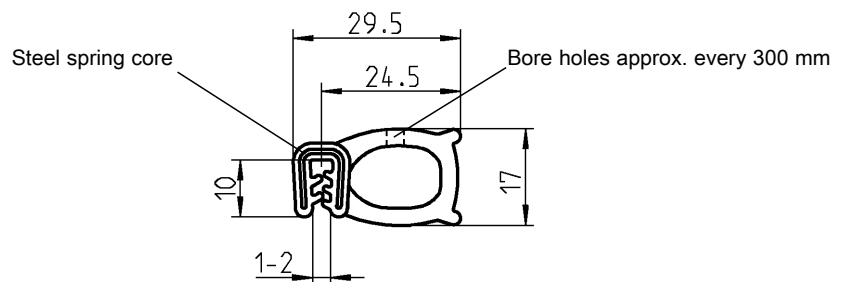
Fire protection standards	
①	DIN 5510-2
②	NF F 16-101/ -102
③	DIN EN 45545-2
④	UNI CEI 11170
⑤	ASTM C542-90
⑥	ASTM E662-95
⑦	SMP 800-C



Fire protection sponge-rubber (EPDM) black (gasket sponge-rubber EPDM)

⑤ ⑥ ⑦

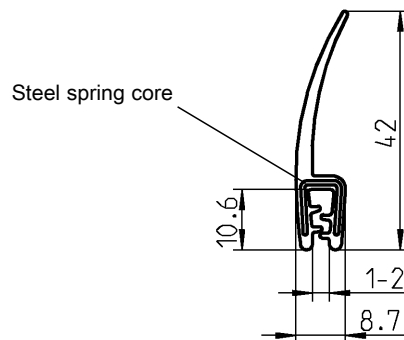
1011-S23



Fire protection sponge-rubber (EPDM) black (gasket sponge-rubber EPDM)

⑤ ⑥ ⑦

1011-S24



Fire protection sealing profile silicon solid material 65° ±5° Shore A graphite grey

① ② ③ ④

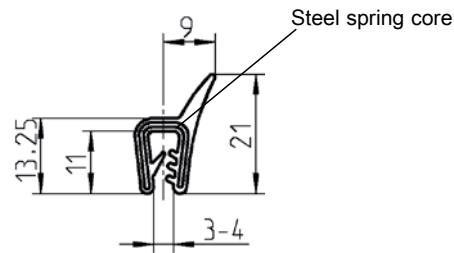
1011-S83-BF

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

Fire protection gaskets

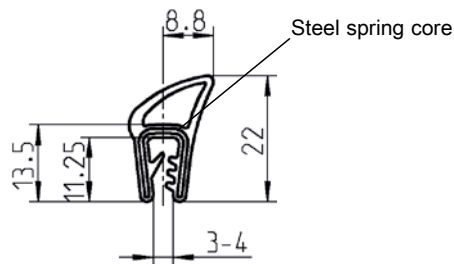
PROGRAM 1003, 1011



Fire protection sealing profile silicon solid material 65° ±5° Shore A graphite grey

①②③④

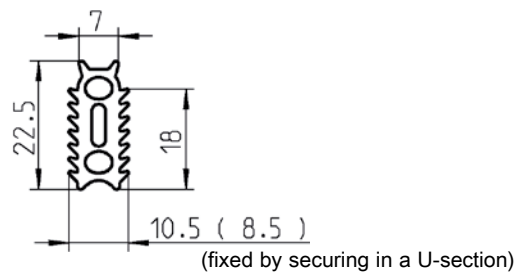
1011-S53-BF



Fire protection sealing profile silicon solid material 65° ±5° Shore A graphite grey

①②③④

1011-S56-BF



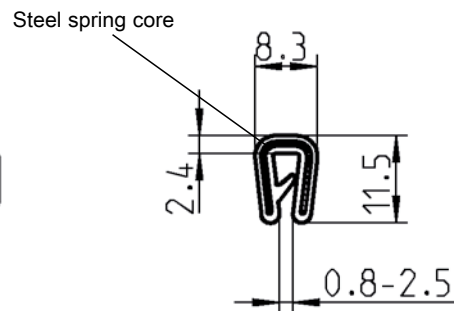
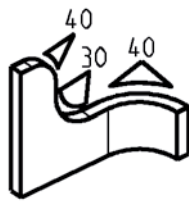
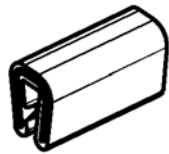
Fire protection sealing profile material of your choice

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

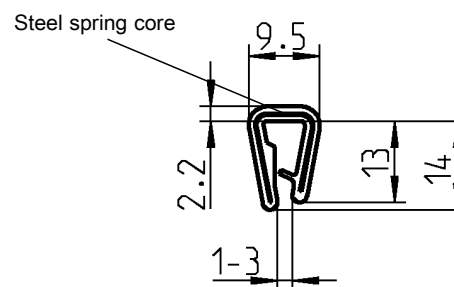
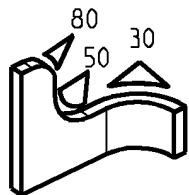
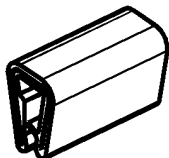
Notes:

Lined area for notes.



