EMKA
Beschlagteile

Ingenious Locking Technology for Cabinets and Enclosures

General Catalogue 2014 / 2015

Introduction

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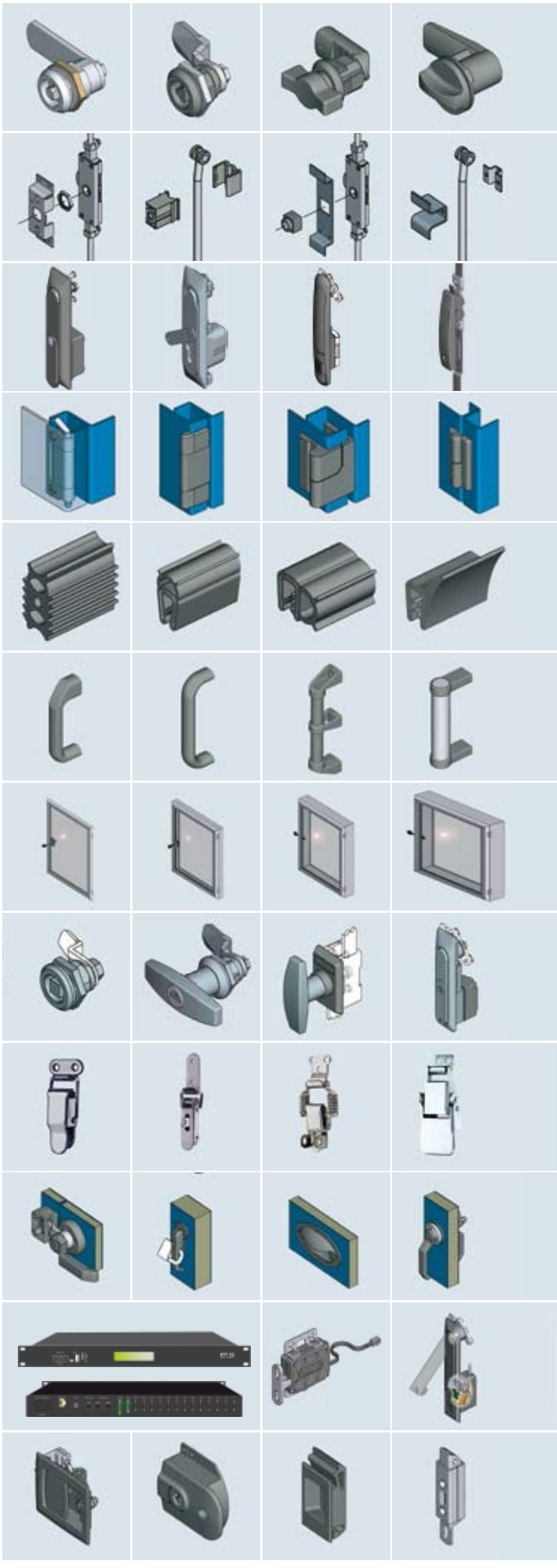

Introduction
EMKA worldwide
Product Areas / Business Units
Production from A to Z
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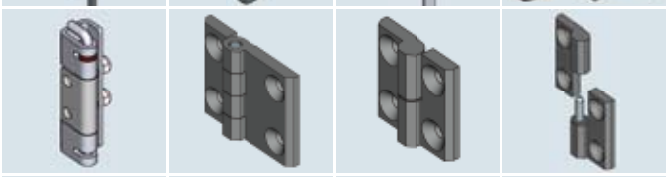
Quarter turns Overview: 1-100
1A . . . . . Quarter turns, small and medium version (Program 1012, 1022)
1B . . . . . Quarter turns, standard version (Program 1000)
1C . . . . . Accessories: cams, dust cap, rods, rod guides
1D . . . . . Quarter turn, clipfix (program 1500)
1E . . . . . Quarter turns, different versions

Rod controls
2A . . . . . Latches for heavy duty, screw-on program
2B . . . . . Latches for heavy duty, weld-on program

Locking systems Overview programs, matrix: 3-100
3A to 3N . . . . . 1107 to 3000
3XA to 3XC. . . . . Locking sets: modular sets, profile half cylinders
3YA up to 3YC . . . Rod controls, bearing bush, cams
3ZA up to 3ZC . . . Rods for rod control and rod gear outside or inside the gasketing; rod guides

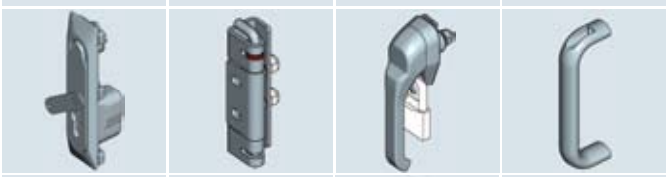


Hinges Overview, matrix: 4-100
4A . . . . . Hinges for prominent doors
4B . . . . . Hinges for flush doors and aluminium profiles
4C . . . . . Pin hinges

Gasketing
5A . . . . . Gasketing, closed cell sponge rubber, edge protection, window rubber profiles
5B . . . . . Gasketing according to VDI 6022
5C . . . . . EMC gasketing material

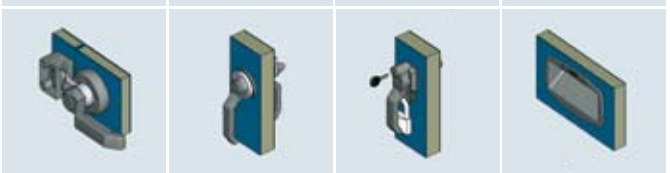
Handles
6A . . . . . Bow-type handles in different sizes, tube handles, hinged pattern handles (Program 1095)
6B . . . . . Hinged pattern handles, with leaf spring, with insert piano wire torsion spring (Program 6040)

Aluminium windows
7A . . . . . Aluminium windows with or without frame (Program 1200)
7B . . . . . EMKA PROflex: Aluminium window completely assembled or as kit for self assembly (Program 1210)
7C . . . . . Aluminium doors (Program 1300)



Stainless steel program
8A . . . . . Locks: quarter turns, escutcheons, swinghandles, rods
8B . . . . . Hinges for prominent or flush doors
8C . . . . . Miscellaneous: bow-type handles, cover stays, door stops

Toggle latches
9A . . . . . Wire toggle latch, rigid wire toggle latch, spring loaded toggle latch, special toggle latch, adjustable toggle latch, catch plates (Program 6000)

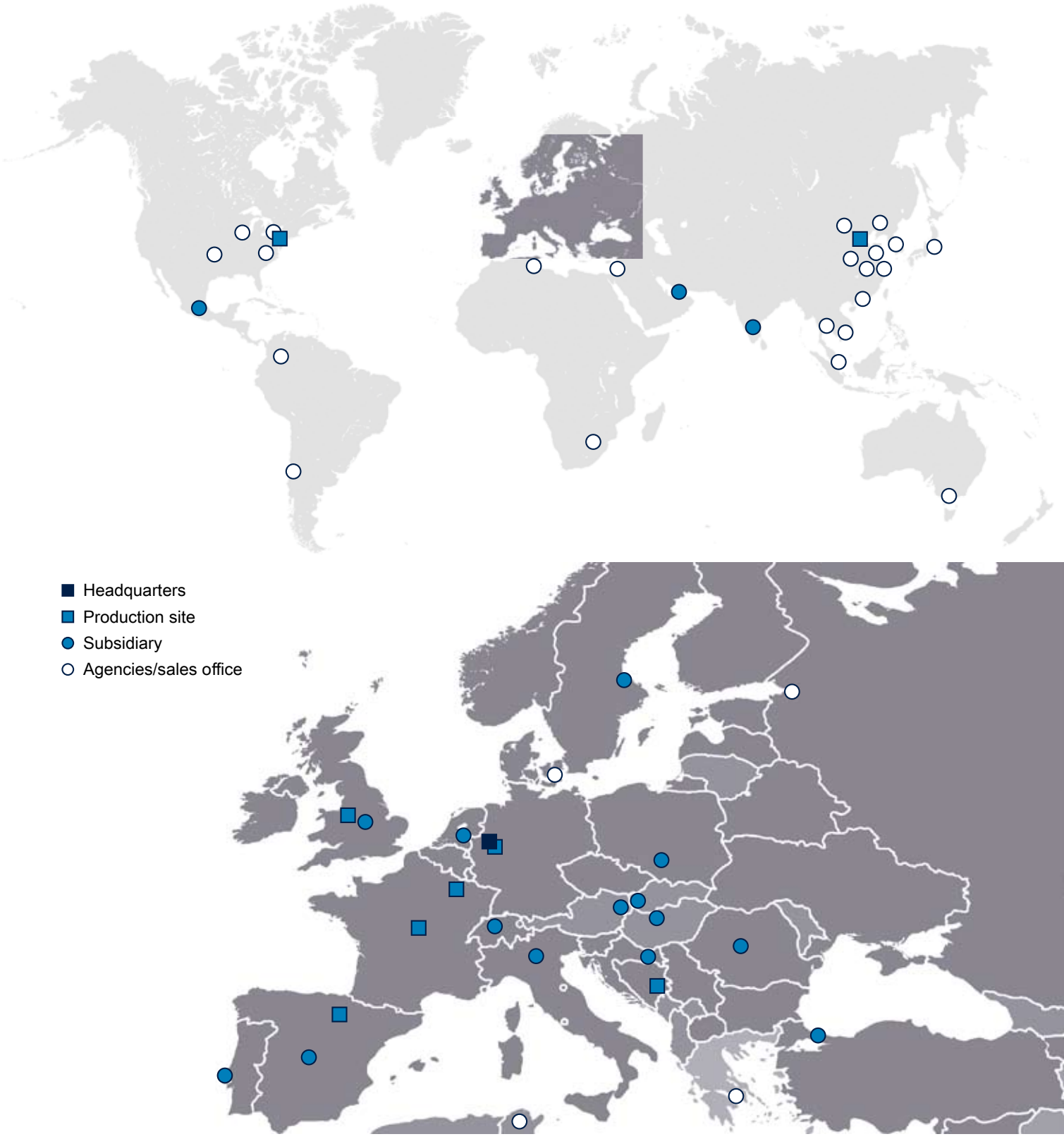


HVAC applications
10A . . . . . Heavy duty latches, lift and turn latch, pull, pull with quarter turn, 180° hinge (Program 1091)

EMKA Electronics
11A . . . . . ELM Security System: network solutions, 19“ rack mount units, keypad, ELM combination handle with integrated keypad, sensors, accessories
11B . . . . . Stand-alone Solutions: Keypad, combination handle with integrated keypad, accessories
11C . . . . . Biometrical access control systems

Miscellaneous
12A . . . . . Locks/latches: Retractable handle, door lock, slam lock, snap lock
12B . . . . . Keys
12C . . . . . Cover stays and door stops
12D . . . . . Accessories: panel mounting device, cable shunting ring, drawing pocket
12E . . . . . Fixing material

Index Part numbers / pages represented worldwide



EMKA worldwide

Wuppertal, Germany

Velbert, Germany

Middletown PA, USA

Birmingham, England

Bourré, France

Henriville, France

Arnedo, Spain

Tianjin, China

Goražde, Bosnia and Herzegovina

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

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

The company is represented in 46 countries employing more than 1,400 employees.

Locks/Latches

Hinges

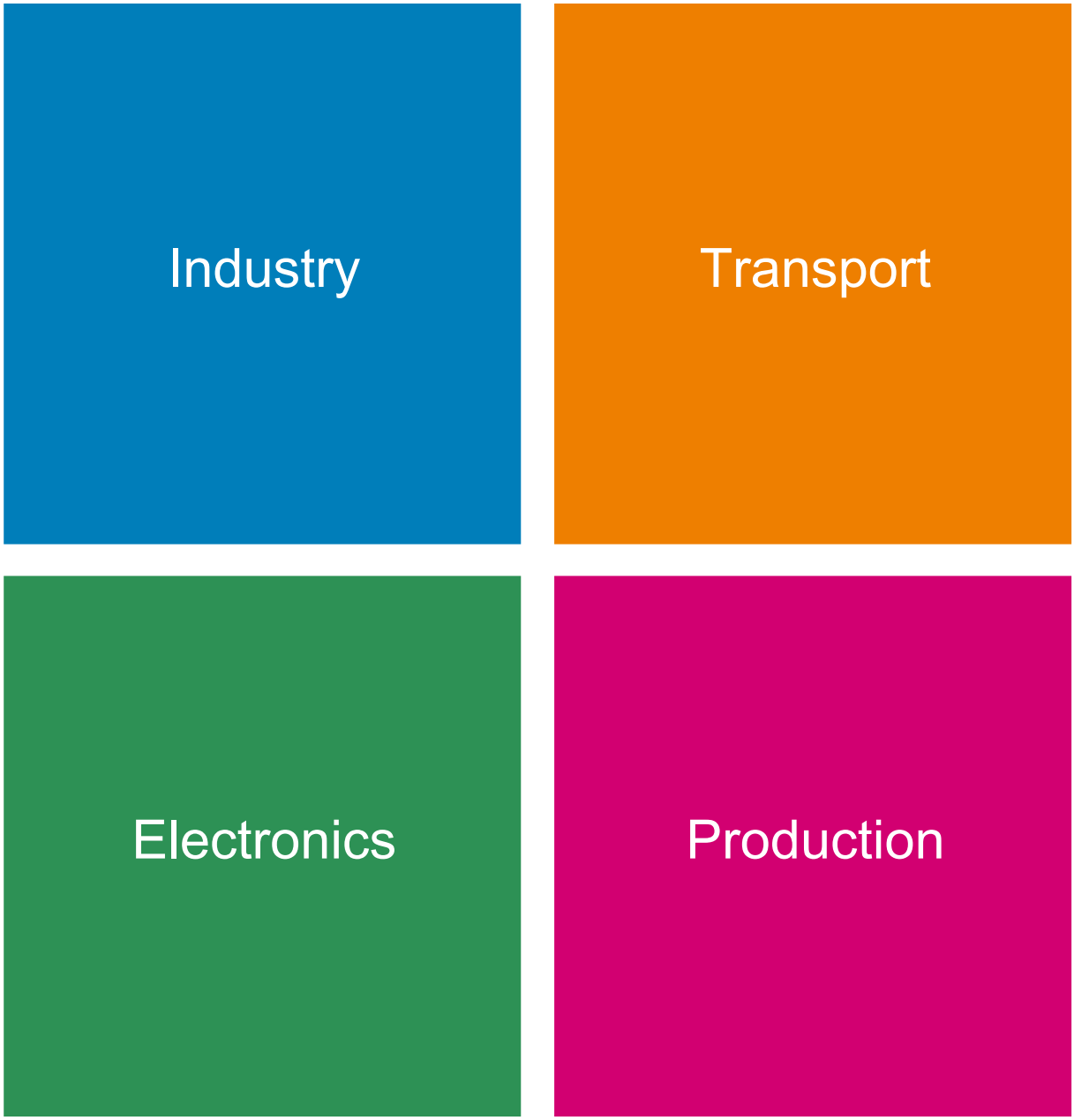
Gasketing

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.



Business units

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

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

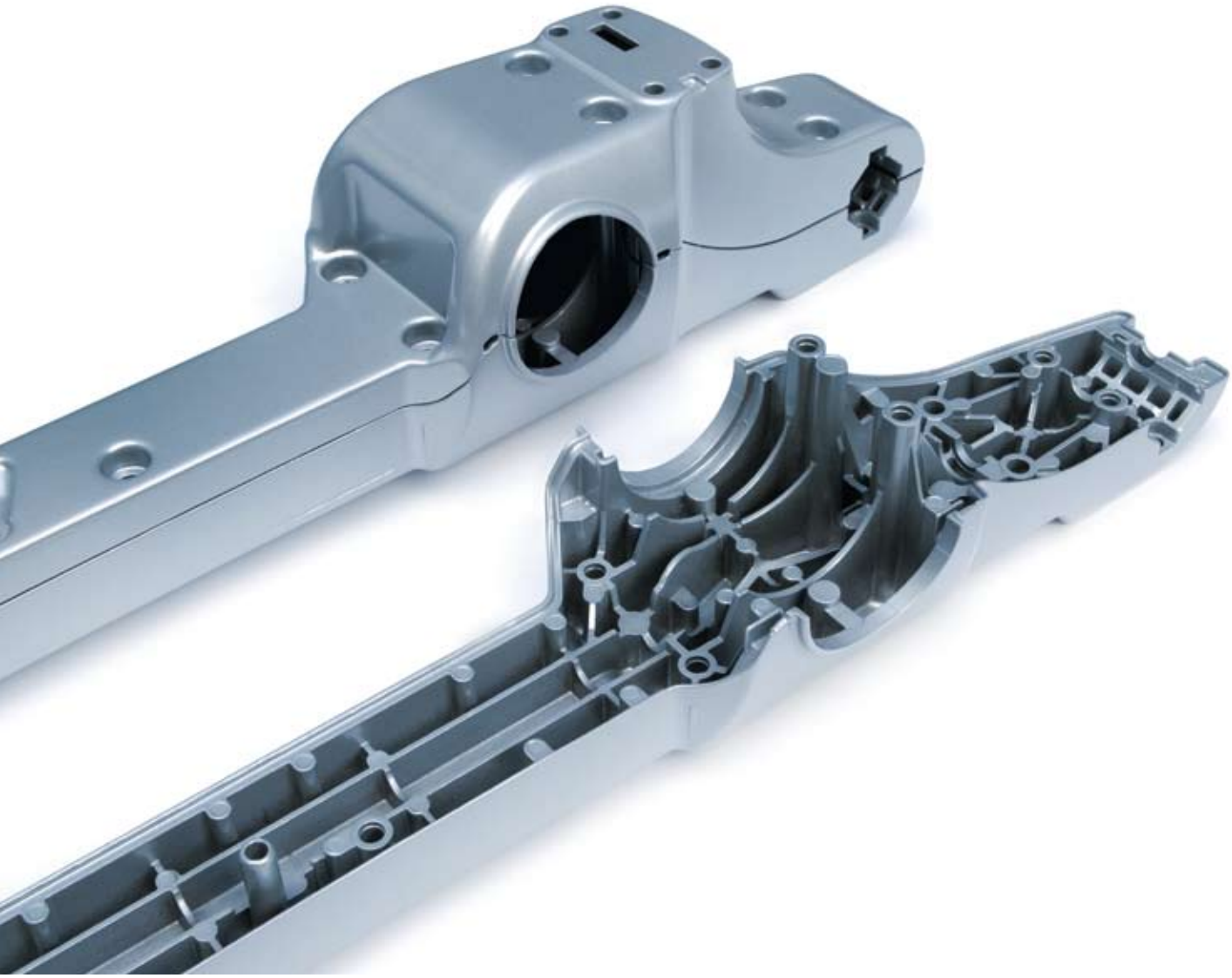
Extrusion of Profiles

Injection Moulding

Punching, bending
and Metal Working

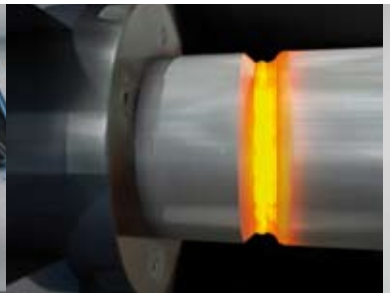
Zinc Die Casting

Production from A to Z



Die Cast Aluminium

Aluminium Forging



Friction Welding

SST Precision Casting

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

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

Thus, EMKA sets quality standards in locking technology.

Inside the gasketing

Outside the gasketing

Concealed hinge

Prominent hinge

Lift-off version hinge

Hinge limited lift-off version

Hinge for single cabinets

Hinge for in-line cabinets with single door

Hinge for in-line cabinets with double door

Door RH version

Door LH version

Door RH and LH version

IP-rating, such as IP 65

PUR foamed seal

Compression specification of lock

With earthing or earthing possible

ELM Electronic Locking & Monitoring System application

Resistance class 2

2D nut usable

2D adjustable product

3D adjustable product

Assembly without tool

Clip-in assembly

Item with graffiti resistant paint

meets hygiene requirements acc. to DIN EN 1672-2

meets hygiene requirements acc. to DIN EN ISO 14159

Shock and vibration test according to DIN EN 61373

Plastic flame-resistant according to classification UL93

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

Meaning of the Icons

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

Online product search and CAD download

Product search: Several paths lead to the catalogue page of the searched item.

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

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

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

IP rating acc. to IEC 60 529

The IP rating consists of 2 numbers, e.g. IP 54.

First no.	Rating for protection against contact and foreign material	Second no.	Rating of water proofing
1	Prot. against solid foreign material Ø 50 mm + greater	1	Prot. against vertically dripping water
2	Prot. against solid foreign material Ø 12.5 mm + greater	2	Prot. against dripping water (tilted 15°)
3	Prot. against solid foreign material Ø 2.5 mm + greater	3	Prot. against spray water
4	Prot. against solid foreign material Ø 1.0 mm + greater	4	Prot. against splash water
5	Dust-protected	5	Protected against water jets
6	Dust-tight	6	Prot. against powerful water jets
		7	Prot. against temporary immersion in water
		8	Prot. against cont. immersion in water
		9K	Protected against high pressure and steam jet cleaning

Explanation regarding IP 69K

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

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

The IP 69K test was initially developed to specify the protection of road vehicles against ingress of foreign substances as dust or dirt and against hot water jets.
The test conditions of the IP rating IP 69K require a pressure of 100 bar at a water flow rate of approx. 15 l/min and a temperature of 80°C.
The nozzle from which the water exits is at a distance of 10 cm to the object to be tested during the test.
The water jet is applied on the device under test at the angles of 0º, 30º, 60º, and 90º, for a duration of 30 seconds at each angle, while the device under test is rotated with 5 U/min on its own axis.

The paper of this catalogue is produced without chlorine bleaching.

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IP Rating acc. to National Electrical Manufacturers Association (NEMA) The UL classifications are not directly comparable with IP rating since both the test conditions and the evaluation of the test results are different.	
UL/NEMA	Description
1	Protection against the penetration of solid material.
3, 3R	Protection against the penetration of solid material, protection against the ingress of rain and dust and damage caused by icing.
3S	Protection against rain, snow and foreign material. External mechanisms remain usable despite being coated in ice.
4, 4X	Protection against rain, foreign material, splash water and water jet and against damage caused by icing on the exterior of the enclosure.
12, 12K	Protection against dust deposits, foreign material and non-corrosive dripping liquids.
13	Protection against dust deposits, spray water, oil, and non-corrosive coolants.

Stainless steel material specifications				
Germany		USA	Japan	Unified Numbering System
W.-no.	DIN	AISI	JIS	UNS
1.4301	X5CrNi18-10	304	SUS 304	S 30400
1.4305	X8CrNiS18-9	303	SUS 303	S 30300
1.4310	X10CrNi18-8	301	SUS 301	S 30100
1.4401	X5CrNiMo17-12-2	316	SUS 316	S 31600
1.4571	X6CrNiMoTi17-12-2	316 Ti	SUS 316 Ti	S 31635

Declaration regarding RoHS conformity and WEEE directive

Background and requirements

The RoHS and WEEE directives apply in the area of the European Union. They regulate, in terms of pollution, the process of bringing electrical and electronic devices into circulation and their disposal within the EU.
The EU directive 2002/95/EG of 27 January 2003, briefly called RoHS (Restriction of Hazardous Substances)for curtailing the use of certain substances in electrical and electronic devices, regulates the substance concentration of lead, mercury, cadmium, hexavalent chromium and brominated flame retardants as of 1 July 2006.
In the context of the RoHS directive also the EU directive 2002/96/EG of 27 January, briefly called WEEE
adopted. The WEEE primarily aims to prevent the generation of electrical and electronic waste and to promote re-use, recycling and other forms of recovery in order to reduce the quantity of waste discarded.
The regulations of the WEEE directive have been implemented into German law with the “Elektro- und Elektronikgerätegesetz” (Electrical and Electronic Devices Act) of 16 March 2005.

Declaration regarding RoHS conformity

Our company is represented worldwide and considers the protection of the environment and its natural resources to be a corporate duty. Not only before this background EMKA has been certified according to the environmental management standard DIN ISO 14001 for years.
We confirm that all electronic components and products from the program 3000 observe the maximum permissible values of the directives 2002/95/EG (RoHS) and 2011/65/EU (RoHS II).

Declaration regarding WEEE directive

The products offered by EMKA Beschlagteile GmbH & Co. KG are exclusively intended for the B2B trade and (corresponding with the WEEE directive) can be sent back to us or disposed of by a commercial disposal company after its use. The disposal by the municipal collection system is not permitted! In case of returning the material to us, we see to it being professionally recycled or disposed of.

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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

What is important is the correct storage (optimum storage temperature +5°C up to +20° C). For storing gaskets DIN 7716 (directive for storing, maintaining and cleaning rubber products) has to be observed. Wrong storage or longer holding or storage times are to be avoided, if possible, as the mechanical properties can change.

Elastomers - operating temperatures and hardnesses:

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

MG=sponge rubber / WG=soft rubber

Recommended compression for extruded sealing profile:
The compression of our sealing profiles should be 50% max., since otherwise the function (tightness) and the restoring forces are affected. In practice, the profiles are compressed between 30-50%.
It does not matter, whether it is a EPDM, NBR or a silicone profile. Here, the mechanical properties are (unlike the chemical resistances) quite comparable. If the gasket is deformed beyond these limits, there is the risk of the compression set (DVR) becoming too big, because the material deforms plastically as well.
Then the gasket would be designed too small.

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

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

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

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Zertifikat

GL Systems Certification

GL Systems Certification bescheinigt hiermit, dass das Unternehmen

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

für den Geltungsbereich

Entwicklung, Herstellung und Vertrieb von mechanischen/elektronischen Verschluss-Systemen; Scharnieren; Dichtungen; Druckguss-, Kunststoffspritz-, Automatendrehteilen und Sonderanfertigungen

ein integriertes Managementsystem eingeführt hat und anwendet.

GL Systems Certification bestätigt, dass das Managementsystem des oben genannten Unternehmens überprüft wurde und sich in Übereinstimmung mit den Forderungen folgender Normen befindet:

ISO 9001:2008 und DIN EN ISO 14001:2009

Dieses Zertifikat setzt voraus, dass das Unternehmen sein Managementsystem nach den angegebenen Normen anwendet und aufrechterhält. Dies wird von GL Systems Certification überwacht.

Dieses Zertifikat gilt vom 15.02.2013 bis zum 15.02.2016

GL Systems Certification Hub Germany

A. Nalewajko
Agata Nalewajko

Zertifikat Nr. QS-159 HH und EM-2530 HH

DAkkS
Deutsche Akkreditierungsstelle
D-ZM-16026-01-02
D-ZM-16026-01-03

Certificate

GL Systems Certification

GL Systems Certification herewith certifies, that the company

EMKA Beschlagteile GmbH & Co. KG
Langenberger Straße 32, 42551 Velbert, GERMANY

has established and maintains a integrated Management System relevant for

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

GL Systems Certification confirms that the Management System of the above mentioned company has been assessed and found to be in accordance with the requirements of the following standard:

ISO 9001:2008 and DIN EN ISO 14001:2009

The validity of this certificate is subject to the company applying and maintaining its Management System in accordance with the standard indicated. This will be monitored by GL Systems Certification.

The certificate is valid from February 16, 2013 until February 15, 2016

GL Systems Certification Hub Germany

A. Nalewajko
Agata Nalewajko

Certificate No. QS-159 HH and EM-2530 HH

DAkkS
Deutsche Akkreditierungsstelle
D-ZM-16026-01-02
D-ZM-16026-01-03

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

LH door
=
Hinges are on the LH side

LH door with swinghandle
=
Opening direction is clockwise

LH door with escutcheon
=
Opening direction is anti-clockwise

Illustrations with closed door.

RH door
=
Hinges are on the RH side

RH door with swinghandle
=
Opening direction is anti-clockwise

RH door with escutcheon
=
Opening direction is clockwise

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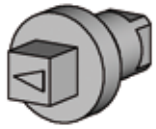
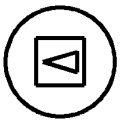
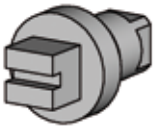
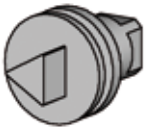
Overview of inserts
for quarter turns, escutcheons, swinghandles and further articles.

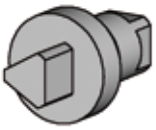
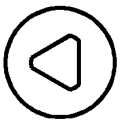


– Square

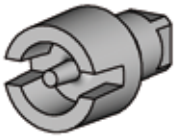


– Square with slot

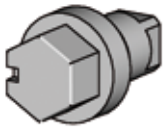


– Triangular CNOMO



– Triangular



– Double bit

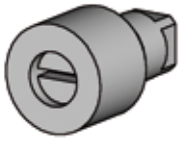
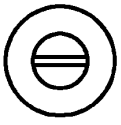


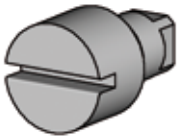
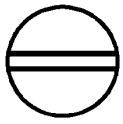
– Hexagon male

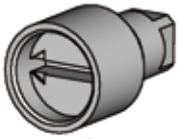
– Hexagon female

– Square female

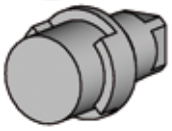
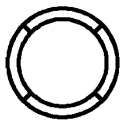
– Daimler Benz

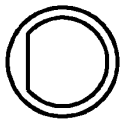


– Slot 1.2 x 3

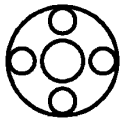


– Slot 2 x 4

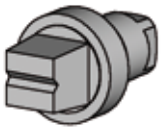


– Slot 2 x 4
coinproof

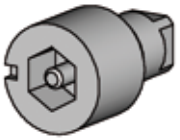


– Crown type


– Eastern Europe
Ø 13

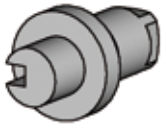
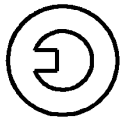

– FIAT



– Railway



– Hexagon female
with pin



– Ø 8.6 with slot

– Tube

Further inserts on request!

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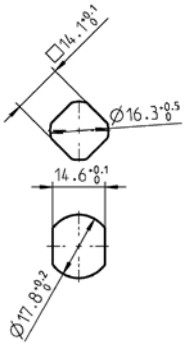
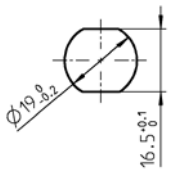
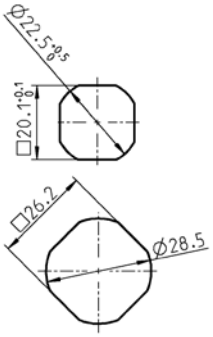
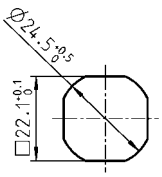
Quarter turns

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

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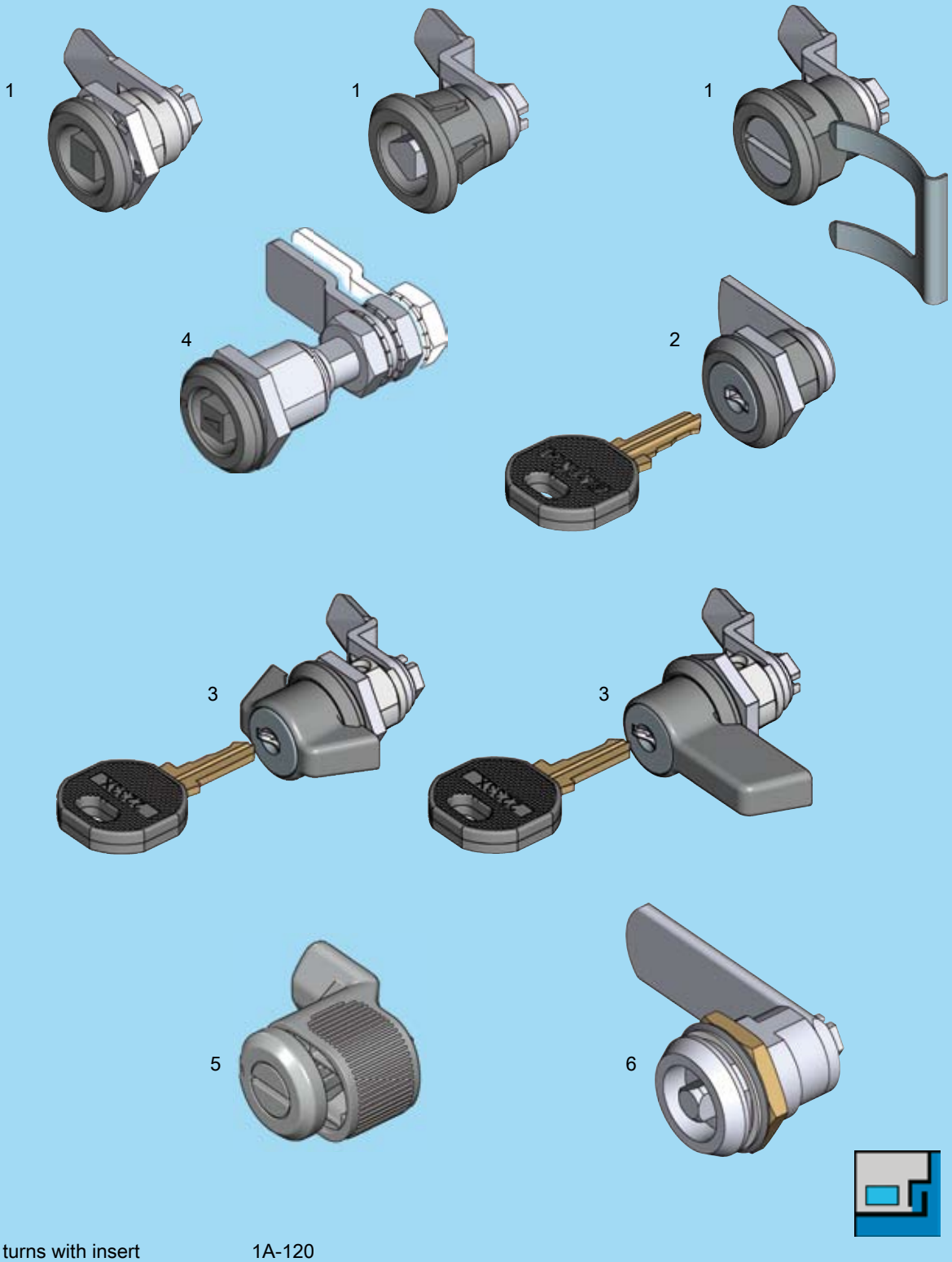
Notes:

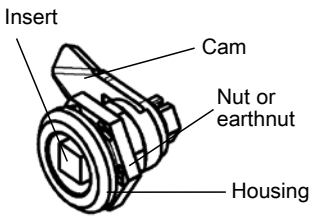
Quarter turns small and medium version, Program 1012, 1022

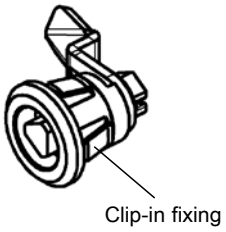


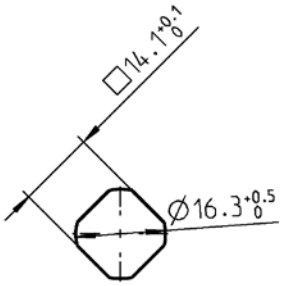
1	Quarter turns with insert	1A-120
2	Cylinder quarter turns	1A-160
3	Wing knob quarter turns	1A-140
4	Compression latches	1A-220
5	Quick fastener	1A-320
6	Quarter turns with insert	1A-420

Quarter turn, small version

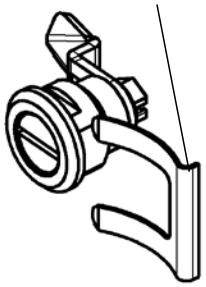
PROGRAM 1022

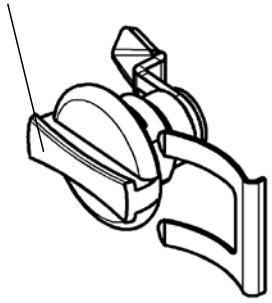


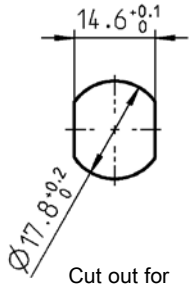




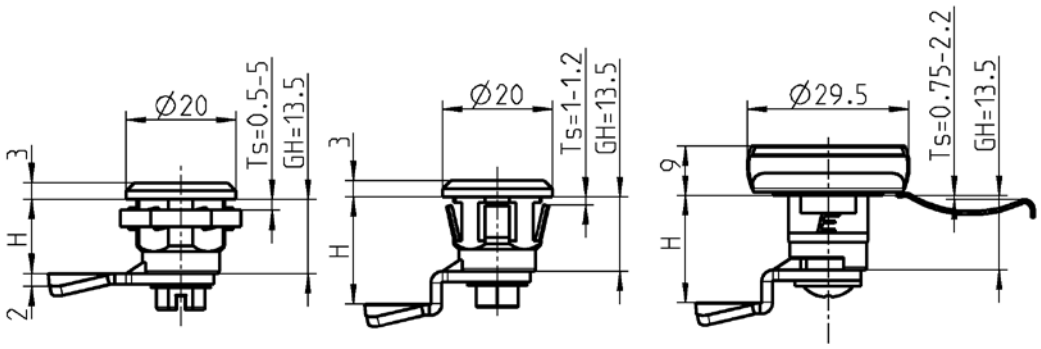
Cut out for nut and clip-in fixing

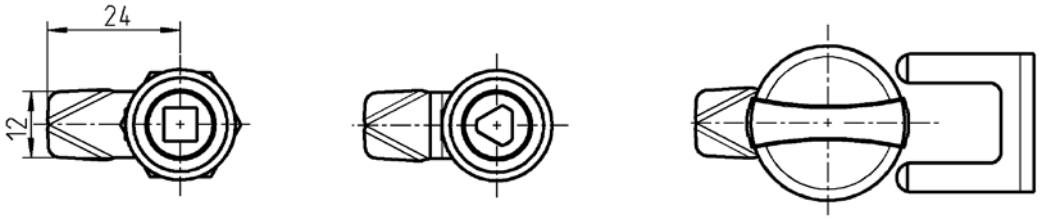






Cut out for spring fixing





Housing zinc die, PA or stainl. st.; nut or spring fixing m.s. zinc plated or stainless steel; with seal (only for stainless steel Version)					
	Zinc die chrome plated	Zinc die black powder coated	Stainless steel AISI 303	Polyamide black	
with nut [1] m.s. [2] AISI 303	1022-U8[1]	1022-U46[1]	1022-U60[2]	1022-U71[1]	
with earthnut m.s.	1022-U9	1022-U47	–	–	
Clip-in fixing	–	–	–	1022-01-02	
with spring fixing	1022-U76	1022-U77	–	1022-U78	
Insert zinc die, Polyamide or stainless steel; fixing material m.s. zinc plated; with seal (only for stainless steel version)					**Key zinc die black**
Square 6	1022-U2	1022-U44	1022-U61	1022-U72	1004-20
Triangular 6.5	1022-U1	1022-U43	1022-U62	1022-U73	1004-21
Slot 1.5 x 3	1022-U3	1022-U45	1022-U63	1022-U74	–
Blind plug	1022-U4	–	1022-U64	1022-U75	–
Wing knob insert	–	–	–	1022-U82	–

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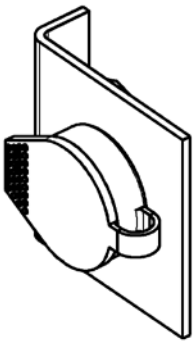
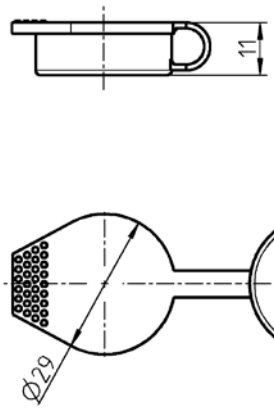
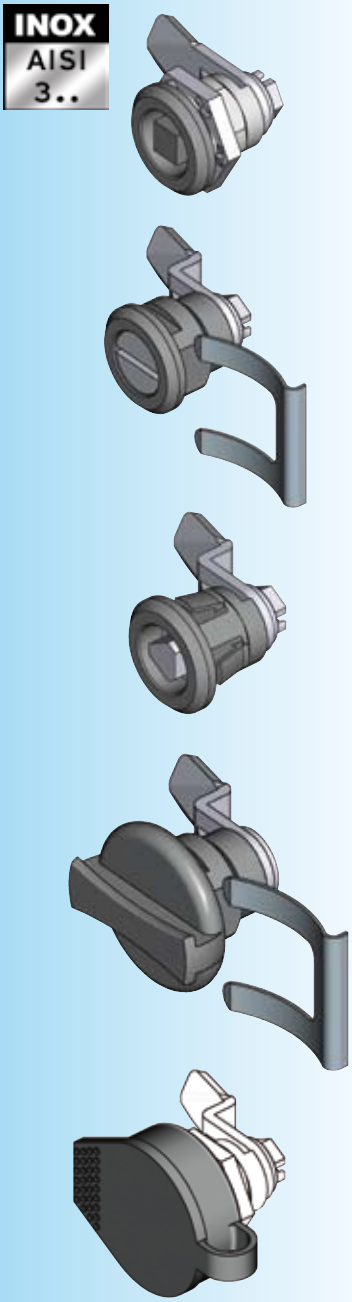
Accessories





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



Cam on choice, t = 2		
	m.s. zinc plated	AISI 304
H = 7,5	1022-20	1022-20-PC
13,5	1022-07	1022-07-PC
19,5	1022-08	1022-08-PC
IP 65 with:		
- O-ring (included in case of stainless steel Version)		1022-09
- flat seal (only for screw-on housing, included in case of stainless steel version)		1022-10
Assembly on request		
without O-ring		1022-990
with O-ring		1022-991
Accessories		
Dust cap polyethylene black		1022-23-01

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

Application area:
Small doors and panels

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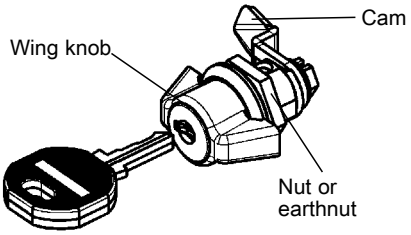
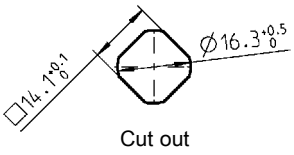
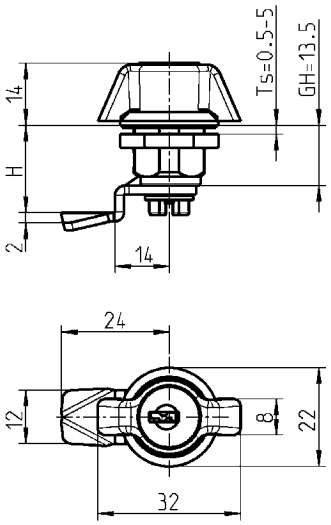
Wing knob quarter turn, small version

PROGRAM 1022

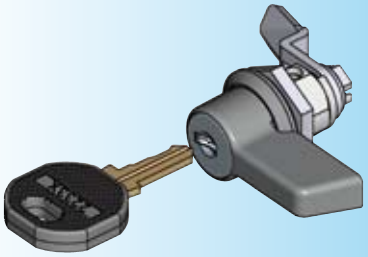


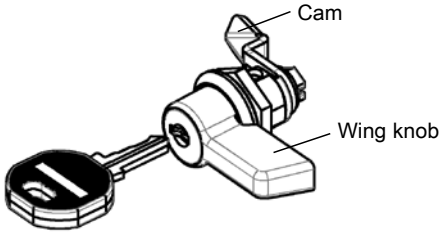


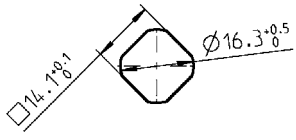


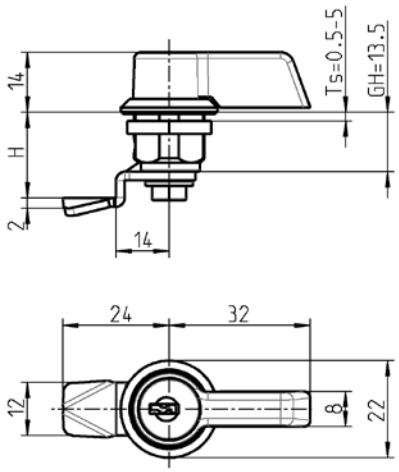
Wing knob with housing zinc die, round cyl. zinc with stainless steel cap, nut or earth nut and screw m.s. zinc plated. Each round cylinder has one silver steel key with polyamide grip GF black.

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









Wing knob with housing zinc die, round cyl. zinc die with stainless steel cap, nut or earth nut and screw m.s. zinc plated. Each round cylinder has one silver steel key with polyamide grip GF black.

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

*** = IP 65**

Application area:
Small doors and panels

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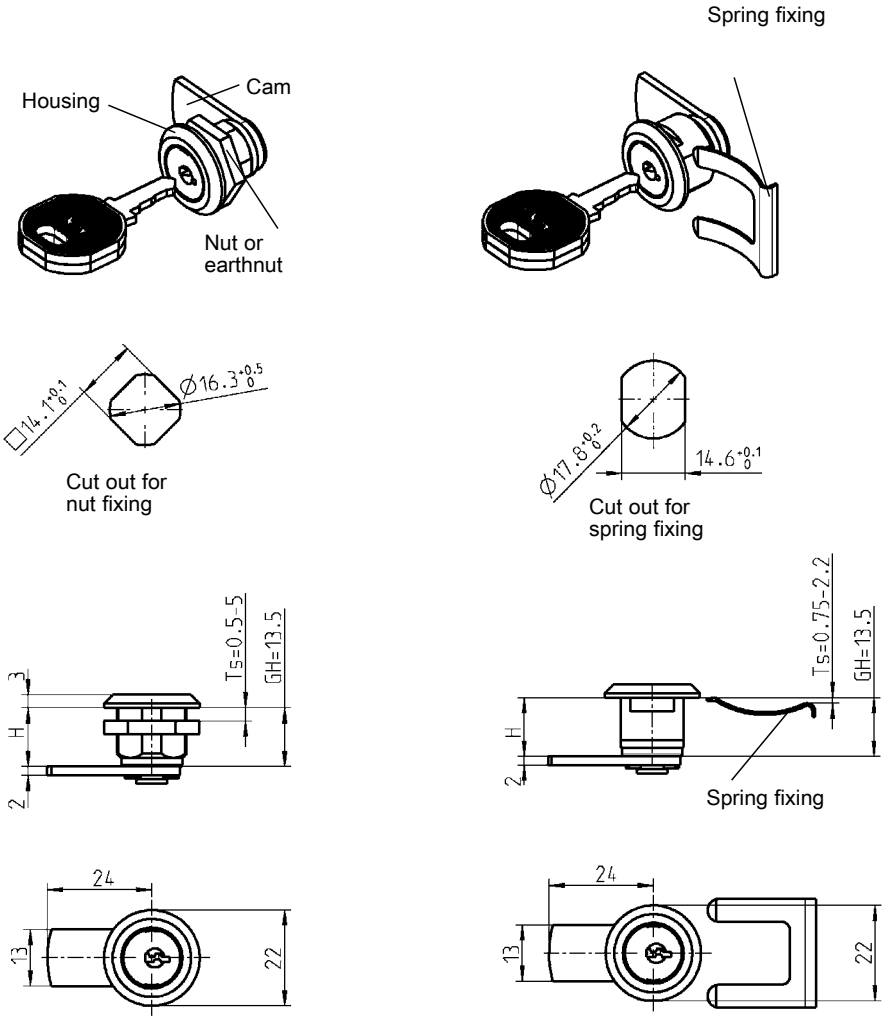
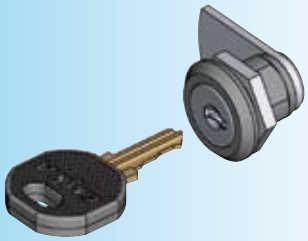
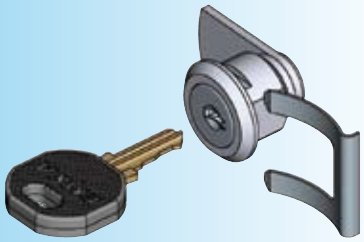
Cylinder quarter turn, small version

PROGRAM 1022







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

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

	H	Zinc die with spring fixing 1)
keyed 2233X	7,5	1022-U10
	13,5	1022-U11
	19,5	1022-U12
keyed different	7,5	1022-U13
	13,5	1022-U14
	19,5	1022-U15

Application area:
Small doors and panels

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Compression latch

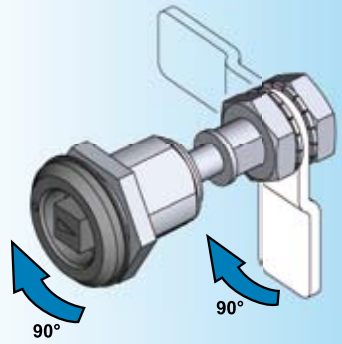
PROGRAM 1022

RL

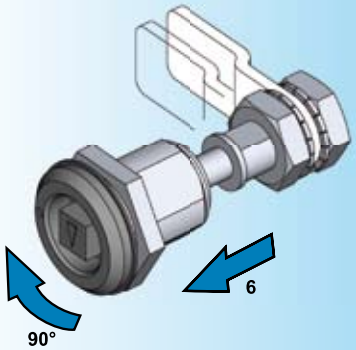
IP 65

6

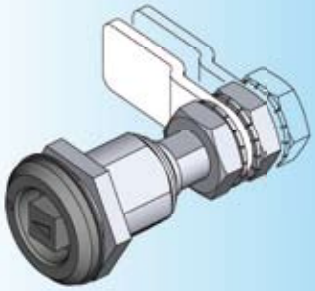
DIN EN 61373



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



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



Compressed condition

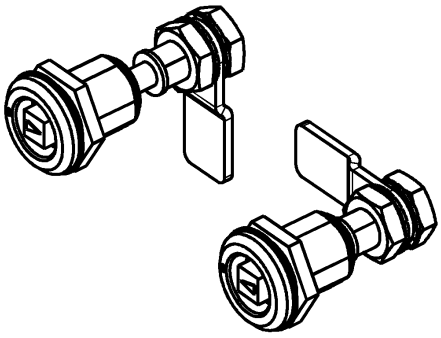
Unlock:
Reversed rotation

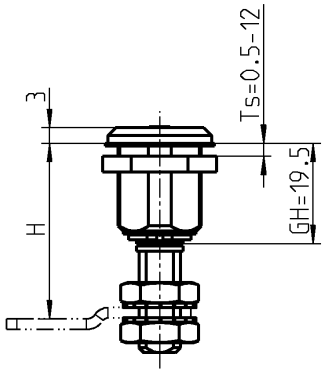
Further parts see page

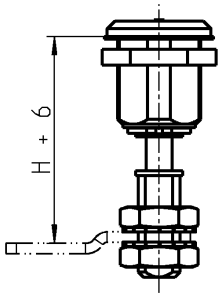
– Dust cap	1A-120
– Cam	1A-240
– Key	12B-120

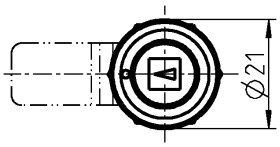
Vibration proof

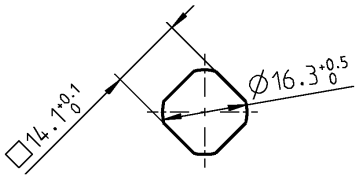
The compression latch is of a vibration-proof design.
Depending on the installation location and operational conditions specific checks are necessary and/or supplementary measures of fastening required.