Edge-protection EPDM 60° ± 5 Shore A black

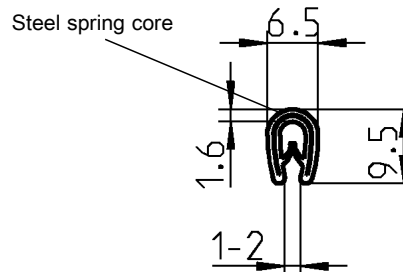
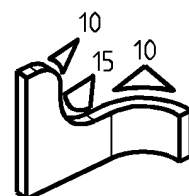
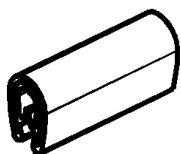
1010-12



Edge protector PVC grey

1010-05

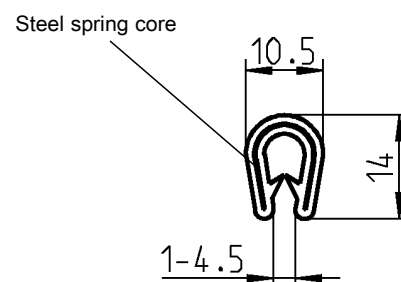
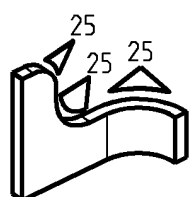
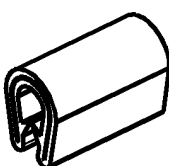
Temperature = -40°C to 90°C



Edge-protection PVC black

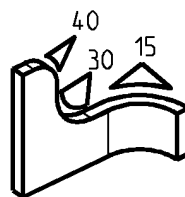
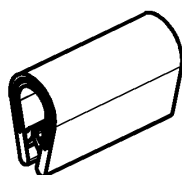
1010-02

Temperature = -40°C to 90°C

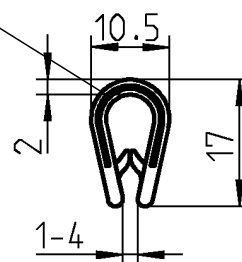


Edge-protection PVC black

1010-01

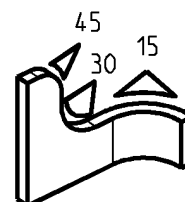
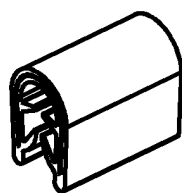


Steel spring core

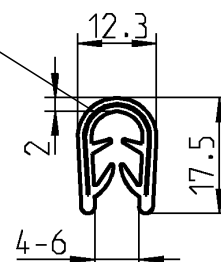


Edge-protection PVC black

1010-08



Steel spring core



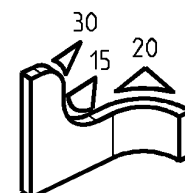
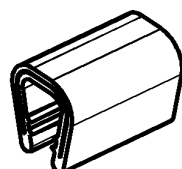
Edge protection PVC color of your choice

black

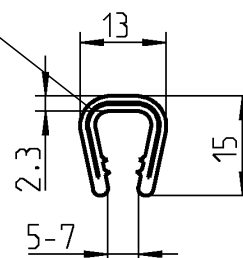
1010-11

dark grey

1010-11-01



Steel spring core



Edge protection color of your choice

black

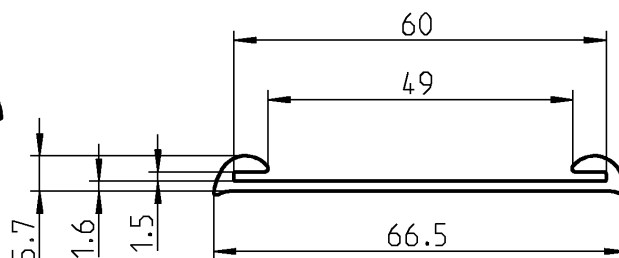
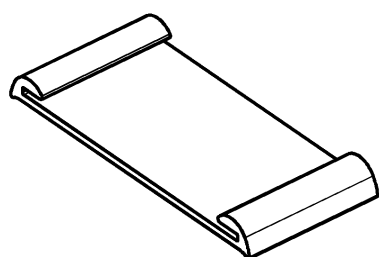
1010-06

light-grey

1010-06-01

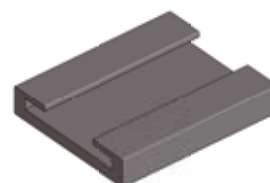
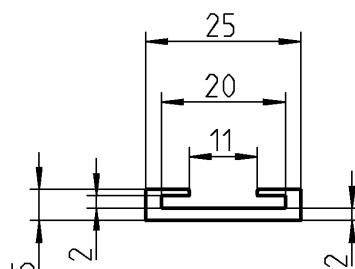
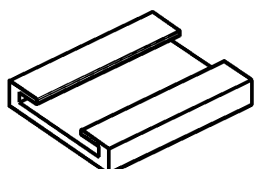
Support for tank bands

PROGRAM 1038



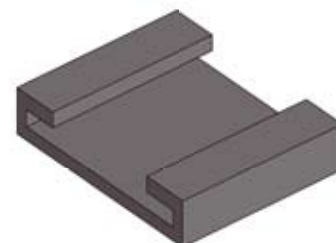
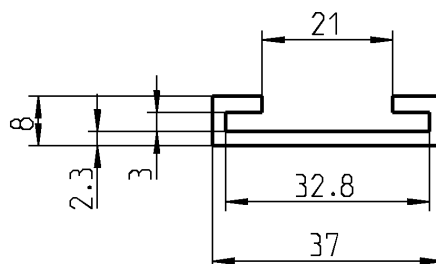
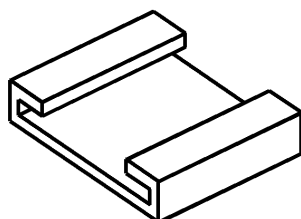
Support for tank bands EPDM 60° Shore A black