Cut out

max. torque 2.5 Nm

Housing and insert zinc die, shaft and nut m.s. zinc plated, with spring and seal		
	black powder coated	chrome plated
Square 6	1022-U83	1022-U83-IA
Triangular 6.5	1022-U85	1022-U85-IA
Slot 1.5 x 3	1022-U84	1022-U84-IA

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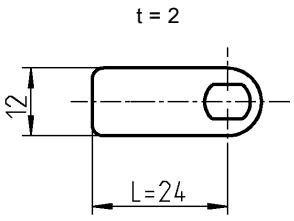
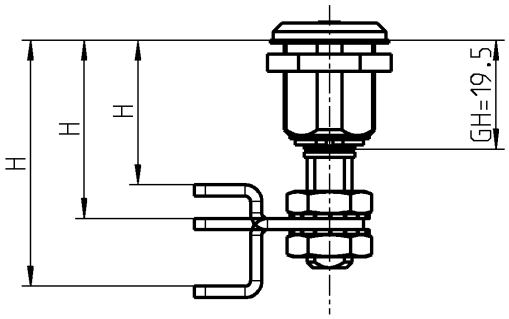
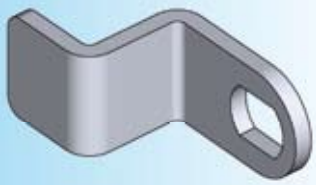
Cam m.s. zinc plated for compression latch

PROGRAM 1022





straight cam



cranked cam

Cam m.s. zinc plated		
for GH = 19.5	**H**	**GH = 19.5**
straight	25,5 - 32,5	1022-49
cranked 6 mm	19.5 - 26.5; 31.5 - 38.5	1022-50
cranked 12 mm	13.5 - 20.5; 37.5 - 44.5	1022-51

Note:
Cranked cams are reversible

Further parts see page
– Compression latch 1A-220

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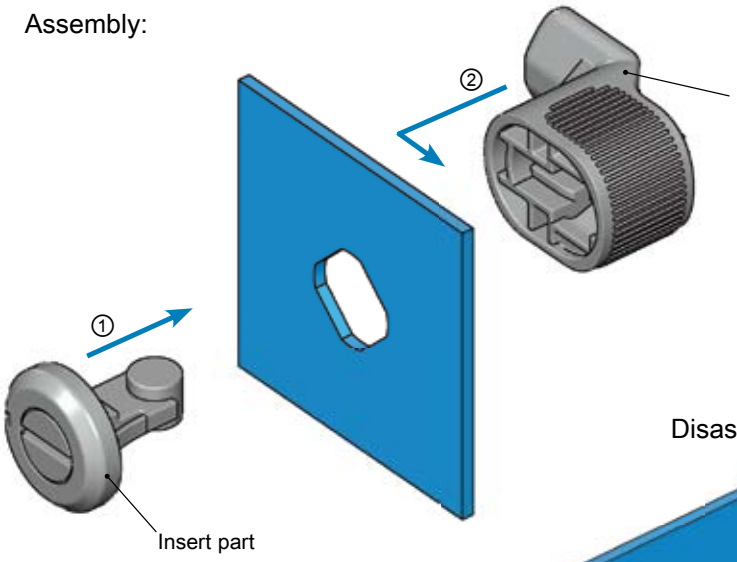
Quick fastener

PROGRAM 1022

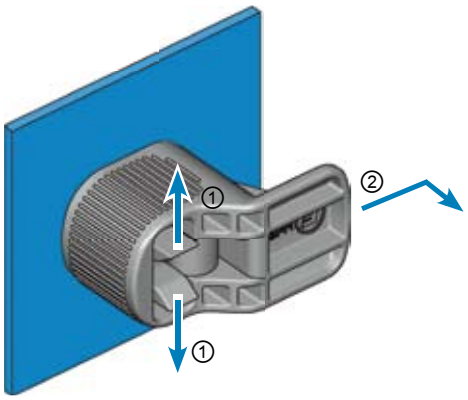
Patented,
self-sealing design

Assembly and disassembly without tools

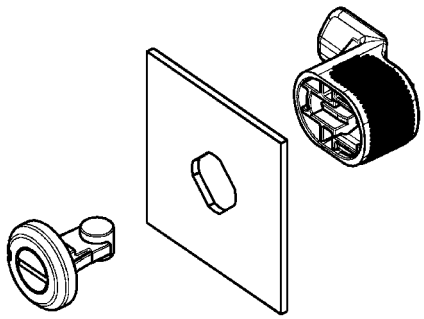
Assembly:

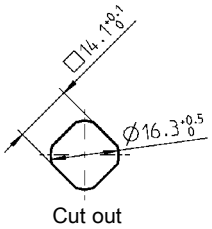


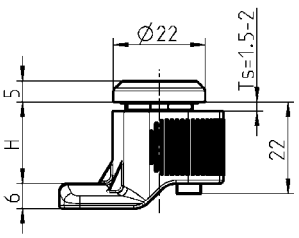
Disassembly:

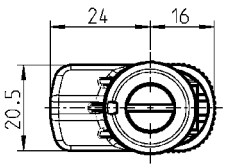


Note! IP 69K test passed!
The basic principle of the patented solution is: the higher the closing force, the greater the tightness.
The IP 69K Rating was achieved in the test with a cam pretension of ≥ 1 mm and ≥ 65 N









Assembly note:

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

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

Other door thickness on request!

Further parts see page
– other snap-in pin on request
– Key 12B-120

Insert part polyamide GF black; with seal	
Square 6	1022-U89
Triangular 6.5	1022-U90
Slot 1.5 x 3	1022-U91
Snap-in pin polyamide GF black	
H	
7,5	1022-54-01
13,5	1022-54-02
19,5	1022-54-03

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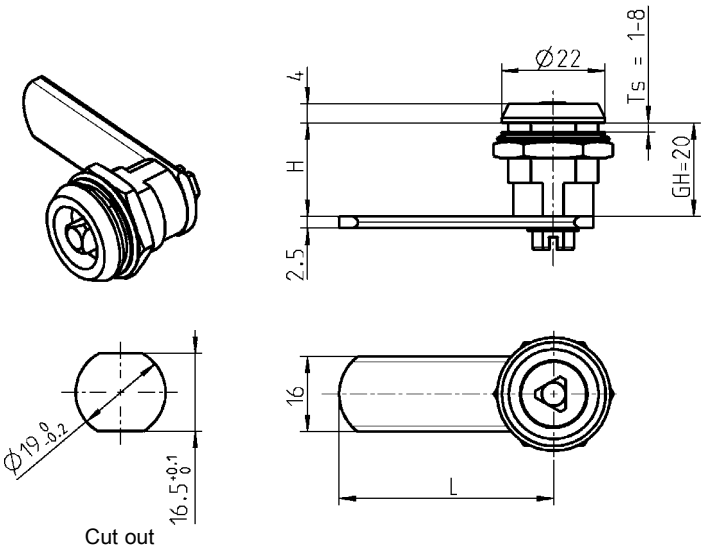
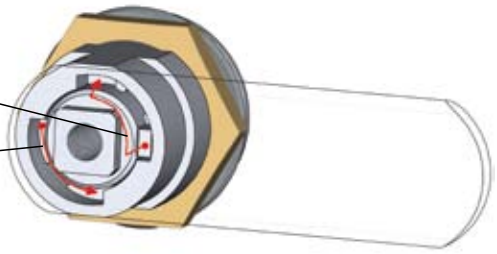
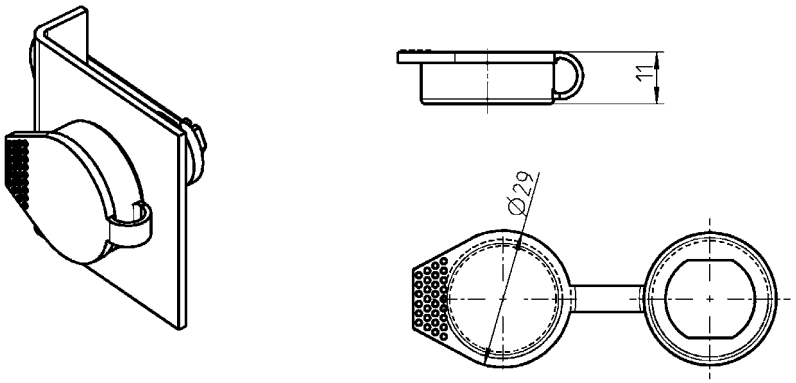
Quarter turn with built-in options, medium version

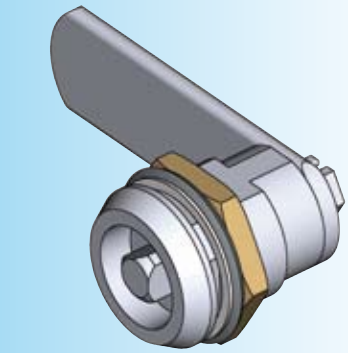
PROGRAM 1012



2 in 1





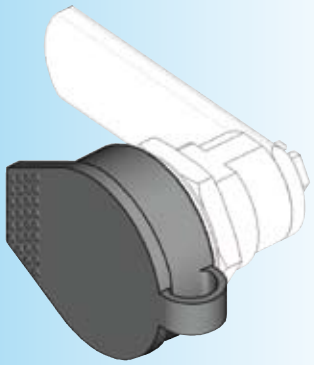


This quarter turn has two options.

Version A:
Push cam back using insert and turn.
Quarter turn snaps into place.

Version B:
Turn insert.
Quarter turn does not snap into place.

Note:
The quarter turn is vibration-proof. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.



Complete quarter turn: Housing with insert zinc die nickel plated, Nut brass, screw m.s.zinc plated with spring and seal		Key
Square 7	1012-U2	1004-36
Triangular 6.5	1012-U1	1004-21
Double bit 3	1012-U3	1004-34
Slot 2 x 2.5 coinproof	1012-U4	–
Cam m.s. zinc plated		
H = 20 ; L = 46	1012-05	
Lock washer Fst zinc plated		
	1012-06-JG	
Dust cap polyethylene black		
	1012-08	

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

Other inserts on request!

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

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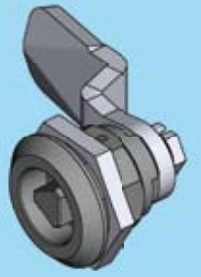
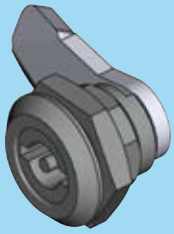
Quarter turns large version, Program 1000

1 

1 

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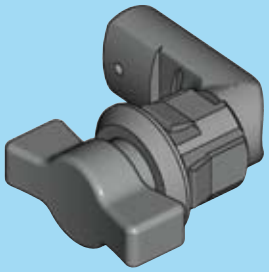
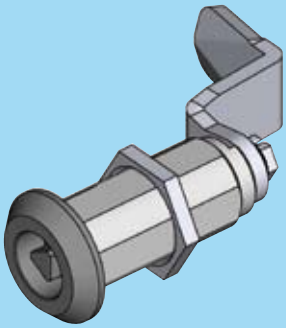
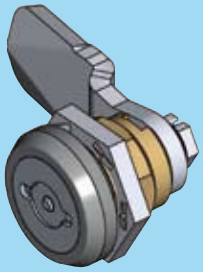
3 

1 

4 

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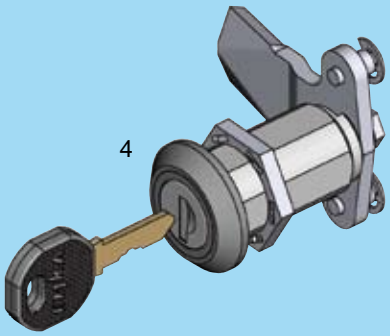
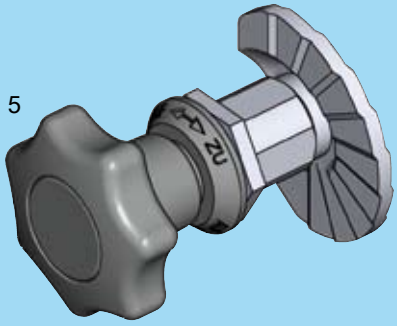
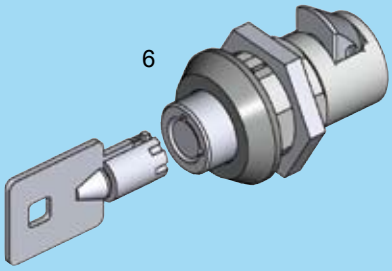
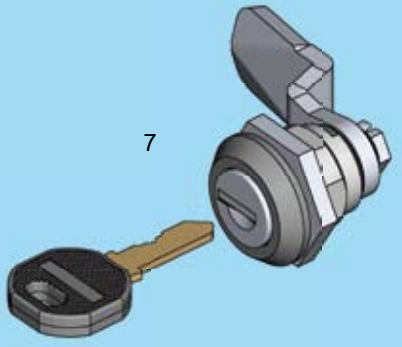
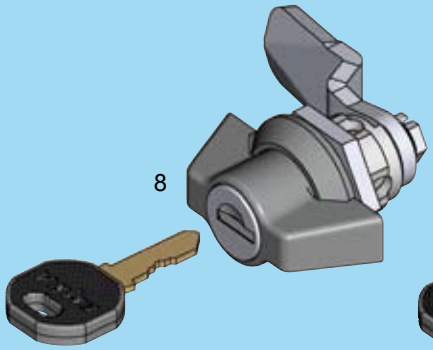
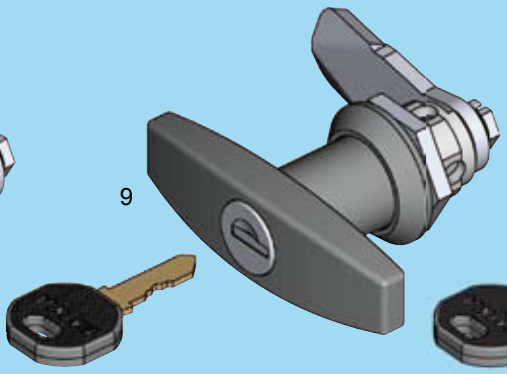
4 

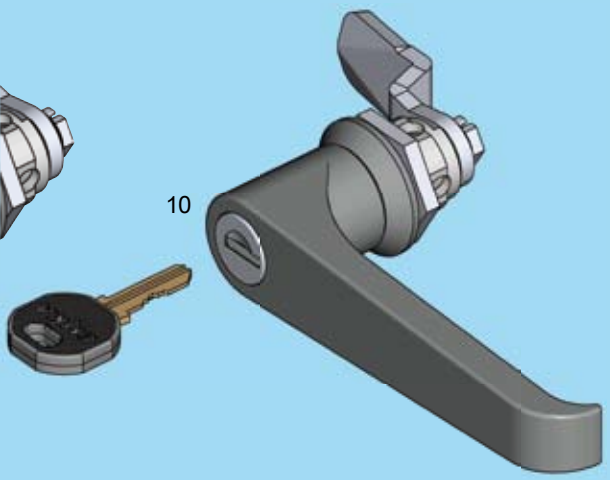
5 

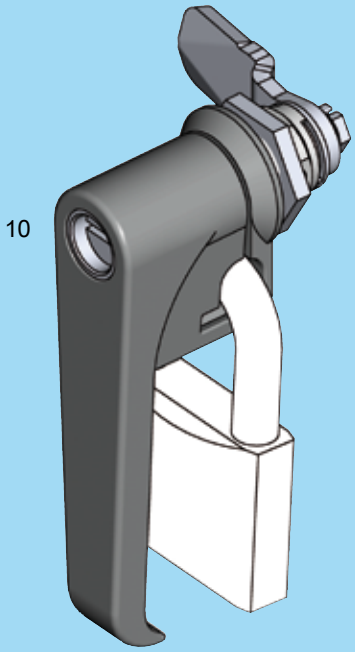
6 

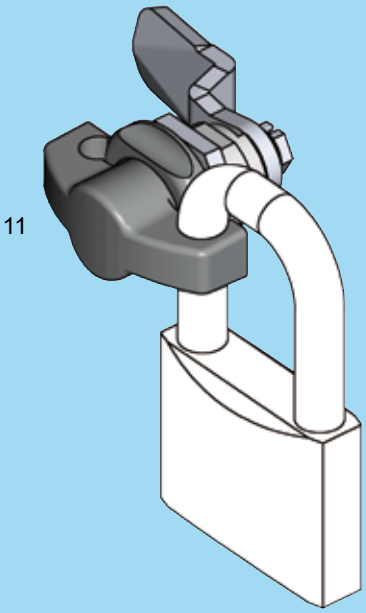
7 

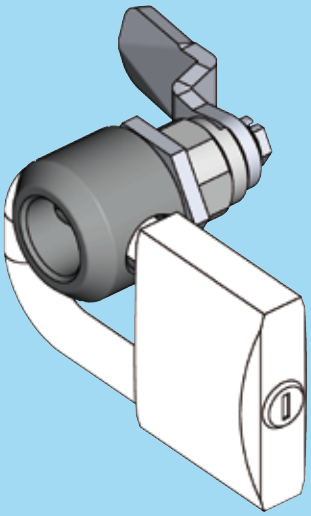
8 

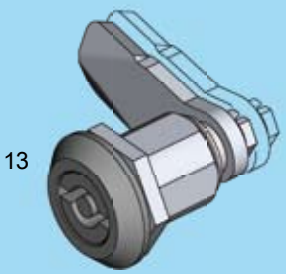
9 

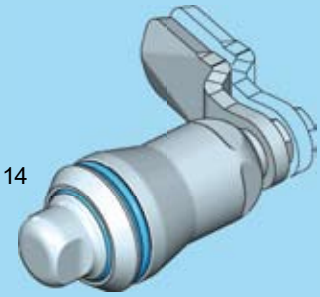
10 

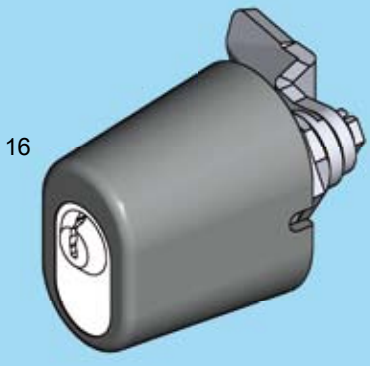


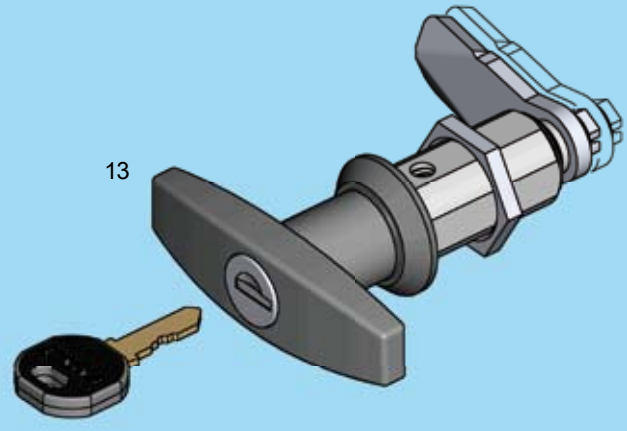


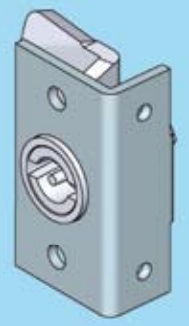


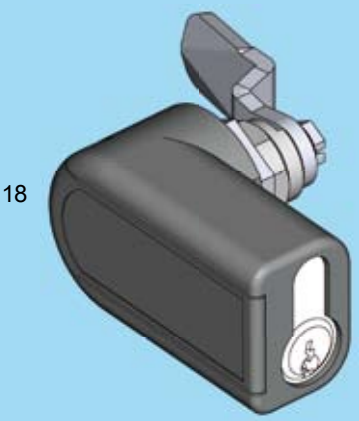












1	Quarter turn screw-on e.g. with insert	1B-120 up to 1B-360, 1B-680 up to 1B-860
2	Quarter turn with spring fixing e.g. with insert	1B-160
3	Clip-in quarter turn e.g. with wing knob	1B-160, 1B-760
4	Safety quarter turn	1B-320 up to 1B-360
5	Quarter turn with stepped cam	1B-240
6	Radial pin-push cylinder	1B-380
7	Quarter turn with cylinder	1B-420
8	Wing knob	1B-540
9	T-Handle	1B-520, 1B-560
10	L-Handle	1B-580 up to 1B-640
11	Quarter turn for padlock	1B-680
12	Quarter turn with padlockable housing	1B-680
13	Compression latch	1B-220 up to 1B-235
14	Stainless steel compression latch for hygienic areas	1B-837
15	Quarter turn for hygienic areas	1B-835
16	Wing knob for ASSA-cylinder	1B-840
17	Quarter turn screw-on or weld-on	1B-820
18	Quarter turn for profile half cylinder	1B-850

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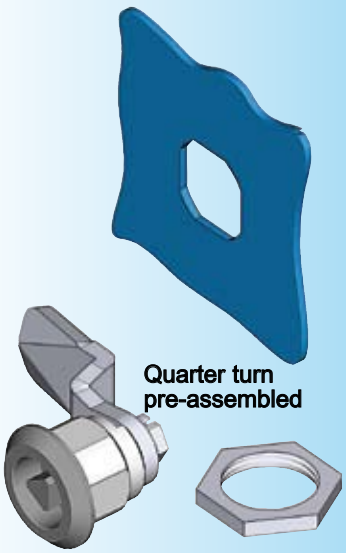
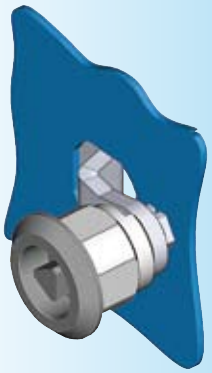
Quarter turn assembling

PROGRAM 1000

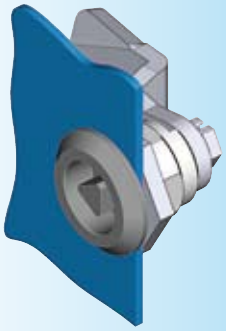


Quarter turn pre-assembled

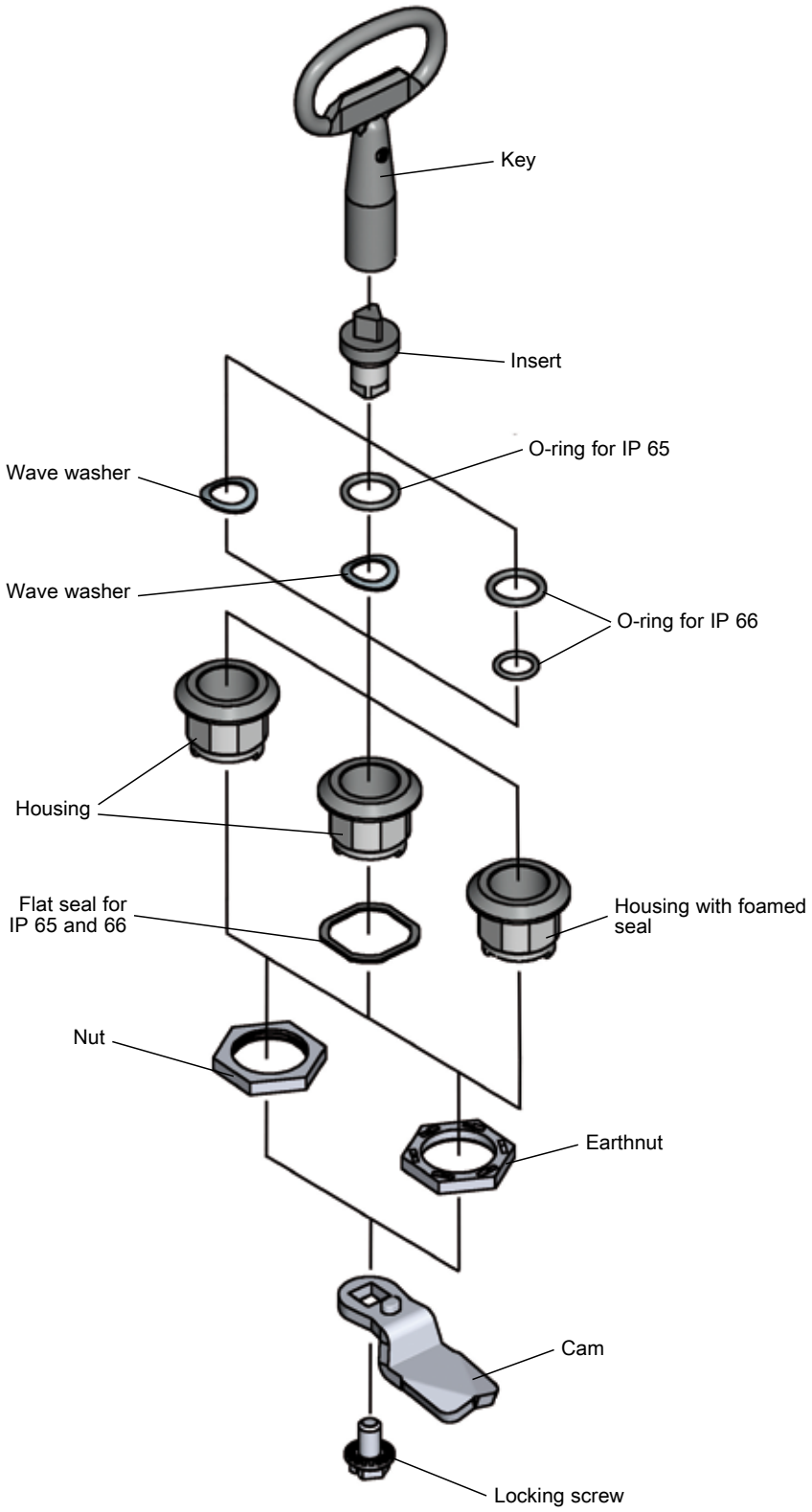


Pass through cut out

Assemble the nut



Ready for operating



Screw-in safety earthing quarter turn program

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

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

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

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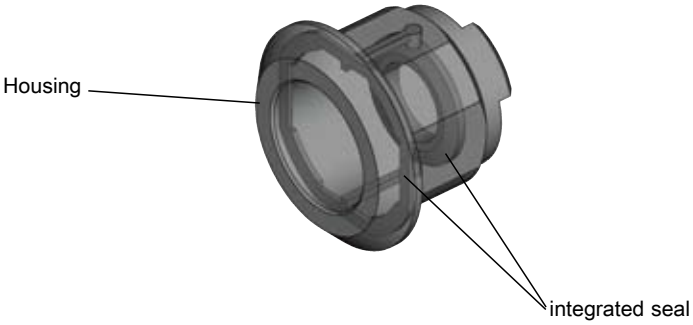
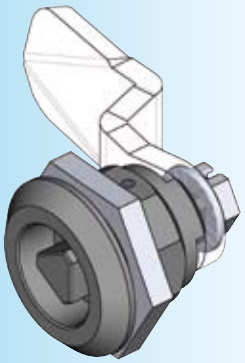
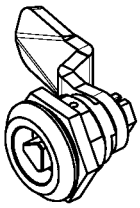
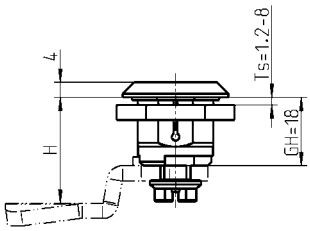
Quarter turn with integrated IP 65 seals

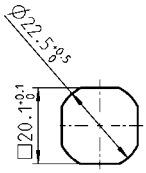
PROGRAM 1000











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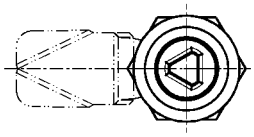

Housing polyamide 6 GF 30 black with integrated TPE seal* with nut m.s. zinc plated		
Head diameter	**28**	**32**
Head height	**4**	**6**
	1000-U155-D	1000-U46-D
Insert polyamide 66 GF 50 black with screw m.s. zinc plated		
Square 7	1000-U184-N2	
Square 8	1000-U185-N2	
Triangular 8	1000-U186-N2	
Double bit 3	1000-U187-N2	
Double bit 5	1000-U188-N2	
Slot 2 x 4	1000-U196-N2	
Assembling on request		
	1000-990	

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

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

Further parts see page

– cam with catch		1C-120
	up to	1C-180
– Accessories	from	1C-170
– Escutcheon		3B-140
– Key		12B-120

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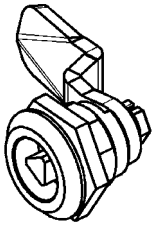
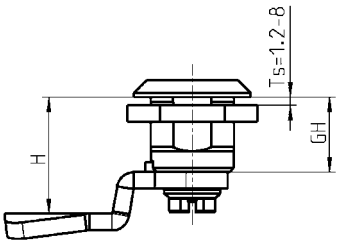
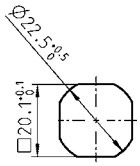
Quarter turn; Housing GH = 18 and 30 - 60; Insert; Seal

PROGRAM 1000







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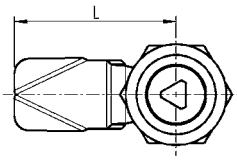
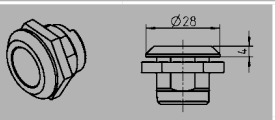
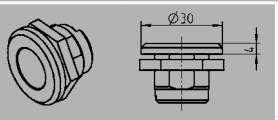
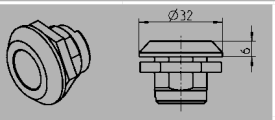
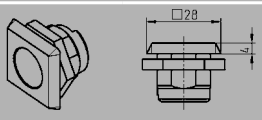
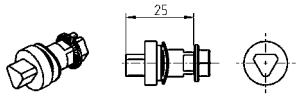


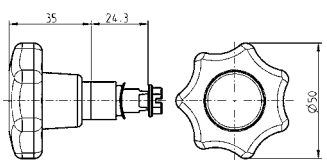
Housing with nut or earthnut m.s.zinc plated

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

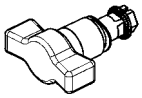
Insert zinc die, polyamide or stainless steel; Fixing material m.s. zinc plated or stainless steel; with seal (only for stainless steel version)	Zinc die chrome plated	Zinc die black	Polyamide 66 GF 50 black	Stainl.steel AISI 304	Stainl.steel AISI 316
Square 6	1000-U17	1000-U322	–	1000-U351	–
Square 7	1000-U1	1000-U323	1000-U184-N	1000-U135	1000-U531
Square 8	1000-U2	1000-U324	1000-U185-N	1000-U136	1000-U532
Square 8 slotted	1000-U18	–	–	1000-U352	–
Triangular 6.5 CNOMO	1000-U197	–	–	–	–
Triangular 7	1000-U3	1000-U325	–	1000-U334	1000-U536
Triangular 8	1000-U4	1000-U326	1000-U186-N	1000-U335	1000-U537
Triangular 9	1000-U194	–	–	–	–
Triangular 10	1000-U249	–	–	–	–
Double bit 3	1000-U5	1000-U327	1000-U187-N	1000-U183	1000-U533
Double bit 5	1000-U6	1000-U328	1000-U188-N	1000-U137	1000-U534
Hexagon female 10	1000-U96	–	–	–	–
Square female 6	1000-U168	–	–	–	–
Square female 7	1000-U182	–	–	–	–
Square female 8	1000-U169	–	–	–	–
Daimler Benz	1000-U20	–	–	–	–
Slot 1,2 x 3	1000-U195	–	–	–	–
Slot 2 x 4	1000-U142	1000-U329	1000-U196-N	1000-U630	1000-U631
Slot 2 x 4 coinproof	1000-U738	1000-U739	–	–	–
Crown type	1000-U336	–	–	–	–
Eastern Europe Ø 13	1000-U509	–	–	1000-U729	–
Hexagon female 8 with pin	1000-U757	–	–	1000-U757-01	–
			Polyamide GF / Zinc die black	**Polyamide GF black / AISI 304**	
Star handle	–	–	1000-U13	1000-U138	–
Wing knob	–	–	1000-U78	1000-U510	–

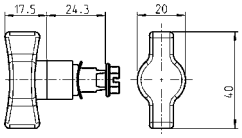


Insert



Star handle





Wing knob

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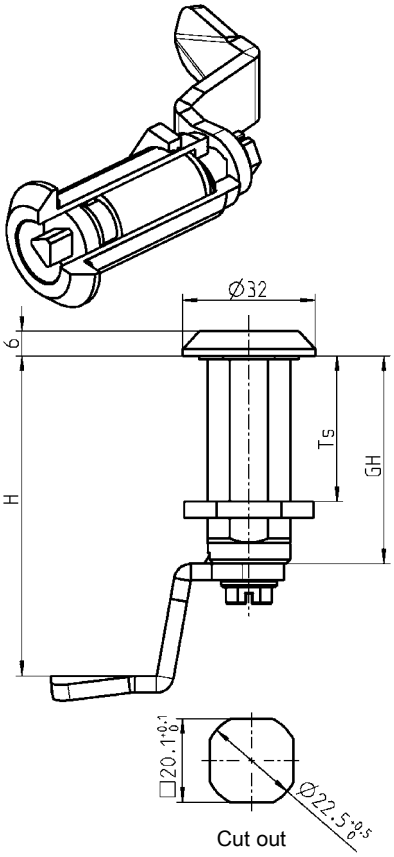
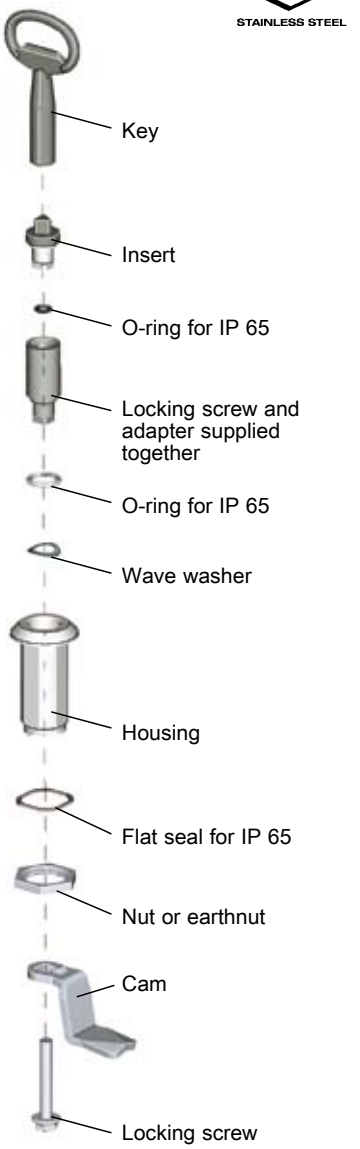


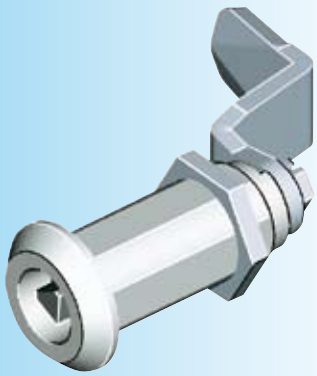
Assembling instruction



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

Housing material on choice nut or earthnut m.s. zinc plated

GH	Ts	Zinc die chrome plated		Zinc die black powder coated		Polyamide black
	1,5 –	Nut	Earthnut	Nut	Earthnut	Nut
30 mm	**20 mm**	1000-U51	1000-U65	1000-U225	1000-U226	–
– adapter				1000-U164		
36 mm	**26 mm**	1000-U246	1000-U248	1000-U317	1000-U318	–
– adapter				1000-U198		
40 mm	**30 mm**	1000-U66	1000-U67	1000-U227	1000-U228	1000-U737
– adapter				1000-U165		
50 mm	**40 mm**	1000-U68	1000-U69	1000-U229	1000-U230	1000-U736
– adapter				1000-U166		
60 mm	**50 mm**	1000-U504	1000-U505	1000-U506	1000-U507	–
– adapter				1000-U535		



** included in case of stainless st. version

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

Note:
Quarter turn assembling 1B-105

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

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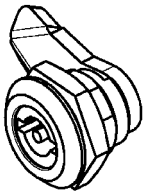
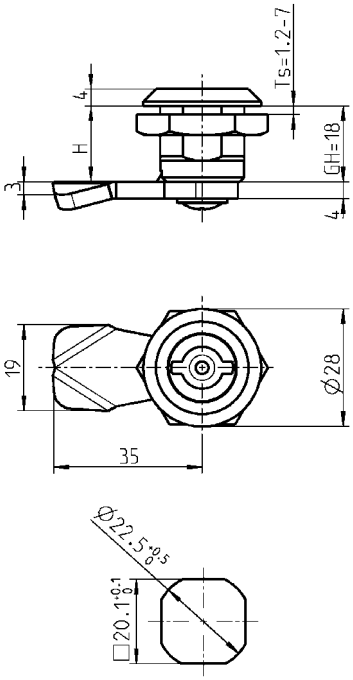
Plastic quarter turn

PROGRAM 1000

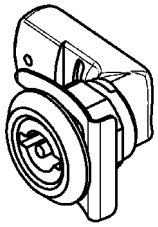
Nut fixing

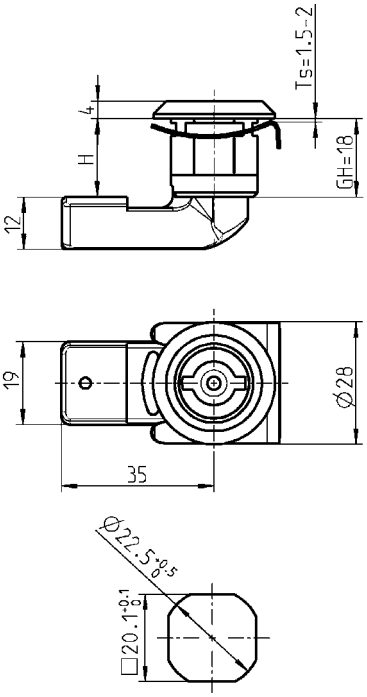




Cut out

Spring fixing





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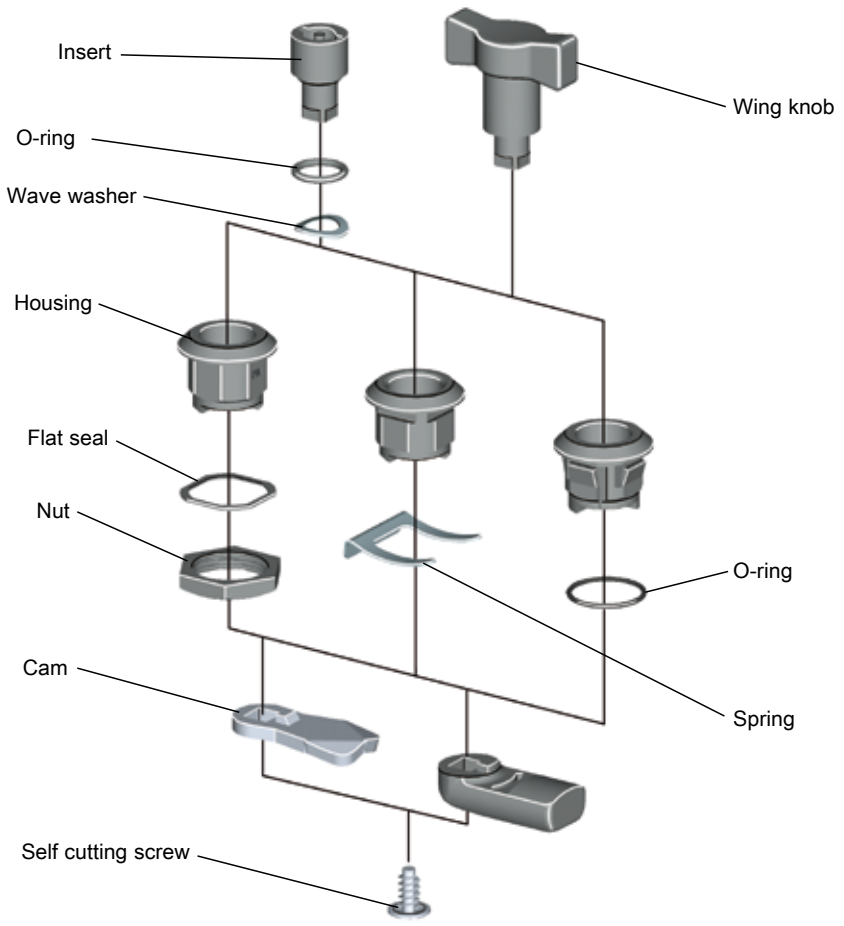

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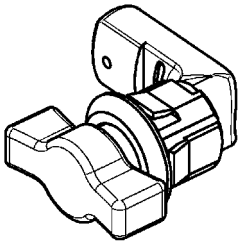
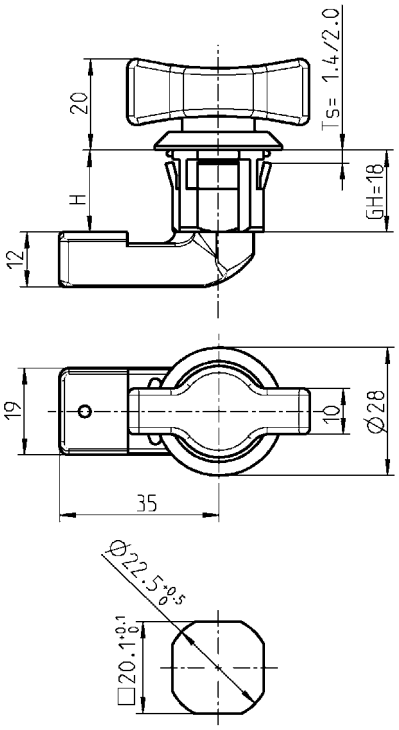
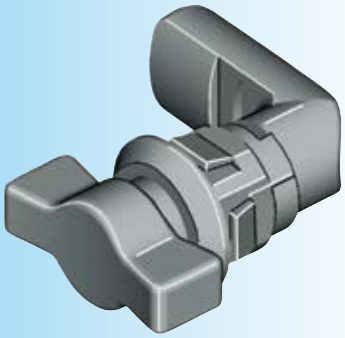
Clip-in fixing





Cut out

Housing polyamide GF black with nut or spring fixing AISI 301		Housing polyamide black with O-ring	
*nut fixing	Spring fixing	Ts	clip-in
1000-U675	1000-U709	1,4**	1000-U695
		2,0	1000-U696
Insert polyamide black, wave washer and self cutting screw m.s. zinc plated			
Square 7		1000-U666	
Square 8		1000-U676	
Triangular 8		1000-U667	
Double bit 3		1000-U677	
Double bit 5		1000-U678	
Slot 2 x 4		1000-U679	
Eastern Europe Ø 13		1000-U680	
Wing knob insert (IP 50) IP 65 on request		1000-U711	
Cam on choice			
H		**m.s. zinc plate, t=4**	**polyamide black**
18		1000-5046	1000-386-18
20		1000-5161	1000-386-20
22		1000-5119	1000-386-22
24		-	1000-386-24
28		1000-5164	1000-386-28
30		-	1000-386-30
IP 65 (see housing) with:			
Flat seal (nut fixing only)			1000-23
O-ring			1000-24



Note:
Quarter turn assembling 1B-105

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

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EMKA®

Beschlagteile

Notes:

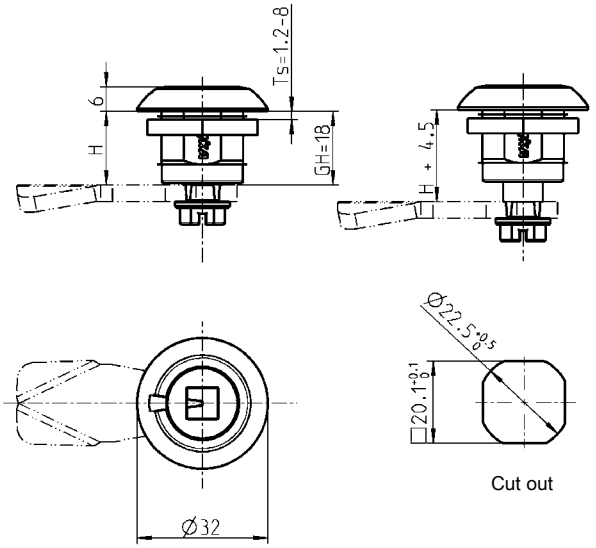
Compression latch

PROGRAM 1000

tamper and vibration-proof

The compression latch is designed to be vibration-proof as such. Depending on the Installation Location and operations conditions specific checks are required and/or supplementary measures for fastening necessary.

EDELSTAHL Rost frei STAINLESS STEEL



Cut out

Certificate DIN EN 45545-2 E20

with stainless steel version

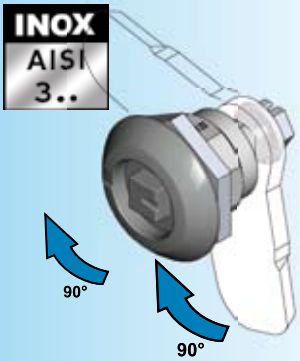
RL

IP 65

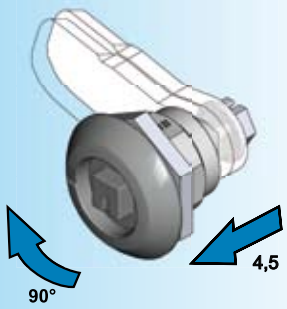
4,5

DIN EN 61373

INOX AISI 3..



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



Closed condition
By turning the insert by another 90° the cam moves by 4.5 mm in alignment

Compressed condition

Open:
Reversed rotation

Housing and insert maerial as requested
nut and screw m.s. zinc plated,
with spring and seal;

	Zinc die black powder coated	Zinc die chrome plated	AISI 316
Square 6	on request	on request	on request
Square 7	on request	on request	1000-U859-PH
Square 8	1000-U852	1000-U852-IA	1000-U852-PH
Triangular 6.5 CNOMO	on request	on request	on request
Triangular 7	on request	1000-U864-IA	1000-U864-PH
Triangular 8	1000-U853	on request	1000-U853-PH
Triangular 9	on request	on request	on request
Triangular 10	on request	on request	on request
Double bit 3	1000-U854	on request	1000-U854-PH
Double bit 5	1000-U855	on request	1000-U855-PH
Male hexagon SW 11.1 with indicator	on request	on request	on request
Female Hexagon SW 8	on request	on request	on request
Female hexagon SW 8 with pin	on request	on request	on request
Female hexagon SW 10	on request	on request	on request
Female square 6	on request	on request	on request
Female square 7	on request	on request	on request
Square female 8	on request	on request	on request
Daimler Benz	on request	on request	on request
Slot 1.2 x 3	on request	on request	on request
Slot 2 x 4	on request	on request	on request
Slot 2 x 4 coinproof	on request	on request	on request
Crown type	on request	on request	on request
National railway	1000-U856	on request	1000-U856-PH
Tubular with indicator	on request	on request	on request

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

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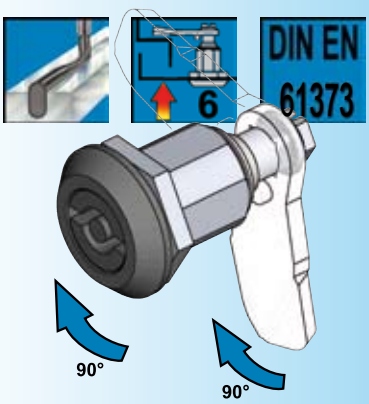
Compression latch

PROGRAM 1000

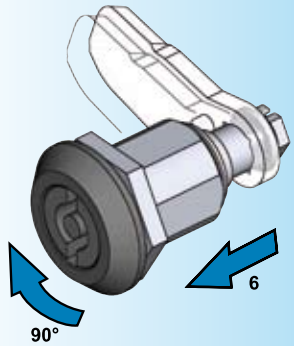
RL

IP 65

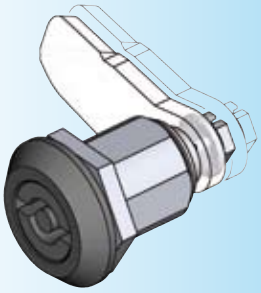
DIN EN 61373



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



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



Compressed condition

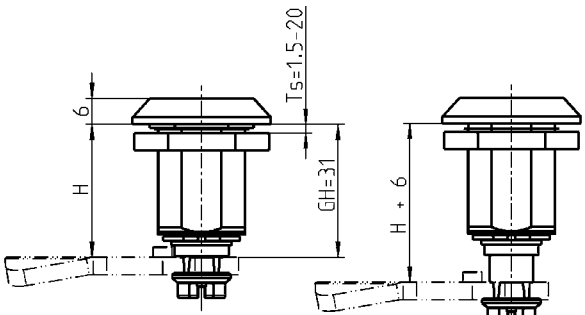
Unlock:
Reversed rotation

Further parts see page

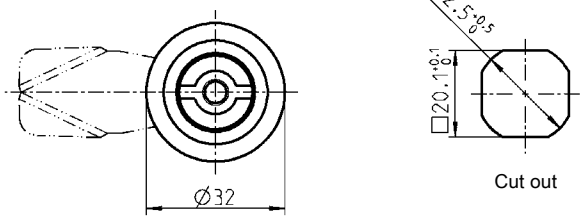
– Stainless version 1B-235
– Cam with or without catch from 1C-120
(not for cam with rod control)
– Accessories from 1C-320
– Escutcheon 3B-140
– Key 12B-120

Vibration proof

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



Housing with indicator on request



Cut out

Housing and insert zinc die surface as requested, nut and screw ms zinc plated, with spring and seal; wing knob polyamide GF black with black stopper PE		
	black powder coated	chrome plated
Square 6	on request	on request
Square 7	1000-U796	on request
Square 8	1000-U755	on request
Square 8 with arrow head	1000-U798	on request
Square 8mm with M6 thread and wing knob	1000-U800	on request
Triangular 6,5 CNOMO	on request	on request
Triangular 7	1000-U795	on request
Triangular 8	1000-U783	on request
Triangular 9	on request	on request
Triangular 10	on request	on request
Double bit 3	1000-U749	on request
Double bit 5	1000-U748	on request
Male hexagon 11mm with indicator	on request	on request
Hexagon female 8mm	1000-U807	on request
Hexagon female 8mm with pin	1000-U805	on request
Hexagon female 10mm	1000-U809	on request
Square female 6mm	on request	on request
Square female 7	on request	on request
Square female 8	1000-U811	on request
Daimler Benz	on request	on request
Slot 1,2 x 3	1000-U750	on request
Slot 2 x 4	1000-U777	on request
Slot 2 x 4 coinproof	on request	on request
Crown type	on request	on request
Railway	1000-U831	1000-U831-IA
Tube with indicator	1000-U833	on request

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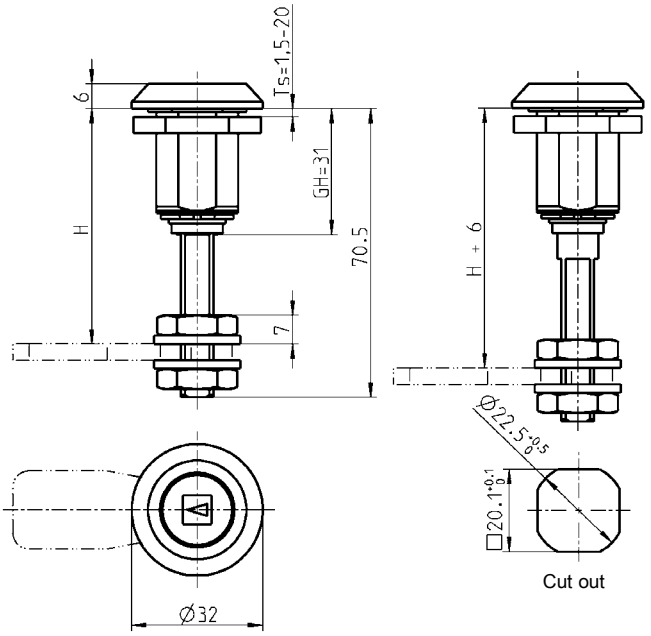
Compression latch with adjustable cam

PROGRAM 1000

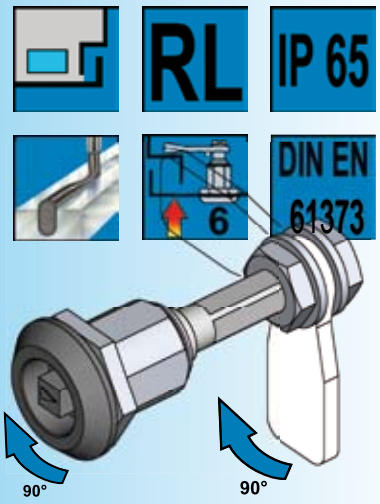
Vibration proof

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

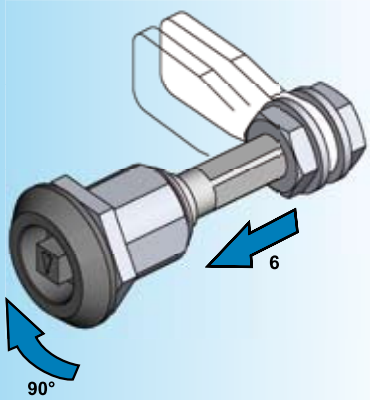


Housing and insert zinc alloy surface of your choice, nut, screw and washer m.s. with spring and seal.
Wing Knob polyamide black with black PE stopper.

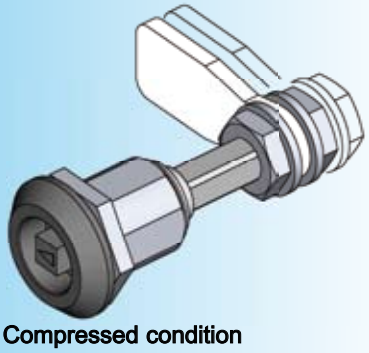
	black powder coated	chrome plated
Square 6	on request	on request
Square 7	1000-U786	on request
Square 8	1000-U797	on request
Square 8mm with arrow	1000-U799	on request
Square 8mm with M6 thread and wing knob	1000-U801	on request
Triangular 6,5 CNOMO	on request	on request
Triangular 7	1000-U794	1000-U794-IA
Triangular 8	1000-U802	on request
Triangular 9	on request	on request
Triangular 10	on request	on request
Double bit 3	1000-U803	on request
Double bit 5	1000-U804	on request
Male hexagon 11mm with indicator	1000-U816	on request
Hexagon female 8mm	1000-U808	on request
Hexagon female 8mm with pin	1000-U806	on request
Hexagon female 10mm	1000-U810	on request
Square female 6mm	on request	on request
Square female 7	on request	on request
Square female 8	1000-U812	on request
Daimler Benz	on request	on request
Slot 1,2 x 3	1000-U814	on request
Slot 2 x 4	1000-U813	on request
Slot 2 x 4 coinproof	on request	on request
Crown type	on request	on request
Railway	1000-U832	1000-U832-IA
Tube with indicator	1000-U830	on request



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



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



Compressed condition

Unlock:
Reversed rotation

Note:
Only cams without a stopper can be used.

Further parts see page

– Stainless steel version 1B-236
– Cam (GH = 31) 1C-137
– Accessories from 1C-320
– Escutcheon 3B-140
– Key 12B-120

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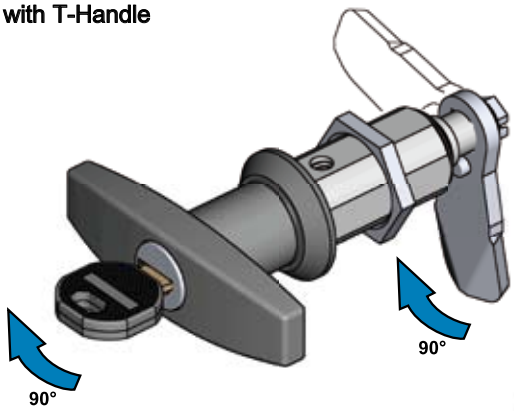
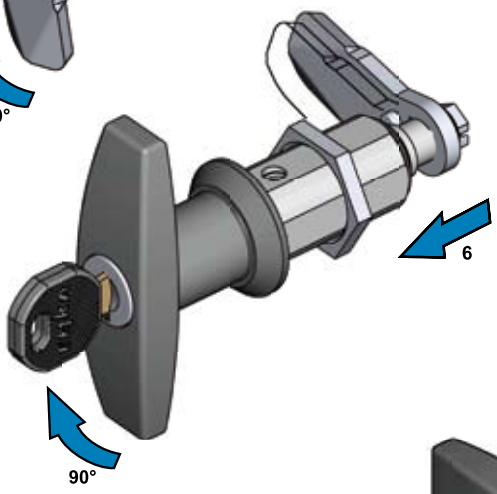
Compression latch with handle

PROGRAM 1000

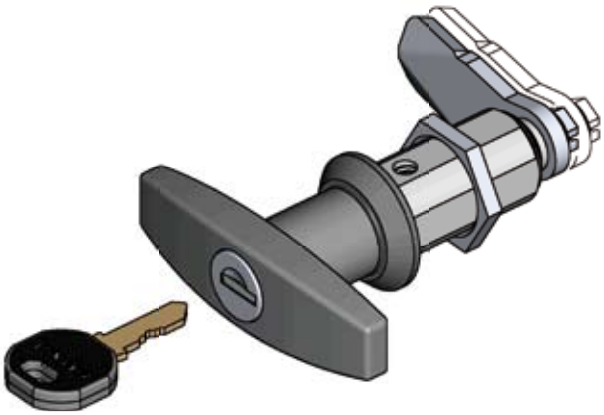
Attention:
Compression latch with T-Handle



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



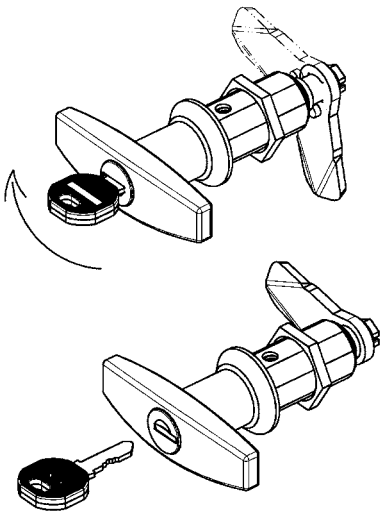
Closed position
If you continue with rotating the insert by another 90° the cam is moved by 6 mm in an axial direction.

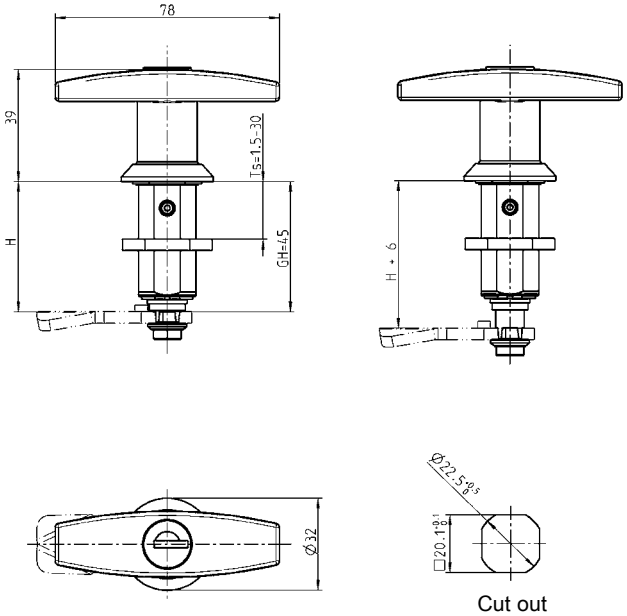


Compressed condition
Key removable

Unlock:
Reversed rotation

Compression latch with T-Handle





Cut out

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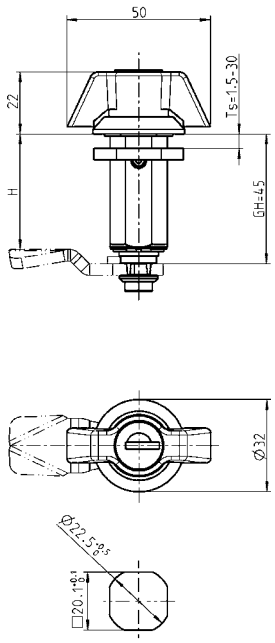
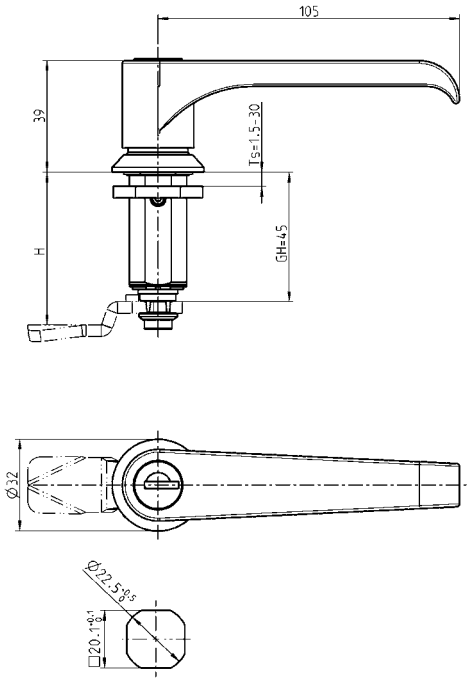
Compression latch with wing knob

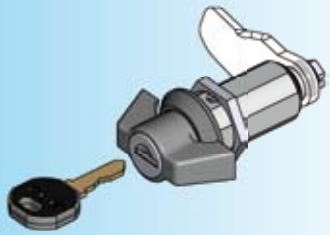
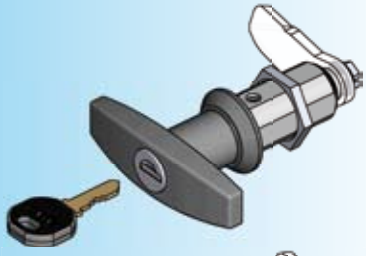


Cut out

Compression latch with L-Handle



Cut out

Shake and vibration proof

The 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 may be 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 m.s. with spring and seal
Each cylinder has one silver steel key with polyamide grip.
Key removable in both positions.

	non locking	keyed EK 333	keyed different
Wing knob	1000-U826	1000-U827	1000-U828
T-Handle	1000-U820	1000-U821	1000-U822
L-Handle	1000-U823	1000-U824	1000-U825

Further parts see page
– Cam with or without catch from 1C-120 (not for cam with rod control)
– Dust cap for T-Handle 1C-340
– Spare key 12B-140

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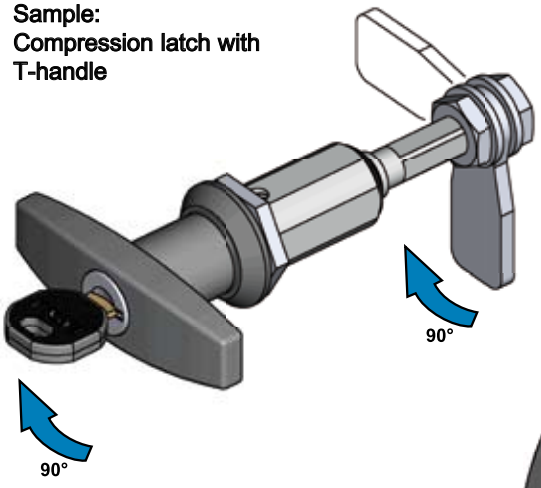
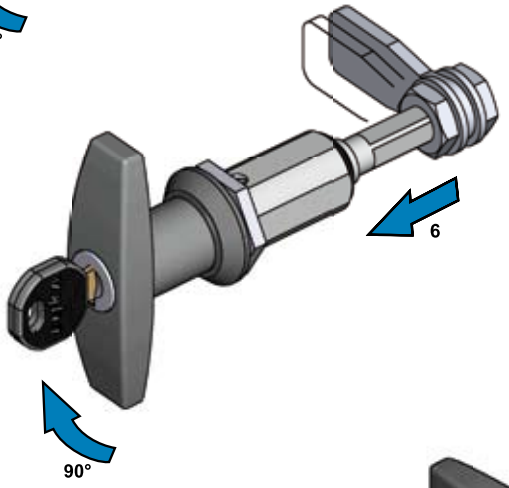
Compression latch with handle and adjustable cam

PROGRAM 1000

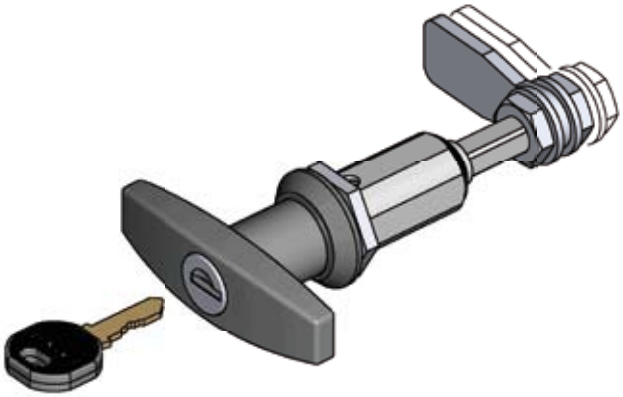
Sample:
Compression latch with T-handle



Open condition
The cam is rotated as soon as you turn the handle by 90°



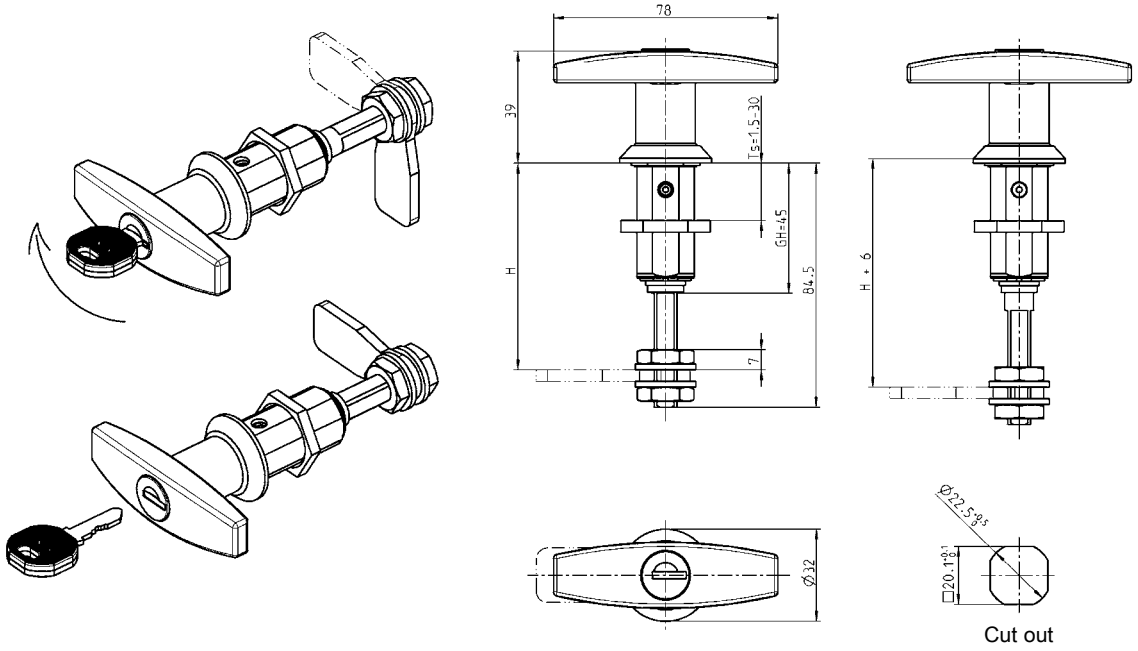
Closed position
If you continue with rotating the insert by another 90° the cam is moved by 6 mm in an axial direction.



Compressed condition
Key removable

Unlock:
Reversed rotation

Compression latch with T-Handle



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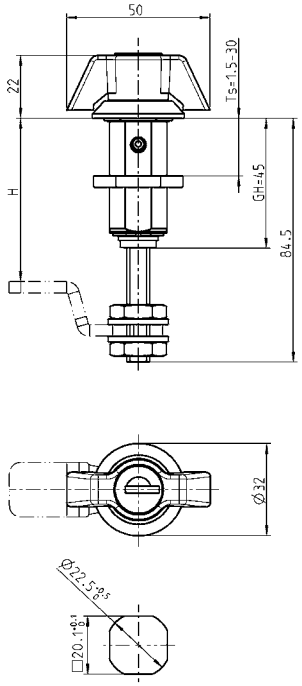
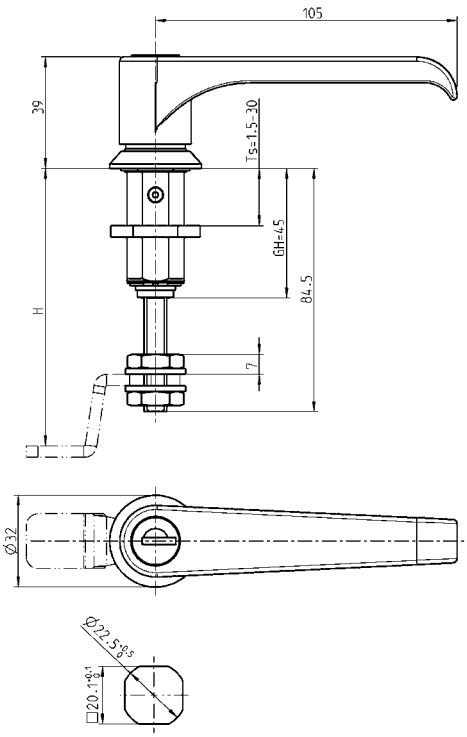
Compression latch with wing knob



Cut out

Compression latch with L-Handle



Cut out

Shake and 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 wave washer zinc plated with spring and seal
Each cylinder has one silver steel key with polyamide GF grip black.
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

Note:
Only cams without a stopper can be used

Further parts see page
– Cam (GH = 45) 1C-137
– Dust cap for T-Handle 1C-340
– Spare key 12B-140

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Notes:

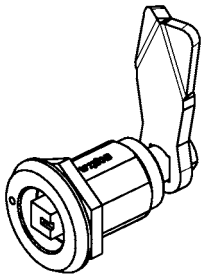
Stainless steel compression latch

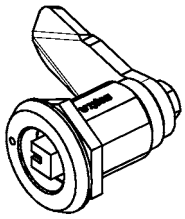
PROGRAM 1000

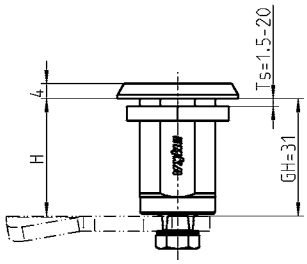
Tamper and vibration-proof

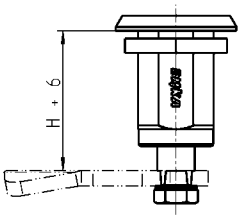
The compression latch is vibration-proof as such. Depending on the Installation Location and operating conditions specific checks are required and/or supplementary fastening measures necessary.

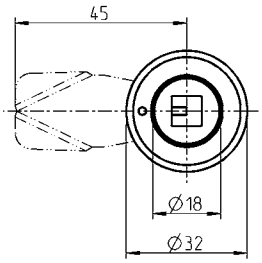
National railway version is RIC compliant.

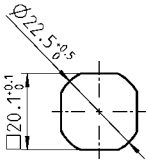




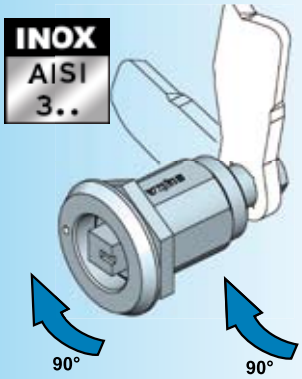




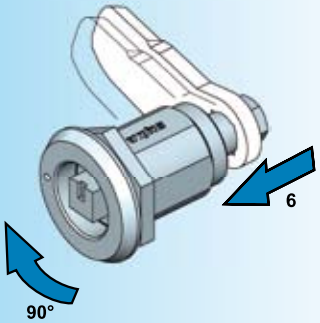




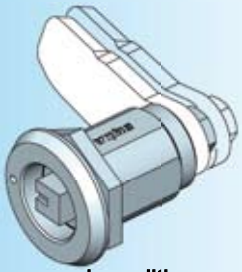
Cut out



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



Closed condition
By turning the insert another 90°,the cam is axially moved by 6 mm .



Compressed condition

Open:
Reversed rotation

Compression latch AISI 316, with spring and seal	
Square 8 with indicator version right	1000-U865-REPH
Square 8 with indicator version left	1000-U865-LIPH
Hexagon male SW 10 version right	on request
Hexagon male SW 10 version left	on request
National railway version right	on request
National railway version left	on request

Further parts see page

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

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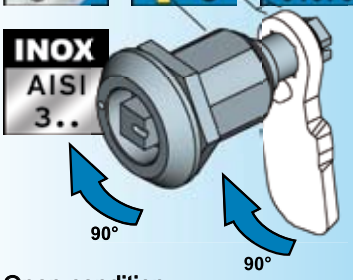
®Stainless steel and Aluminium compression latch

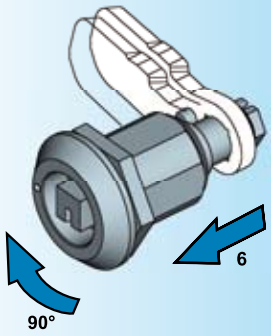
PROGRAM 1000

RL IP 65 DIN EN 61373

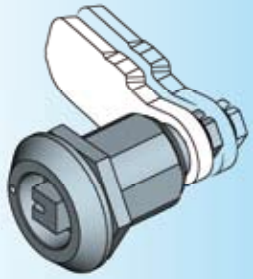
INOX AISI 3..



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



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



Compressed condition

Unlock:
Reversed rotation

Note:
Further inserts on request

Further parts see page
– Cam with or without catch (not for cam with rod control) from 1C-120
– Accessories 1C-320
– Key 12B-120

EDELSTAHL Rostfrei STAINLESS STEEL

Vibration proof

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

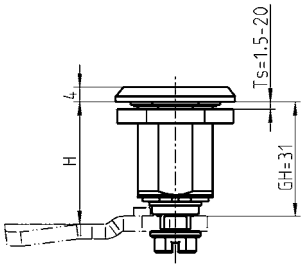
Certificate DIN EN 45545-2 E10
for aluminium version

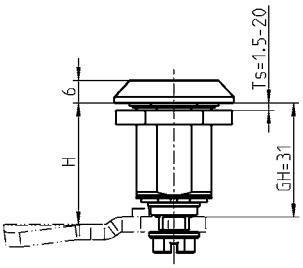
Certificate DIN EN 45545-2 E20
for stainless steel version

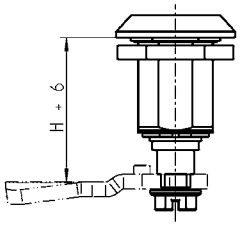
with arrow and red - green mark

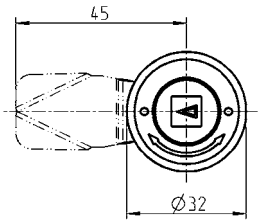
with mark

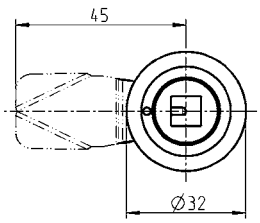
Note:
The H-dimension will be reduced by 2 mm when used with finger pull
(see page 1C-320)

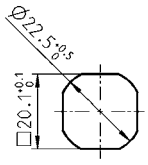












Cut out

Stainless steel compression latch with arrow head and red-green indicator AISI 316	
Square 8 right-hand version	1000-U834-REPH
Square 8 left-hand version	1000-U834-LIPH
Stainless steel compression latch AISI 316, with spring and seal	
Square 8 with mark	1000-U755-01
Double bit 3	1000-U749-01
Double bit 5	1000-U748-01
Slot 2 x 4	1000-U777-01
Aluminium compression latch Alu, with spring and seal	
Square 8 with indicator	on request
Slot 2 x 4	on request
National railway	on request

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Stainless steel compression latch with adjustable cam height

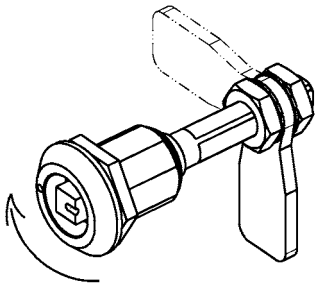
PROGRAM 1000

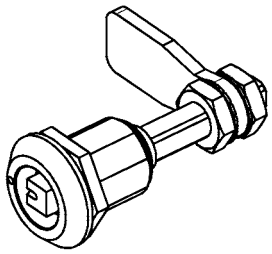
Vibration proof

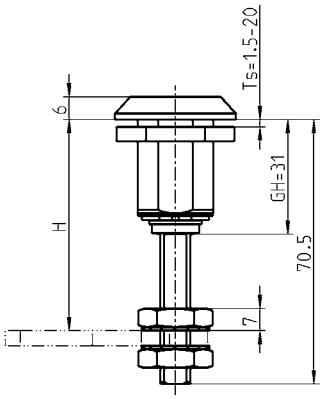
These latches are designed to be vibration resistant with a distinct “over-center” action. There may be some cases of extreme vibration where this detent is overcome. Therefore we recommend rigorous testing.

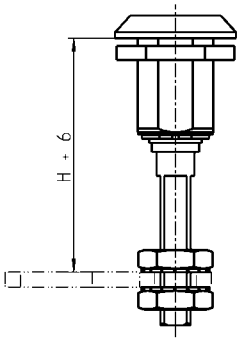
EDELSTAHL Rostfrei STAINLESS STEEL

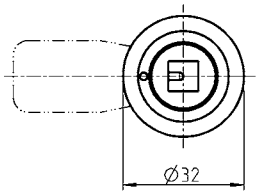
Certificate DIN EN 45545-2 E20

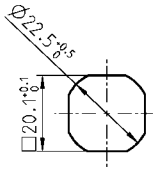






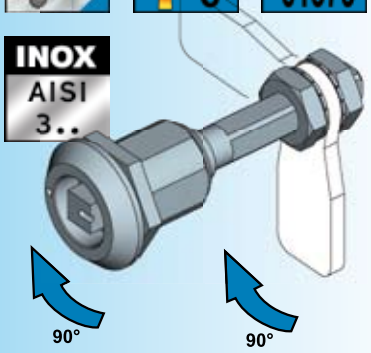




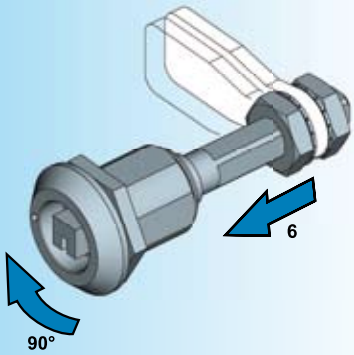


Cut out

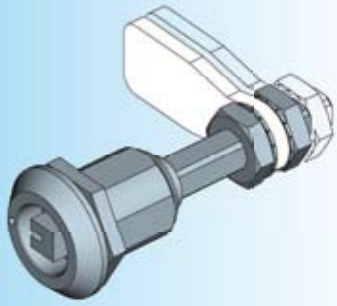
RL IP 65 DIN EN 61373



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



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



Compressed condition

Unlock:
Reversed rotation

Further parts see page

– Cam	on request
– Accessories	1C-320
– Key	12B-120

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

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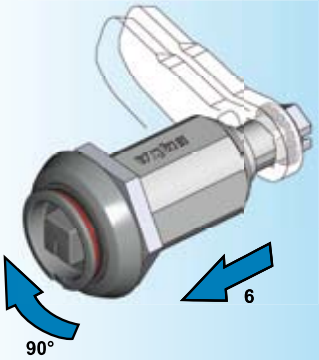
EMKA
Beschlagteile

®Compression latch with optical opening indicator

PROGRAM 1000

RL
IP 65
DIN EN 61373

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



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

Compressed condition

Unlock:
Reversed rotation

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

Vibration proof

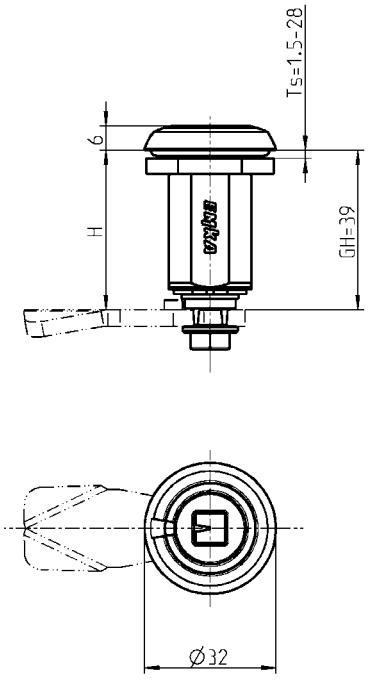
The compression latch is vibration-proof as such. Depending on the installation location and the operating conditions specific checks are required and/or fastening measures necessary.

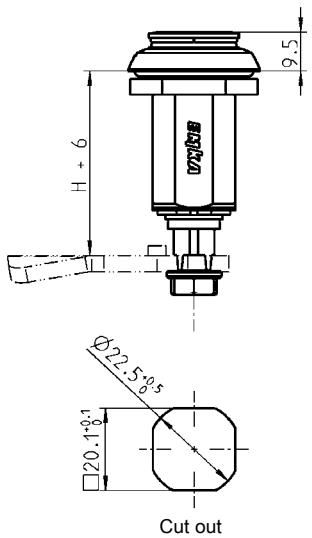
When the compression latch is used in combination with the dust cap (page 1C-330), another security aspect is added:

Additionally, when the lock is open and the red ring visible, the dust cap cannot be locked and remains open.

Compressed condition

Open condition





Housing and insert zinc die surface as requested, signal ring red, nut and screw m.s. zinc plated, with spring and seal		
	black powder coated	**Chrome plated**
Square 8	1000-U846	1000-U846-IA
Double bit 5	1000-U847	1000-U847-IA
National railway	1000-U848	1000-U848-IA

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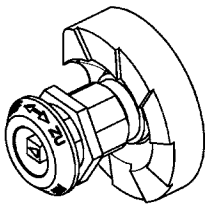
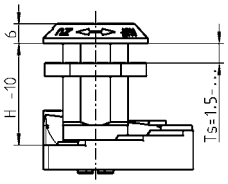
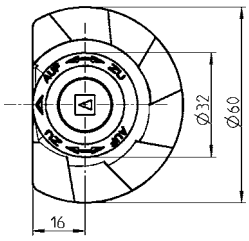
Quarter turn with stepped cam

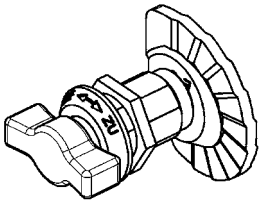
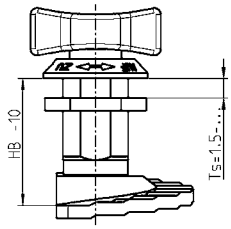
PROGRAM 1000

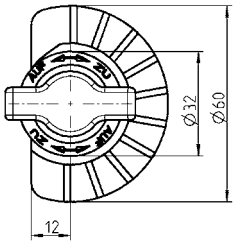
Version A

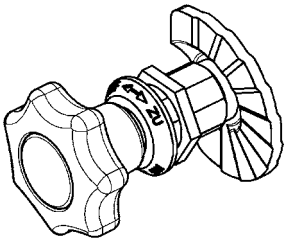
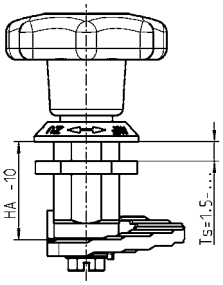


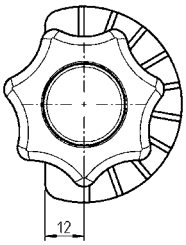
Version B

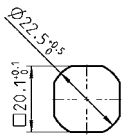





Version B





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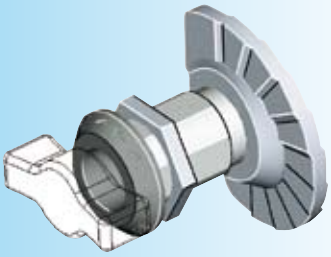
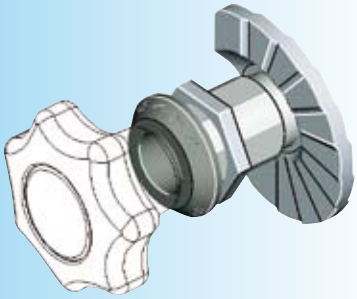

Housing with 270° stop

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

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

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

Advice:
Quarter turn-Assembling 1B-105

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

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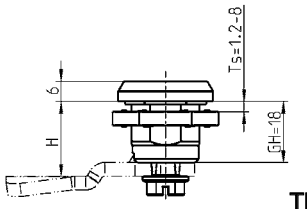
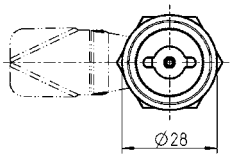
Notes:

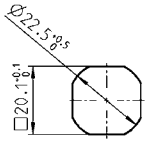
Safety quarter turn

PROGRAM 1000



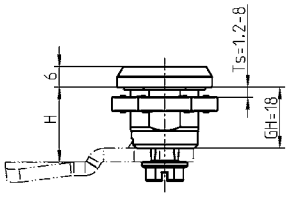
Right-hand version

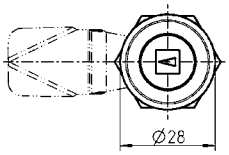




Cut out

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





EDELSTAHL Rost frei STAINLESS STEEL

Certificate DIN EN 45545-2 E20

for version stainless steel

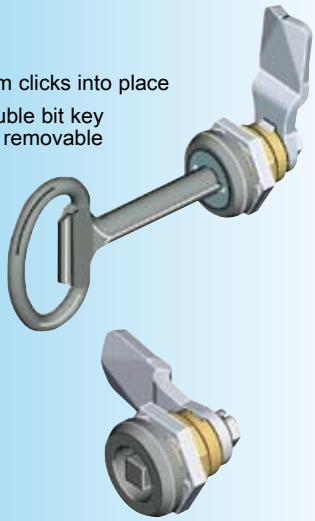
R L RL IP 65

INOX AISI 3..

By pressing down the insert, the cam can be turned

Cam clicks into place

Double bit key not removable



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

Housing with insert, screw and nut AISI 303, with seal	without Dust cap	with Dust cap
Double bit 3 mm RH version	1000-U714-01	1000-U725
Double bit 3 mm LH version	1000-U715-01	1000-U726
Double bit 5 mm RH version	1000-U716-01	1000-U727
Double bit 5 mm LH version	1000-U717-01	1000-U728
Square 6 mm RH/LH version	1000-U718-01	–
Square 7 mm RH/LH version	1000-U719-01	–
Square 8 mm RH/LH version	1000-U720-01	–
Triangular 7 mm RH/LH version	1000-U721-01	–
Triangular 8 version right/left	1000-U722-01	–
Slot 2x4 mm RH/LH version	1000-U723-01	–
Eastern Europe Ø 13 halfround, 90° and 180° stop, RH/LH version	1000-U724-01	–
Railroad RH/LH	1000-U710-01	–
Ø 8,6 with slot RH/LH	1000-U712-01	–

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

Hole for the double bit to DIN 43668.
Sealed against water and dust according to IP 65 DIN 40050.

Available with pre-assembled cam.

Further parts see page

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

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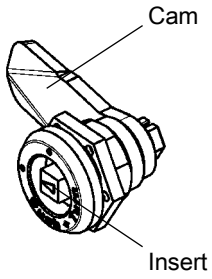
Safety quarter turn without mask

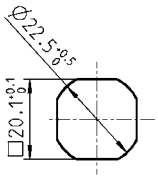
PROGRAM 1000

Press down insert and turn!

EDELSTAHL Rostfrei STAINLESS STEEL

with stainless steel version





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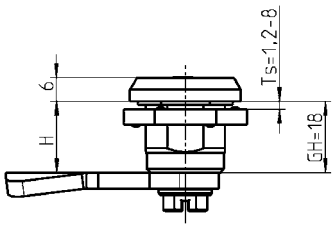

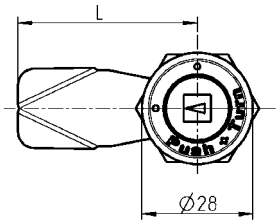

Housing and insert material on choice, mask zinc die raw, screw and earthnut m.s. zinc plated and/or screw and nut stainless steel, with spring and seal		
	zinc die chrome pl.	AISI 316
Square 6	on request	1000-U817-01PH
Square 7	1000-U817-02IA	on request
Square 8	1000-U817-03IA	1000-U817-03PH
Square 8 slotted	on request	on request
Triangular 6,5 CNOMO	on request	on request
Triangular 7	1000-U817-04IA	on request
Triangular 8	1000-U817-05IA	1000-U817-05PH
Triangular 9	on request	on request
Triangular 10	on request	1000-U817-07PH
Double bit 3	on request	on request
Double bit 5	on request	on request
Hexagon female 8mm	on request	1000-U817-24PH
Hexagon female 10mm	on request	on request
Square female 6mm	on request	on request
Square female 7	on request	on request
Square female 8	on request	on request
Daimler Benz	on request	on request
Slot 1,2 x 3	1000-U817-16IA	on request
Slot 2 x 4	1000-U817-17IA	on request
Slot 2 x 4 coinproof	on request	on request
Crown type	on request	on request
Eastern Europe Ø 13	on request	on request
Hexagon female 8mm with pin	on request	on request
Railway version	1000-U817-23IA	on request

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

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

Further parts see page

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

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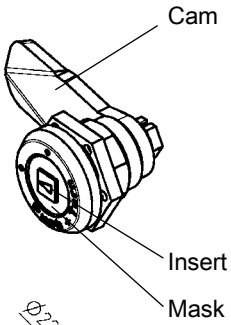
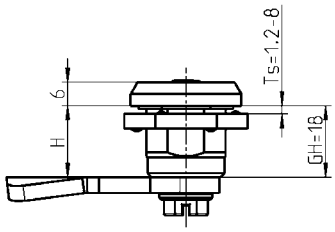
Safety quarter turn with mask

PROGRAM 1000

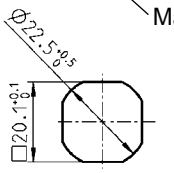




EDELSTAHL Rost frei STAINLESS STEEL

Certificate DIN EN 45545-2 E20

with stainless steel version



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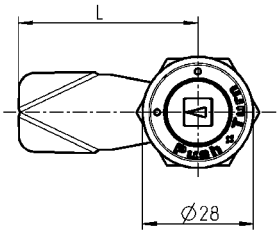

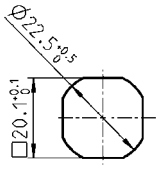

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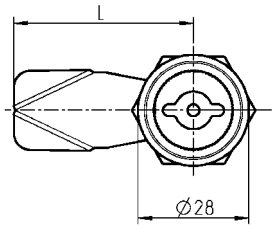

Insert square or triangular

Insert double bit

Press down insert turn quarter turn!

Housing and insert material on choice, mask zinc die raw, screw and earthnut m.s. zinc plated and/or scew and nut stainless steel, with spring and seal		
	zinc die chrome pl.	**AISI 316**
Square female 6mm	on request	on request
Square female 7mm	1000-U818-02IA	on request
Square female 8mm	1000-U818-03IA	on request
Square female 8mm slotted	on request	on request
Triangular 6,5 CNOMO	on request	on request
Triangular 7	1000-U818-04IA	on request
Triangular 8	1000-U818-05IA	on request
Triangular 9	on request	on request
Triangular 10	on request	on request

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

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

Version double bit: Key only removable in locked position

Keyhole for double bit according to key DIN 43668.

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

Further parts see page

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

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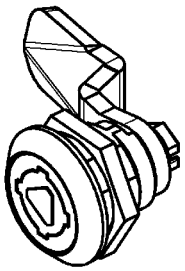
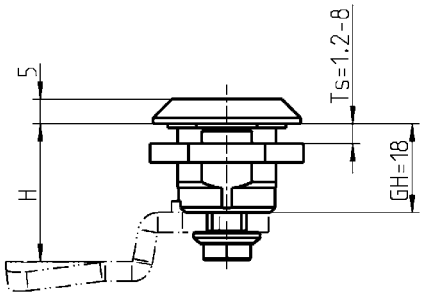
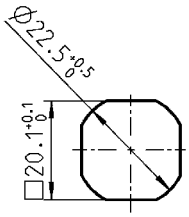
Safety quarter turn
PROGRAM 1000

Press mask back
and
turn insert!







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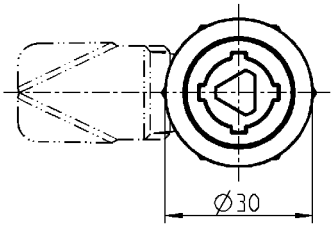

Safety quarter turn:
This lock is of a vibration proof design. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.

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

Further parts see page

– cam with catch		1C-120 1C-160
– Accessories	up to	1C-320 1C-380
– Key		12B-120

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

Triangular 8 mm RH/LH version	1000-U835

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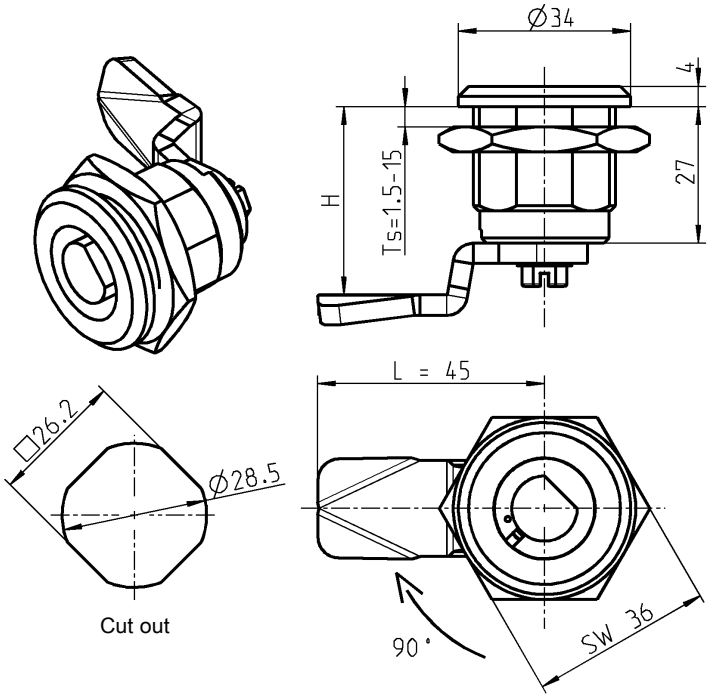
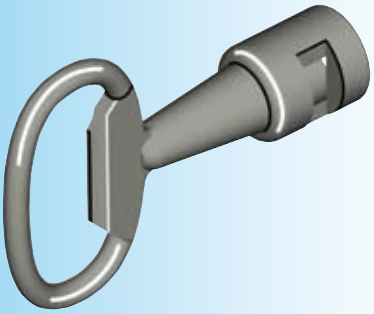
Safety quarter turn Eastern Europe half-round

PROGRAM 1000



Cut out



Attention:
Cut-out differs from standard

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

Housing zinc die or polyamie; insert zinc die zinc plated; nut and Fixing material m.s. zinc plated	
Zinc die black powder coated	1000-U746-01
Polyamide black	1000-U747
Key zinc die, raw	
	1004-45

Cam m.s. zinc plated

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

Application area:
Electric power companies in Eastern Europe

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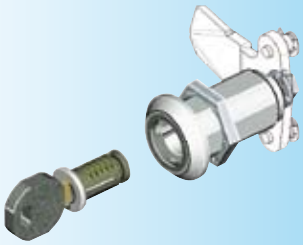
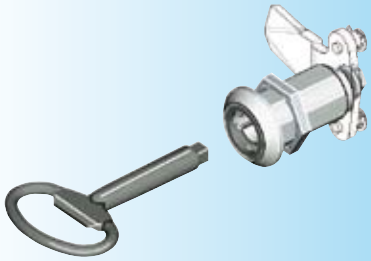
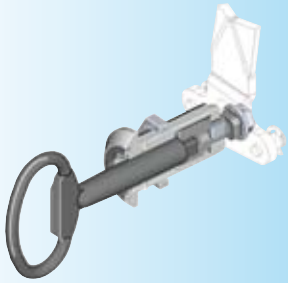
Safety quarter turn

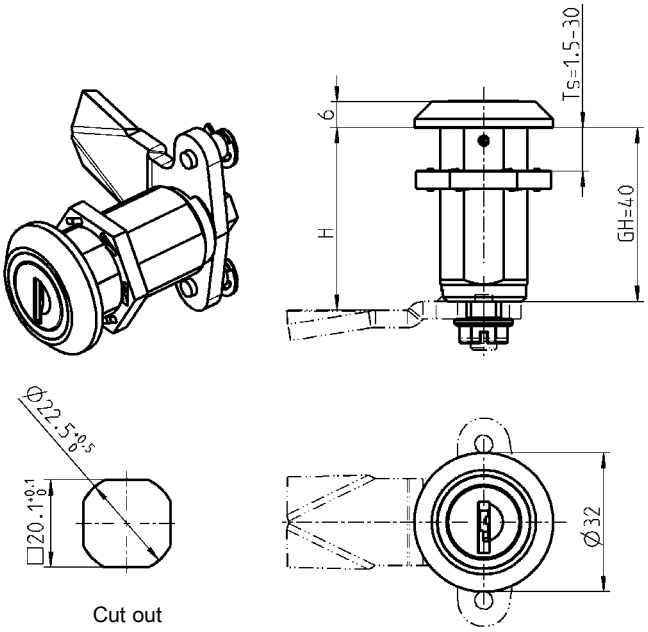
PROGRAM 1000

RL IP 65 IP 66









Cut out

Safety quarter turn:
Removable cylinder, covered square insert, enables higher torque with square key.