1038-HP437



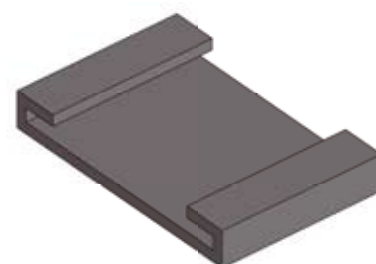
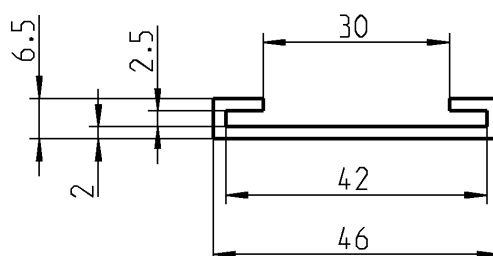
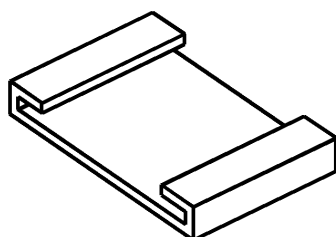
Support for tank bands NBR 70° Shore A black

1038-HP353



Support for tank bands NBR 70° Shore A black

1038-HP298



Support for tank bands NBR 70° Shore A black

1038-HP299

Chapter 4:

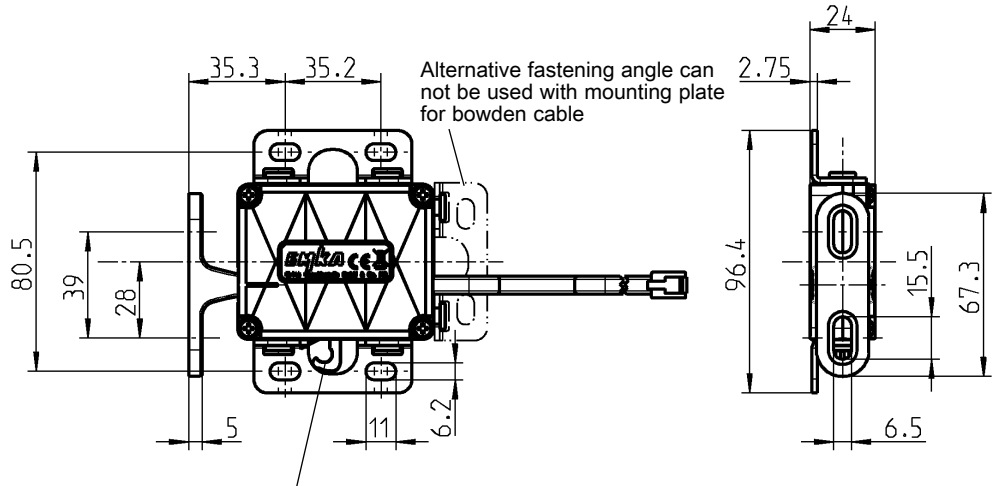
electromechanical locking systems



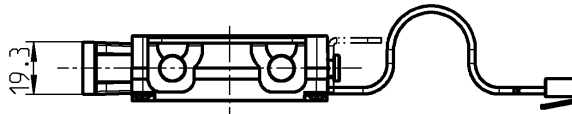


Single point latch with integrated status contact

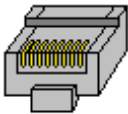
The single-point-locking is applicable in special application areas. The single-point-locking is designed for the connection with the control modules 3000-U32-0x and 3000-U33-0x.



Lever for mechanic unlock, e.g. bowden cable



Connection notes

RJ45 plug front view	Pin number on plug	Signal	Colour
 87654321	3	contact	black
	4	(-)	red
	5	(+)	Green
	6	contact	yellow

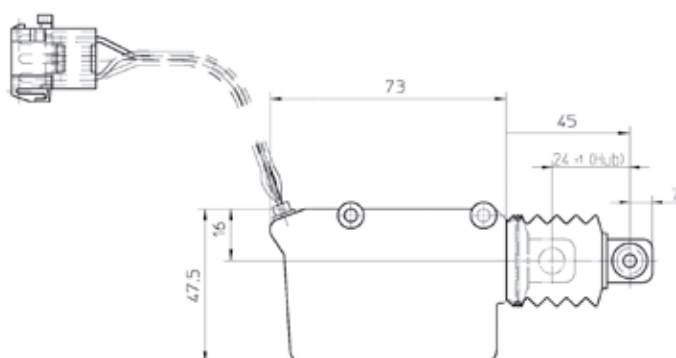
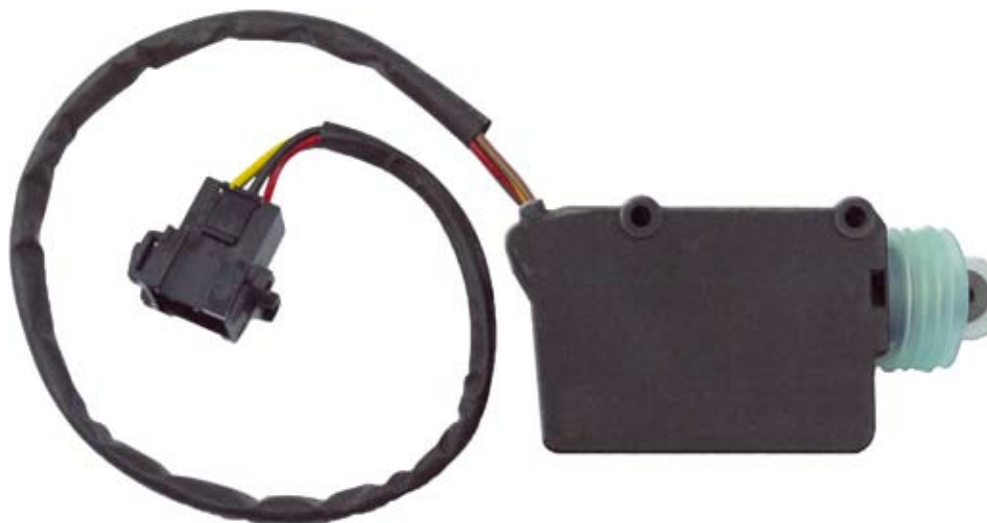
Single point locking with integrated locking contact, housing polyamide 66+PA6i GF 40 V0 black; ratch and pawl steel lubricant varnished; catch AISI 316; drive motor; electronics; cable with RJ45 plug 150 mm; fixing bracket steel zinc-plated; screws steel zinc-plated; with springs; with mounting and operating instructions

Power supply: 9 ... 32 VDC, 300 mA
switching power contact: max. 30 VDC, min. 1 mA, max. 100 mA

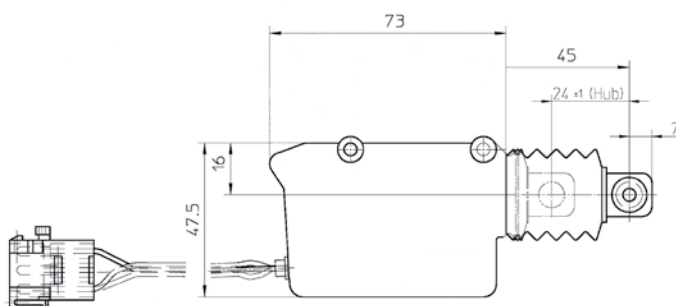
Basic	3000-U300-01
Basic delayed Re-Lock; (with delayed re-lock)	3000-U300-02
Energy-store; automatic unlock in case of power failure	3000-U300-03

On request:

- Fitting panel for Bowden cable
- Bowden cable



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



Several versions available:
Tension and pressure motor with spring return

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

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

Chapter 5:

Accessories



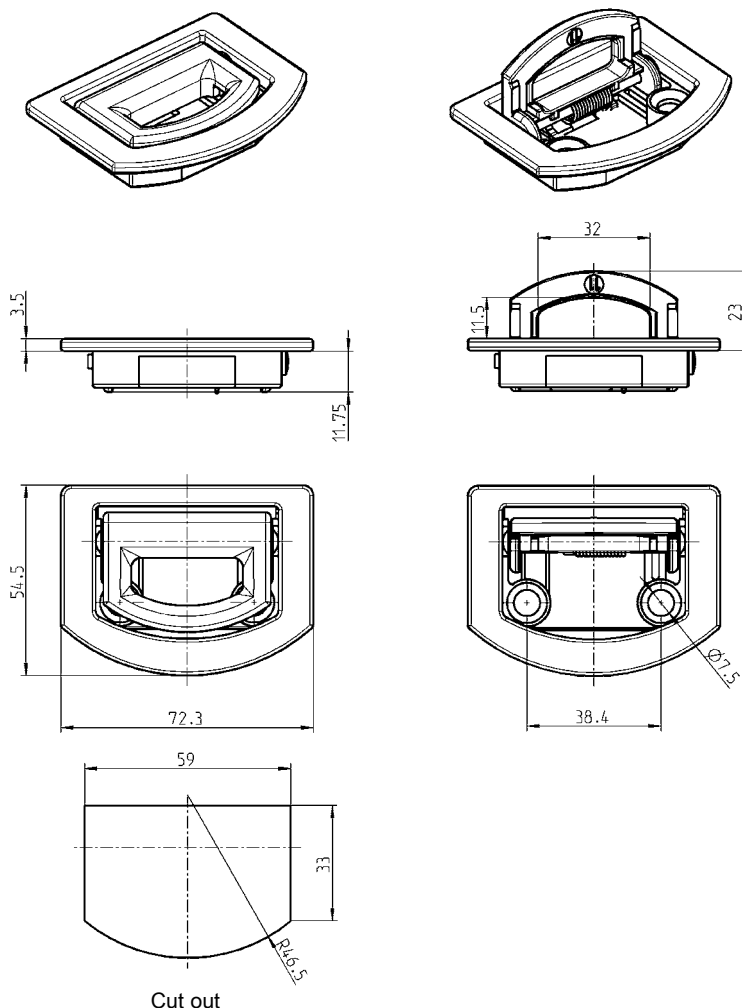
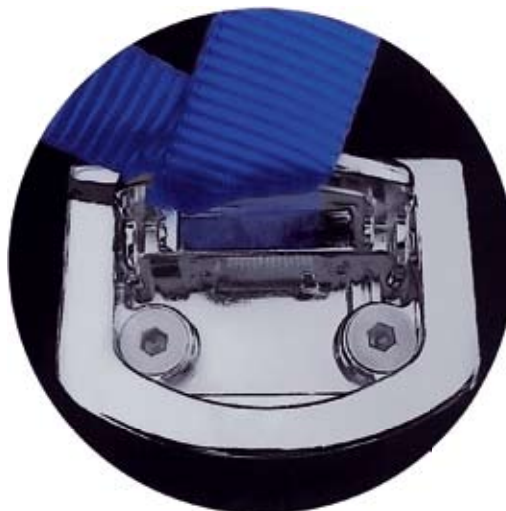