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

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

Further parts see page

– cam with catch		1C-120
	up to	1C-180
– Accessories	from	1C-170
– Escutcheon		3B-140
– Spare key		12B-140

Safety quarter turn housing zinc die black powder coated, cylinder with stainless steel cap and shutter, insert square female 6mm zinc die chrome plated, earthnut and fixing material m.s. zinc plated Each cylinder has one silver steel key with polyamide GF grip black.	
keyed EK 333	1048-U22
keyed different	1048-U23
Key square 6 mm male	1004-29-01
IP 65 with:	
Flat seal	1000-23
O-ring	1000-24
IP 66 with:	
Seal-set	1000-U769

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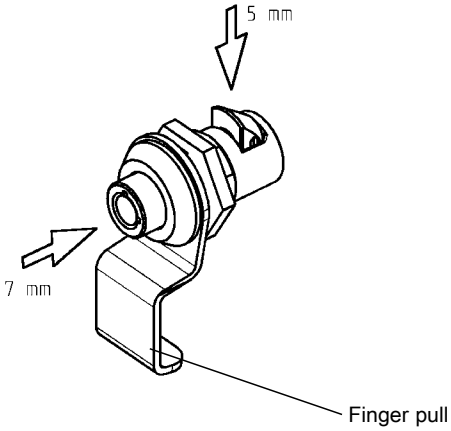
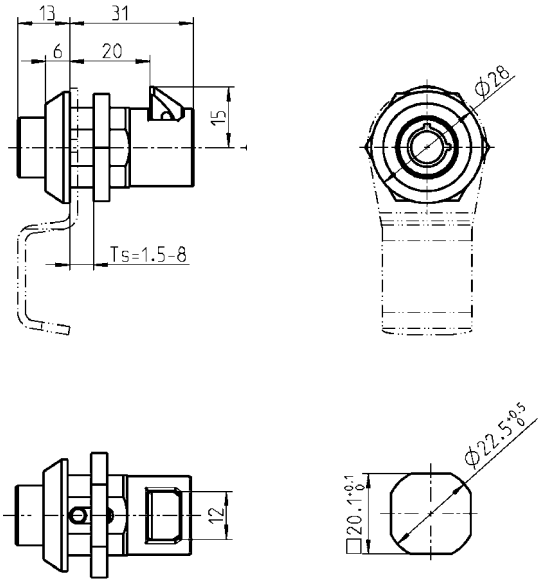
Radial pin-push cylinder

PROGRAM 1000

RL IP 40





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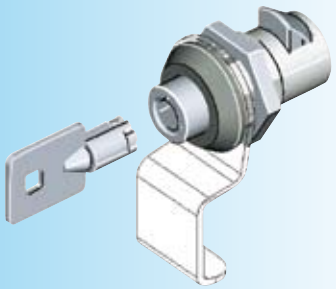

Radial pin-push cylinder:
By turning the key 90° the push button is unlocked and can be operated.
The key is removable in both positions.

Application area:
Computer housings for German Railroad Company

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

Housing zinc die, pin cylinder brass/zinc die nickel plated, locking bolt zinc die plated, nut m.s. zinc plated		
	chrome plated	black powder coated
keyed 20001	1000-U742	1000-U751
keyed different	1000-U743	1000-U752

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

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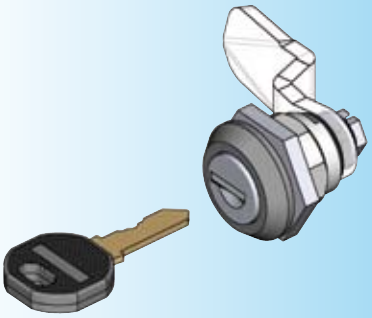
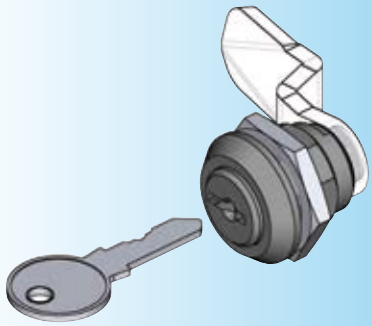
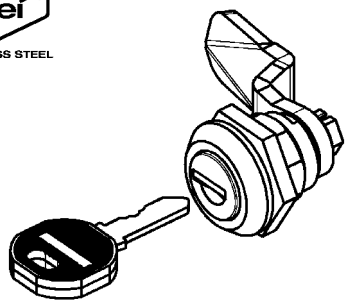
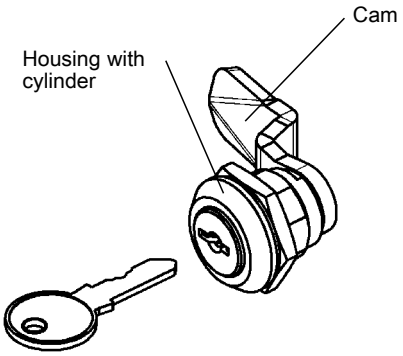
Quarter turn with cylinder

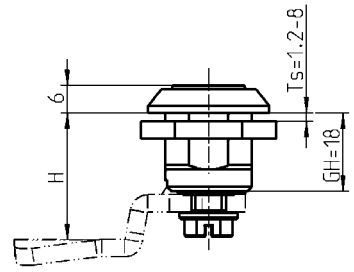
PROGRAM 1000

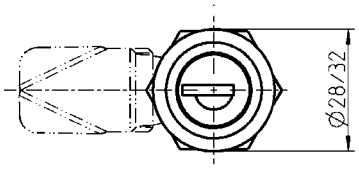


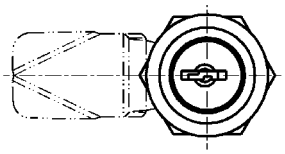


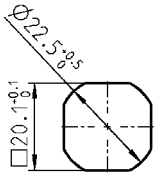












Cut out

Cylinder-turnbuckle housing zinc die-cast zinc surface with your choice of round cylinder die-cast zinc, stainless steel dust cover and slide, screw and nut ms. Each cylinder has one silver steel key with polyamide GF grip black.				
	Nut	Earthnut	Nut	Earthnut
	chrome plated		black powder coated	
D = 28 mm				
keyed EK 333	1048-U6	1048-U8	1048-U14	1048-U16
keyed different	1048-U7	1048-U9	1048-U15	1048-U17
D = 32 mm				
keyed EK 333	1048-U1	1048-U3	1048-U10	1048-U12
keyed different	1048-U2	1048-U4	1048-U11	1048-U13
Quarter turn with cylinder AISI 316, round cylinder, screw and serrated lock washer stainless steel. Each cylinder has one silver steel key with polyamide GF grip black.				
keyed EK 333 ; D = 28 mm			1048-U6-PH	–
keyed different ; D = 28 mm			1048-U7-PH	–
Quarter turn with cylinder, housing with cylinder polyamide GF black. Screw m.s. zinc plated, nut m.s. zinc plated or polyamide black. Each cylinder has one m.s. nickel plated key.				
	Nut	Earthnut	Nut	Earthnut
	Nut m.s.zinc plated		Nut polyamide black	
D = 28 mm				
keyed EK 333	1048-U18	–	1048-U27	–
keyed different	1048-U19	–	1048-U28	–
D = 32 mm				
keyed EK 333	1048-U20	–	1048-U25	–
keyed different	1048-U21	–	1048-U26	–

Key removable in both positions

Further parts see page

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

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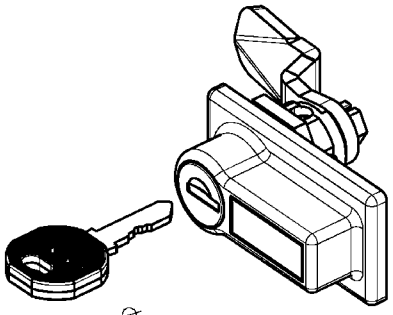
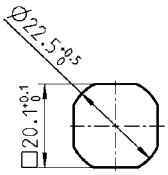
Panel handle quarter turn, T-handle quarter turn, small

PROGRAM 1000

Cylinder locking handle (quarterturn)





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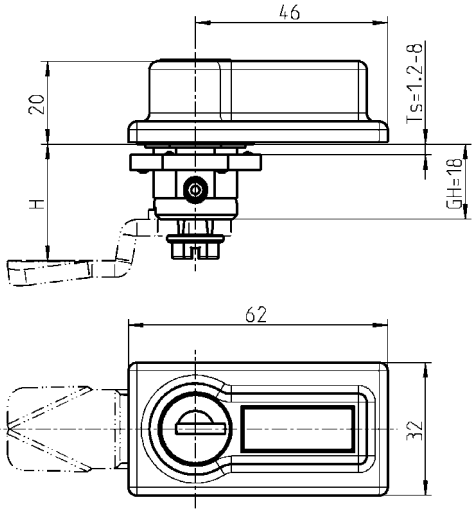
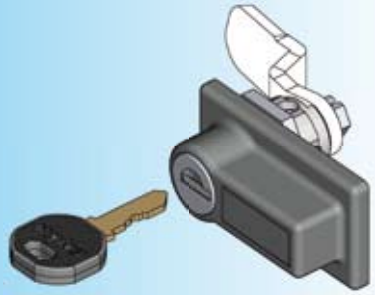
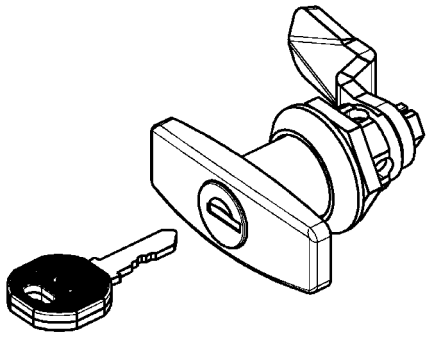


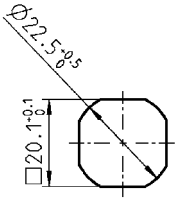


Handle polyamide GF black, housing black powder coated zinc die, round cylinder zinc die with stainless steel cap and shutter, nut, earthnut and fixing material ms zinc die, with seal.
Each cylinder has one silver steel key with polyamid grip.
Key removable in both positions.

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

T-Handle, compact





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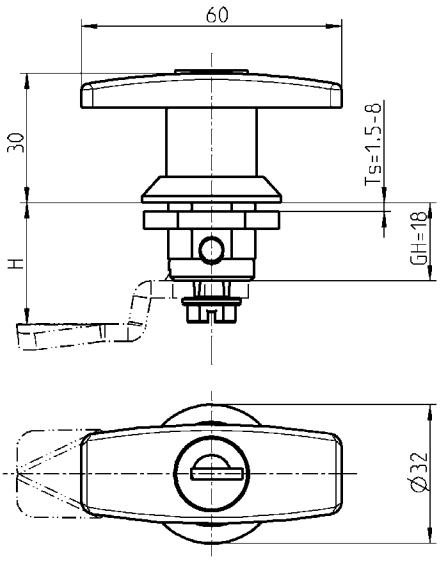

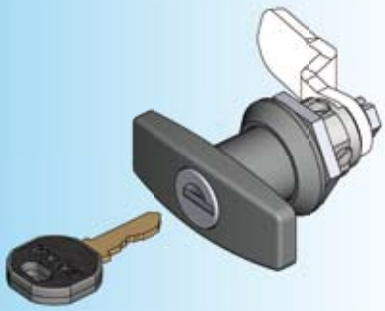

*** IP 65**

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

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

Further parts see page

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

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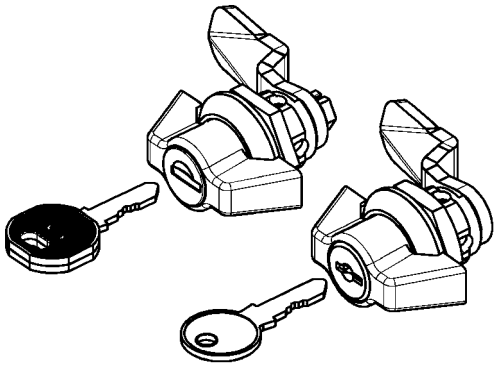
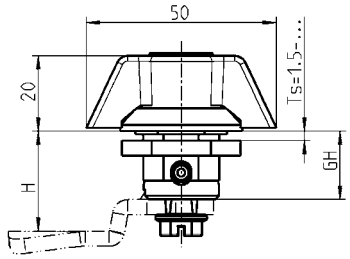
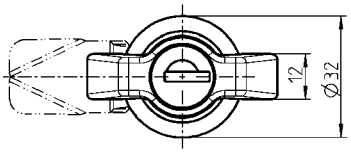
Wing knob

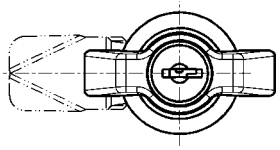
PROGRAM 1000

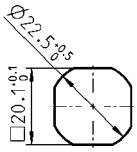
EDELSTAHL Rostfrei STAINLESS STEEL











Cut out

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

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

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

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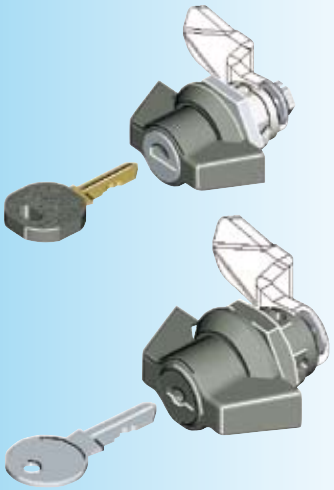
Wing knob IP 65		Handle and housing zinc die black powder coated, earthnut and screw m.s. zinc plated, with seal cylinder zinc die,with stainless steel cap and shutter		
GH 18 mm	Ts 1,5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U241	1000-U237	1000-U239
with earthnut		1000-U242	1000-U238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



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

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

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

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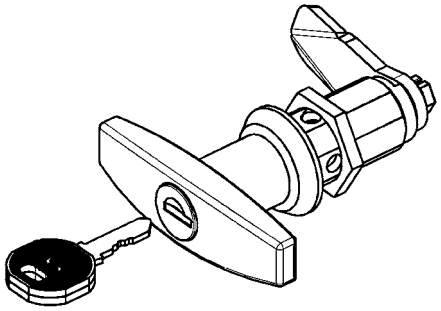
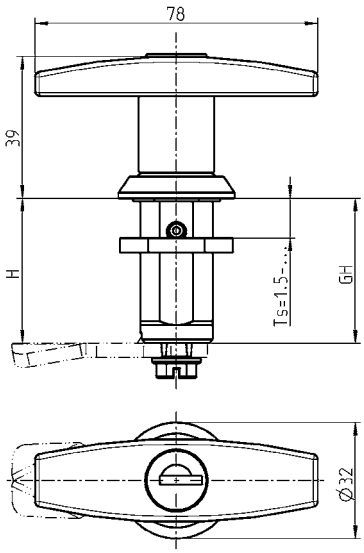
T-Handle

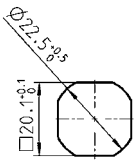
PROGRAM 1000

EDELSTAHL Rostfrei STAINLESS STEEL





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



Cut out

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

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

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

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

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

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

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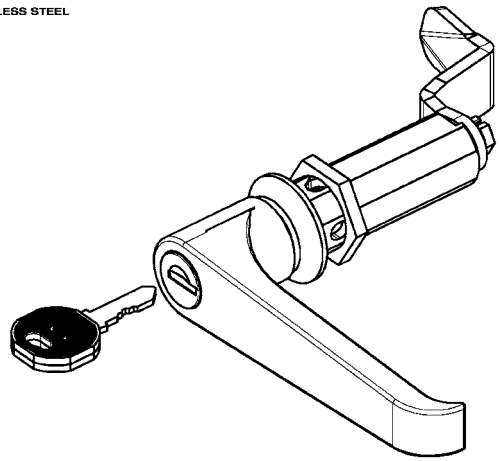
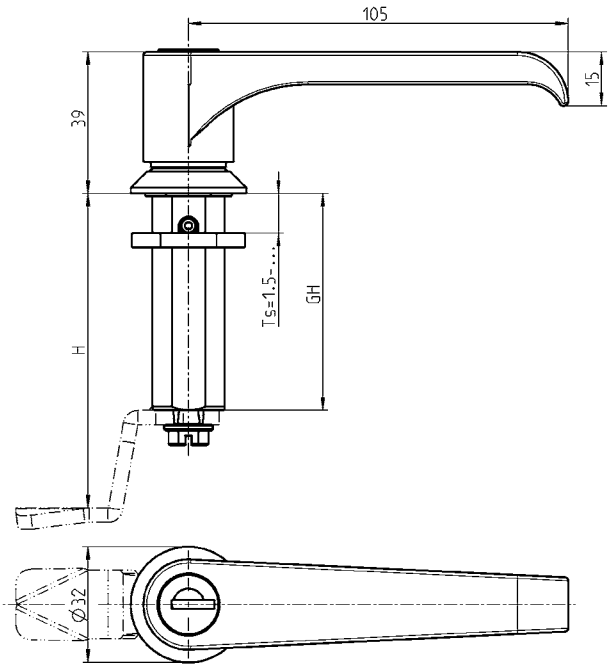
L-Handle

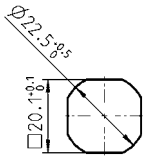
PROGRAM 1000

EDELSTAHL Rostfrei STAINLESS STEEL





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



Cut out

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

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

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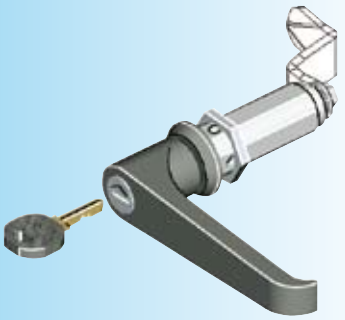
L-Handle IP 65		Handle, housing zinc die black powder coated, nut, earthnut and scew m.s. zinc plated, with seal, cylinder zinc die with stainless steal cap and shutter.		
GH 18 mm	Ts 1,5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U353	1000-U390	1000-U391
with earthnut		1000-U392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

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

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



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

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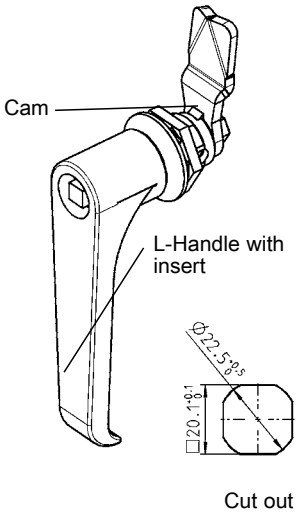
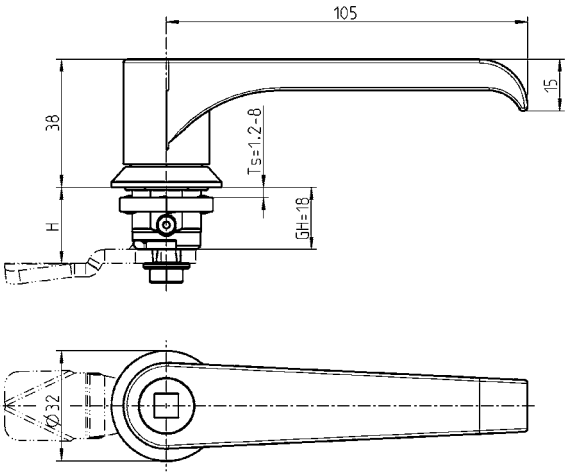
L-Handle

PROGRAM 1000

RL IP 65





IP 65 on request!

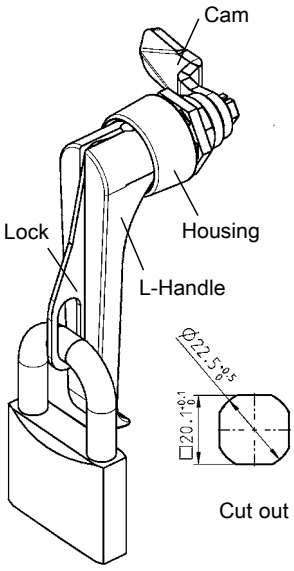
Insert is spring loaded (2 hand operation)

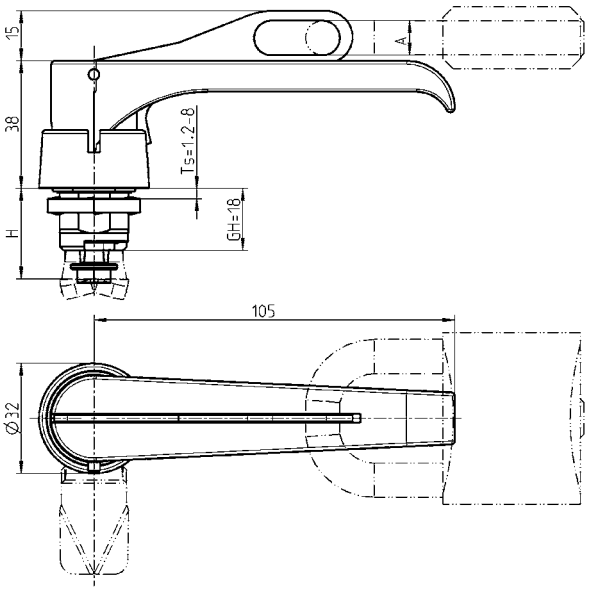
L-Handle with housing and insert zinc die, screw and earthnut m.s. zinc plated, with seal

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

IP 65

Attention:
L-Handle is locked when a padlock is fitted.





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

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

Further parts see page

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

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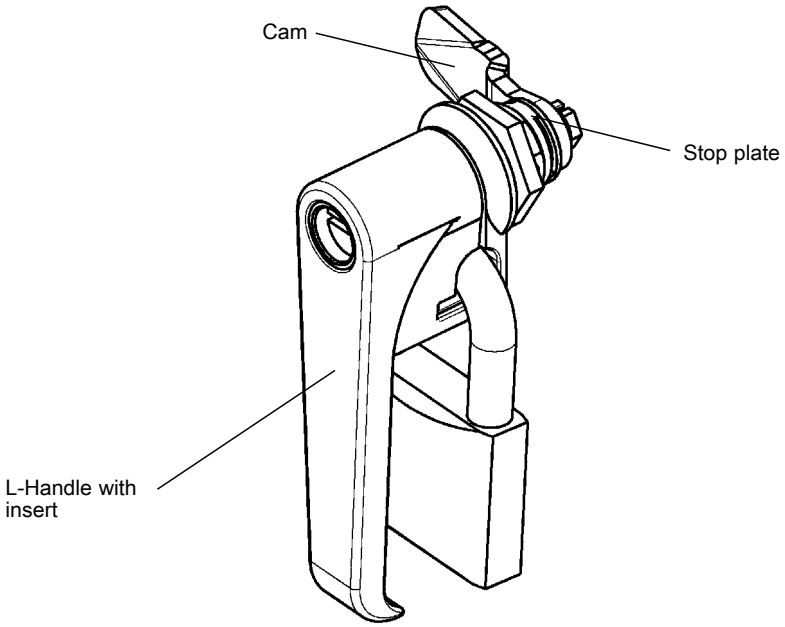
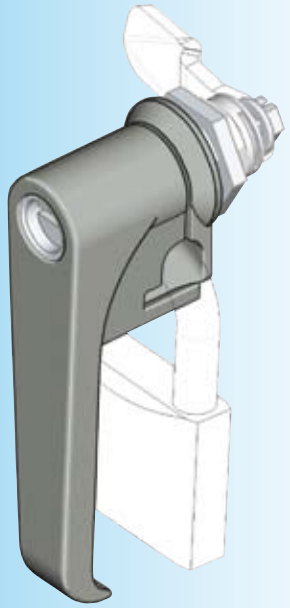
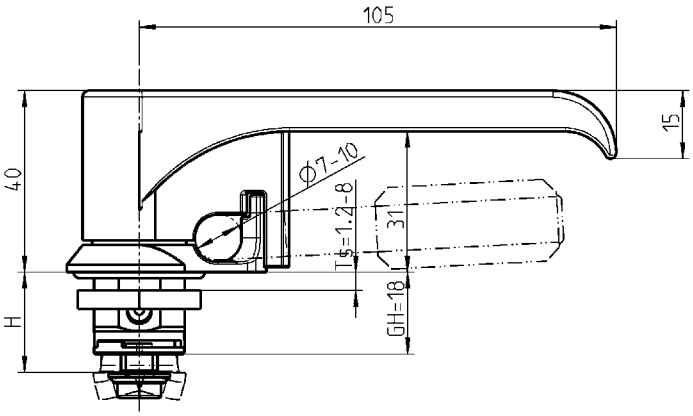
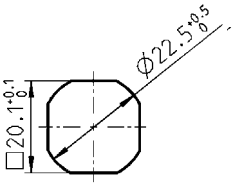
L-Handle for padlock

PROGRAM 1000

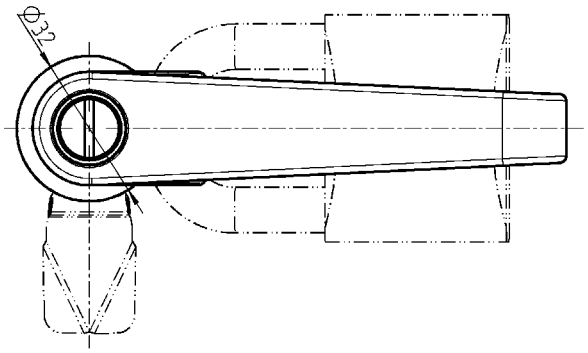








Cut out



Insert is spring loaded (2 hand operation)

Attention:
L-Handle is locked when a padlock is fitted.

Further parts see page

– Cam without catch	1C-120
– Accessories	1C-360
	1C-380

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

L-Handle with housing zinc die bl. p.c., stop plate zinc die for version RH and LH, screw and nut m.s. zinc plated, with seal	
with insert 2x4 coinproof zinc die chrome plated	1000-U770
without insert	1000-U771

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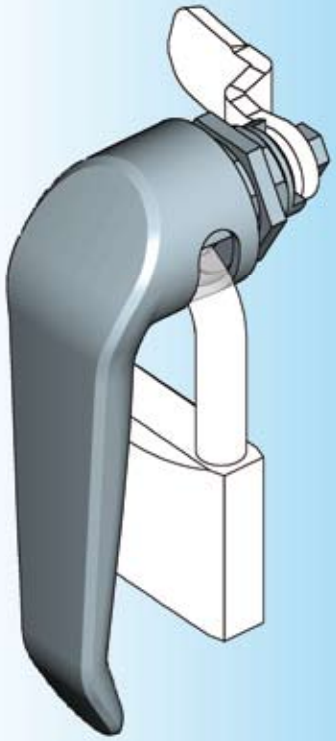
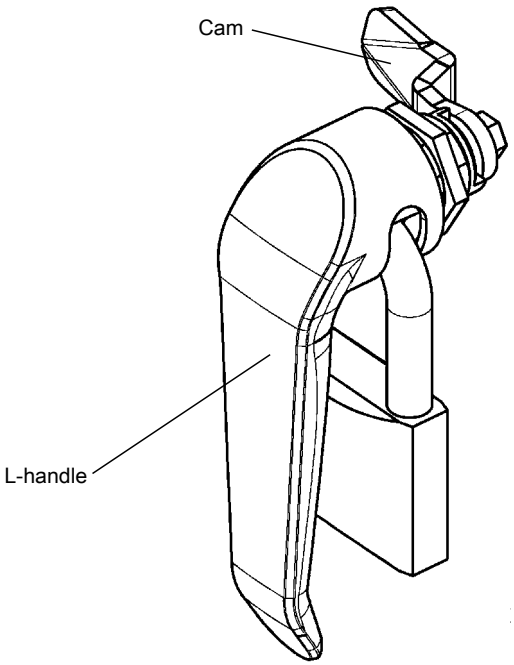
L-handle quarter turn for padlock

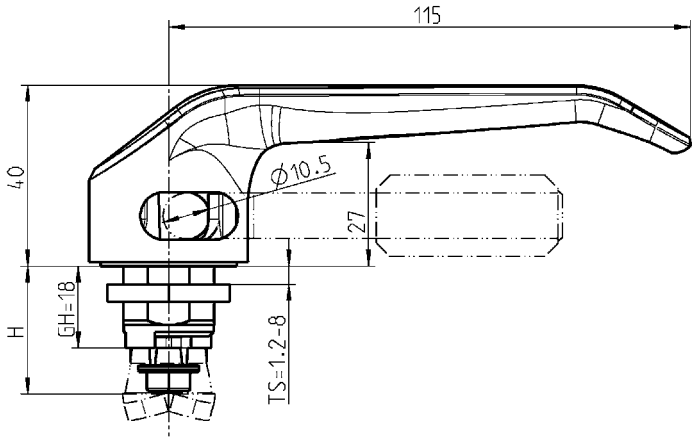
PROGRAM 1000

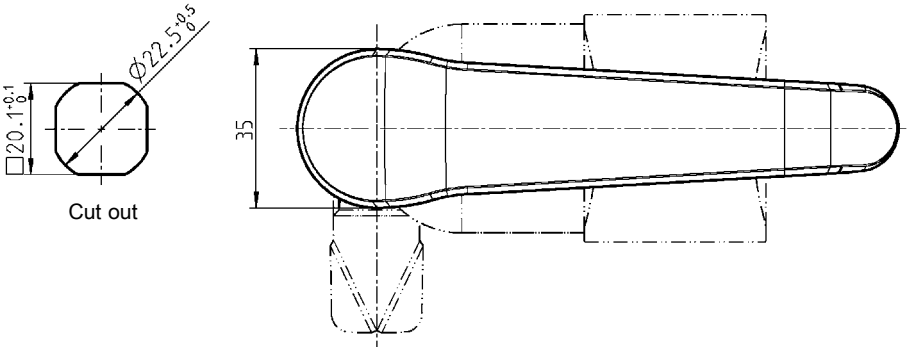
RL IP 65 INOX AISI 3..

EDELSTAHL Rostfrei STAINLESS STEEL









Cut out

Attention:
L-handle is locked when a padlock is fitted.

Further parts see page
– cam with pip 1C-120

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

1000-U860

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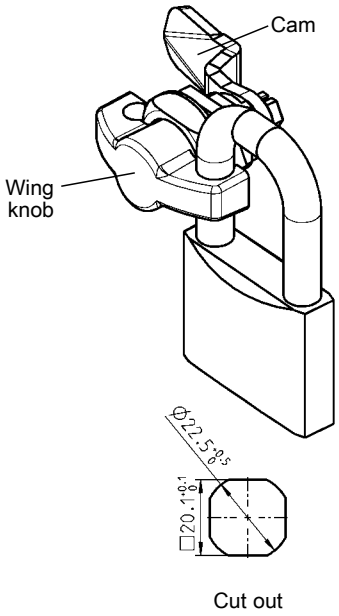
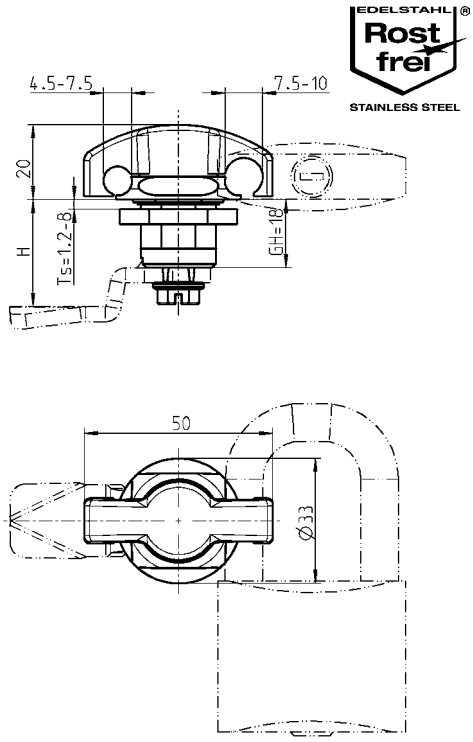
Quarter turn for padlock

PROGRAM 1000



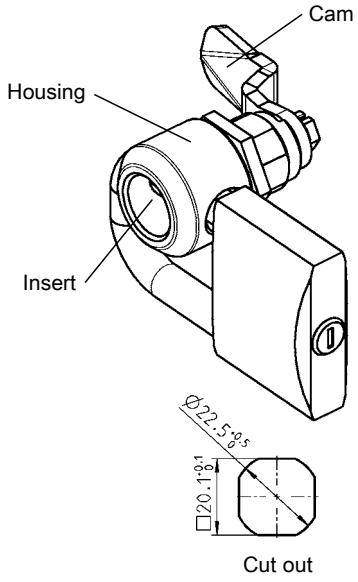


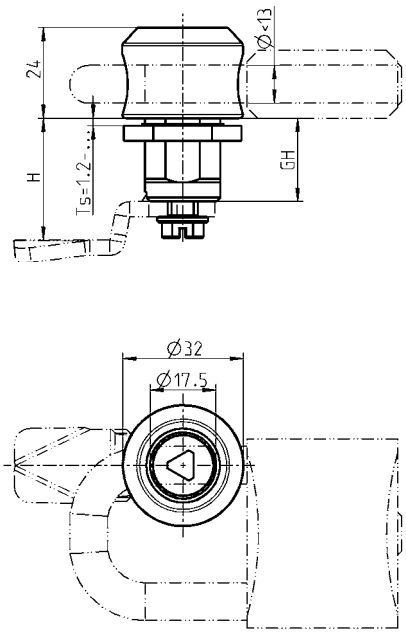
Wing knob and housing zinc die black powder coated, nut and screw m.s. zinc plated, with seal

	1000-U429-01

Wing knob quarter turn AISI 316, with seal

	1000-U429-01PH





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

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

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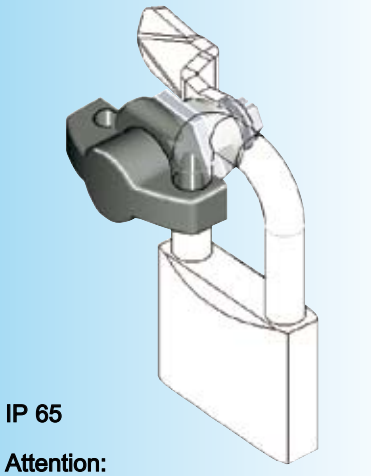
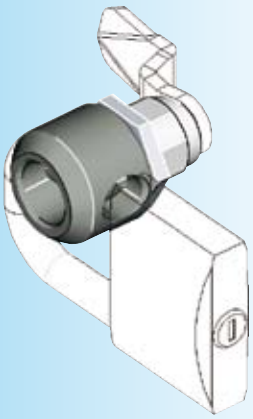


IP 65

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

For shackle Ø 4.5 to 10

Further parts see page
– cam with catch 1C-120
up to 1C-180
– Accessories from 1C-340



For shackle ≤ Ø 13

Note:
Quarter turn assembly 1B-105

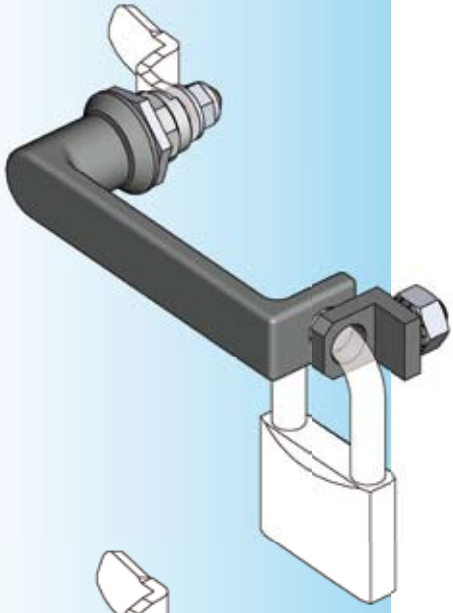
Further parts see page
– Insert 1B-140
– IP 65 or IP 66 1B-140
– cam with catch 1C-120
– Accessories from 1C-340
– Escutcheon 3B-140
– Key 12B-120

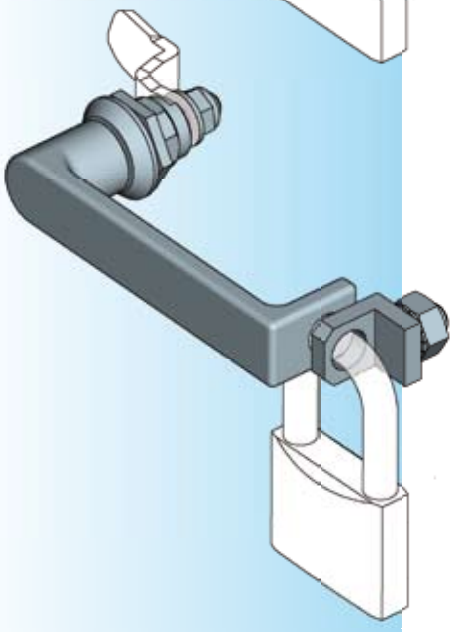
EMKA®

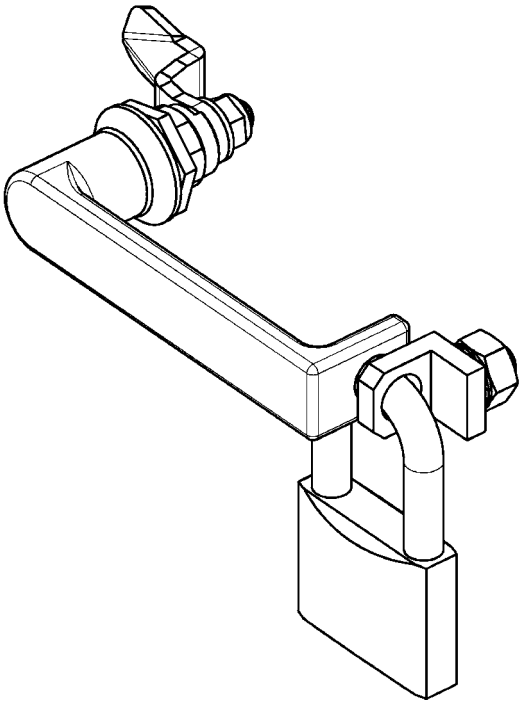
Beschlagteile

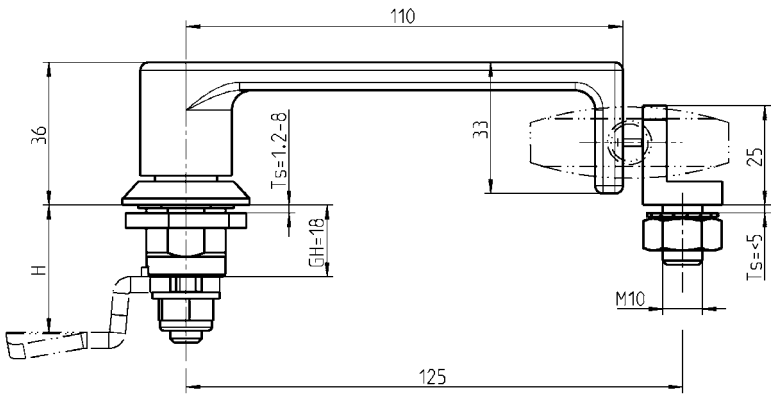
L-handle quarter turn for padlock

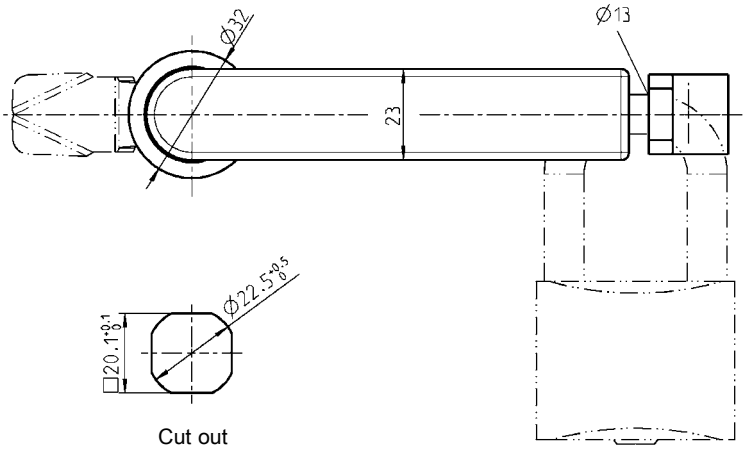
PROGRAM 1000











Cut out

Handle, housing and angle steel as requested; nut and washers m.s. zinc plated or stainless steel with seal	
cast steel black powder coated	1000-U857
AISI 316	1000-U842

Further parts see page
– cam with catch 1C-120

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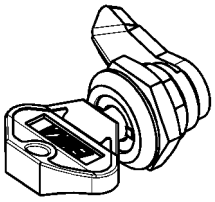
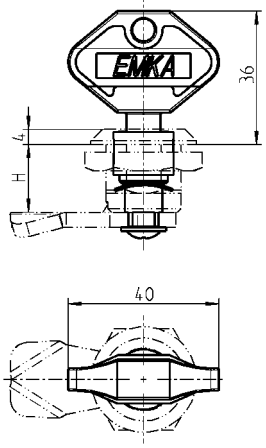
Clip-in key, wing knob for insert

PROGRAM 1000

Clip-in key
Key can be used as handle



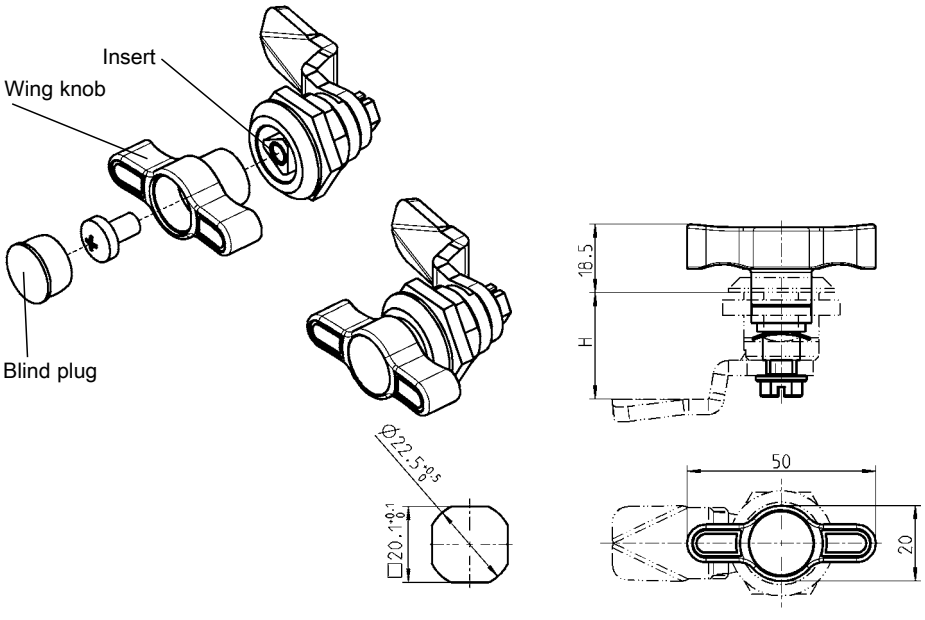


Cut out

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

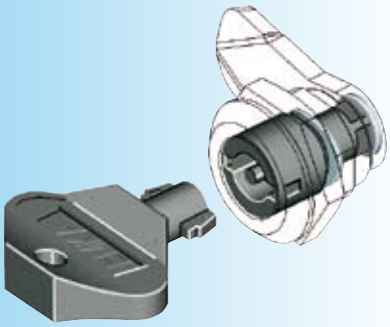
Insert Polyamide black; spring washer and self-cutting screw m.s. zinc plated			
Double bit 3	1000-U745	Double bit 5	1000-U744
Key polyamide black			
Key nat.rail. 3	1004-34-01	Key nat.rail. 5	1004-33-01

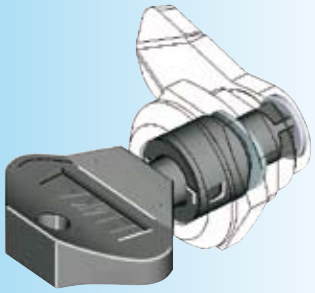
Wing knob for insert



Cut out

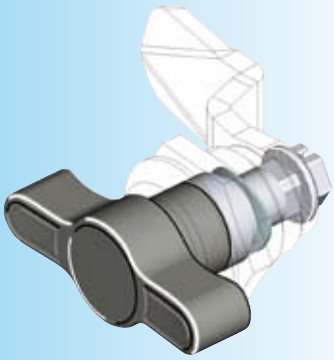
Wing knob polyamide GF black; blind plug PE black; Fixing material m.s. zinc plated			
for square 8	1000-U764	for triangular 10	1000-U762
Insert with M6 female thread zinc die zinc plated			
Square 8	1000-U765	Triangular 10	1000-U763





Key can be used as handle

Further parts see page
– Housing and cam 1B-160



Note:
Quarter turn assembly 1B-105

Further parts see page
– Housing 1B-140
1B-160
– cam with catch 1C-120
up to 1C-180
– Accessories from 1C-340

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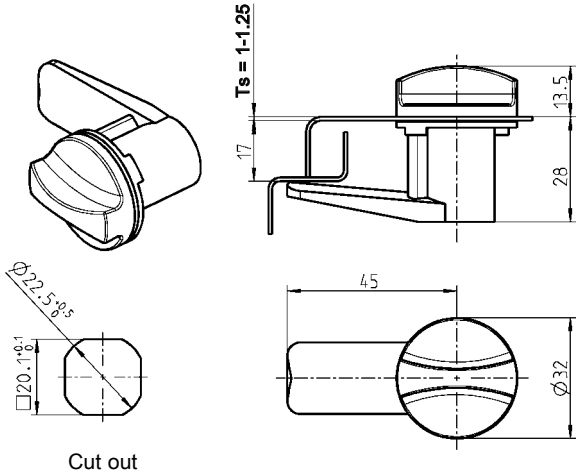
Clip in quarter turn, housing for quarter turns

PROGRAM 1000

Clip in quarter turn



Cut out

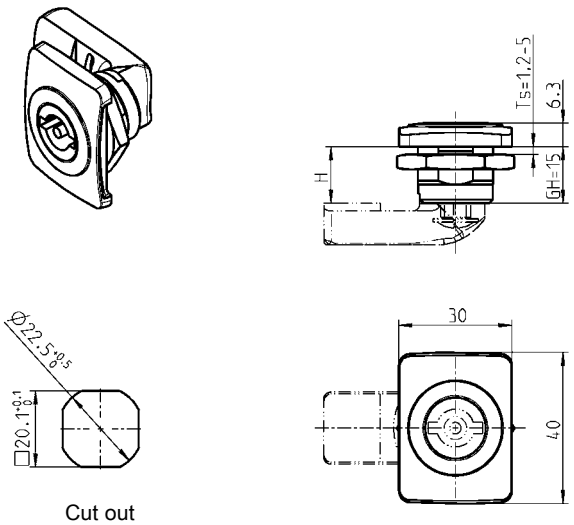
IP 40

Advantage:
Easy to install

Easy to assemble by using plug in plastic parts

Clip in quarter turn polyamide GF, RH/LH version	
black	1000-U349
grey RAL 7032	1000-U350

Housing for quarter turn



Cut out

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

Note:
Quarter turn assembling 1B-105

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

Housing polyamide GF black, nut m.s. zinc plated	
RH version	1000-U740
LH version	1000-U740-01
IP 65 with:	
Flat seal	1000-23
O-ring	1000-24
IP 66 with:	
Sealing device	1000-U769

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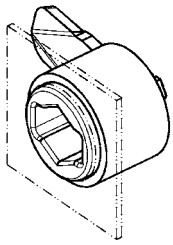
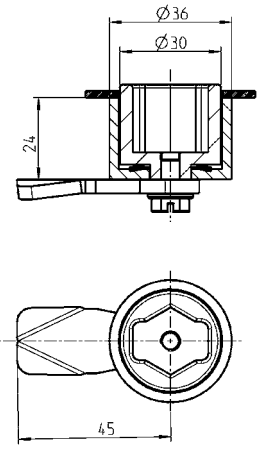
Quarter turn screw-on or weld-on

PROGRAM 1000

Special lock for fire brigade use according to DIN 14925-SCH

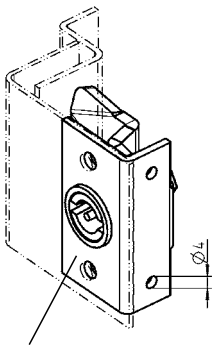




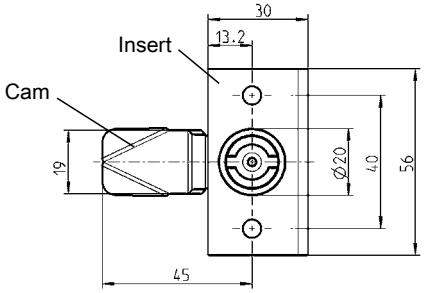
Quarter turn for equipment and appliances used by fire brigades. The lever cutting edge of special fire brigade hatchet according to DIN 14924 and the special fire hydrant keys A or B to DIN 3223 can be used to open the lock.