Item without bracing



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
- accessible
- depending on surface resilient up to 3,000 N (300 kgs)
- further colours upon request

Loop chrome plated

with latching cams

5291-U500-IA

without latching cams

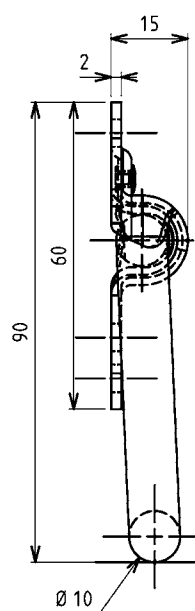
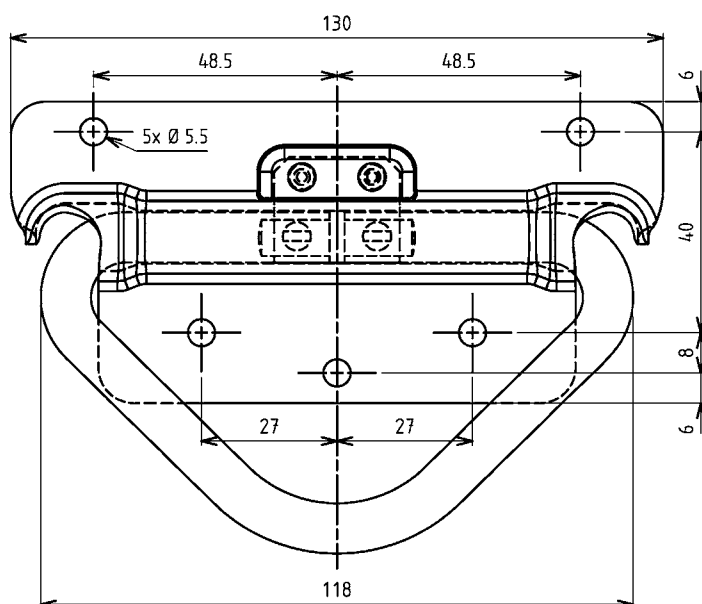
5291-U501-IA

Loop zinc die chrome plated, mounting plates steel zinc plated

without latching cams

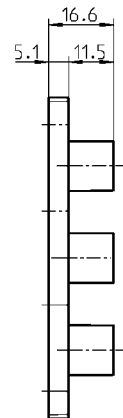
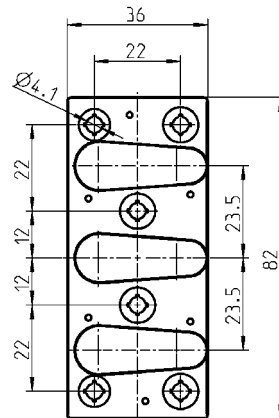
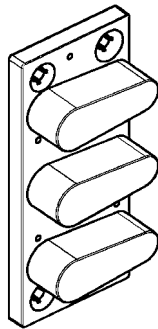
5291-U701-IA

Slinging ring PROGRAM 6040



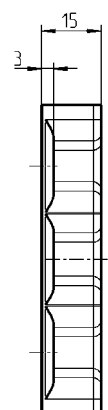
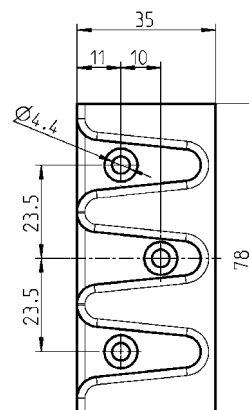
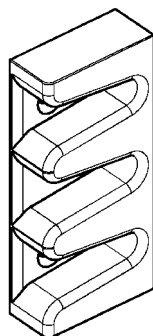
Slinging ring

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



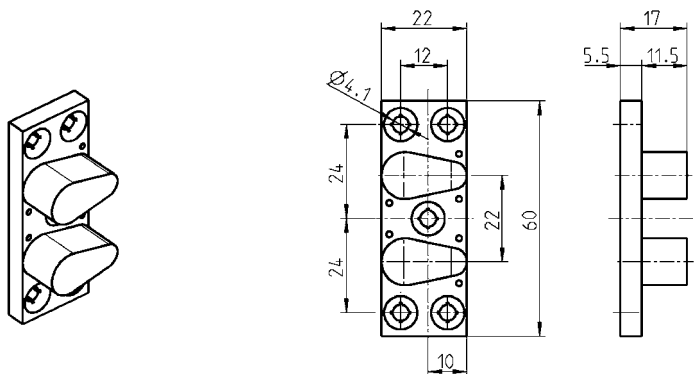
Dove tail zinc die with rubber coating self lubricated

8900-SB12-01



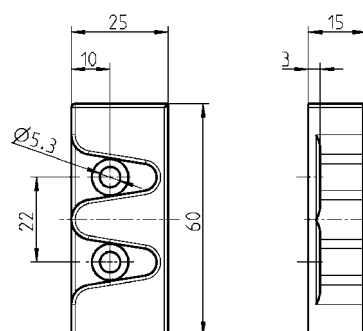
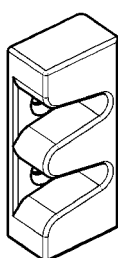
Dove tail zinc die raw

8900-S331-03KA



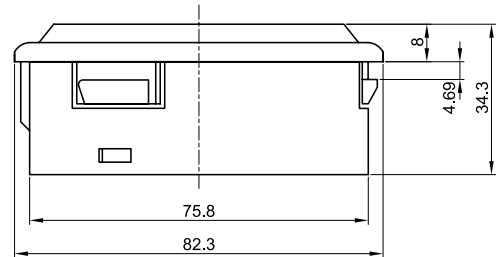
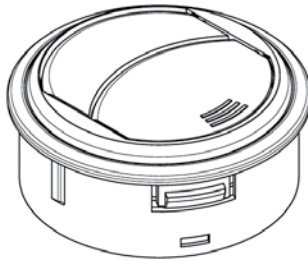
Dove tail zinc die with rubber coating self lubricated

8900-SB11-01



Dove tail zinc die raw

8900-S330-03KA



Infinitely adjustable and rotating



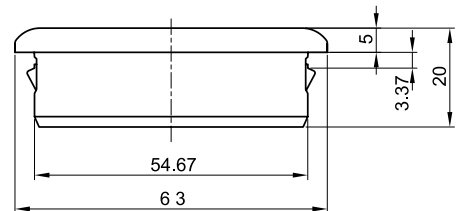
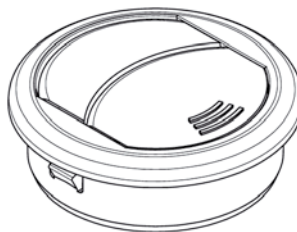
Clip in ABS vent

Black housing

5225-U302-AA

Housing RAL 9006

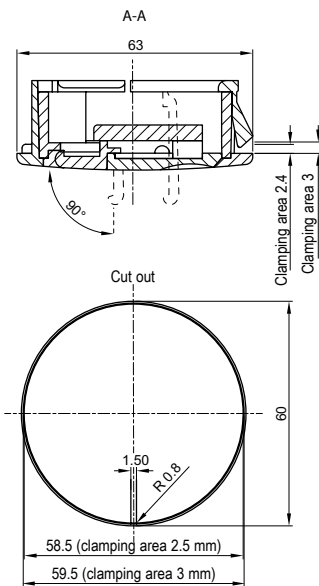
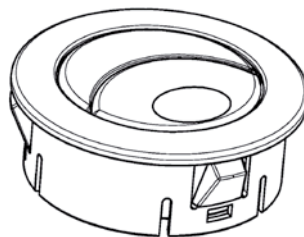
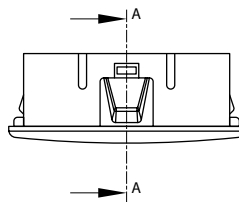
5225-U302-BK