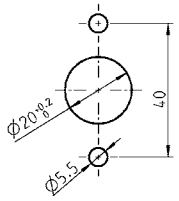
Housing, cam and screw m.s. zinc plated, insert zinc die chrome plated	
	1000-U143B

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

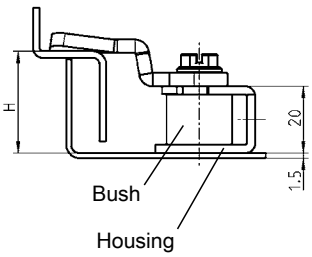


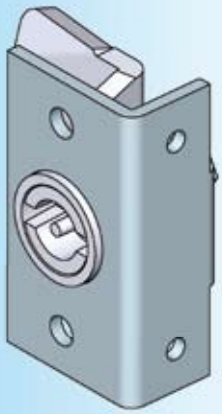
On request bush flush with housing





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





Housing m.s. raw with bush zinc die zinc pl.	
RH version as drawn	1057-U1
LH version	1057-U2
Housing on request also zinc plated	

Further parts see page
– Insert 1B-140
– Key 12B-120

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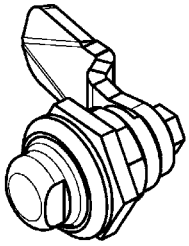
Notes:

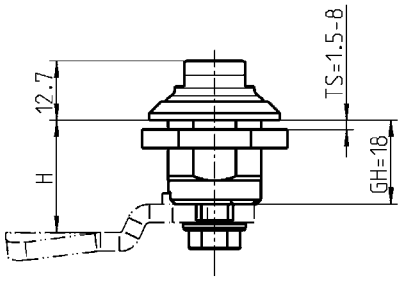
Quarter turn stainless steel for hygienic areas

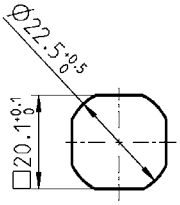
PROGRAM 1000

EDELSTAHL Rostfrei STAINLESS STEEL

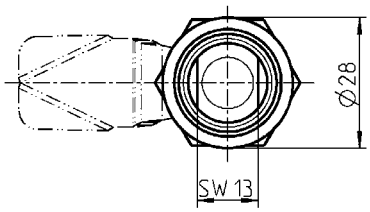
RL IP 69K DIN EN 1672-2 DIN EN ISO 14159 INOX AISI 3..







Cut out



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

Quarter turn AISI 316 Ti, with seal	
	1000-U838
Key zinc die	
	1004-53

Further parts see page
– cam with catch 1C-120

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®Stainless steel compression latch for hygienic areas

PROGRAM 1000

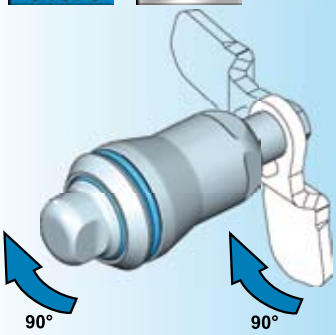
RL | IP 65 | 6 | DIN EN 1672-2 | DIN EN ISO 14159 | DIN EN 61373 | INOX AISI 3..

EDELSTAHL® Rostfrei STAINLESS STEEL

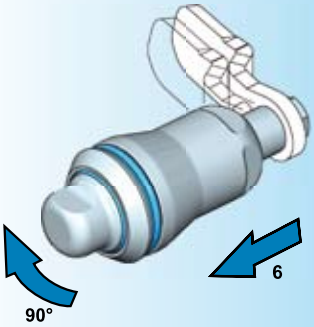
The quarter turn for hygienic areas
meets hygiene standard acc. to DIN EN 1672- and DIN EN 14159

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

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



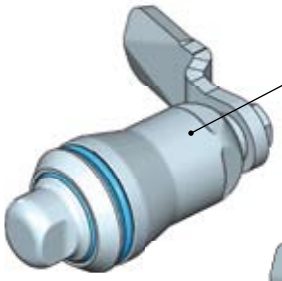
Open condition
By turning the insert by 90°, the cam is turn.



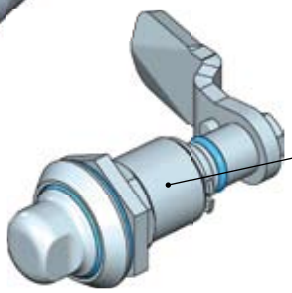
Closed condition
By turning the insert another 90,the cam is axially drawn by 6 mm towards the door .

Compressed condition

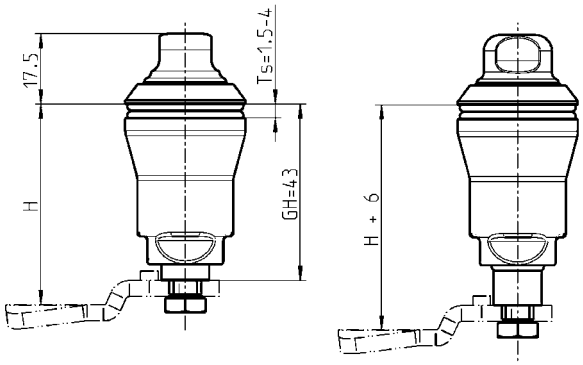
Open:
Reversed rotation

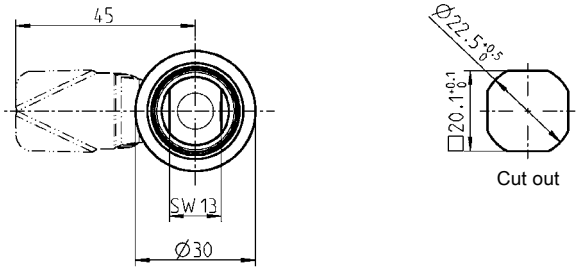


1000-U861
Version for hygienic Areas for outside and inside the cabinet



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





Compression latch for hygienic Areas AISI 316; with spring and seal	
Version for hygienic areas for inside and outside of cabinet	1000-U861
Version for hygienic areas for outside the cabinet, not for inside	1000-U862
Key zinc die raw	
	1004-53

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

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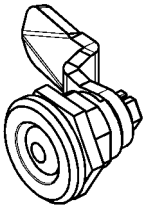
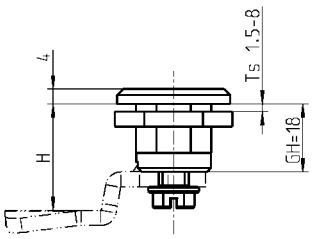
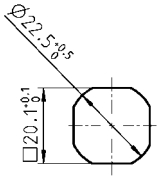
Quarter turns

PROGRAM 1000

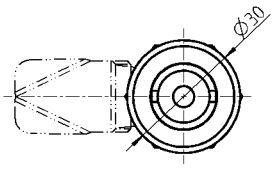
Quarter turn for Swedish power companies
EBR-standard







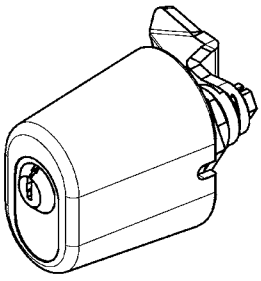
Cut out

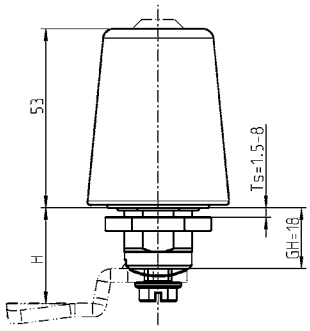


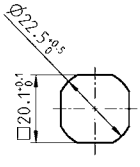
Housing with insert zinc die chrome plated, screws and nut m.s. zinc plated	
	1000-U768
IP 65 achieved through:	
Flat seal	1000-23
O-ring	1000-24
IP 66 is achieved by:	
Seal set	1000-U769
Assembly on request:	
without O-ring	1000-990
with O-ring	1000-991

Further parts see page
– cam with catch 1C-120 up to 1C-180
– Accessories from 1C-170

Wing knob quarter turn for ASSA-cylinder







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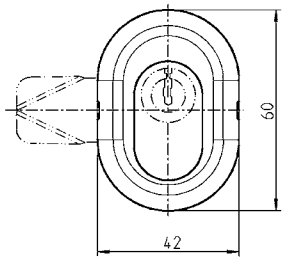

ASSA cylinder supplied by customer!

Handle Polyamide black, housing zinc die zinc plated, screws and nut m.s. zinc plated, with seal	
	1000-U653

Further parts see page
– cam with catch 1C-120 up to 1C-180

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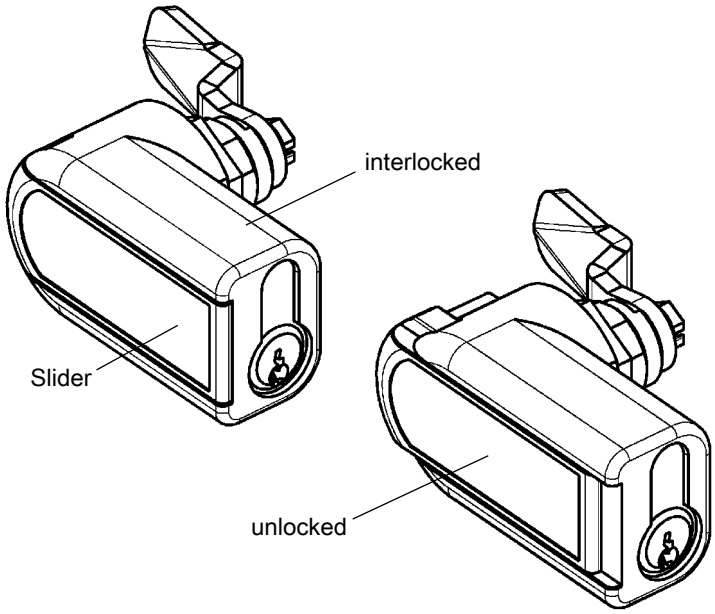
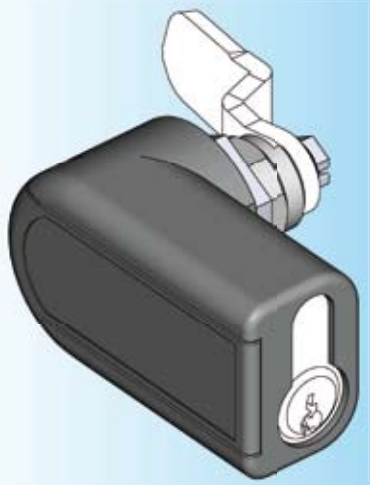
Quarter turn for profile half cylinder

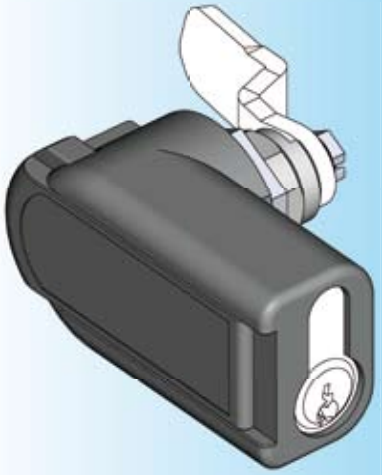
PROGRAM 1000

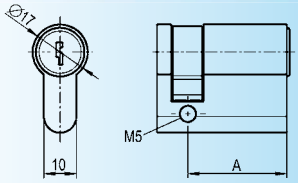
RL IP 65 DIN EN 61373

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







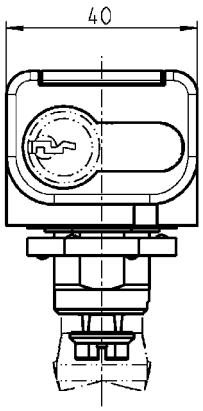


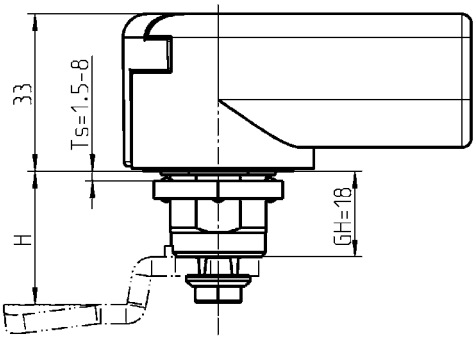
Profile half cyl. acc. to DIN 18252 (EN 1303)

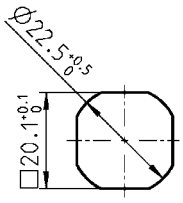
The locking cam has to be between 3 and 5 o'clock locking position.

Locking with EMKA profile half cylinder
Locking possible without key.

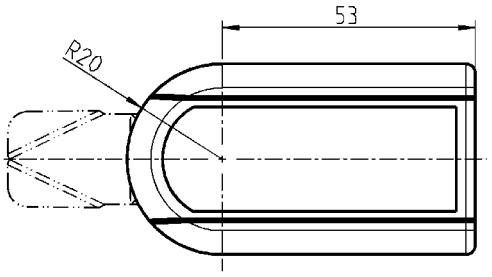
Locking process with profile half cyl. acc. to DIN 18253
Locking only possible with key.







Cut out



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

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

1000-U837

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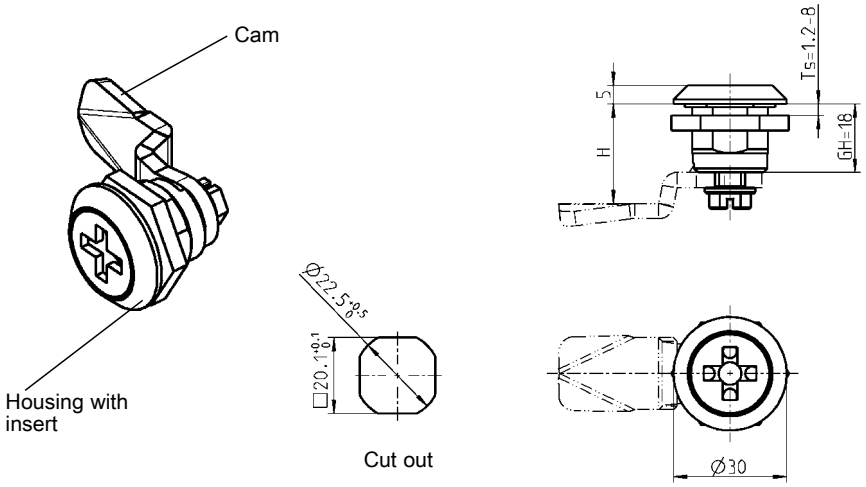
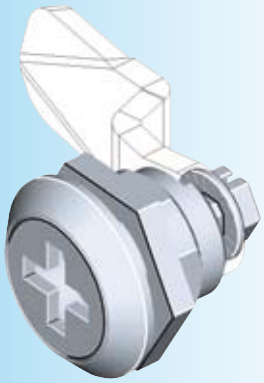
FIAT and nat. railway quarter turns

PROGRAM 1000

Fiat

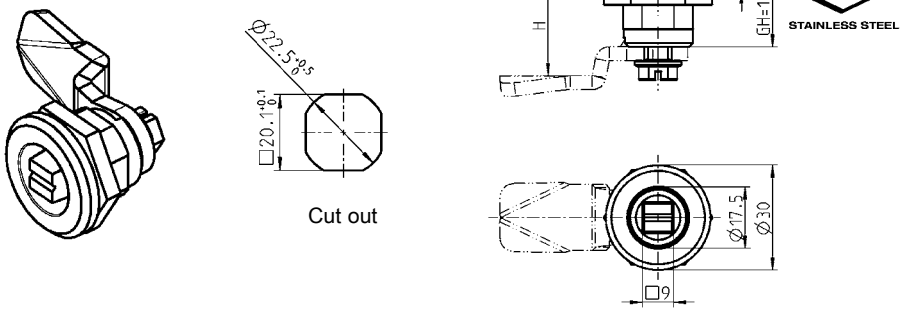


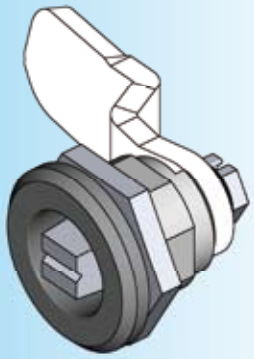


Housing* with insert zinc die chrome plated, screw, nut and earth nut m.s. zinc plated, with seal		
	Nut	**Earth nut**
	1000-U426	1000-U427

*** = IP 65**

Nat. railway





Housing zinc die surface as requested, screw, nut and earth nut m.s. zinc plated, insert as requested		
Insert m.s. zinc plated	**Nut**	**Earth nut**
Housing chrome plated	1000-U431	1000-U499
Housing black powder coated	1000-U432	1000-U500
Insert zinc die chrome plated	**Nut**	**Earth nut**
Housing Chrome plated	1000-U431-01	–
Housing with insert, screw and nut AISI 304		
	1000-U431-PF	–
IP 65 is achieved by		
Flat seal		1000-23
O-ring		1000-24
IP 66 is achieved by:		
Seal-set		1000-U769
Assembly on request:		
without O-ring		1000-990
with O-ring		1000-991

Note:
Quarter turn assembly 1B-105

Further parts see page
– cam with catch 1C-120 up to 1C-180
– Accessories from 1C-170
– Escutcheon 3B-140
– Key 12B-120

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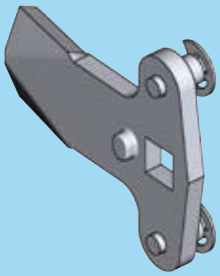
Quarter turn accessories standard version

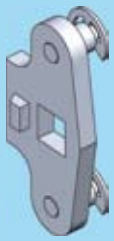
1

1

1

2

3 

4 

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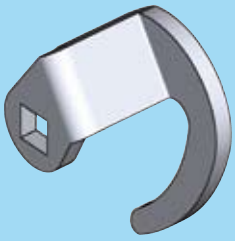
6 

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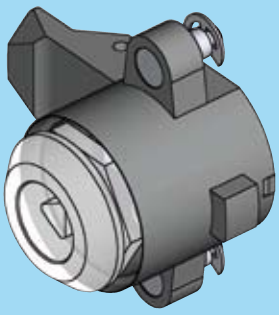
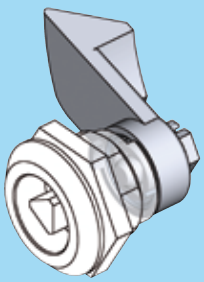
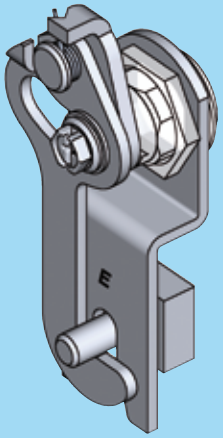
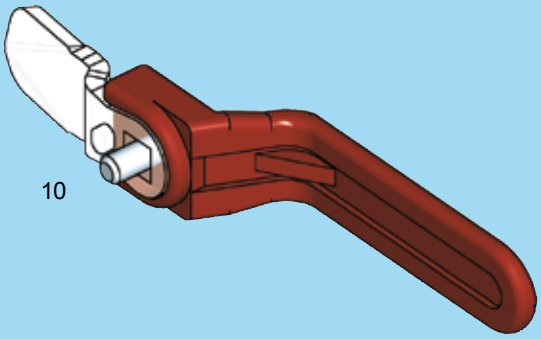
7 

8 

9 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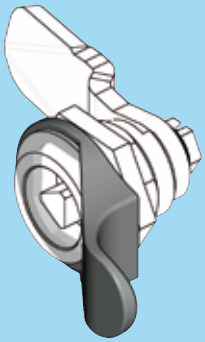
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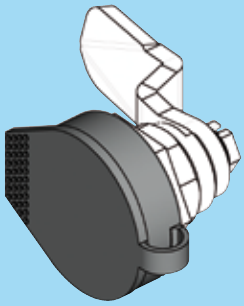
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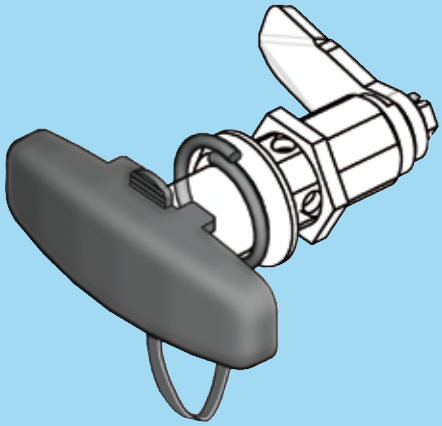
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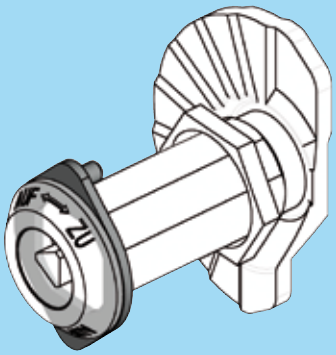
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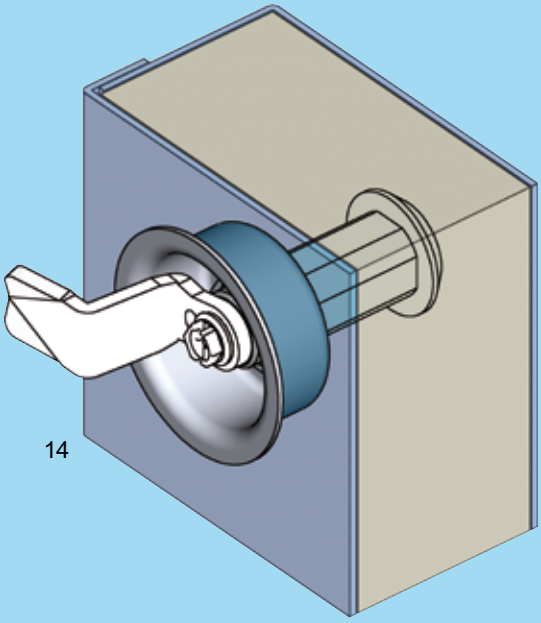
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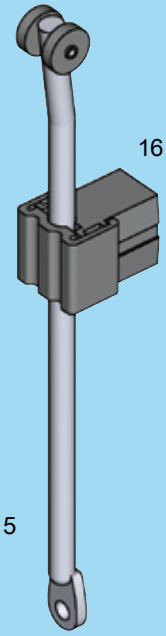

16

15

1	Cam with and without pip	1C-120, 1C-137
2	Rod control for steel and stainless	1C-120
3	Cam with rod control	1C-120
4	Rod control	1C-120
5	Run-up ramp	1C-170
6	Hooked cam	1C-160
7	Plastic cam with rod control	1C-160
8	Slam cam	1C-180
9	Hooked lever assembly	1C-180
10	Internal handle for cams	1C-170
11	Finger pull	1C-320
12	Dust cap	1C-320, 1C-340
13	Rotation prevention	1C-360
14	Dish for quarter turn	1C-380
15	Rods	1C-620
16	Rod guide	1C-630, 1C-640

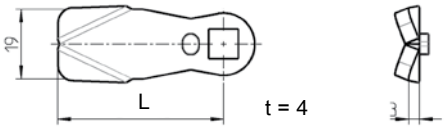
Cam with pip
Cam without pip

PROGRAM 1000

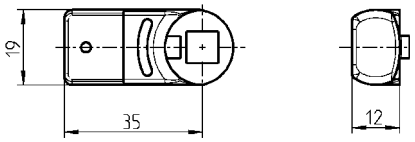
cam with pip

Cam without pip

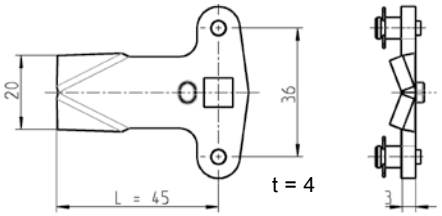
Version 1
Cam



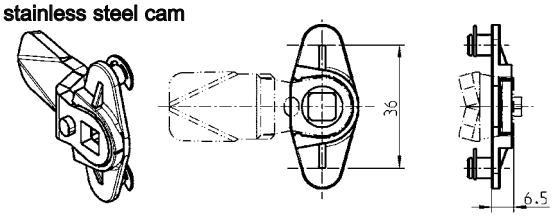
Version 2
Cam



***Version 3**
Cam with rod control

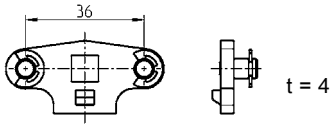


***Version 4**
Rod control for steel cam or stainless steel cam

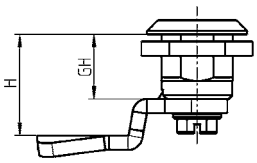


Rod control zinc die, zinc plated circlip m.s. zinc plated	
	1000-U776
Rod control AISI 316, circlip stainless steel	
	1000-U776-PH

***Version 5**
Rod control



2-point rod control m.s. zinc plated	
	1000-U167



minus offset

straight version

plus offset

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

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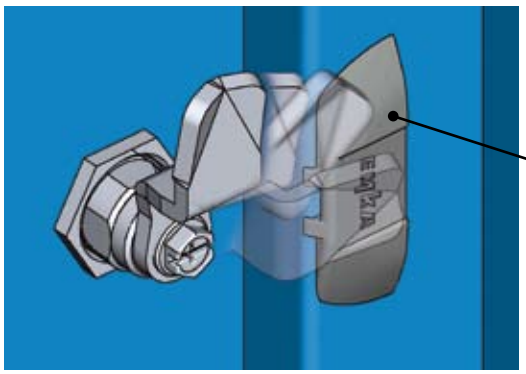
* When using cams for rod operation you must be aware that the rods travel in an axial direction.

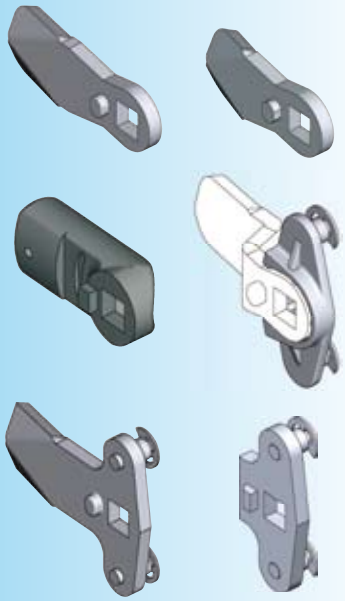


The leading ramp increases the compression by 4 mm.
see catalogue page 1C-170

EDELSTAHL Rostfrei STAINLESS STEEL

RL

INOX AISI 3..



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

Please order from the following part Nos.:
for cam without pip m.s. zinc plated . . . . . = 1000-15-**Z**
for cam without pip in AISI 304 . . . . . = 1000-179-**Z**
for cam without pip in AISI 316 . . . . . = 1000-179-**ZPD**

Attention: Cam with rod control without pip on request

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

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

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

Further parts see page

– Leading ramp 1C-170
– Rod 1C-620
– Quarter turn 1B-120, 1B-140, 1B-220, 1B-230, 1B-320, up to 1B-335, 1B-360, up to 1B-760, 1B-835, up to 1B-860
– Inside handle 1C-170
– Swinghandle 1152 with compression 3C-540
– Swinghandle 3N-120
– Heavy duty latch 10A-620, 10A-640

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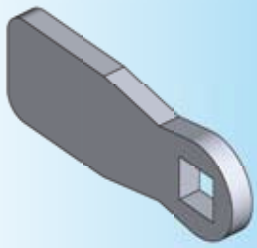
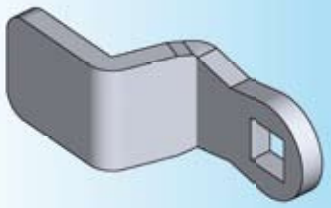
Beschlagteile

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

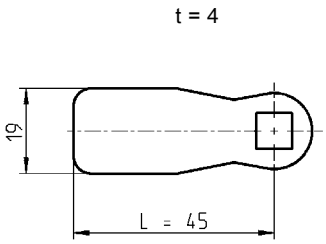
PROGRAM 1000

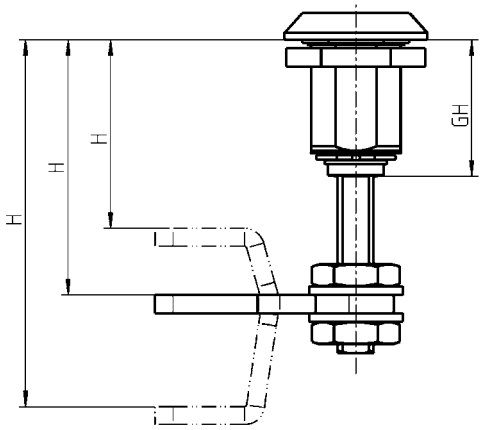


straight cam



cranked cam





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

Note:
Insert of cranked cam optionally positive or negative

Further parts see page
– Compression latch with insert 1B-222
– Compression latch with handle 1B-232
– Recess T-Handle with compression function 12A-135

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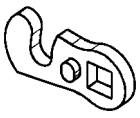
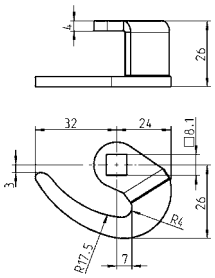
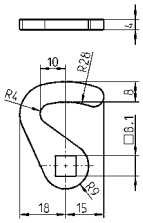
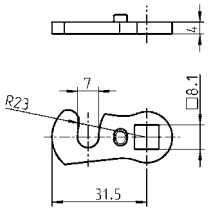
Cam

PROGRAM 1000

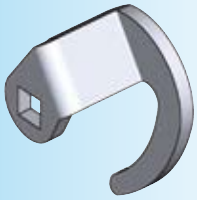


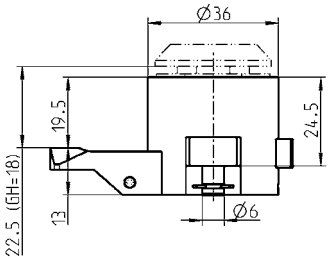


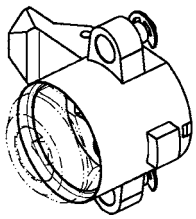


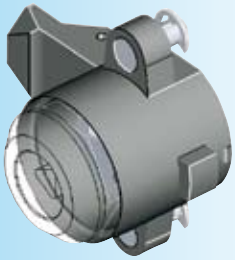


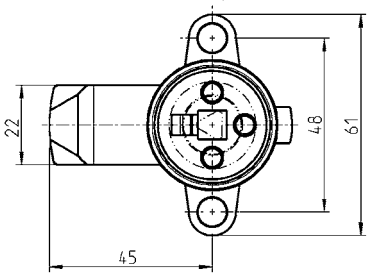
Hooked cam for desk lid, LH version	Hooked cam, RH and LH version	Hooked cam, LH version
m.s. zinc plated..... 1000-91	m.s. zinc plated.... 1000-93	m.s. zinc plated... 1000-61











Note:
The plastic cam is made for GH = 18!

By using the plastic cam with captive cover of fixing screws protective insulation will be reached for the installation of metal quarter turns (program 1000)

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

Further parts see page

– Rod		1C-620
– Quarter turns		1B-120
		1B-140
		1B-320
	up to	1B-335
		1B-360
	up to	1B-760
		1B-830
	up to	1B-860
– Swinghandle		3N-120
– Heavy duty latch		10A-620
		10A-640

Plastic cam polyamide black with reinforced cover plate m.s. zinc plated, studs m.s. zinc plated	
with single point cam	1107-U3
with 3-point cam	1107-U4

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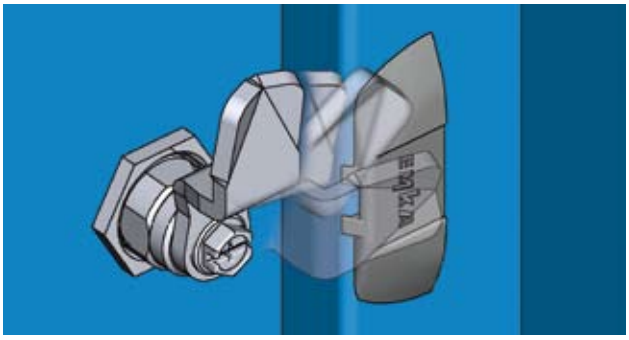
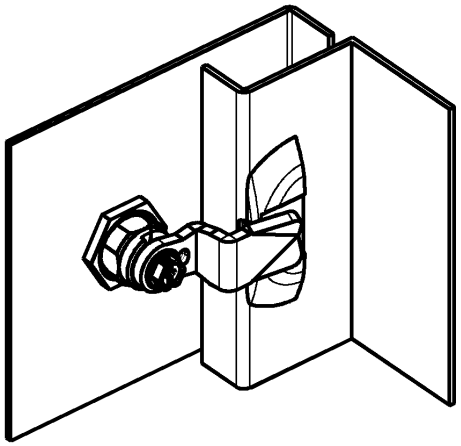
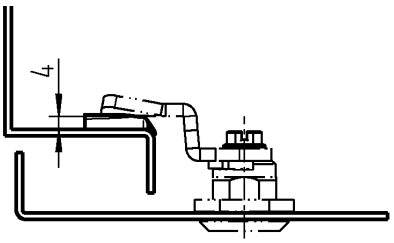
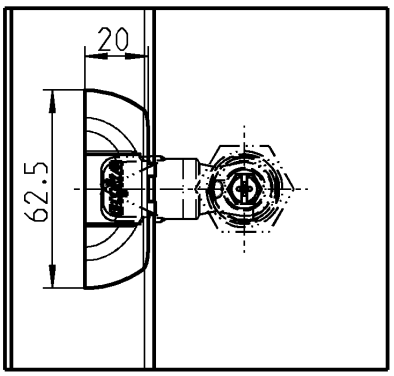
®Leading ramp, self-adhesive; internal handle

PROGRAM 1000


Installation example: door and frame shown from the inside

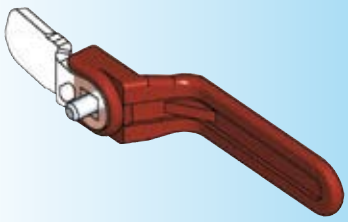


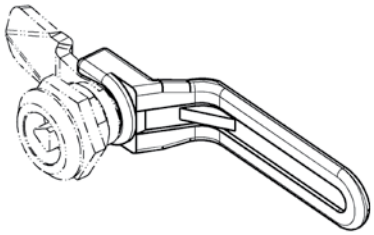
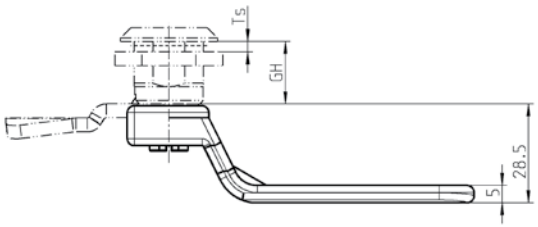
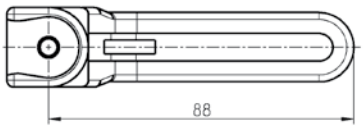
The ramp increases the compression distance of the closure by 4 mm.

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

Further parts see page
– Cam 1C-120, 1C-130, 1C-140, 3YA-820, 3YA-840, 3YB-420, 3YB-440, 3YC-120, 3YC-140

Frame-sided leading ramp for cams polyamide black, self-adhesive	
	1000-U858



Further parts see page
– Cam 1C-120, 1C-130
– Quarter turns 1B-120, 1B-140, 1B-360, (non locking) 1B-520, to (without lock) 1B-580, 1B-720, 1B-830, 1B-835, 1B-860

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

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

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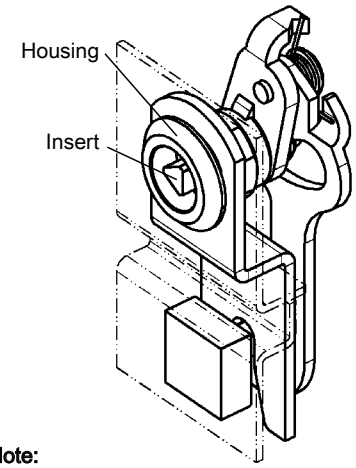
Hook lever lock, slam cam

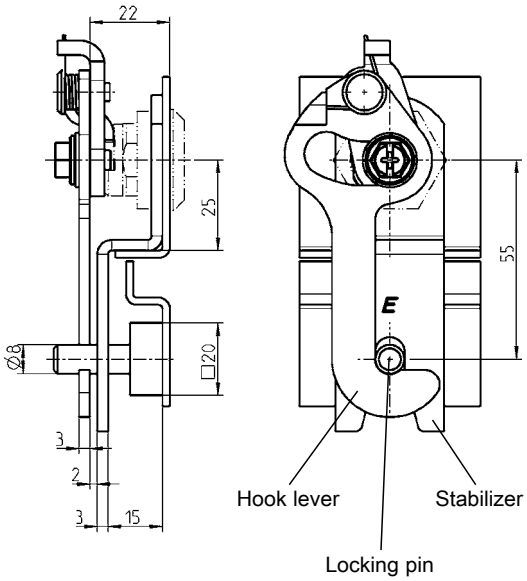
PROGRAM 1000

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

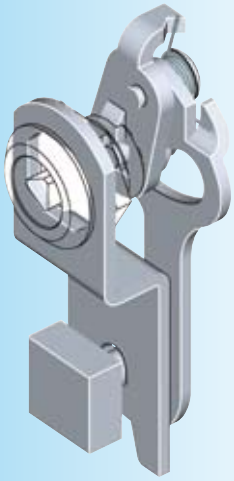
Note: drawings and dimensions relate to quarter turns with GH = 18 !

Hook stroke 5 mm





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



Further parts see page
– Quarter turns 1B-120
1B-140
1B-330
up to 1B-335
1B-520
up to 1B-720
1B-835
up to 1B-860

Hook lever lock m.s. zinc plated:	
Hook lever	1000-U12
Locking pin	1000-49
Stabilizer	1000-48

EDELSTAHL Rostfrei STAINLESS STEEL

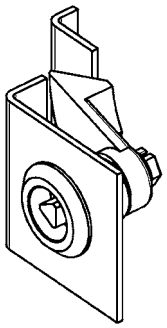
Slam cam

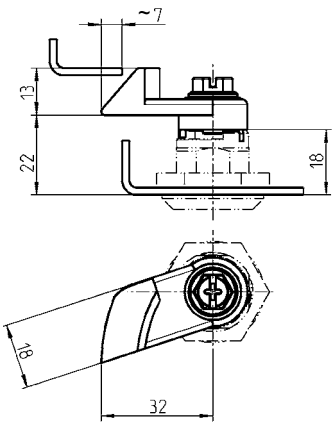
Spring loaded with slam effect

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

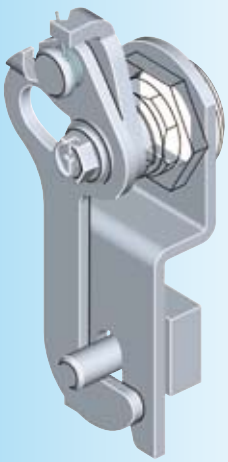
The wave washer (delivered with the insert) has to be replaced by the enclosed spacer.

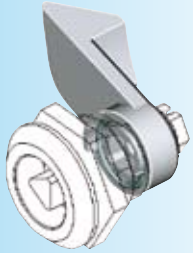
With the following slam cams IP 54 up to IP 69K is not possible!
Article-no:
1000-U235-N
1000-U235-NPH
1000-U236-N
1000-U236-NPH





RH





Slam cam zinc die chrome plated, spacer, screw m.s. zinc plated		
for quarter turn see catalogue page	**RH**	**LH**
1B-120, 1B-140, 1B-360, 1B-830, 1B-835, 1B-860	1000-U235-N	1000-U236-N
1B-420 up to 1B-680	1000-U315-N	1000-U316-N
Slam cam AISI 316, spacer, screw stainless steel		
1B-120, 1B-140, 1B-360, 1B-830, 1B-835, 1B-860	1000-U235-NPH	1000-U236-NPH

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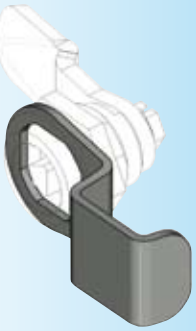
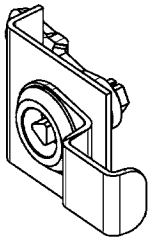
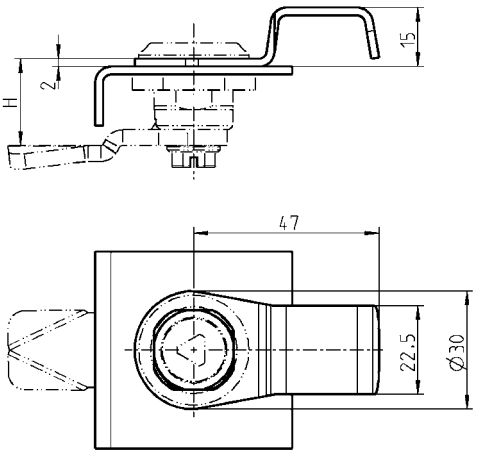
Finger pull, dust cap

PROGRAM 1000

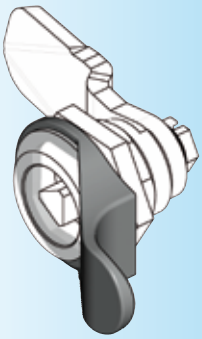


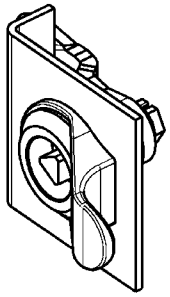


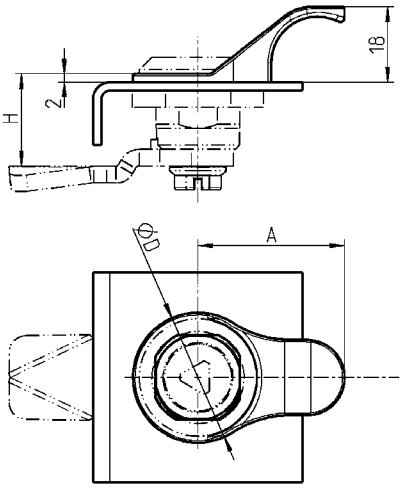


Attention:
The H-dimesion will be reduced by 2 mm with the finger pull installed.

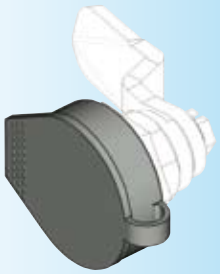
Finger pull m.s. black powder coated	
	1000-359
IP 65 with:	
Flat seal	1000-23



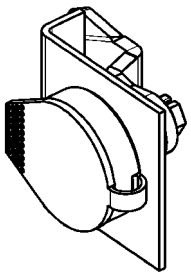


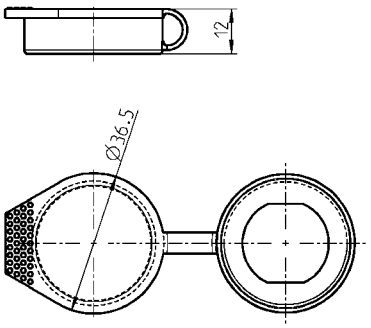


Finger pull polyamide GF black		
for housing with head diameter Ø 28	; D = 31, A = 35	1000-358
for housing with head diameter Ø 30 and 32	; D = 35, A = 36	1000-358-01
IP 65 with:		
Flat seal		1000-23



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





Dust cap polyethylene black	
	1000-97-01

Further parts see page

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

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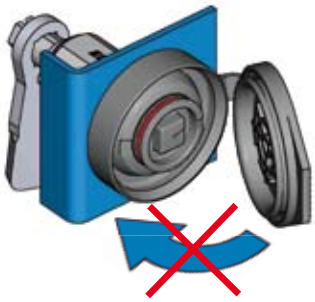
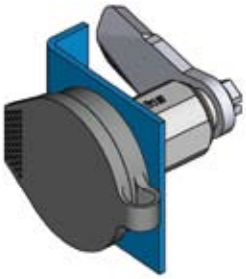
Dust cap for high-speed trains, dust cap for T-Handle

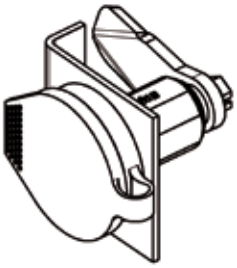
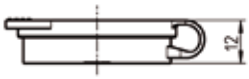
PROGRAM 1000

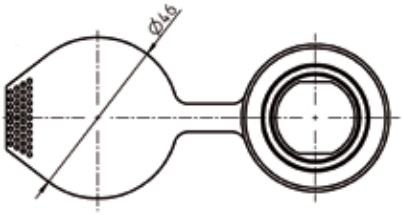
When combined use of dust cap and compression quarter turn with optical open indication (program 1000 / catalogue page 1B-237) an additional safety aspect is achieved.

Additionally if the red ring is visible, the dust cap can not be locked.









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

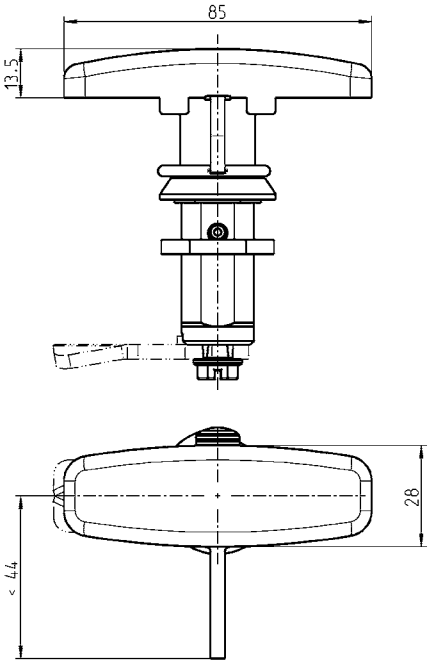
Attention:
The H-dimension will be reduced by 2 mm with this dust cap installed.