Infinitely adjustable, non rotating

Clip in black ABS vent

5225-U303-AA

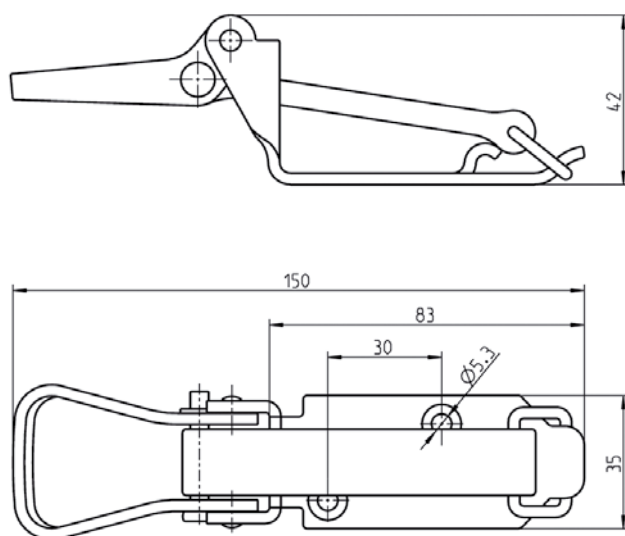


Infinitely adjustable and rotating

Clip in black ABS vent

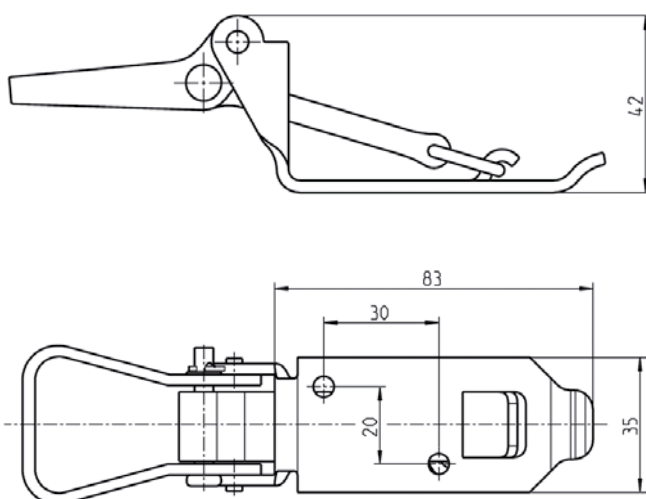
5225-U304-AA

Stowage clamp for axe Stowage clamp for spade PROGRAM 5225



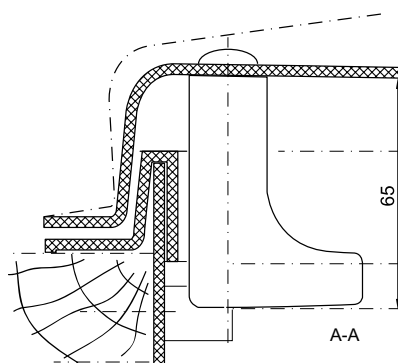
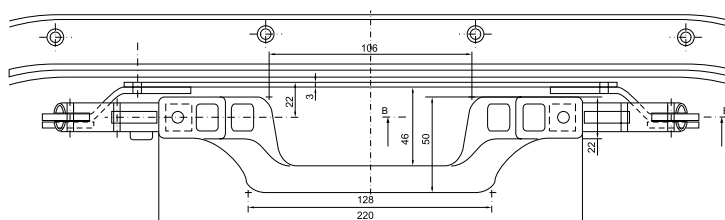
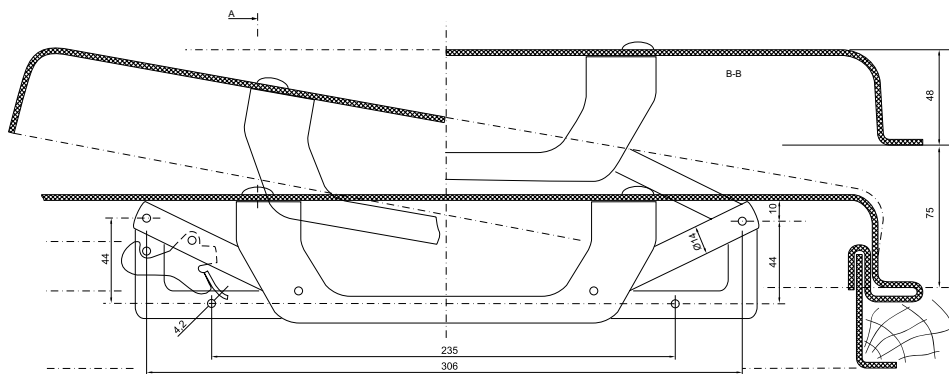
Stowage clamp for claw axe with coating from selection with black rubber strap

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



- with catch
- white powder coated, RAL 9010

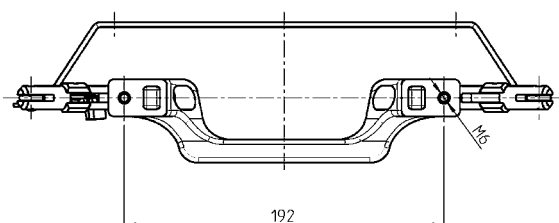
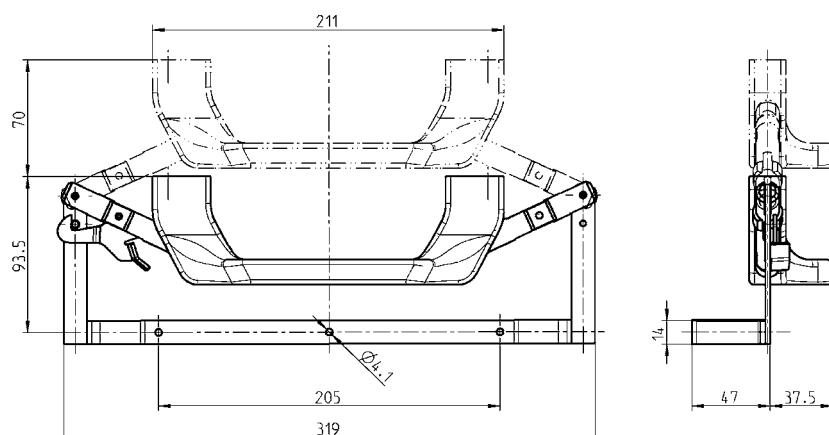


Detail: Catch

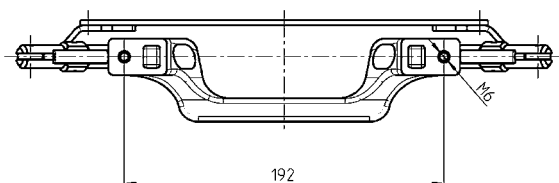
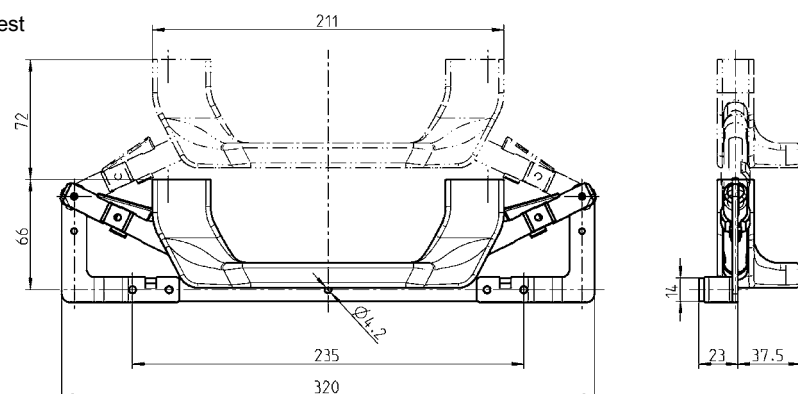
Roof hatch opener white polypropylene, RAL 9010;
mounting bracket m.s. powder coated white, RAL 9010; catch m.s. zinc plated