Further parts see page

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

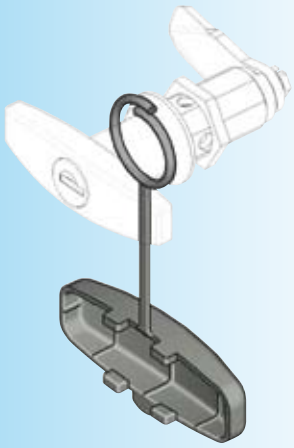
Dust cap TPE, UV resistant , black

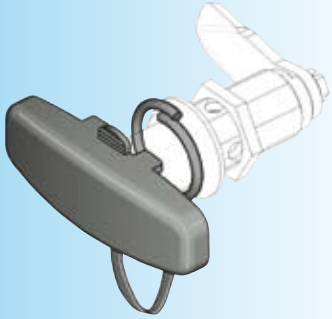
1000-97-02



Also suitable for:

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





T-Handle-cap polypropylene black

1000-460

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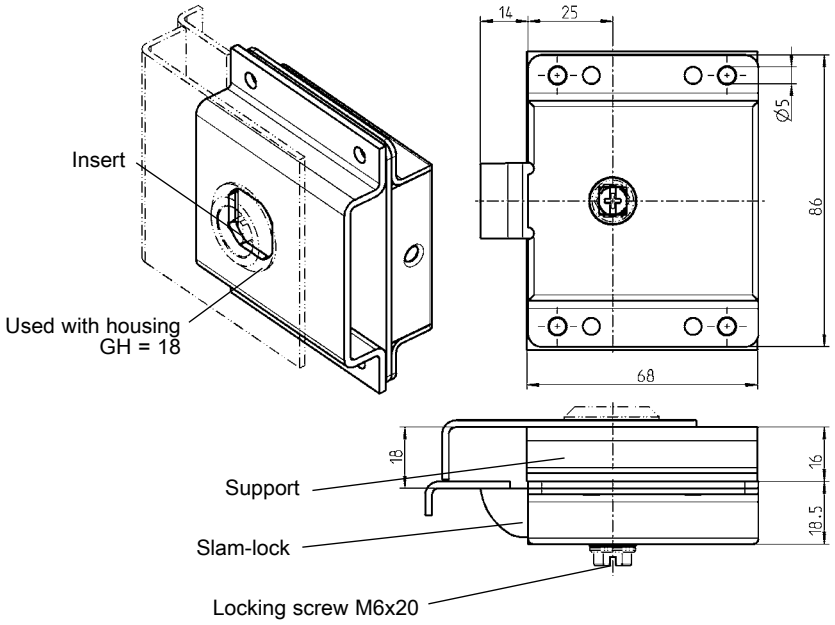
Slam latch, rotation prevention

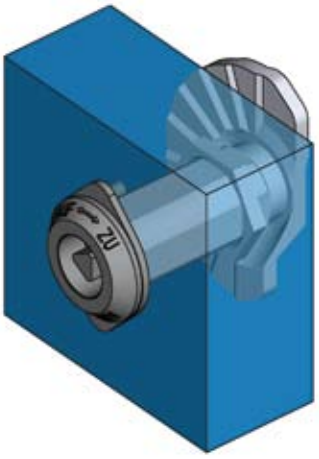
PROGRAM 1000



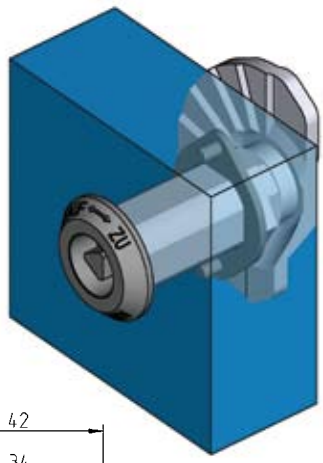
Further parts see page
– Quarter turns
1B-120
1B-140
1B-330
up to 1B-335
1B-520
up to 1B-680
1B-835
up to 1B-860

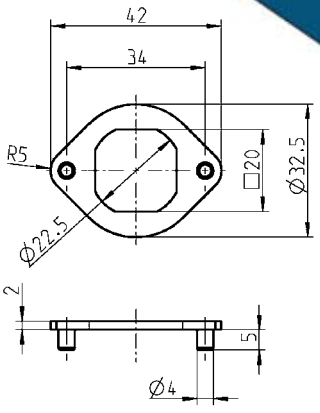
Slam latch m.s. zinc pl., zinc die raw and spring steel Support and vibration proof screw m.s. zinc plated	
Slam-lock	1034-U1
Support	1034-03
Locking screw M6x20	1000-277-04JB

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



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





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

Further parts see page
– Quarter turns
1B-120
1B-140
1B-220
up to 1B-335
1B-360
up to 1B-720
1B-830
up to 1B-860

Device for preventing rotation zinc die, surface as requested	
black powder coated	1000-456-AA
zinc plated	1000-456-JB

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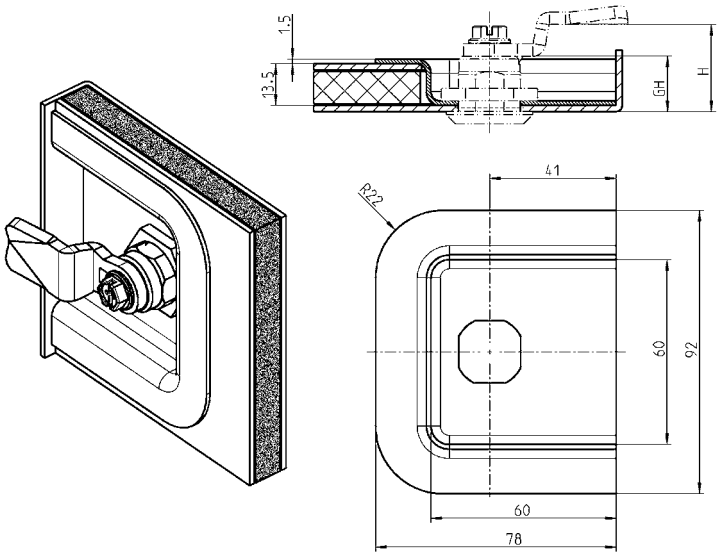
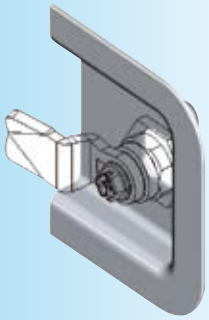
Dish

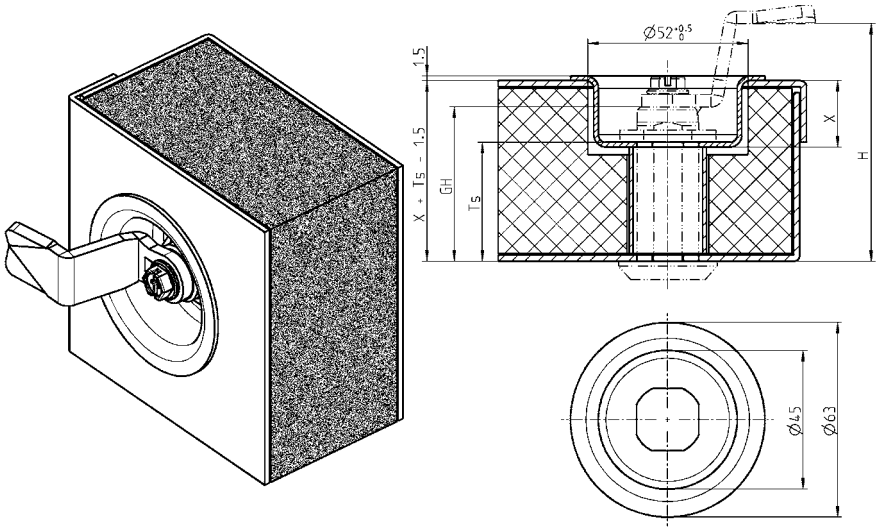
PROGRAM 1000

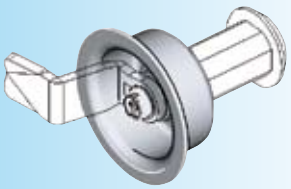




Dish m.s. zinc plated	
	1000-94

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





Dish m.s. zinc plated	
Dimension X	
10,5 mm	1000-264
17,5 mm	1000-265
21,5 mm	1000-266

Further parts see page
– Quarter turn
1B-120
1B-140
1B-220
up to 1B-235
1B-320
up to 1B-335
1B-360
up to 1B-720
1B-830
up to 1B-860

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Rods

PROGRAM UNIVERSAL

Minimum order quantity: 200 pieces
Lower quantities on request

Round rod
in fixed lengths

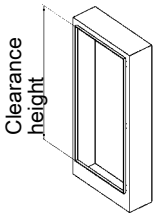
Program 1000

How to find dim. L
when pivot point is central

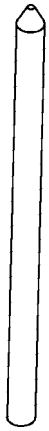
with adapter $\frac{\text{Clearance height - 40}}{2}$

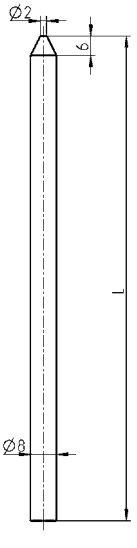
with eye $\frac{\text{Clearance height - 12}}{2}$

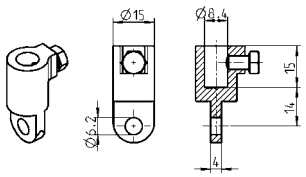
L ≤ 1200



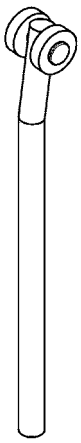
Order example: Part number for rod with rollers and a length L of 1034 mm = 1049-U18-L 1034

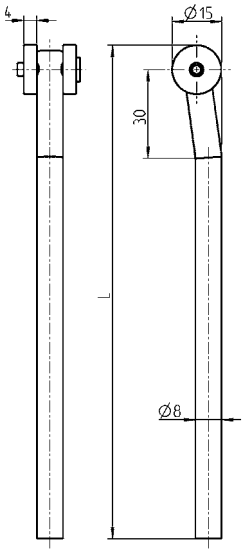


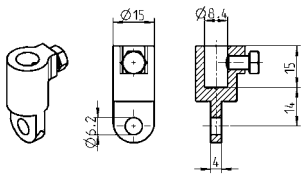




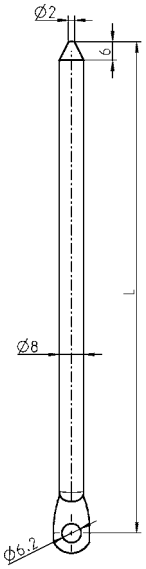
Chamfered end m.s. zinc pl.		
1049-19-L mm		
(1049-19-01 to -17 see price list)		
adapter	**zinc die, m.s. z.pl.**	**AISI 303**
	1000-U49	1000-U141



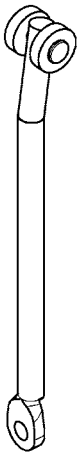


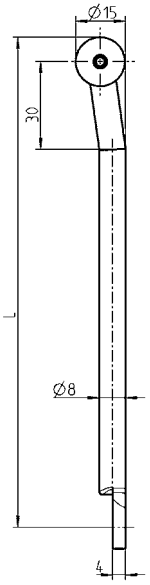


m.s. zinc pl., with rollers polyamide black		
1049-U18-L mm		
(1049-U18-01 to -17 see price list)		
adapter	**zinc die, m.s. z.pl.**	**AISI 303**
	1000-U49	1000-U141



with eye and pointed end, m.s. zinc pl.
1000-211-L mm
(1000-211-01 bis -17 see price list)





with eye m.s. zinc pl. with rollers polyamide black (not suitable for program 1121 and 2121)
1000-U144-L mm
(1000-U144-01 to -17 see price list)

with eye AISI 304 and rollers polyamide black (not suitable for program 1121 and 2121)
1000-U538-L mm
(1000-U538-01 bis -09 see price list)

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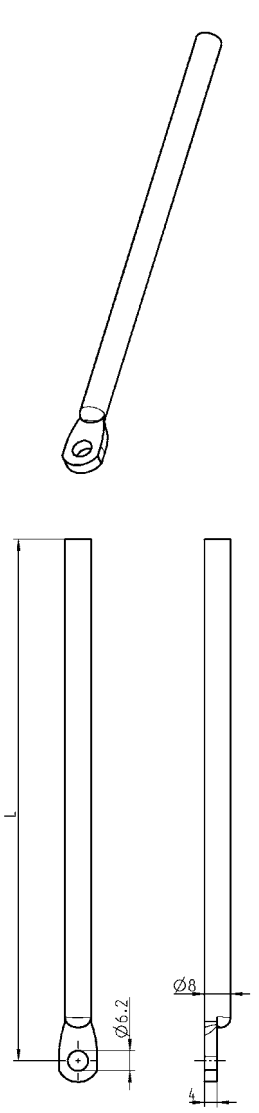
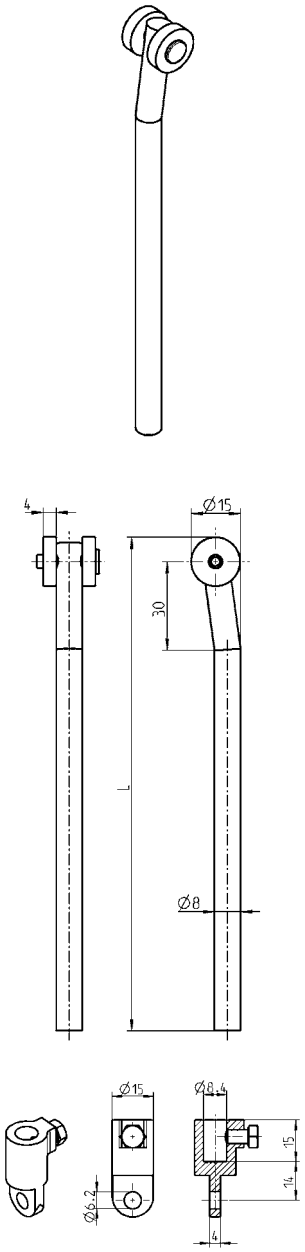
Round- and square rods in available lengths

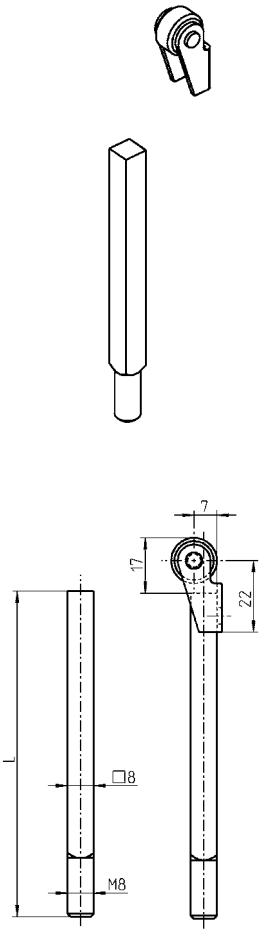
EDELSTAHL Rost frei® STAINLESS STEEL

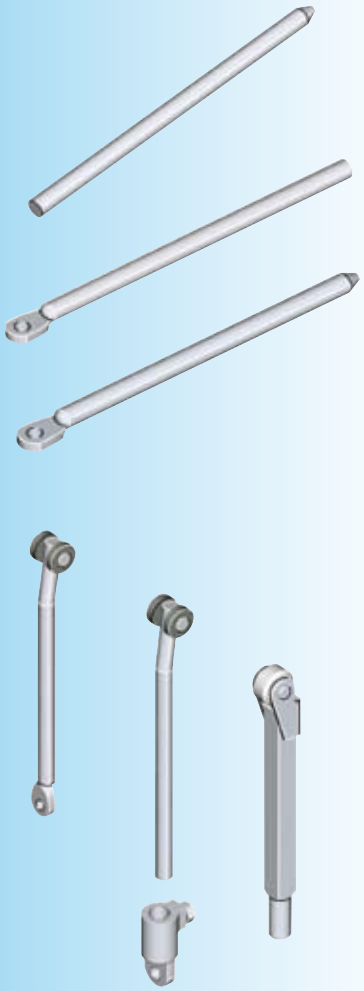
RL

INOX AISI 3..









Round rod with eye, m.s. zinc plated	
L in mm	
400	1000-33
500	1000-34
600	1000-35
700	1000-36
800	1000-37
900	1000-38
1000	1000-39
1100	1000-114
1200	1000-115

Round rod m.s zinc pl. or AISI 304 with rollers polyamide black		
L in mm	m.s. z.pl.	AISI 304
600	1049-U3	1049-U12
700	1049-U4	1049-U13
800	1049-U5	1049-U14
900	1049-U6	1049-U15
1000	1049-U7	1049-U16
1100	1049-U8	1049-U17
1200	1049-U9	–
adapter	zinc die, m.s. z.pl.	AISI 303
	1000-U49	1000-U141

Square rod m.s. zinc pl. suitable for catalogue page 2B-120	
L in mm	
600	1001-11
700	1001-12
800	1001-13
900	1001-14
1000	1001-15
1100	1001-16
1200	1001-17
Roller unit m.s. zinc pl., roller polyamide white	
–	1019-U1

Further parts see page

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

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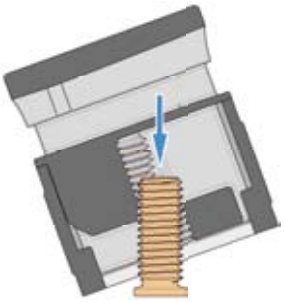
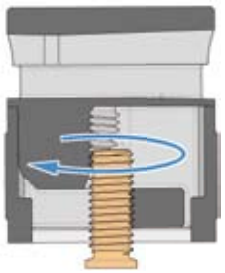
®Rod guide quick assembly for round rods 8 mm

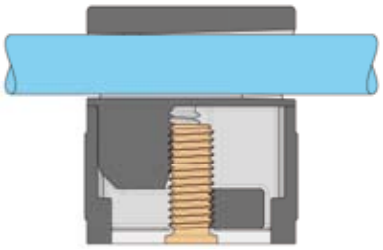
PROGRAM UNIVERSAL



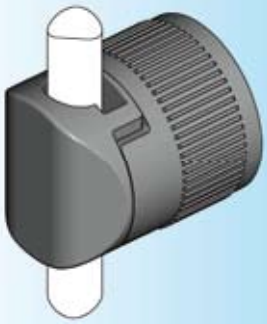
1.
Place the rod guide on weld stud.
(Hereby the time-consuming screwing is reduced considerbly.)

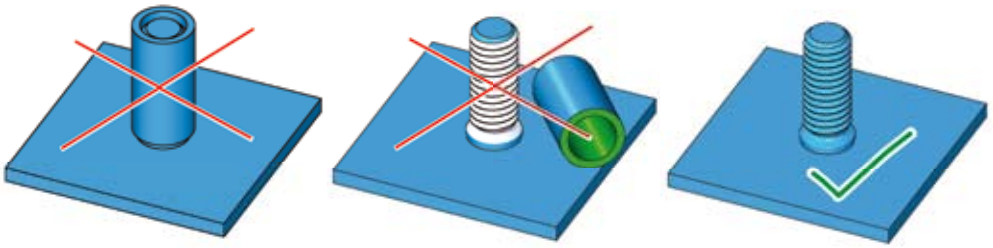


2.
Straighten up the rod guide, noticeably and audibly locks in place and secured with only a few rotations.

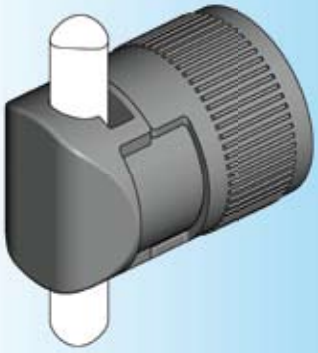


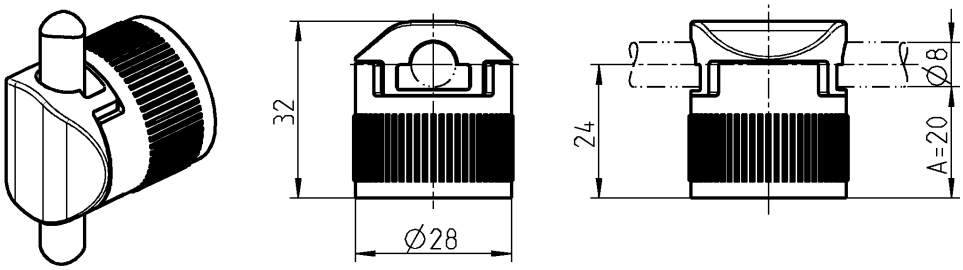
3.
Rod guide completely mounted.



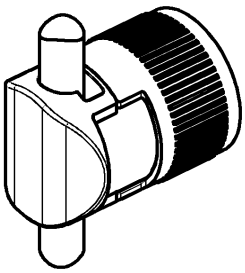


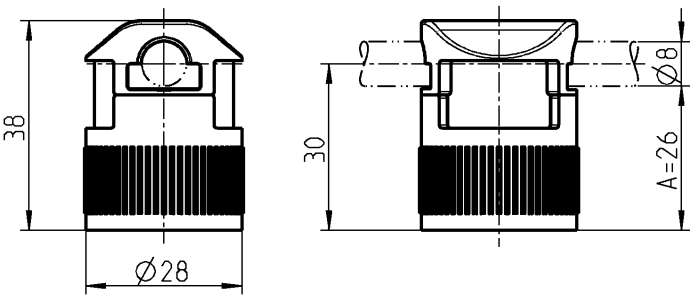
ADVANTAGE
This rod guide is suitable for raw and powder coated weld studs.
The covering of the weld stud before powdering can be omitted, this results in process optimization and cost saving.





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





Rod guide polyamide GF black		
A	for weld stud	
20	M6x16	1001-U47
26	M6x20	

Further parts see page
– Rod 1C-620
8A-360

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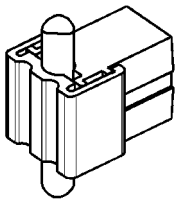
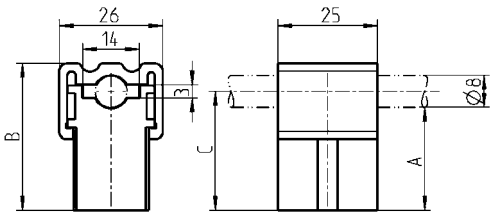
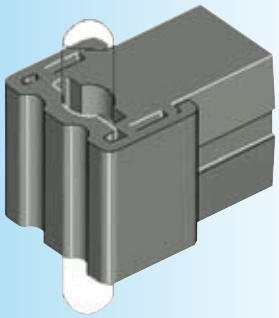
Rod guide for round rods 8 mm

PROGRAM UNIVERSAL

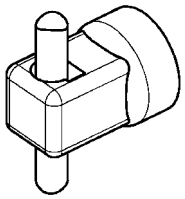


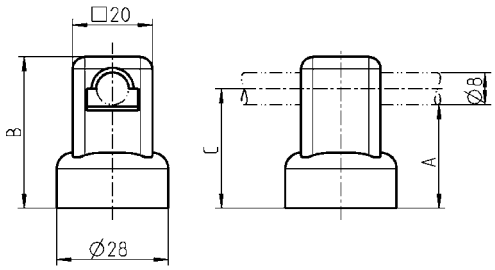


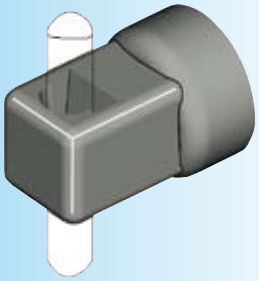


For round and flat rods

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

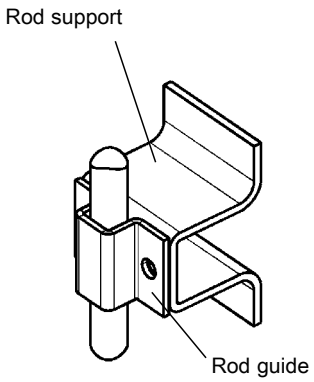


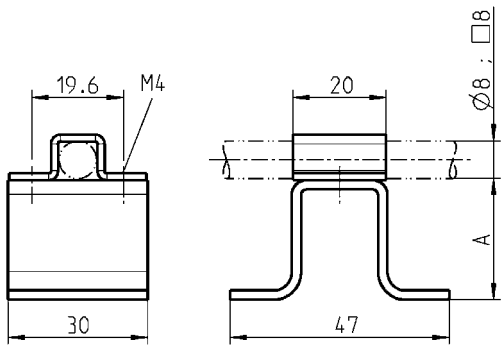


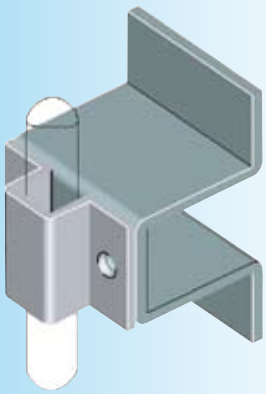


For round rods

Rod guide polyamide black with sunken nut m.s. zinc pl.				
A	B	C	for weld stud	
20	32	24	M6x16	1001-U11
26	38	30	M6x20	1001-U12







For round- and square rods

Rod guide m.s. zinc pl.	
	1001-22
Rod support m.s. raw	
A = 20	1001-20
A = 26	1001-21

Further parts see page
– Rod 1C-620
8A-360

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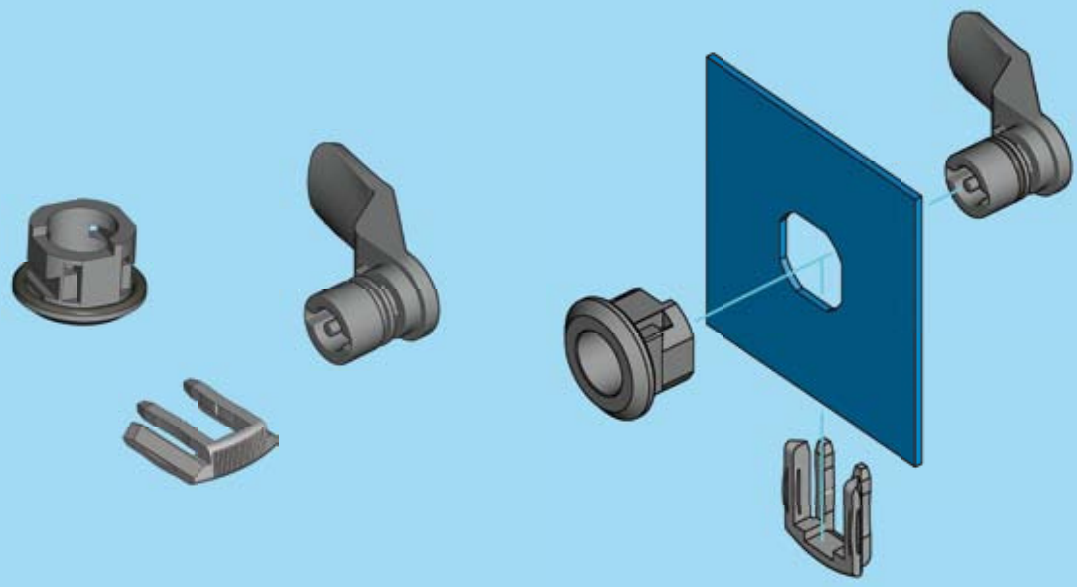
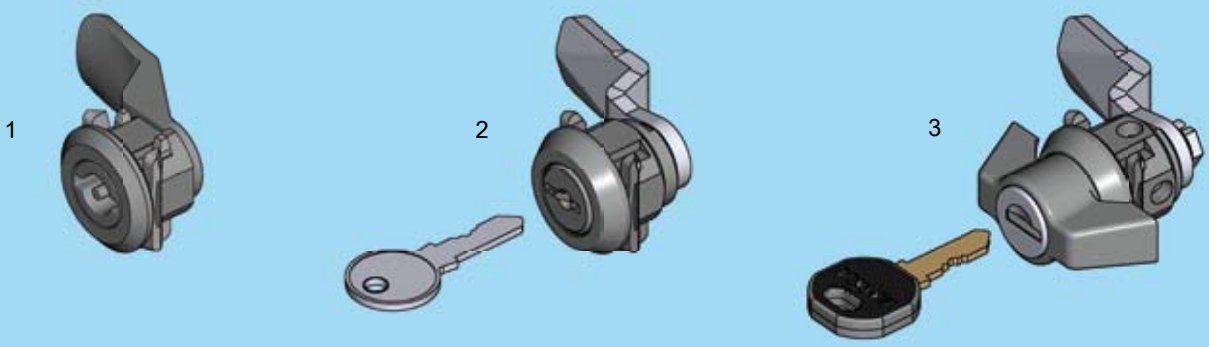
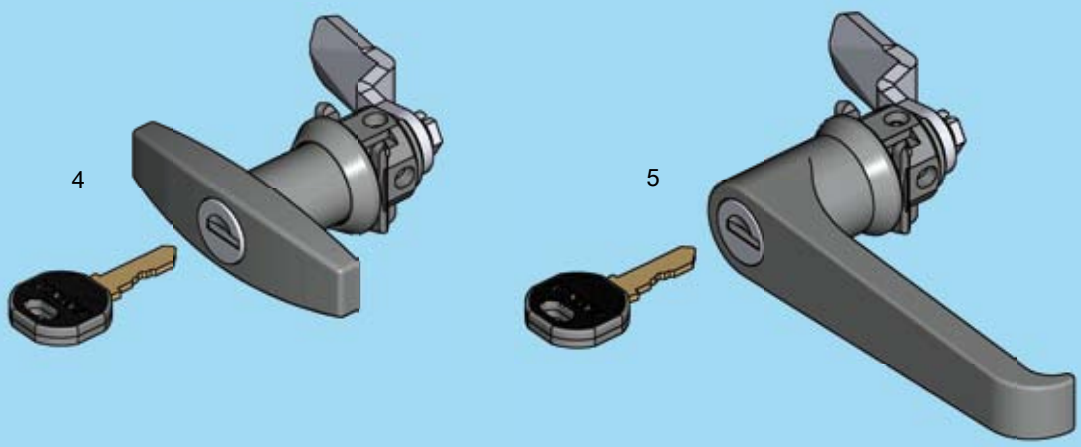
Notes:

Quarter turn clip fix
Program 1500







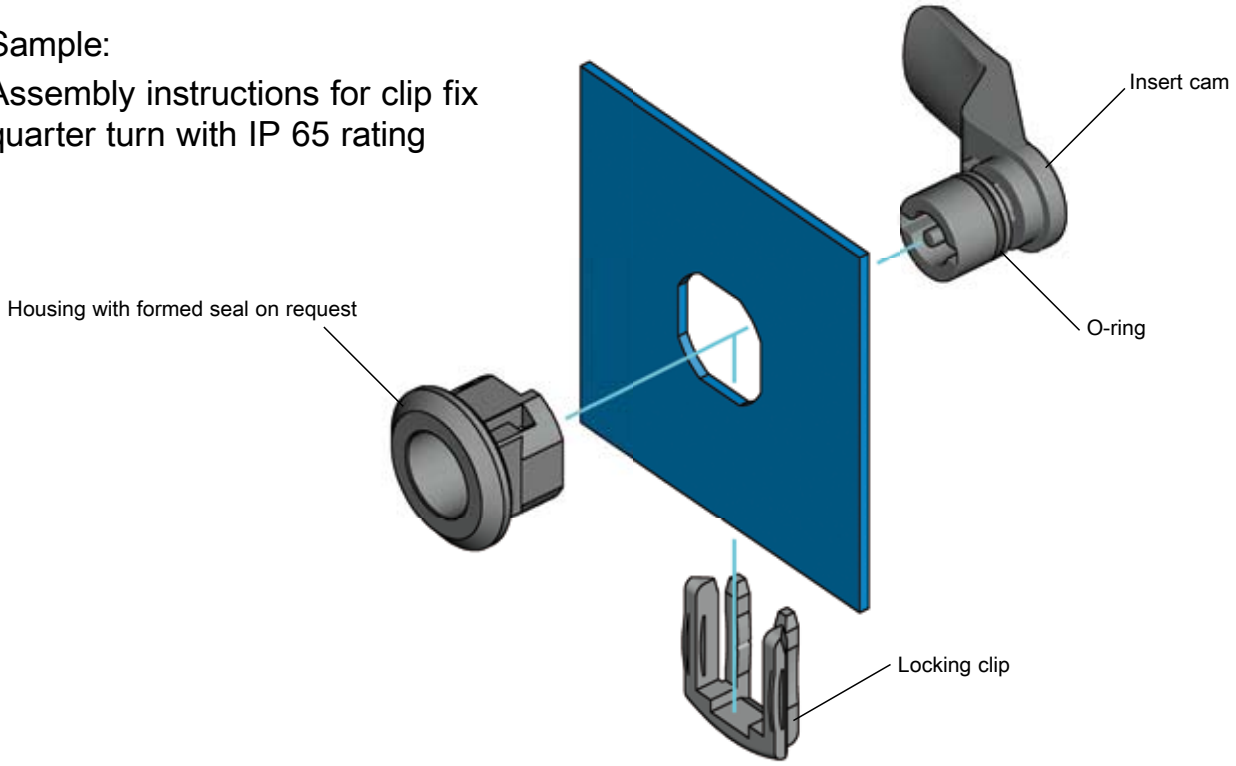
1	Quarter turn with insert cam	1D-140
2	Quarter turn with cylinder	1D-240
3	Wing knob	1D-320
4	T-Handle	1D-330, 1D-340
5	L-Handle	1D-350

Quarter turn; three piece, clip fix

PROGRAM 1500

Sample:

Assembly instructions for clip fix quarter turn with IP 65 rating



Housing polyamide GF colour as requested		
	black	**silver**
without seal	1500-01	1500-01-HW
with foamed seal (for IP 65)	1500-01-G	1500-01-GHW
Locking fork polyamide GF colour depending on door thickness		
Ts = 1.0 - 1.5 pebble grey		1500-02-10
Ts = 1.5 - 2.0 black		1500-02-15
Ts = . . .		

Insert cam Polyamide GF colour as requested see purchase order sample; order with O-ring see purchase order sample(for IP 65)

	H = 16	**H = 18**	**H = 22**	**H = 24**
	without O-ring	**without O-ring**	**without O-ring**	**without O-ring**
Square 7 ; black	1500-136-H16	1500-136-H18	1500-136-H22	1500-136-H24
Square 8 ; black	1500-140-H16	1500-140-H18	1500-140-H22	1500-140-H24
Triangular 7 ; black	on request	on request	on request	on request
Triangular 8 ; black	1500-152-H16	1500-152-H18	1500-152-H22	1500-152-H24
Triangular 9 ; black	on request	on request	on request	on request
Double bit 3 ; black	1500-156-H16	1500-156-H18	1500-156-H22	1500-156-H24
Double bit 5 ; black	1500-160-H16	1500-160-H18	1500-160-H22	1500-160-H24
Hexagon female SW 10 ; black	on request	on request	on request	on request
Square female 7 ; black	on request	on request	on request	on request
Square female 8 ; black	on request	on request	on request	on request
Daimler Benz , black	on request	on request	on request	on request
Slot 1.2 x 3 ; black	on request	on request	on request	on request
Slot 2 x 4 , black	1500-177-H16	1500-177-H18	1500-177-H22	1500-177-H24
Slot 2 x 4 coinproof ; black	on request	on request	on request	on request

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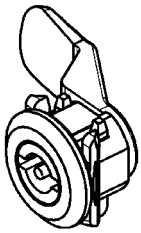

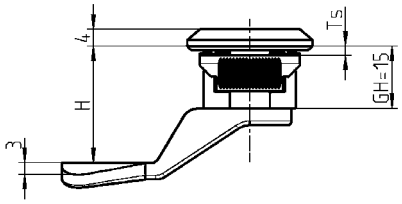

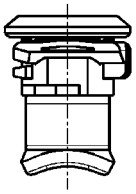

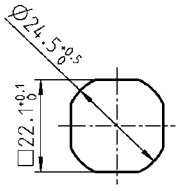

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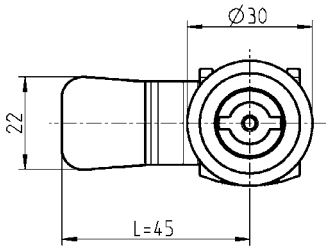

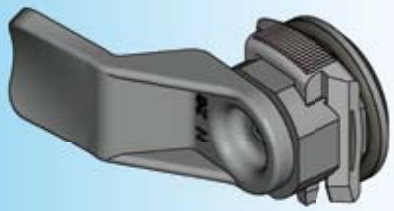

Attention:
IP 65 is achieved by housing with foamed seal and insert cam with O-ring!

Purchase order sample insert cam in silver:

You require a silver insert cam in square 8 mm for the clearance H = 18 mm. Then add to the item no. in the table the letters “HW” at the end.
e.g.:
1500-140-H18HW Insert cam polyamide GF; silver; H=18 mm; square 8 mm

Purchase order sample insert cam with O-ring:

You require a black insert cam in double bit 3 mm for the clearance H = 28 mm with O-ring. Then add to the item no. in the table the letter “B” after “1500-”.
e.g.:
1500-B156-H28 Insert cam Polyamide GF; black; H=28 mm; double bit 3 mm with O-ring

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

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

Further parts see page
– Key 12B-120

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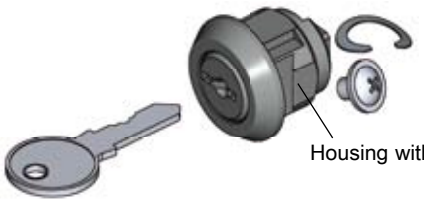
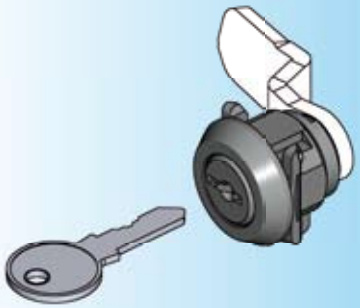
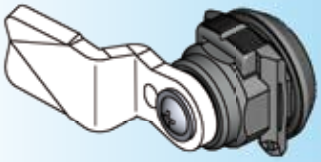
Cylinder quarter turn clip fix

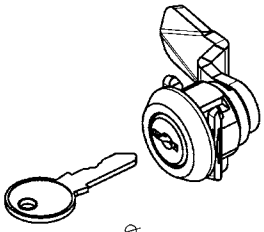
PROGRAM 1500

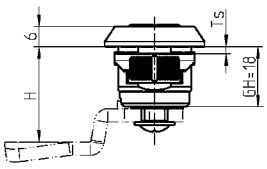
Locking clip

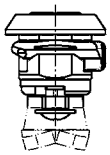


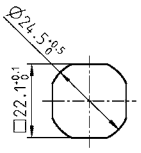












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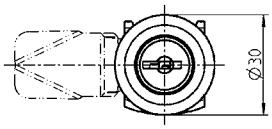

Housing and round cylinder polyamide GF black, screw zinc plated. Each round cylinder has one key m.s. nickel plated. Key removable in both positions.	
keyed EK 333	1500-U18
keyed different	1500-U19
Locking fork polyamide GF colour according to article	
Ts = 1.0 - 1.5 colour pebble grey	1500-05-10
Ts = 1.5 - 2.0 colour black	1500-05-15

Further parts see page

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

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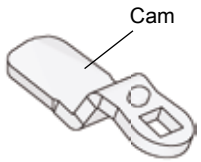
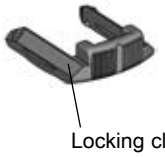
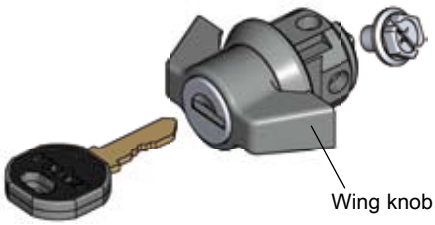
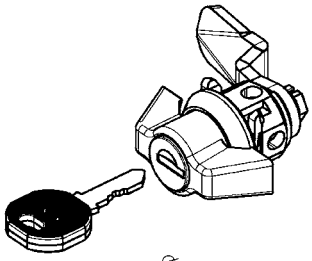
Wingknob quarter turn clip fix

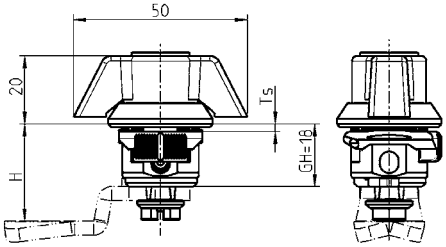
PROGRAM 1500

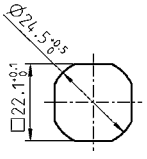












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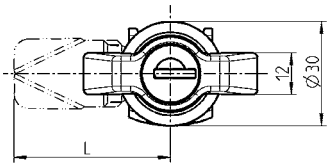

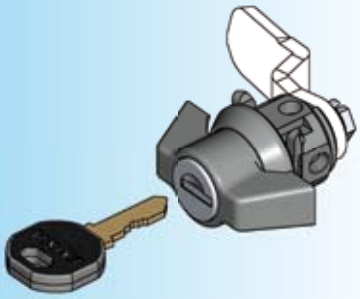

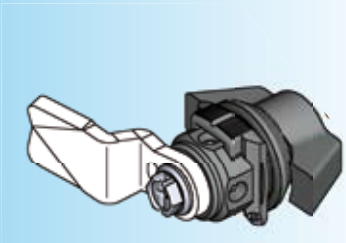

Handle polyamide GF black / zinc die, housing polyamide GF black, round cylinder zinc die with stainless steel cap and dust cap, srew m.s. zinc plated, with seal. Each round cylinder has one key made of silver steel with polyamide GF grip black. Key removable in both position.	
non locking	1500-U343
keyed EK 333	1500-U345
keyed different	1500-U347
Locking fork polyamide GF colour according to article	
Ts = 1.0 - 1.5 colour pebble grey	1500-05-10
Ts = 1.5 - 2.0 colour black	1500-05-15

Further parts see page
– Cam (GH=18) 1C-120, 1C-140, 1C-160
– Spare key 12B-140

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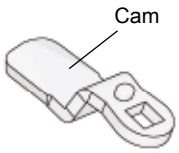
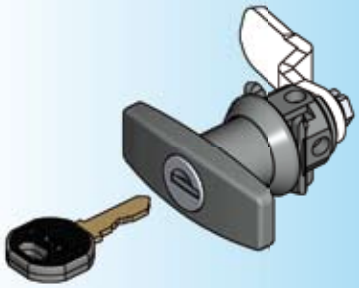
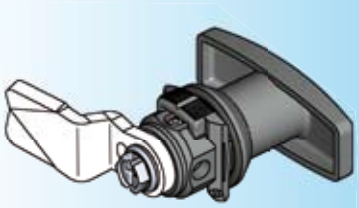
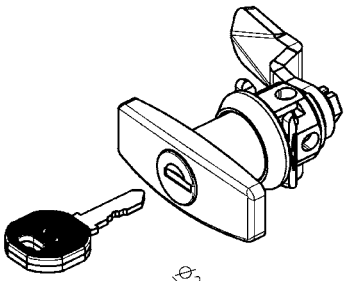
T-handle quarter turn, small, clip fix

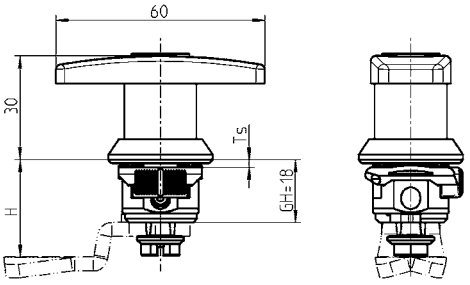
PROGRAM 1500

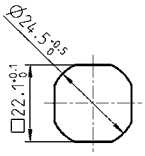












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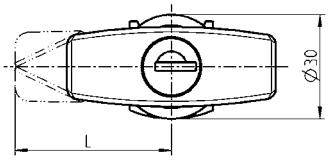

Handle polyamide GF black / zinc die, housing polyamide GF black, round cylinder zinc die with stainless steel cap and dust cap, srew m.s. zinc plated, with seal. Each cylinder has one silver steel key with polyamide GF grip black. Key removable in both position.	
non locking (IP 40)	1500-U775
keyed EK 333 (IP 65)	1500-U773
keyed different (IP 65)	1500-U774
Locking fork polyamide GF colour according to article	
Ts = 1.0 - 1.5 colour pebble grey	1500-05-10
Ts = 1.5 - 2.0 colour black	1500-05-15

Further parts see page
– Cam (GH=18) 1C-120, 1C-140, 1C-160
– Spare key 12B-140

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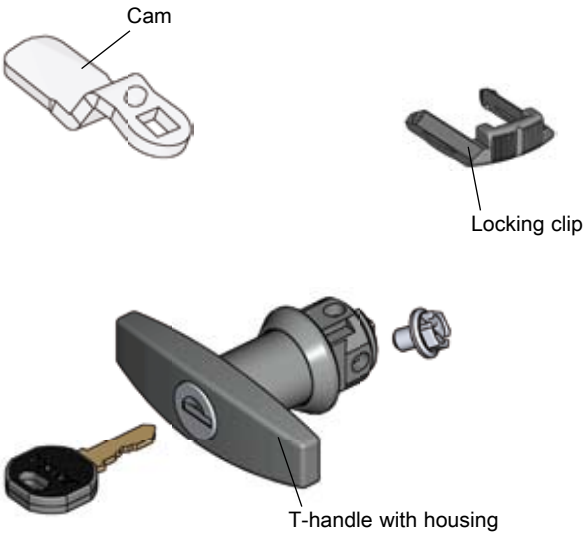
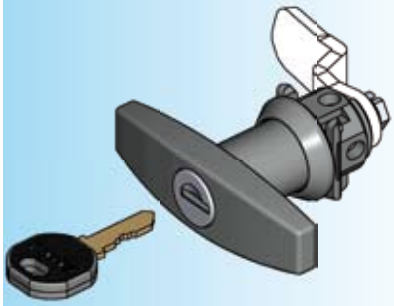
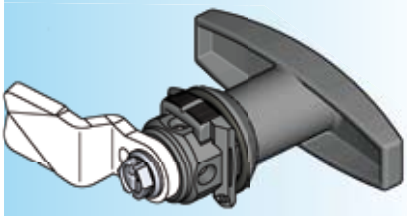
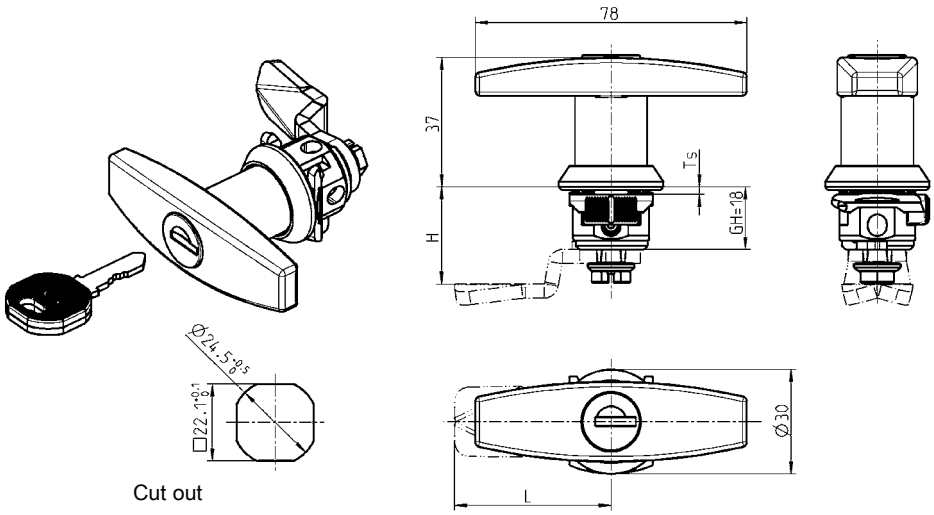
T-handle quarter turn, clip fix

PROGRAM 1500









Handle polyamide GF black / zinc die, housing polyamide GF black, round cylinder zinc die with stainless steel cap and dust cap, srew m.s. zinc plated, with seal. Each round cylinder has one key made of silver steel with grip polyamide black. Key removable in both position.	
non locking	1500-U546
keyed EK 333	1500-U548
keyed different	1500-U550
Locking fork polyamide GF colour according to article	
Ts = 1.0 - 1.5 colour pebble grey	1500-05-10
Ts = 1.5 - 2.0 colour black	1500-05-15

Further parts see page
– Cam (GH=18) 1C-120, 1C-140, 1C-160
– Spare key 12B-140

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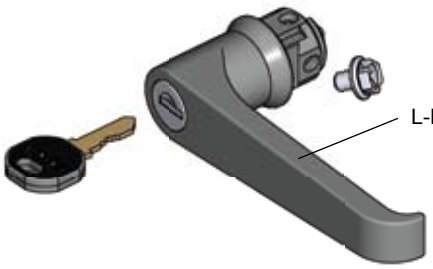
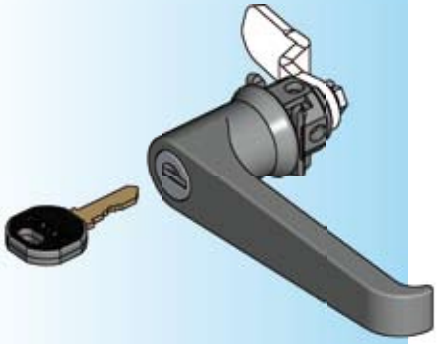
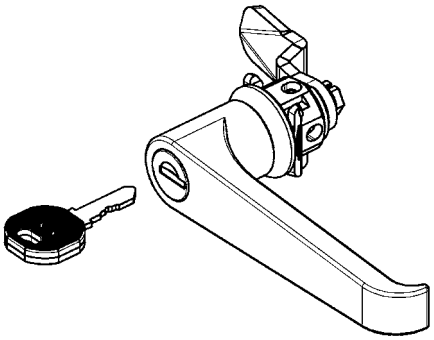
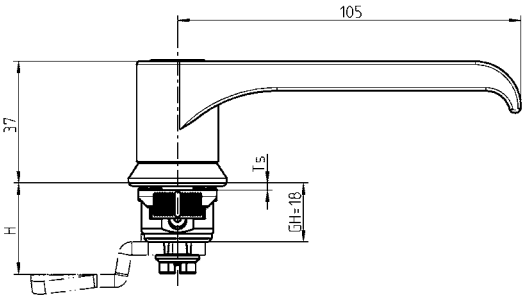
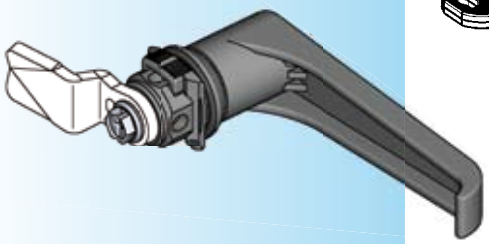
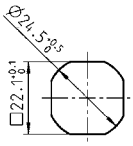
L-Handle clip fix

PROGRAM 1500





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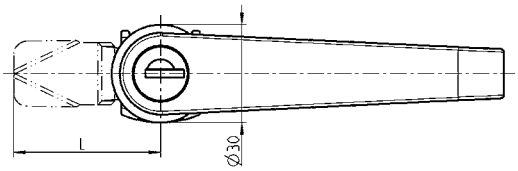

Handle polyamide GF black / zinc die, housing polyamide GF black, round cylinder zinc die with stainless steel cap and dust cap, srew m.s. zinc plated, with seal. Each cylinder has one silver steel key with polyamide GF grip black. Key removable in both position.	
non locking	1500-U570
keyed EK 333	1500-U572
keyed different	1500-U574
Locking fork polyamide GF colour according to article	
Ts = 1.0 - 1.5 colour pebble grey	1500-05-10
Ts = 1.5 - 2.0 colour black	1500-05-15

Further parts see page

– Cam (GH=18)	1C-120 1C-140 1C-160
– Spare key	12B-140

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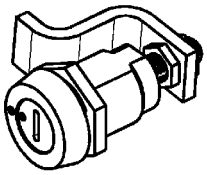
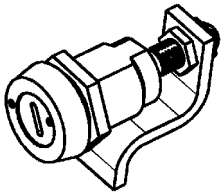
Compression latch

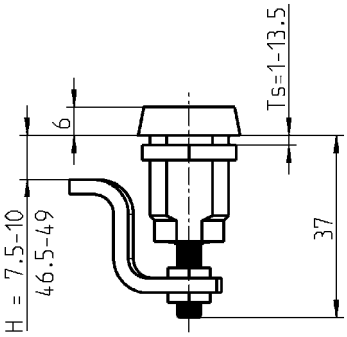
PROGRAM 1022

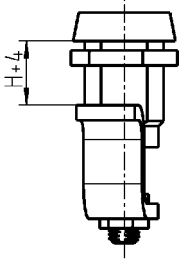
vibration proof

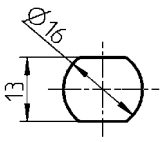
These latches are designed to be vibration resistant with a distinct “over-center” action. There may be some cases of extreme vibration where this detent is overcome. Therefore we recommend rigorous testing.