5124-U853-HA

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

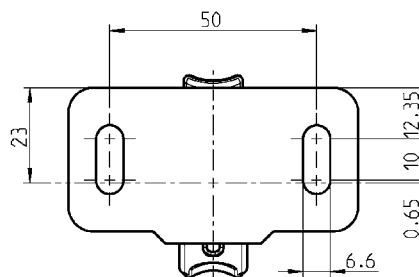
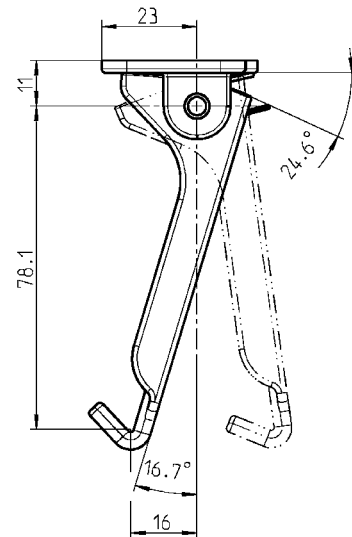
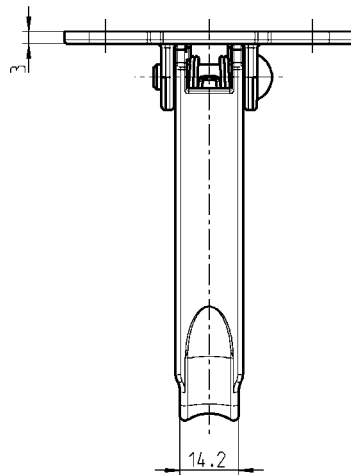
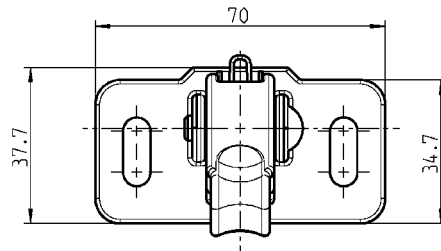
with catch 5124-U857-JB

**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



Tail hook AISI 316; spring and half-round rivet stainless steel

5225-U400

Notes:

Notes:

Lined area for notes.

Notes:

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1000-08	1.3-130	1000-52	1.2-400	1000-U784	1.2-170	1003-S23	3.3-140
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1000-14	1.2-130	1000-103	1.2-140	1000-U826	1.2-160	1004-26	1.2-420
1000-14	1.2-400	1000-112	1.2-120	1000-U827	1.2-160	1004-29	1.2-420
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1000-17	1.2-400	1000-221-PD	1.2-400	1001-47	1.3-130	1004-39	1.2-420
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1000-19	1.2-120	1000-225	1.2-400	1001-50	1.3-130	1004-48	1.2-420
1000-19	1.2-400	1000-225-PD	1.2-400	1001-65	1.3-150	1004-49	1.2-420
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1054-U5-PH	2.1-160	1091-106	1.6-150	1095-U32-AA	1.6-130	1103-U39	1.3-140
1054-U7	2.1-160			1095-U32-100IA	1.6-130	1103-U40	1.3-140
1054-U10	2.1-160	1091-U144	1.6-150	1095-U32-100PF	1.6-130		
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1130-U4	1.2-180	5131-U649-AA	1.1-150	6002-U73-JQ	1.4-110	9301-U804-AA	1.1-150
1130-U7	1.2-220	5131-U658-AA	1.1-150	6002-U73-PC	1.4-110	9301-U805-AA	1.1-150
1130-U7-01	1.2-220	5131-U659-AA	1.1-150	6002-U74-JQ	1.4-110	9301-U810-AA	1.1-150
1130-U7-V	1.2-220	5131-U737-AC	1.1-150	6002-U75-JQ	1.4-110	9301-U812-AA	1.1-150
1130-U7-01V	1.2-220	5131-U738-AC	1.1-150	6002-U76-JB	1.4-110	9301-U813-AA	1.1-150
1130-U8	1.2-210	5131-U758-AA	1.1-220	6002-U77-JQ	1.4-110	9301-U815-AA	1.1-150
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1342-U2-02	1.2-130	5225-U8	1.2-250	6004-U23-KA	1.4-120		
1342-U2-03	1.2-130	5225-U9	1.2-270	6004-U23-PC	1.4-120	9802-U810-AA	1.2-110
1342-U3	1.2-130	5225-U9-01	1.2-270	6004-U24-JQ	1.4-120		
1342-U4	1.2-130	5225-U10	1.2-270	6004-U24-KA	1.4-120	9850-U100	1.1-130
1342-U5	1.2-130	5225-U10-01	1.2-270	6004-U24-PC	1.4-120	9850-U100	1.1-140
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		5225-U24	1.2-280	6004-U25-KA	1.4-120	9850-U100	1.2-110
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3060-U380-BK	2.1-110	5225-U106	1.2-240	6006-U10-PC	1.4-140	9850-U101	1.2-110
		5225-U107	1.2-240			9850-U101	1.2-120
5036-U640-IK	1.1-240	5225-U200	1.2-260	6008-U365-JQ	1.4-130	9850-U101	1.2-130
		5225-U302-AA	5.3-110	6008-U365-PC	1.4-130	9850-U101	1.2-140
5064-U647-IK	1.1-240	5225-U302-BK	5.3-110	6008-U865-JQ	1.4-130	9850-U101	1.2-230
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5131-U593-AA	1.1-150	6002-U14-PC	1.4-110	9301-U500-AA	1.1-160		
5131-U606-AA	1.1-220	6002-U15-JQ	1.4-110	9301-U501-AA	1.1-160		
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