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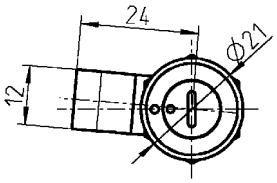
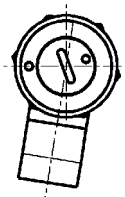
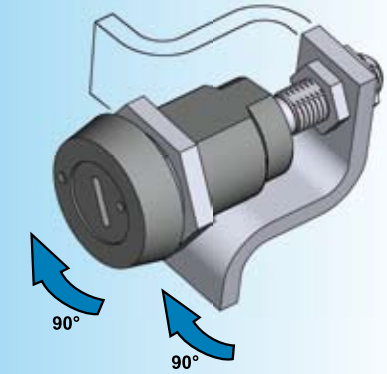
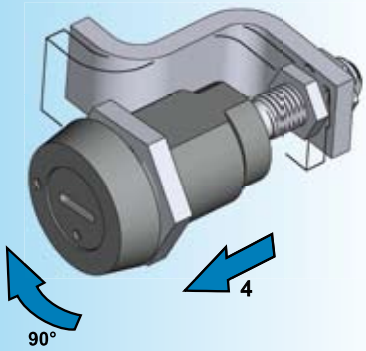


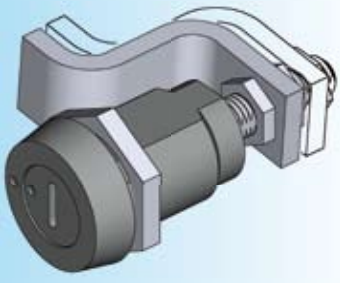




Open condition
The first 90° of rotation of the insert also turns the cam 90°.



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



Compressed condition

Unlock:
Reversed rotation

Quarter turn zinc die black powder coated, nut m.s. zinc plated	
	1022-U86

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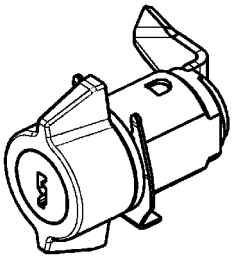
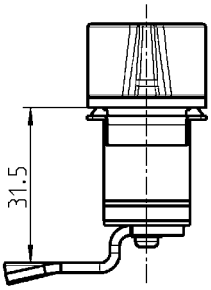
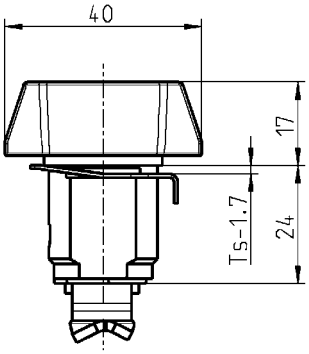
Wing knob

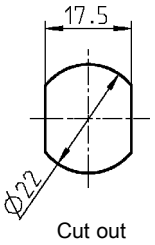
PROGRAM 1000

RL IP 40









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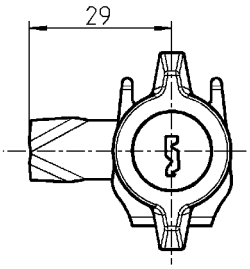

Wingknob quarter turn zinc die silver, screw and spring m.s. zinc plated.
Each round cylinder has two keys silver steel

1000-U836

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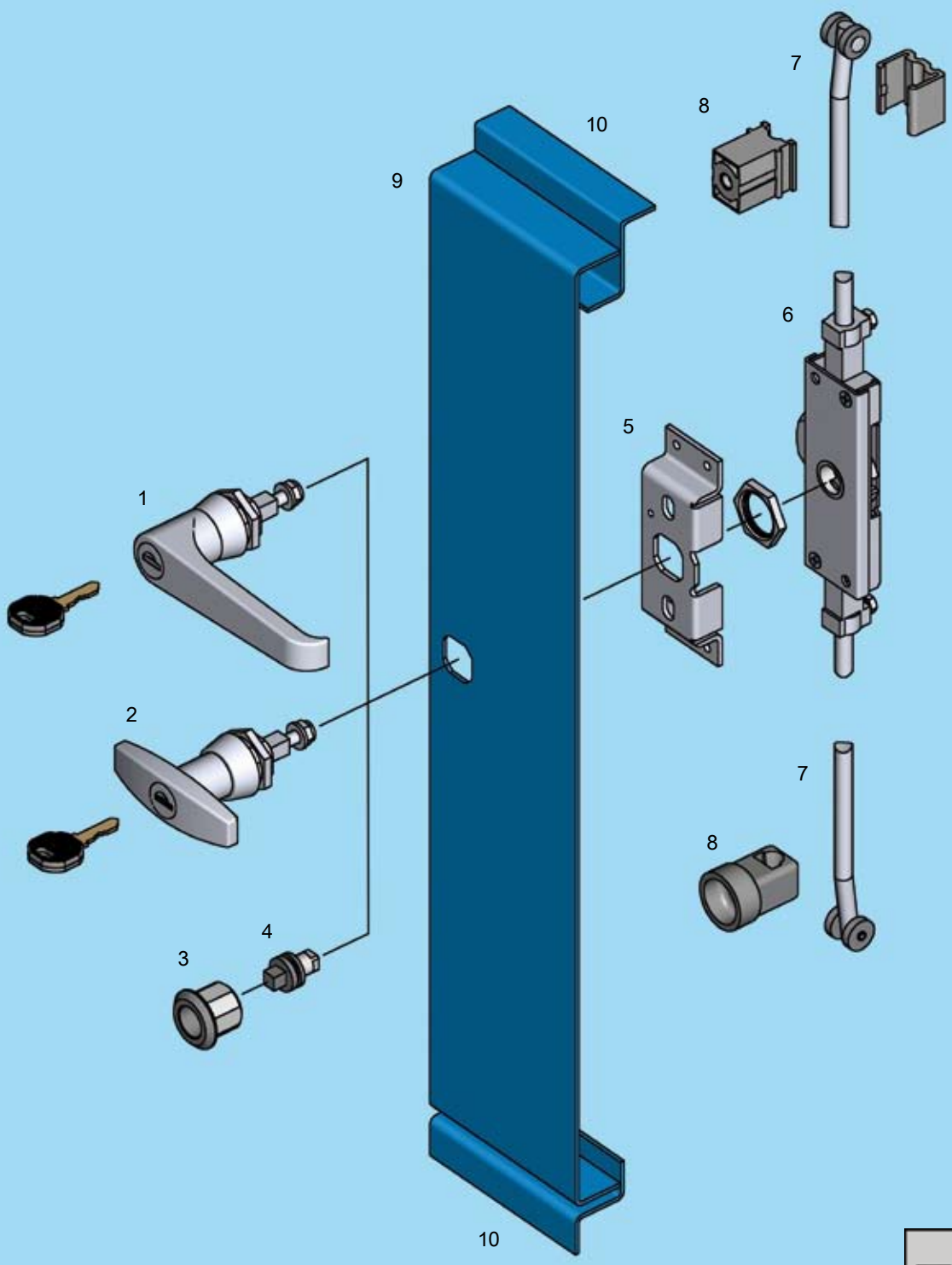
Latches for heavy duty
Screw-on

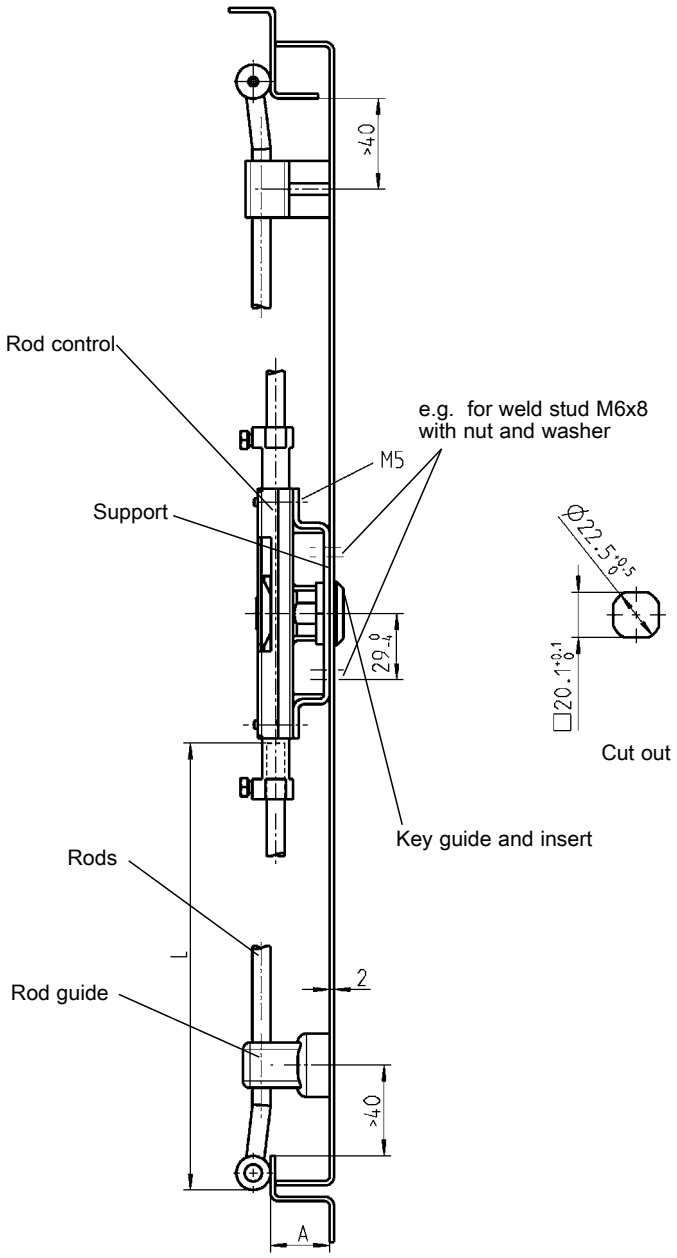


1	L-Handle	2A-140
2	T-Handle	2A-140
3	Key guide	2A-120
4	Insert	2A-120
5	Support	2A-120
6	Rod control	2A-120
7	Rods	
8	Rod guide	
9	Door	
10	Cabinet/frame	

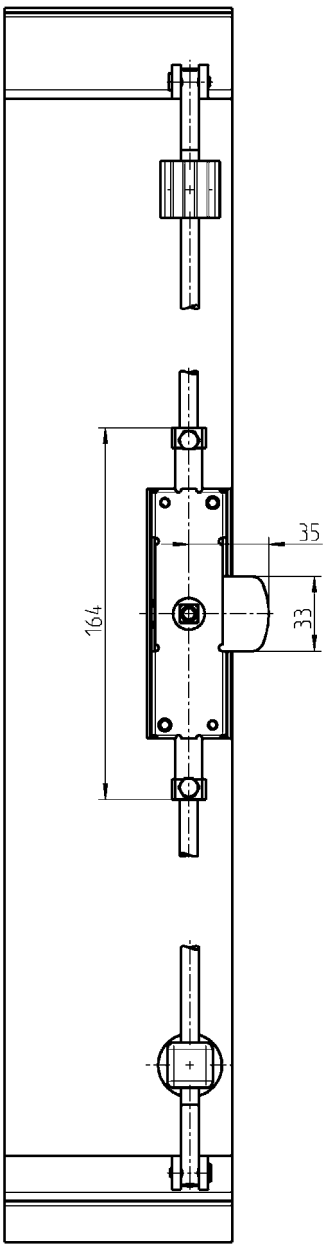
3 point latches and inserts

PROGRAM SCREW ON

Stroke 13 mm
or stroke 18 mm



Cut out



RH-version pictured

Dimensions of latches and
other versions see catalogue
pages 2B-120 to 2B-140

Latch m.s. zinc pl.		
	Stroke 13	Stroke 18
RH	1049-U1	1049-U19
LH	1049-U2	1049-U20
Support m.s. zinc plated		
	A20	A26
RH/LH	1001-47	1001-50

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

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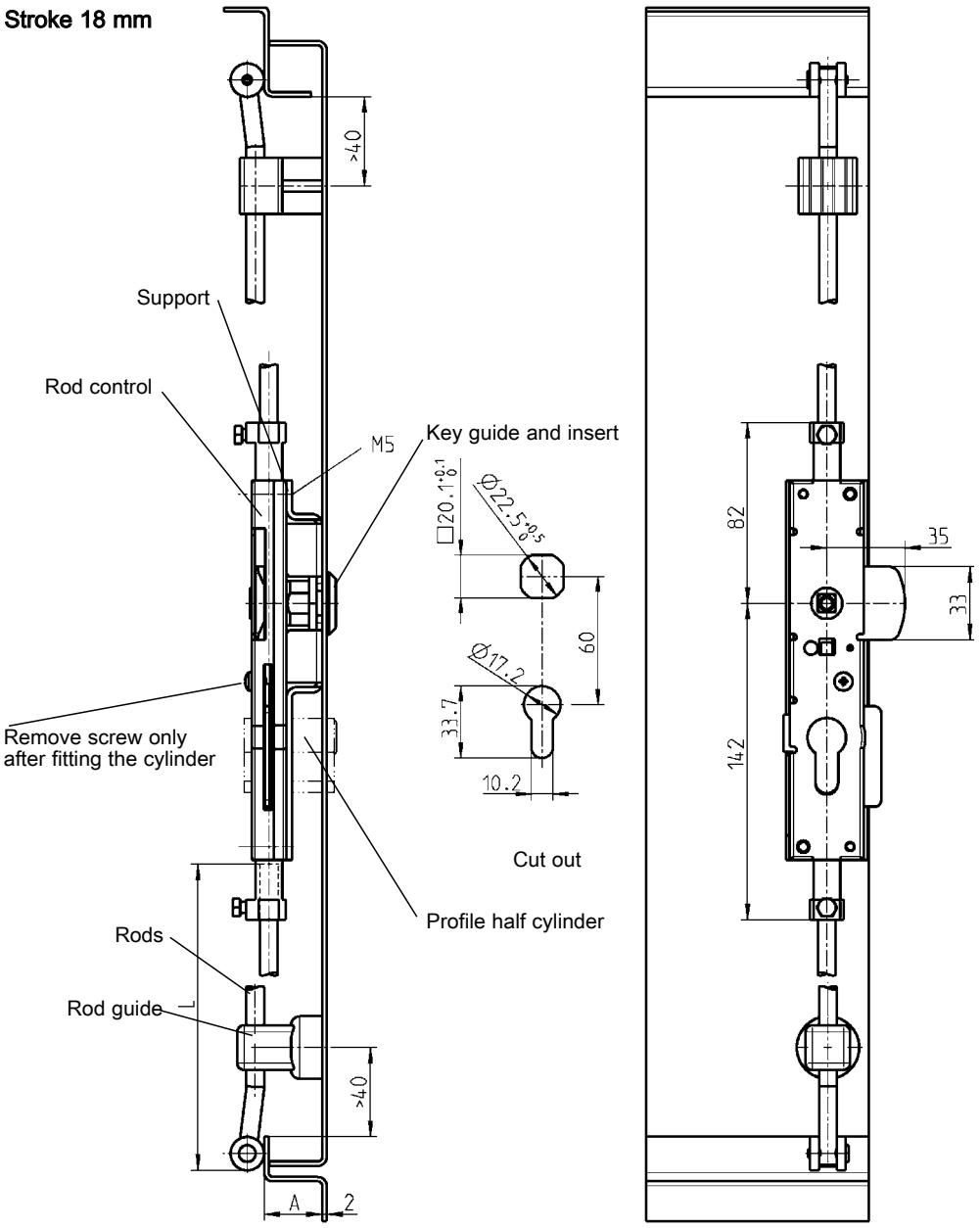
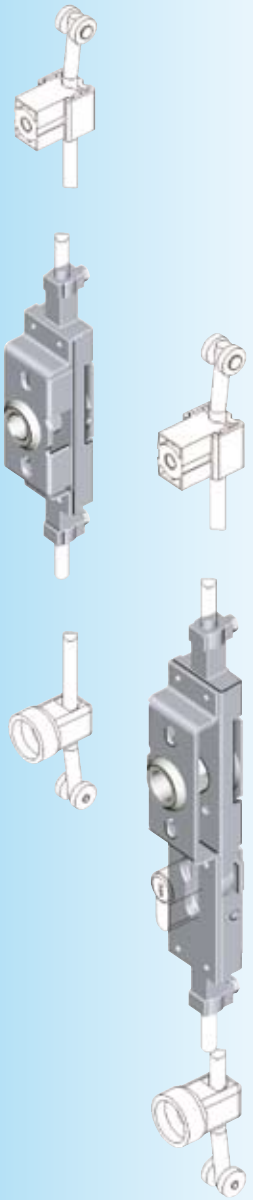
R L RL IP 65

Stroke 18 mm





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

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

Further parts see page

– T-Handle 2A-140
– L-Handle 2A-140
– Rods 1C-620
– Profile half cylinder 2B-220
– Key 12B-120
– Escutcheon 12D-120
– Adapter system for insulated doors 2A-180

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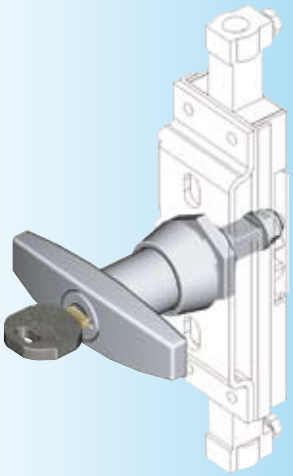
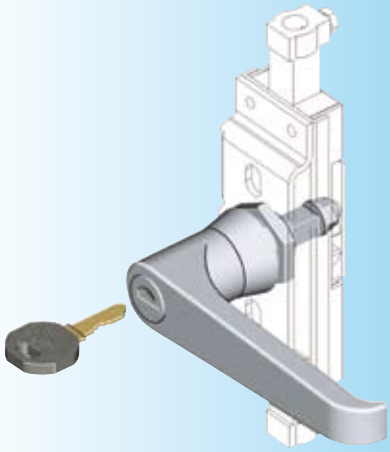
Handle

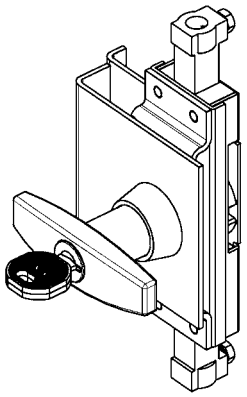
PROGRAM SCREW ON

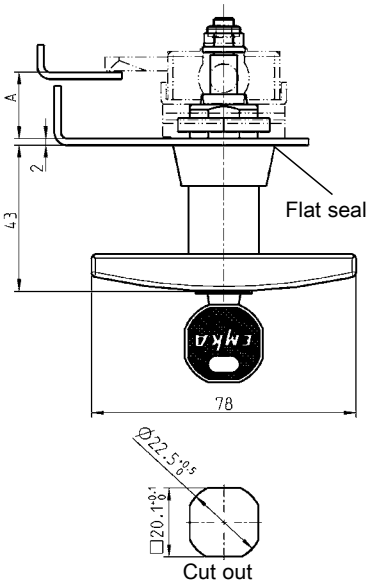
RL IP 65



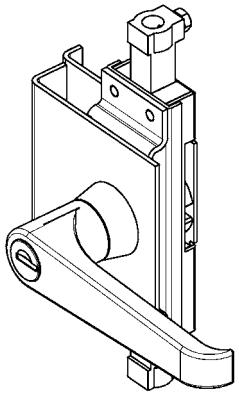


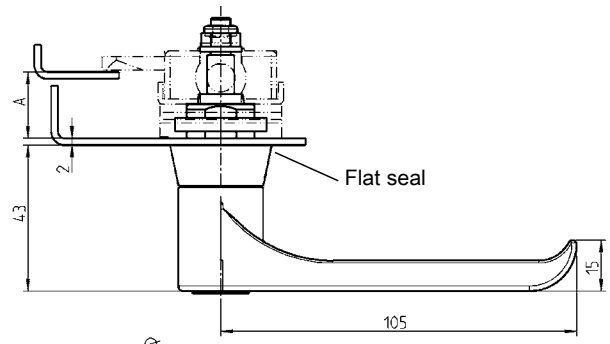
T-Handle

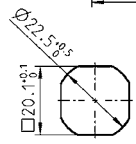




L-Handle







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 p.c.	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 p.c.	
			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	IP 65 (on request)	1103-U7	1103-U8	1103-U27	1103-U28
Square	8		1103-U9	1103-U10	1103-U29	1103-U30
Triangular	7		1103-U11	1103-U12	1103-U31	1103-U32
Triangular	8		1103-U13	1103-U14	1103-U33	1103-U34
Double bit	3		1103-U15	1103-U16	1103-U35	1103-U36
Double bit	5		1103-U17	1103-U18	1103-U37	1103-U38
Daimler Benz			1103-U19	1103-U20	1103-U39	1103-U40

Suitable for program:

1001
1049
1068

Further parts see page

– Dust cap for T-Handle 1C-340
– Spare key 12B-140
– Adapter system for insulated doors 2A-180

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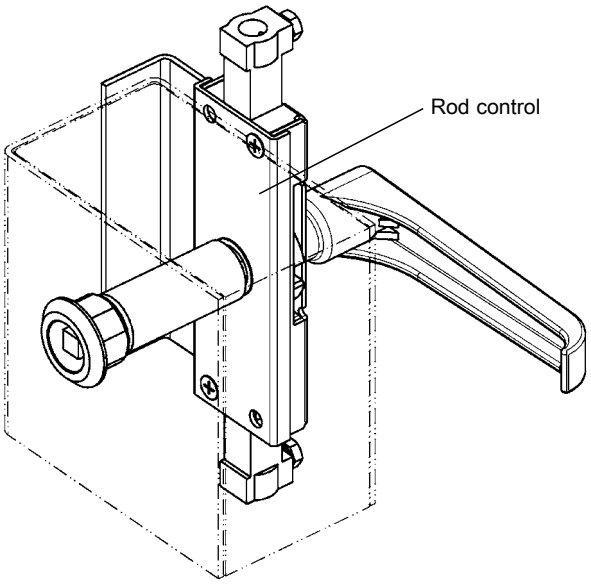
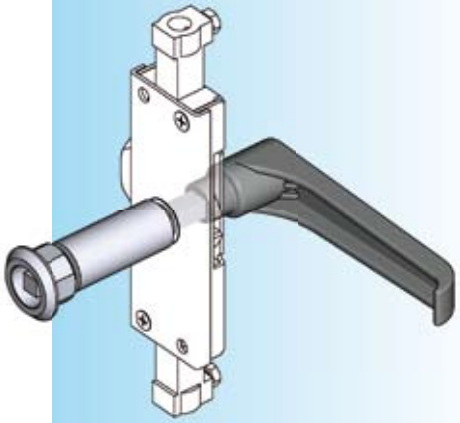
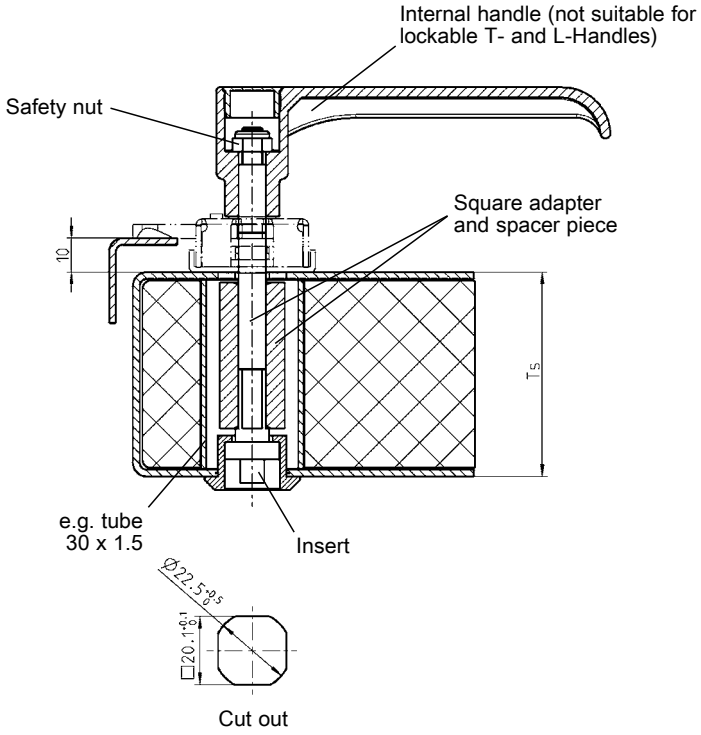
Adapter system

PROGRAM SCREW ON







System can be pre-assembled with handle or insert and retained with M6 safety nut.

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

– Rotation prevention	1C-360
– Rod control	2A-120
	2B-120
	2B-130
	2B-180
– T- or L-Handle A = 26	2A-140

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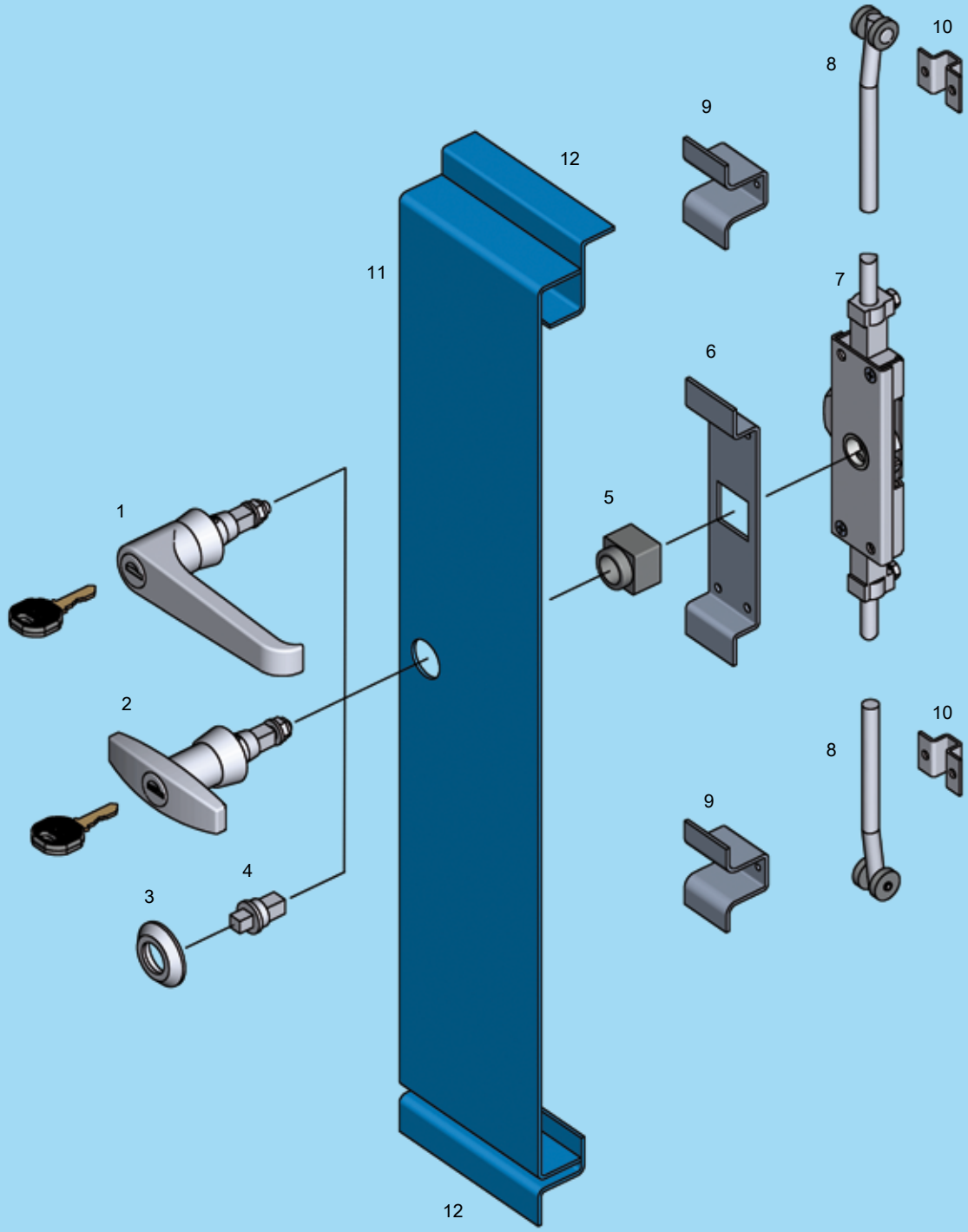
Notes:

Latches for heavy duty weld-on

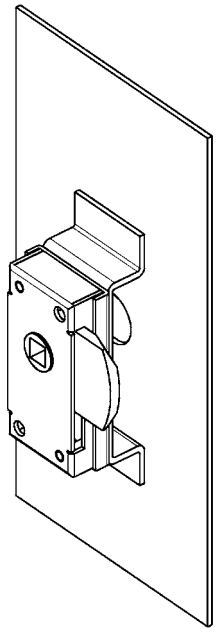


1	L-Handle	2B-160
2	T-Handle	2B-160
3	Bezel	2B-160
4	Insert	2B-160
5	Key guide	2B-160
6	Support	2B-120 up to 2B-140, 2B-180
7	Rod control	2B-120 up to 2B-140, 2B-180
8	Rod	
9	Rod support	
10	Rod guide	
11	Door	
12	Cabinet/frame	

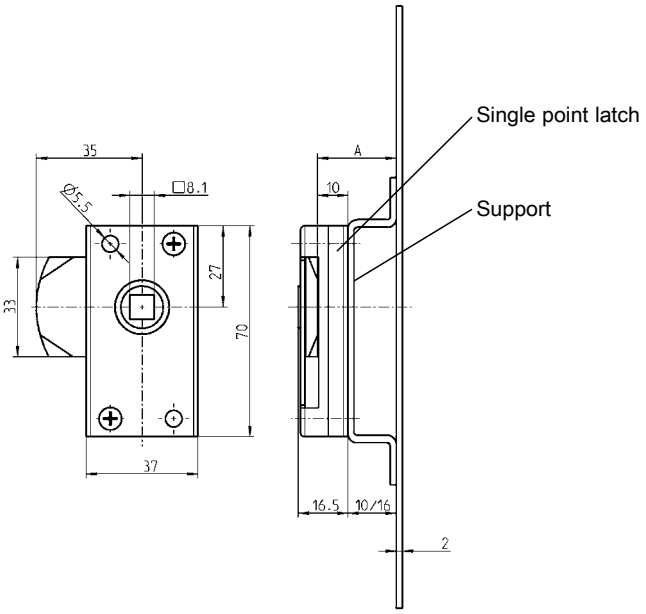
One / Two point latch and hooked latch

PROGRAM WELD ON

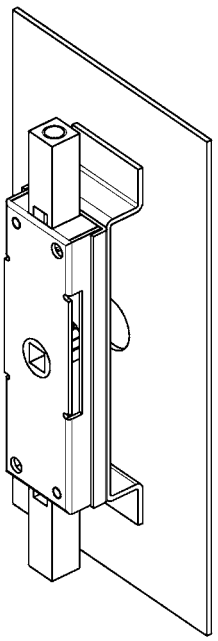
One point latch



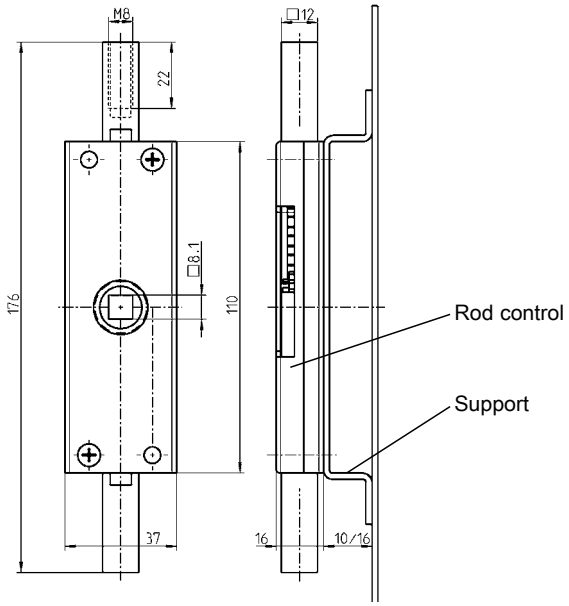
90° Turn



Two point latch for screw-in rod



180° turn
stroke 32 mm



One point latch m.s. zinc pl., RH and LH-version	
	1002-U1
Support m.s. raw	
A20	1002-04
A26	1002-05
Two point latch m.s. zinc pl.	
RH	1001-U19
LH	1001-U20
Support m.s. raw	
A20	1001-18
A26	1001-19

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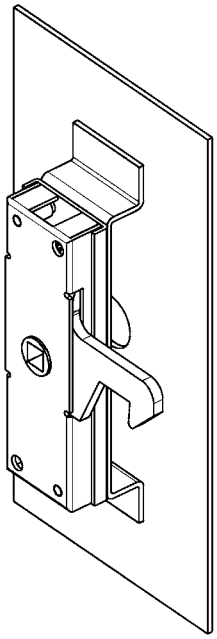
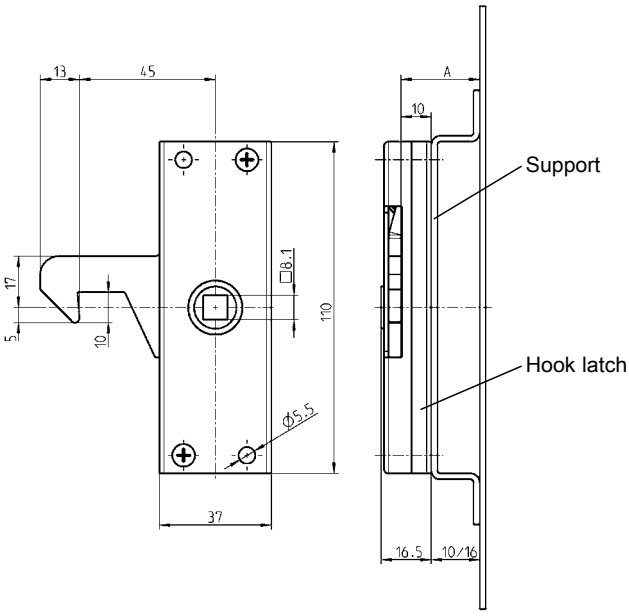
Hook latch

Hook free running
(spring loaded)





Hook latch m.s. zinc pl.	
RH	1001-U30
LH	1001-U31
Support m.s. raw	
A20	1001-18
A26	1001-19

Further parts see page

– Insert	2B-160
– T-Handle	2B-160
– L-Handle	2B-160
– Ring-handle	2B-190
– Rod	1C-620
– Adapter system for insulated doors	2A-180

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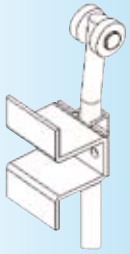
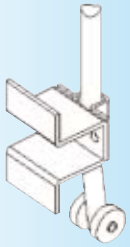
Rod control

PROGRAM WELD ON

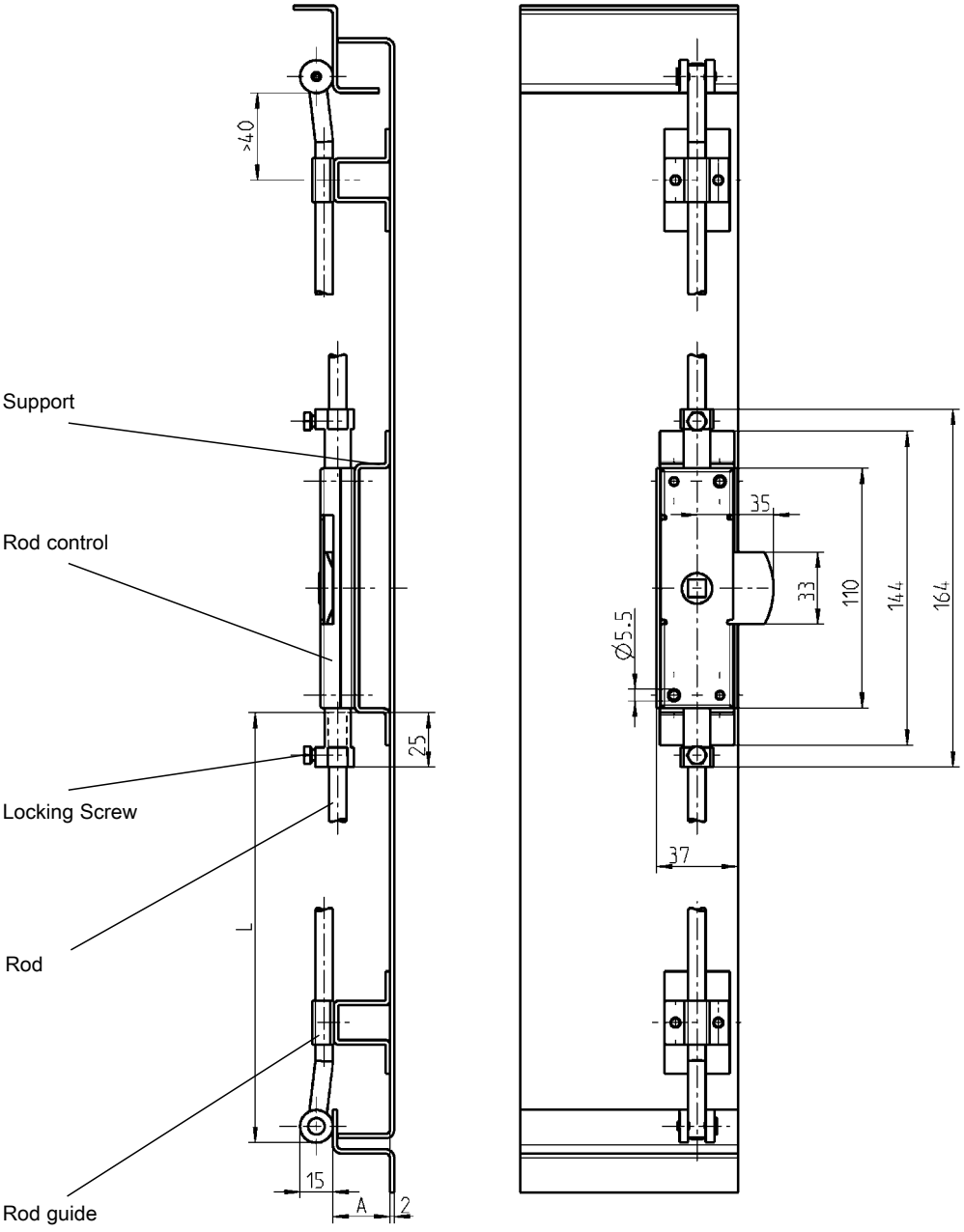
R L RL





3 point latch for round rods, fixed with screw
Stroke 13 or 18 mm

90° Turn



Latch without insert can be operated with a male square key during assembly, see page 12B-120

Further parts see page

– Insert, bezel	2B-160
– L-Handle	2B-160
– T-Handle	2B-160
– Ring-handle	2B-190
– Rod	1C-620

Program 1107

– Swinghandle	3A-220

Latch m.s. zinc plated	Stroke 13	Stroke 18
RH	1049-U1	1049-U19
LH	1049-U2	1049-U20
Support m.s. raw	**A20**	**A26**
	1001-18	1001-19

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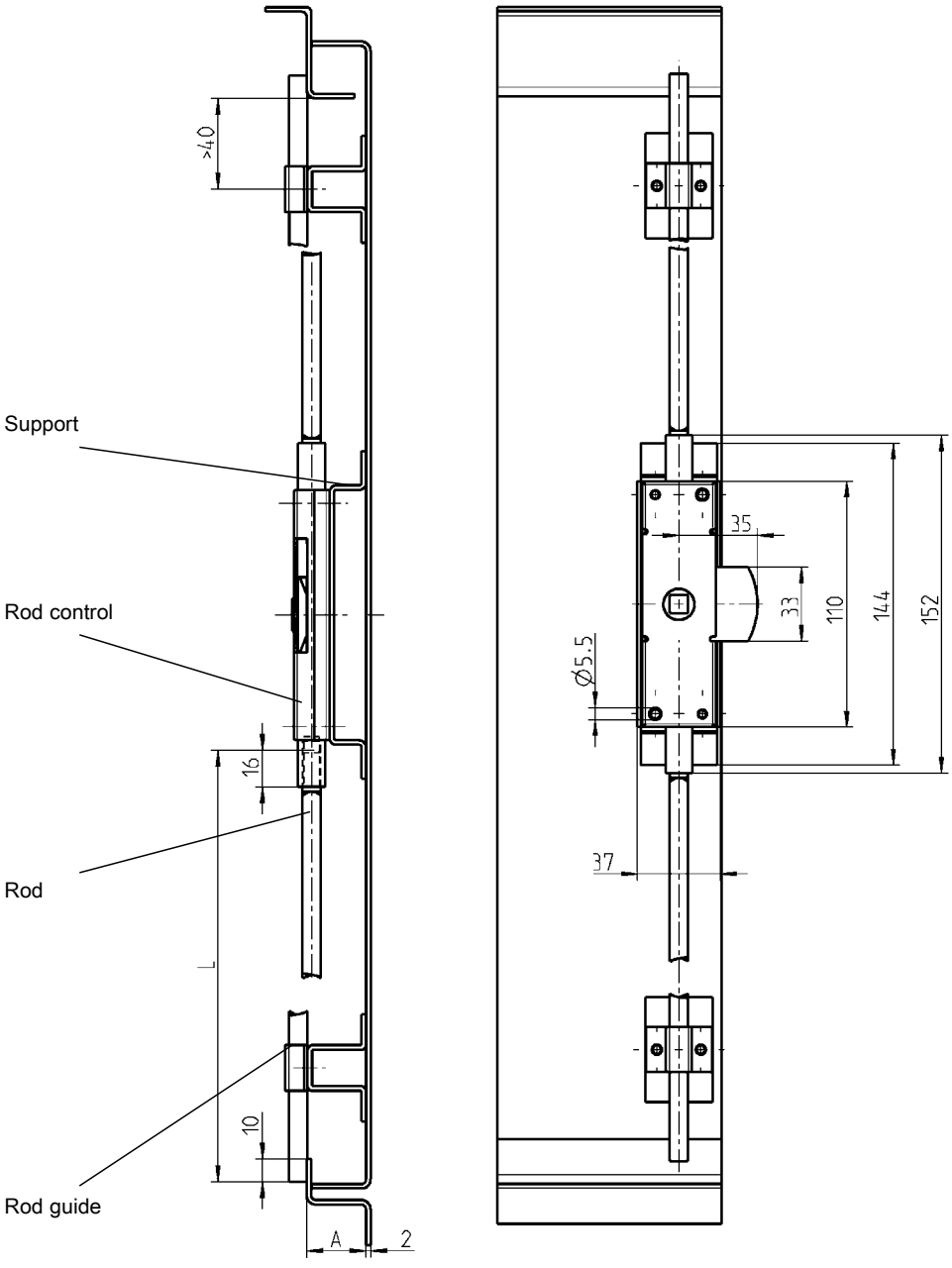
Rod control

PROGRAM WELD ON

3 point latch for round rods.
Stroke 13 mm

90° Turn



Latch without insert can be operated with a male square key during assembly, see page 12B-120

Latch m.s. zinc plated		Stroke 13
RH		1001-U1
LH		1001-U2
Support m.s. raw	**A20**	**A26**
	1001-18	1001-19

Further parts see page

– Insert, bezel	2B-160
– L-Handle	2B-160
– T-Handle	2B-160
– Ring-handle	2B-190
– Rod	1C-620

Program 1107

– Swinghandle	3A-220

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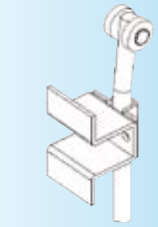
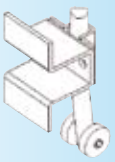
3 point latch for profile cylinder

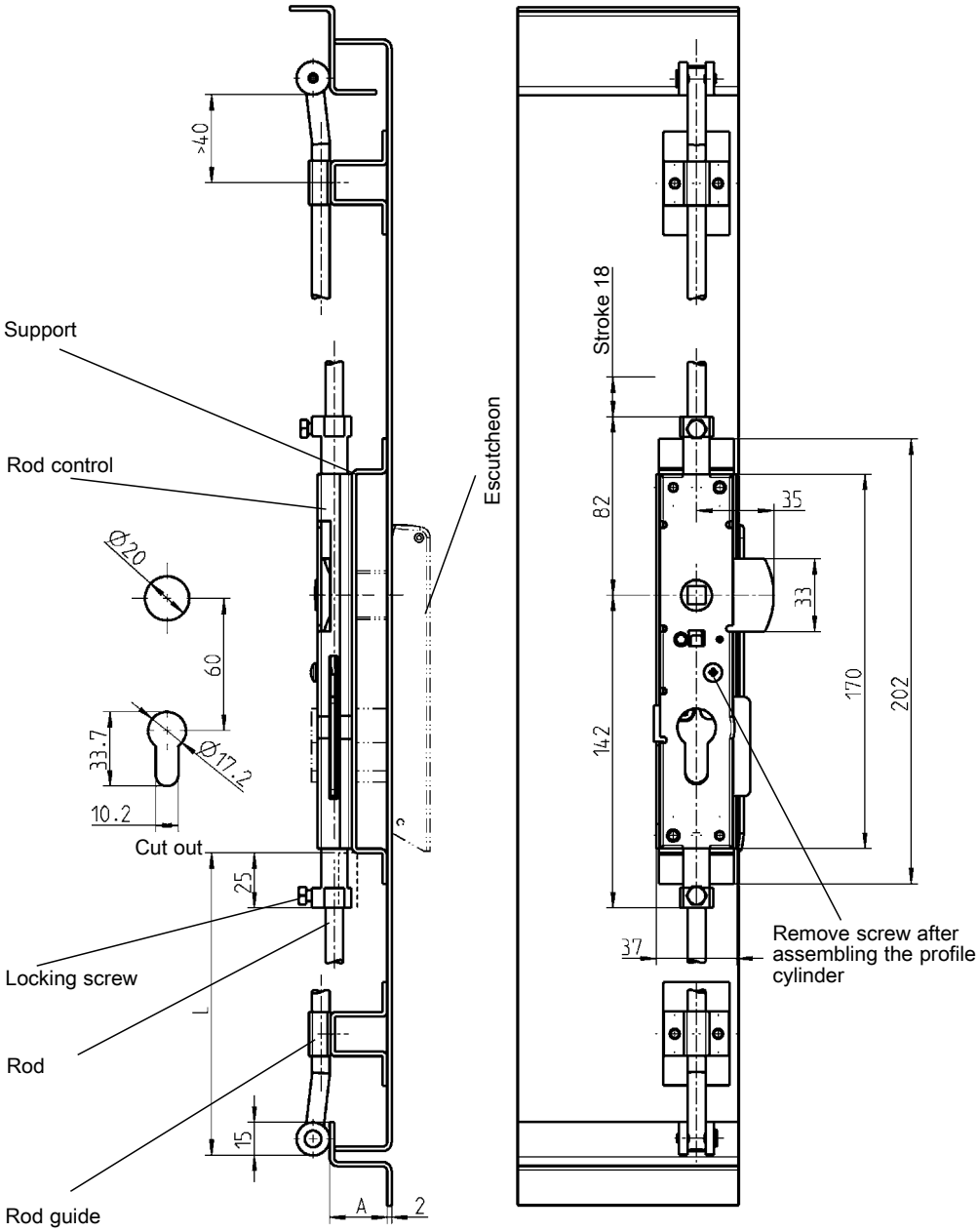
PROGRAM WELD ON

R L RL





90° Turn
Stroke 18 mm



Latch m.s. zinc plated	
RH	1068-U1
LH	1068-U2
Support m.s. raw	
A20	1017-14
A26	1017-15
Blind plug for profile cylinder cut out	
A20	1059-U1
A26	1059-U2

Further parts see page

– Insert, bezel	2B-160
– T-Handle	2B-160
– L-Handle	2B-160
– Ring-handle	2B-190
– Rod	1C-620
– Profile half cylinder	2B-220
– Escutcheon	12D-120

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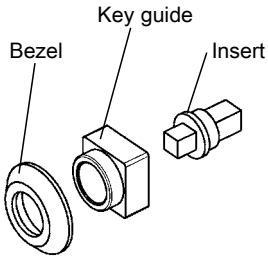
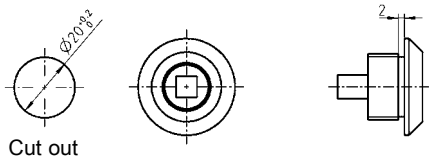
Inserts and handles

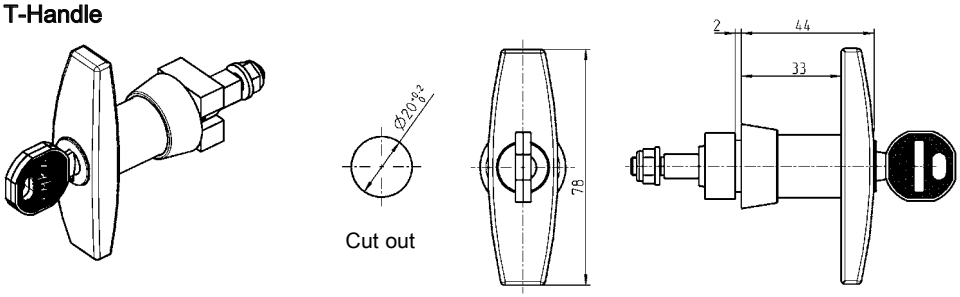
PROGRAM WELD ON

RL

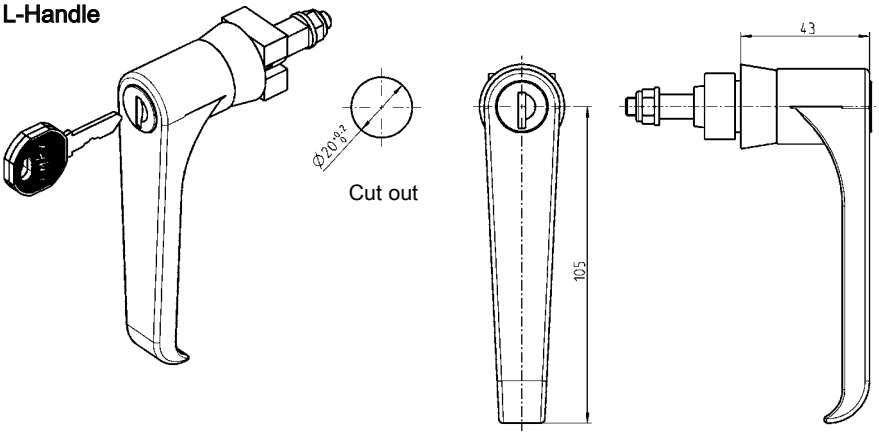


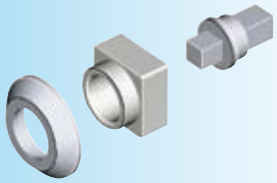


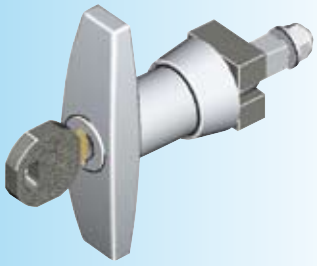
T-Handle

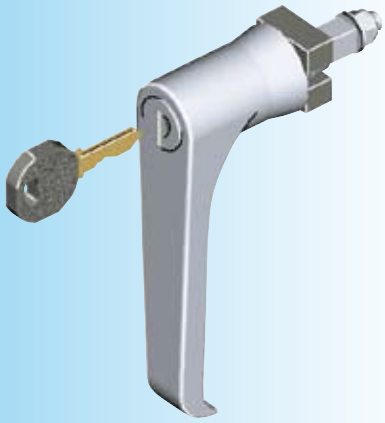


L-Handle









Insert zinc die chrome plated		
Square 7		1001-23
Square 8		1001-24
Triangular 7		1001-25
Triangular 8		1001-26
Double bit 3		1001-27
Double bit 5		1001-28
Daimler Benz		1001-34
Key guide ABS	**A20**	**A26**
Square and triangular	1001-31	1001-32
Double bit	1001-29	1001-30
Daimler Benz	1001-35	1001-36
Bezel, self-adhesive		
ABS chrome plated		1001-33
to achieve an optical look alike with quarter turn page 1B-140		

T-Handle zinc die chrome plated		
Nut m.s. zinc pl.	**A20**	**A26**
non locking	1005-U1	1005-U4
keyed EK 333	1005-U2	1005-U5
keyed different	1005-U3	1005-U6
L-Handle, zinc die chrome plated		
Nut m.s. zinc pl.	**A20**	**A26**
non locking	1044-U1	1044-U4
keyed EK 333	1044-U2	1044-U5
keyed different	1044-U3	1044-U6
Square 7	1044-U7	1044-U8
Square 8	1044-U11	1044-U12
Triangular 7	1044-U13	1044-U14
Triangular 8	1044-U15	1044-U16
Double bit 3	1044-U17	1044-U18
Double bit 5	1044-U19	1044-U20
Daimler Benz	1044-U9	1044-U10
Eastern Europe Ø 13	1044-U21	1044-U22

Note:
Spring loaded return (two handed operation)

Further parts see page

– Dust cap for T-Handle 1C-340
– Key 12B-120
– Spare key 12B-140
– Hook latch 2B-120
– Rod control 2B-130
up to 2B-140

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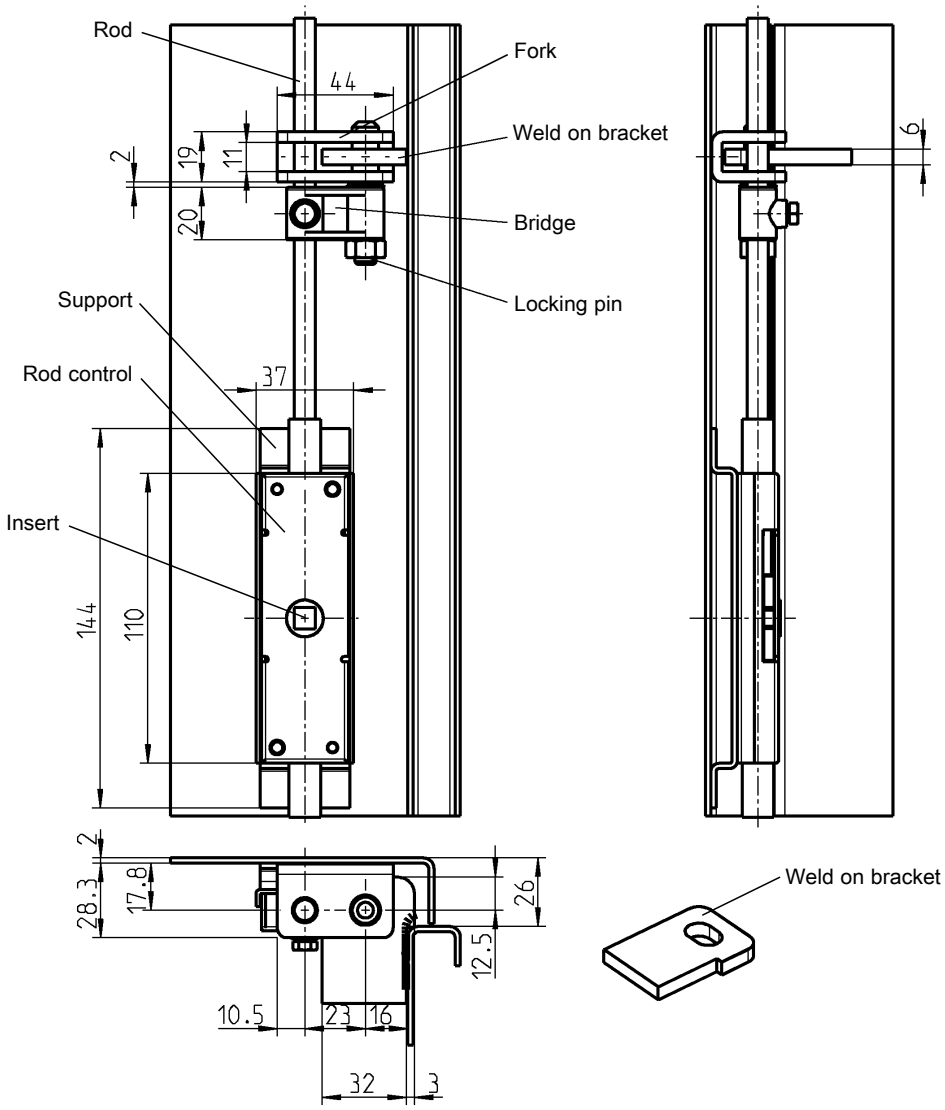
Rod control, Pressure tight system

PROGRAM WELD ON



Latch m.s. zinc plated	**Stroke 18**
RH	1001-U9
LH	1001-U10
Support m.s. raw	1001-18
Insert zinc die chrome pl.	
Double bit 5	1001-28
Key guide ABS	1001-29
Bezel ABS chrome pl.	1001-33
Rod m.s. zinc pl.	
L = 1000 mm	1092-03
Pressure tight link complete (consisting of see below)	1092-U3
Fork m.s.raw	(1092-02)
Weld on bracket m.s.raw	(1092-01)
Bridge zinc die zinc pl.	(1092-U8)
Locking stud m.s. zinc plated	(1092-U6)

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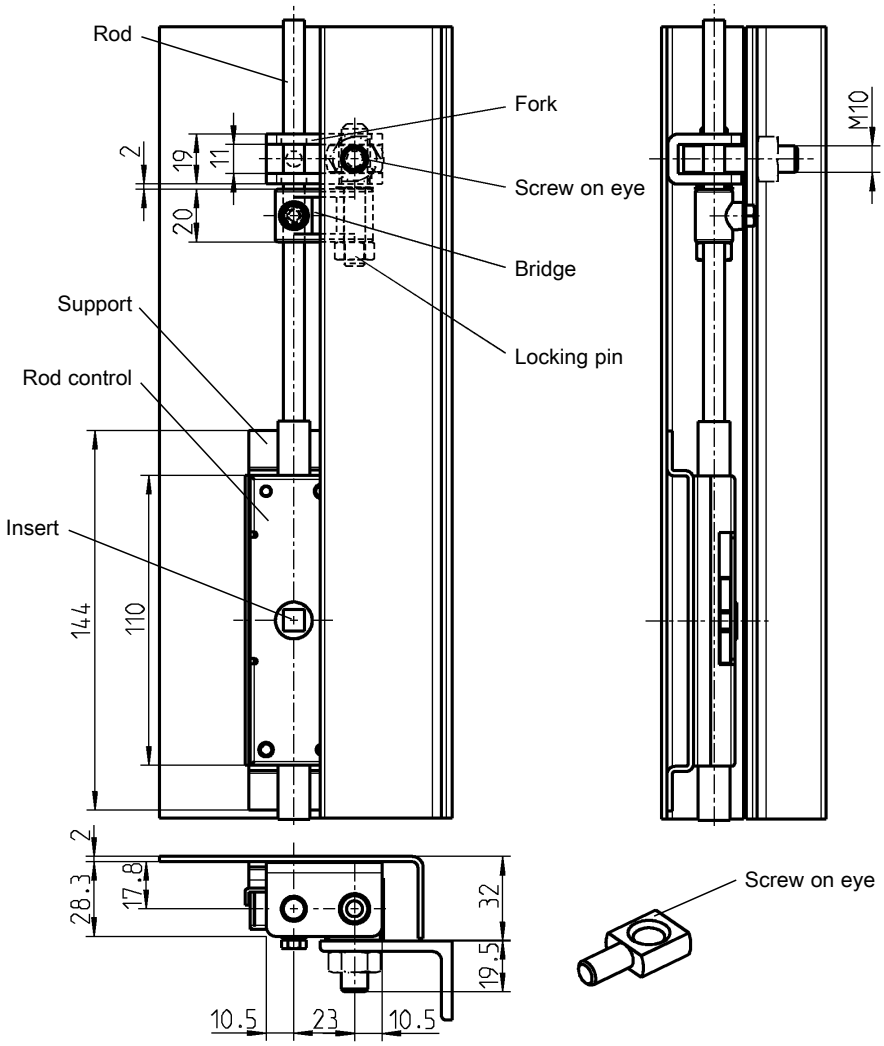

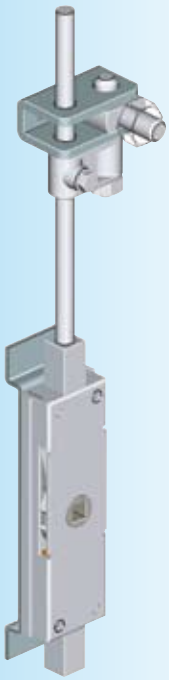

Latch m.s. zinc plated	Stroke 18
RH	1001-U9
LH	1001-U10
Support m.s. raw	1001-18
Insert zinc die chrome pl.	
Double bit 5	1001-28
Key guide ABS	1001-29
Bezel ABS chrome pl.	1001-33
Rod m.s. zinc pl.	
L = 1000 mm	1092-03
Pressure tight link complete (consisting of see below)	1092-U4
Fork m.s.raw	(1092-02)
Screw on eye m.s. zinc pl.	(1092-06)
Bridge zinc die zinc pl.	(1092-U8)
Locking stud m.s. zinc plated	(1092-U6)

Individual parts on reques

Further parts see page

– 90° rod pivot 2B-190
– Screw-on hinge 4A-260

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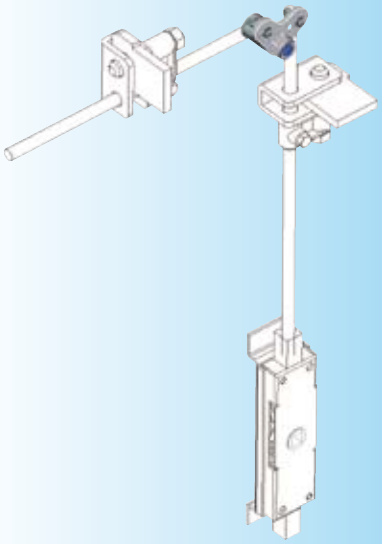
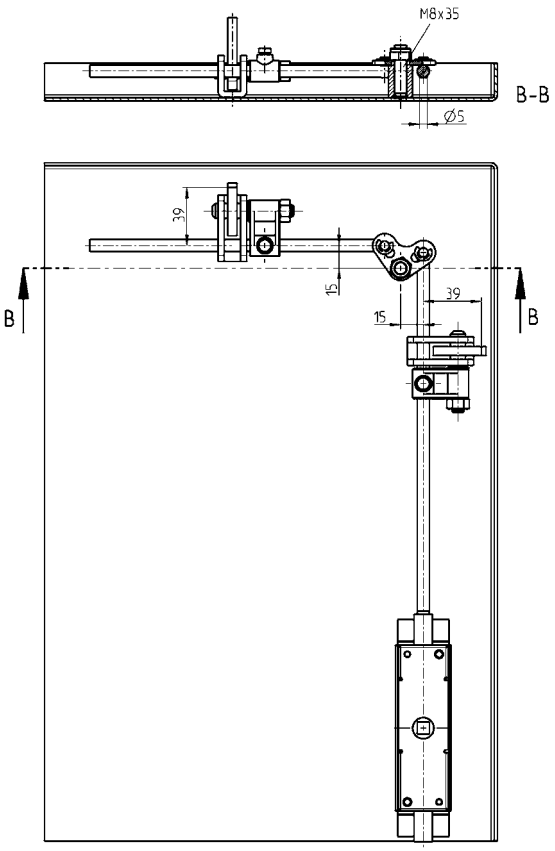
90° rod pivot , Ring-handle

PROGRAM WELD ON

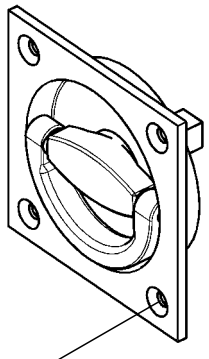


Pressure tight system, 90° rod pivoting

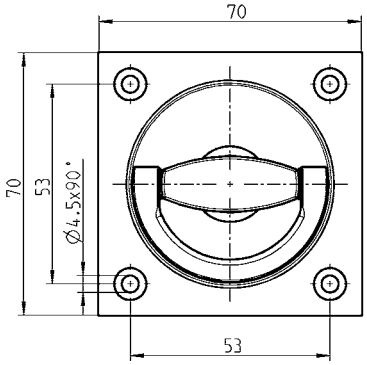


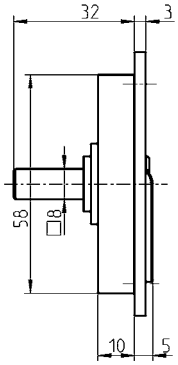
Pivot segment brass nickel pl., bearing bush and adapter m.s. raw, safety nut M8 and 2 circlips DIN 6799 m.s. zinc pl.	1092-U7

Ring-handle



For countersunk small head M4 DIN ISO 2009, 2010, 7046-1, 7046-2, 7047





Ring-handle zinc die silver powder coated	1098-U1

Further parts see page
– Rod control 2B-120
2B-130
2B-135
2B-140

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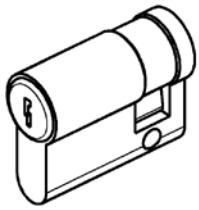
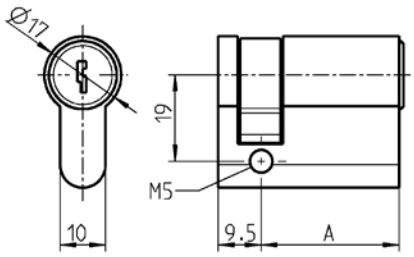
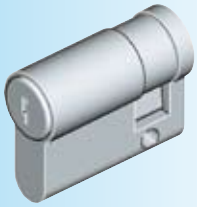
Profile half cylinder

PROGRAM UNIVERSAL

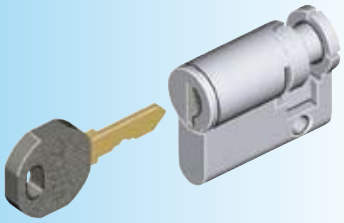
Profile half cylinder to DIN 18 252 (EN 1303)



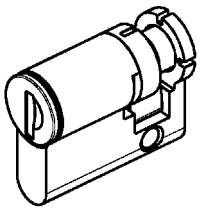




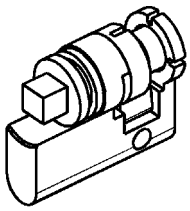
Profile half cylinder according to DIN 10 252 brass nickel pl. with 3 keys		
keyed different	A = 30	1089-U1
keyed 110319 N	A = 30	1089-U2
keyed different	A = 40	1089-U3
keyed 110319 N	A = 40	1089-U4
(Master key system on request)		

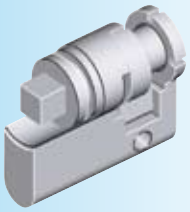


EMKA Profile half cylinder with round cylinder, rotates 360°

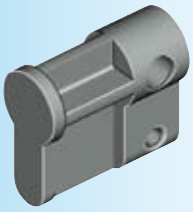


EMKA Profile half cylinder with inserts, rotates 360°

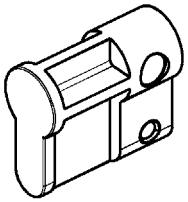


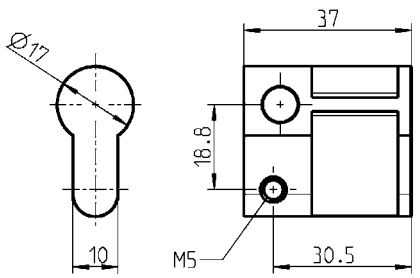


EMKA profile half cylinders with round cylinder zinc die with stainles steel cap and shutter with one silver steel key with polyamide grip black, rotates 360°.	
keyed different or keyed EK 333	on request
EMKA profile half cylinder with insert zinc die chrome pl., rotates 360°.	
Insert, e.g. square, triangular, double bit, slotted and more	on request



Blind plug





Blind plug polyamide GF black	
	1109-09-AA

Blind plug for rod locking system program 1068	A20	A26
(illustration shown on bottom right of this page)	1059-U1	1059-U2

Further parts see page
– Key 12B-120
– Spare key 12B-140
– Rod control 2A-120
2B-140

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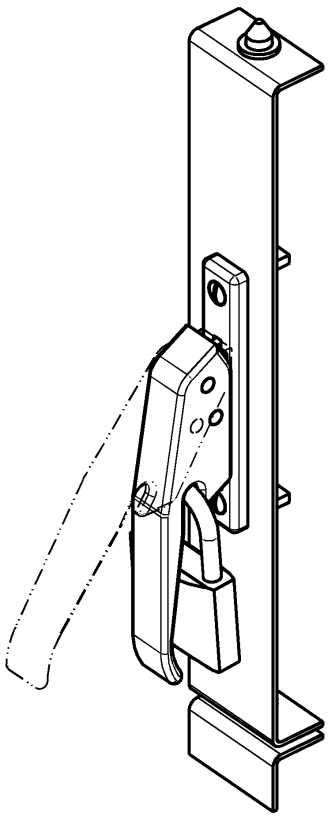
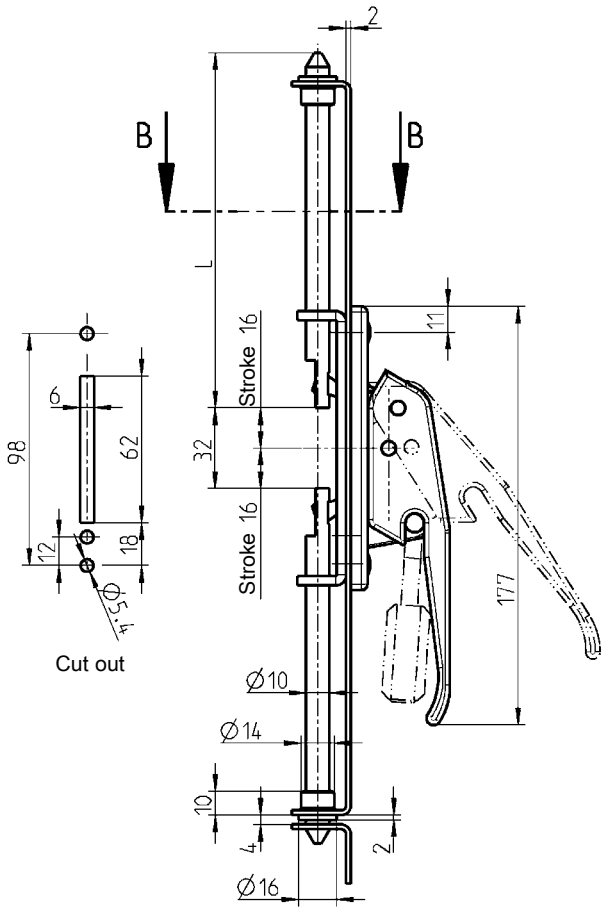
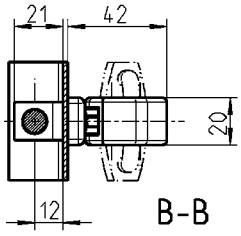
Notes:

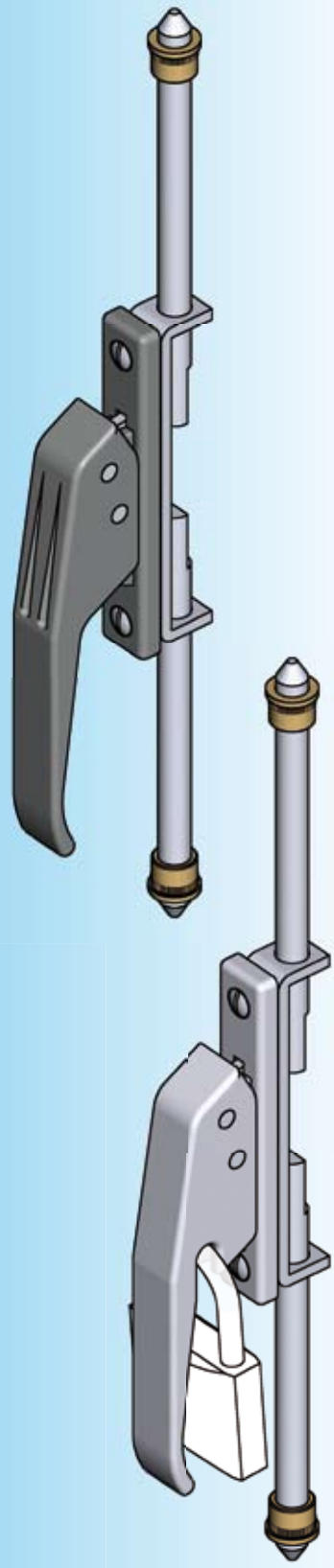
Lever locking system

PROGRAM 1099









Lever version of choice, guiding bracket m.s. zinc plated guiding bushes brass nickel plated, screws m.s. zinc plated	
Lever zinc die silver powder coated	1099-U1
Lever polyamide black	1099-U4
Lever for padlock zinc die silver powder coated	1099-U6
Rod m.s. zinc pl.	
L = 1100 mm	1099-03
Other lengths on request	

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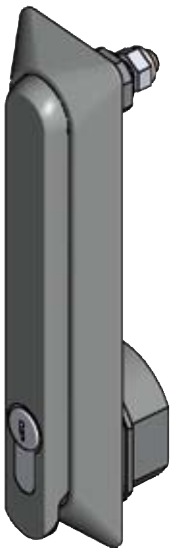
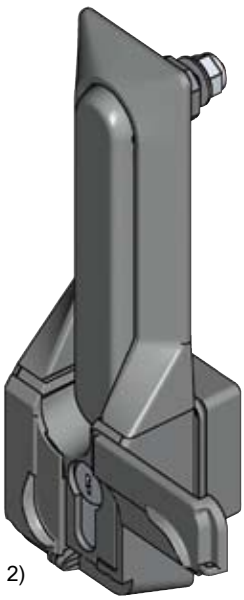
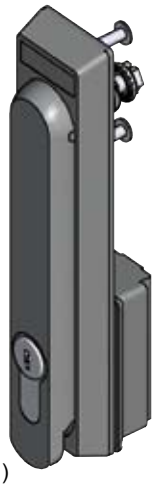
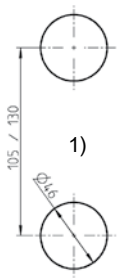
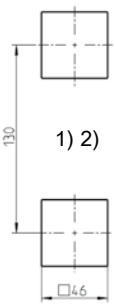
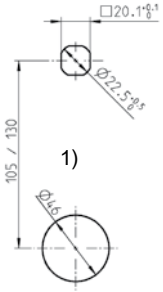
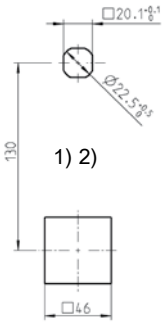
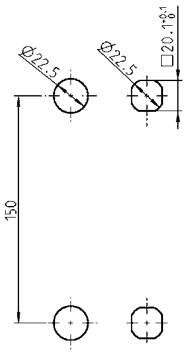
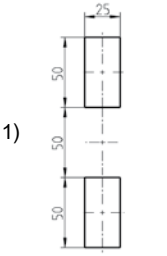
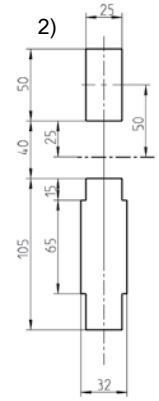
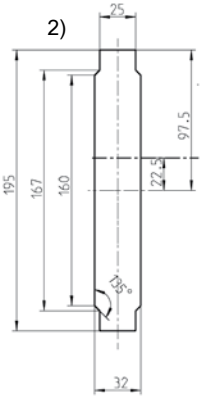
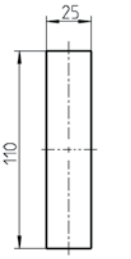
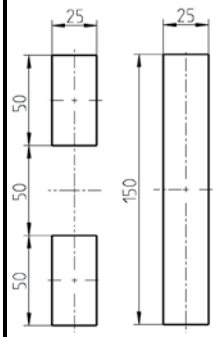
Swinghandles, lift handles and escutcheons, Part 1

1107	1107	1107	1125	1125	1150
Swinghandle	Double cylinder-swinghandle	Swinghandle	Swinghandle	Double cylinder-swinghandle	Swinghandle 1150
3A-100	3A-100	3A-100	3B-100	3B-100	3C-100
 1)	 2)		 1)	2)	
 1)  1) 2)	 1)  1) 2)		 1)  2)	 2)	 
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			●		●
IP 65	IP 65	IP 40	IP 40/IP 65	IP 65	IP 65
		●	●		●
		●	●		●
●	●	●	●	●	
		●			
●		●	●		●
		●			
●	●		●	●	●
●		●			●
			●		●
			●		
			●		

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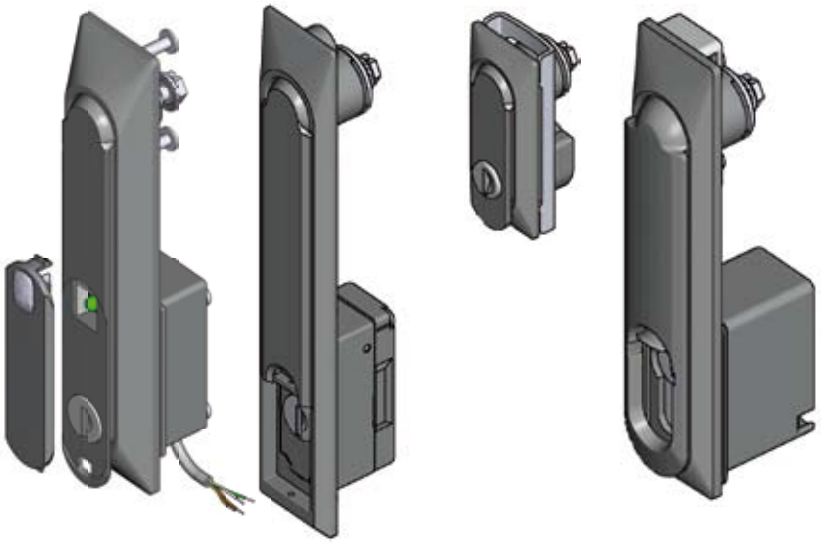
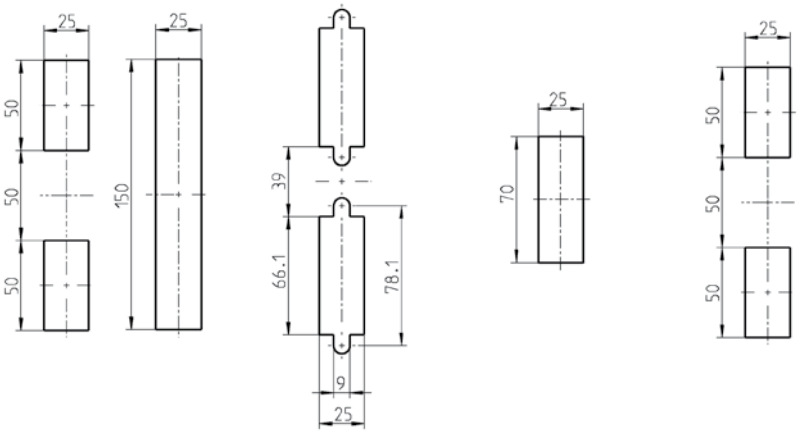
1150	1150	1150	1150	
Swinghandle 1150	Swinghandle 1151	Swinghandle 1152	Swinghandle 1153	
3C-100	3C-100	3C-100	3C-100	see page



Please see next page for second part. Survey of further products.



●	●	●	●	Assembling inside the gasketing
●	●			Outside the gasketing
IP 40	IP 54/IP 65	IP 40/IP 65	IP 65	Protection: IP
	●			Unlocked with insert
Emergency opening	●	●		Unlocked with round cylinder
	●		●	Unlocked with profile half cylinder
●	●			Unlocked electronically
	●	●	●	Unlocked without key
	●			Modular locking
		●		Handle and escutcheon polyamide
				Handle zinc die and escutcheon polyamide
●	●	●	●	Handle and escutcheon zinc die
				Handle and escutcheon stainless steel
				Fitting escutcheons

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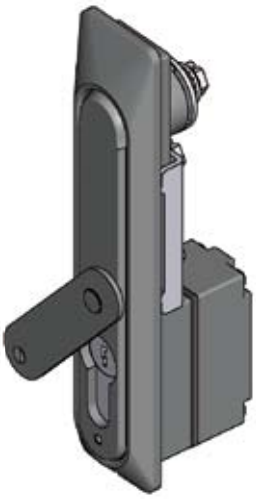
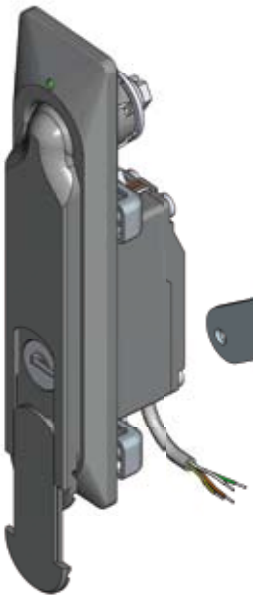
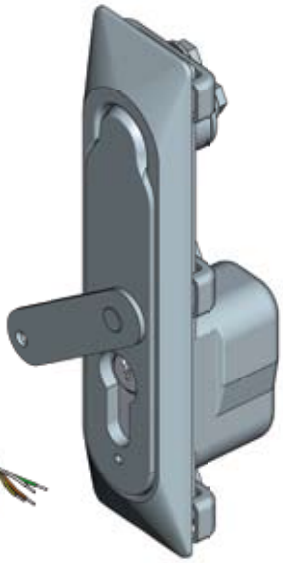
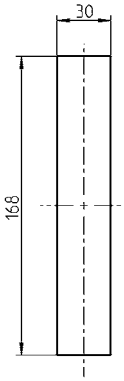
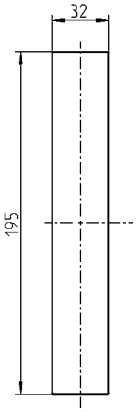
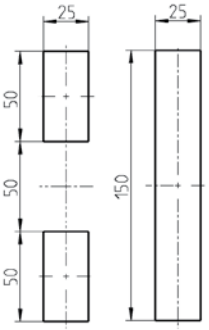
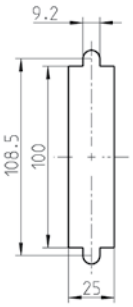
Swinghandles, lift handles, and escutcheons, part 2

1150	1150	1150	1150	1150	1160
Swinghandle 1154	Swinghandle 1154	Swinghandle 1154	Swinghandle 1154	Swinghandle 1155	Swinghandle
3C-100	3C-100	3C-100	3C-100	3C-100	3D-100
					
					
●	●	●	●	●	●
				●	●
IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
					●
	●			●	●
●		●	●		
	●		●		
●				Combination lock	●
				●	
					●
●	●		●		●
●		●			
					●

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1180	1180	1180	1190	1190	
Swinghandle 1180	Swinghandle 1185	Swinghandle 1185	Lifthandle	Lifthandle	
3E-100	3E-100	3F-100	3F-100	3F-100	see page

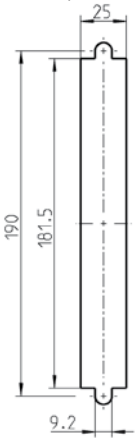
1)

2)

Please see next page for second part. Survey of further products.

Please see previous page for first part. Survey of further products.

1)



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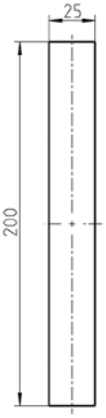

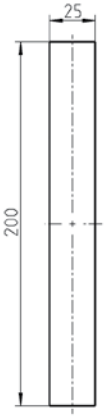

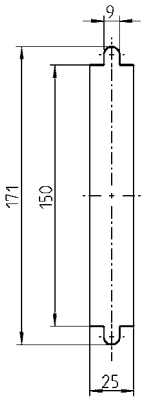

●	●	●			Assembling inside the gasketing
●	●	●	●	●	Outside the gasketing
IP 54	IP 54	IP 65	IP 40	IP 40	Protection: IP
●	●		●	●	Unlocked with insert
●	●	●	●	●	Unlocked with round cylinder
●	●		●		Unlocked with profile half cylinder
●	●		●		Unlocked electronically
●	●	●	●		Unlocked without key
●	●		●		Modular locking
	●		●	●	Handle and escutcheon polyamide
●					Handle zinc die and escutcheon polyamide
		●			Handle and escutcheon zinc die
					Handle and escutcheon stainless steel
●			●		Fitting escutcheons

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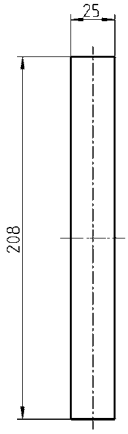
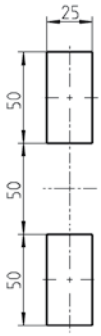
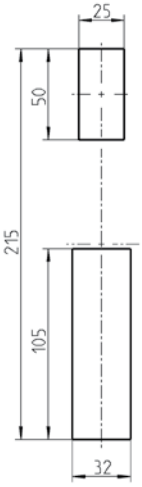
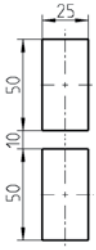
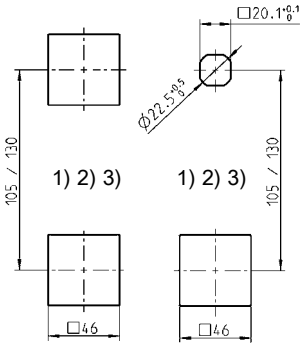
Swing handle, lift handle, and escutcheon, part 3

1190	1225	1225	1225	1317	1317
Lift handle	Swing handle	Double cylinder swing handle	Swing handle	Swing handle	Double cylinder swing handle
3F-100	3G-100	3G-100	3G-100	3AB-100	3AB-100
				1)	2)
					
	●	●	●	●	●
●	●				
IP 40	IP 40/IP 65	IP 65	IP 65	IP 65	IP 65
	●				
	●		●		
●	●	●		●	●
				●	
	●				
●	●		●		●
	●				
		●		●	●
	●				

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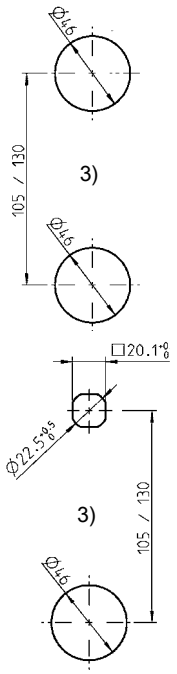
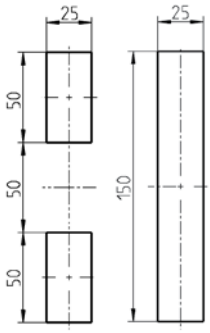
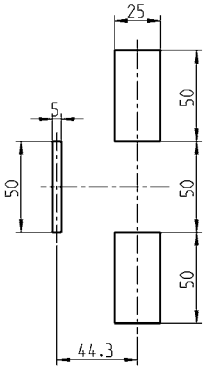
1317	1325	1325	
Swing handle	Swing handle	Swing handle	
3AB-100	3BA-100	3BA-100	see page
3)			Please see next page for second part. Overview of further products.
			Please see previous page for first part. Overview of further products.
●	●	●	inside the gasketing
	●	●	outside the gasketing
IP 65	IP 40/IP 65	IP 65	IP rating
●	●	●	Unlocked with insert
●	●	●	Unlocked with round cylinder
●	●	●	Unlocked with profile half cylinder
			Unlocked electronically
●	●	●	Unlocked without key
●	●	●	Modular technology
●	●	●	Handle and dish polyamide
			Handle zinc die and dish polyamide
			Handle and dish zinc die
			Handle and dish stainless steel
	●		fitting escutcheons

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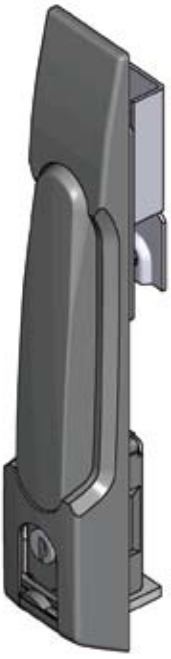
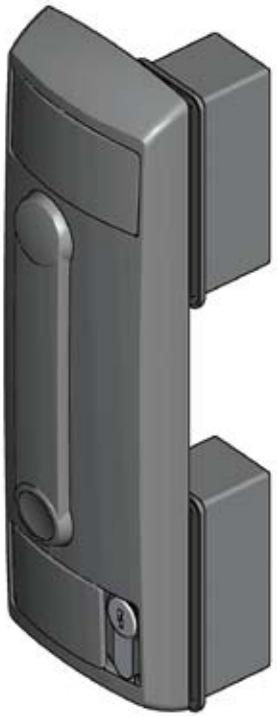
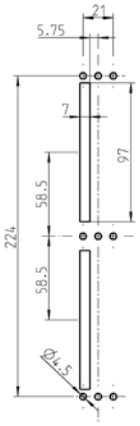
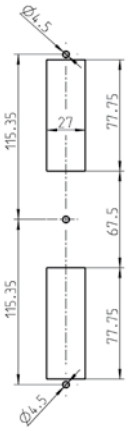
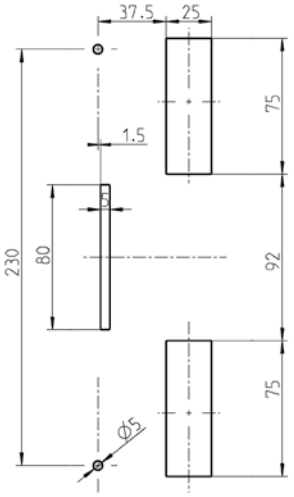
Swing handle, lift handle and escutcheon, part 4

2100	2300	2400	2400	2600
Swing handle	Escutcheon	Swing handle	Swing handle	Swing handle
3H-100	3J-100	3K-100	3K-100	3L-100
				
				
●	●			
●	●	●	●	●
IP 54	IP 40	IP 40	IP 40	IP 54
●	●	●	●	●
●	●	●	●	●
●		●	●	●
●			●	
●		●	●	●
●		●	●	●
	●	●	●	●
●				
●				

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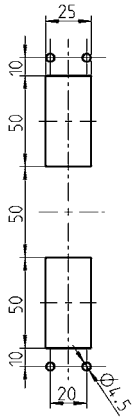
3000
Swing handle

3N-100



see page

Please see previous page for first part. Overview of further products.

●	inside the gasketing
●	outside the gasketing
IP 42	IP rating
	Unlocked with insert
	Unlocked with round cylinder
	Unlocked with profile half cylinder
●	Unlocked electronically
	Unlocked without key
	Modular technology
	Handle and dish polyamide
●	Handle zinc die and dish polyamide
	Handle and dish zinc die
	Handle and dish stainless steel
	Fitting escutcheons

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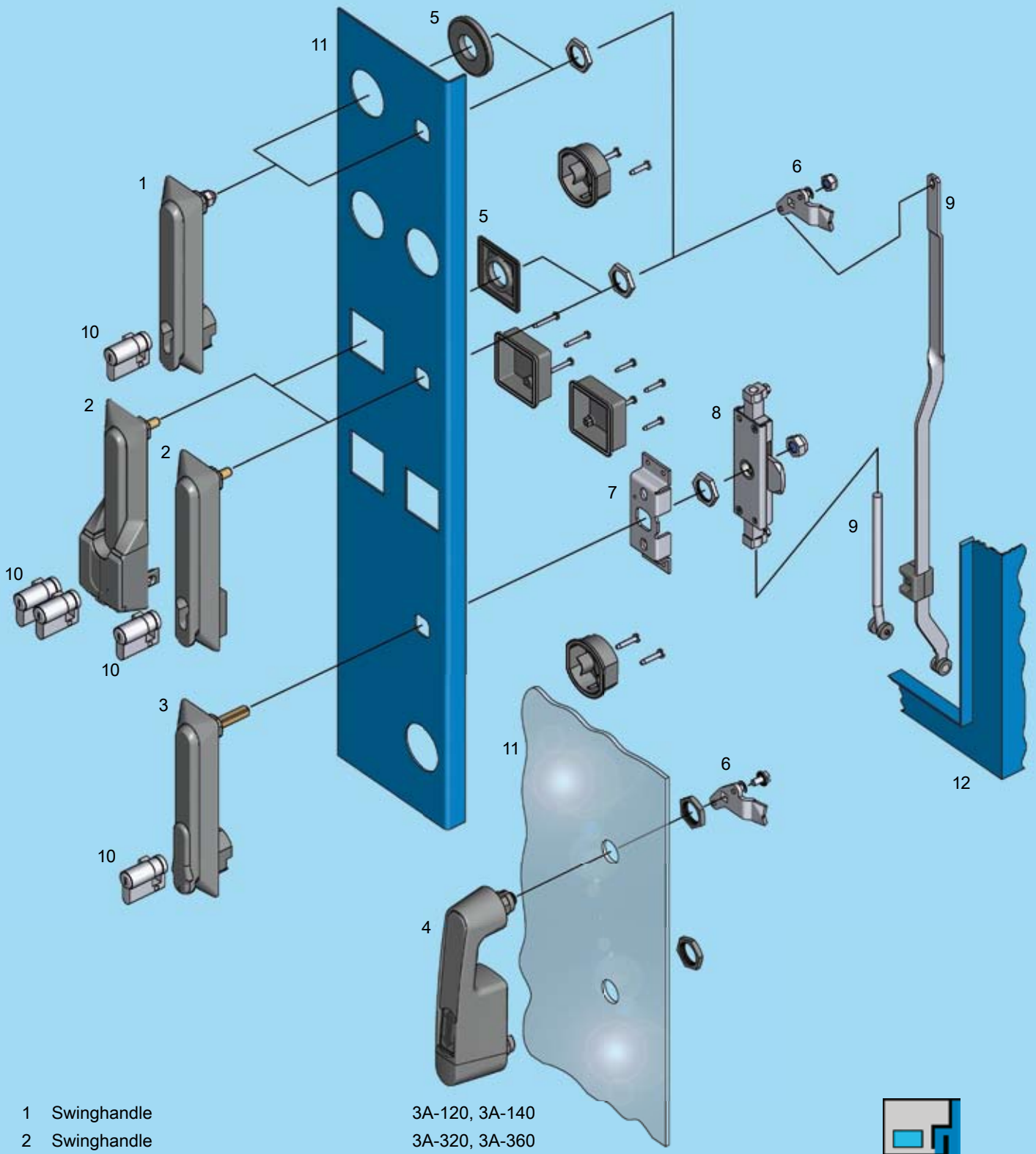
Beschlagteile

Notes:

Swinghandle
Program 1107



1	Swinghandle	3A-120, 3A-140
2	Swinghandle	3A-320, 3A-360
3	Swinghandle	3A-220
4	Swinghandle	3A-420
5	Adapter ring, plate	
6	Cam	
7	Support	
8	Rod control	
9	Rod	
10	Profile half cylinder	
11	Door or glas door	
12	Cabinet/frame	

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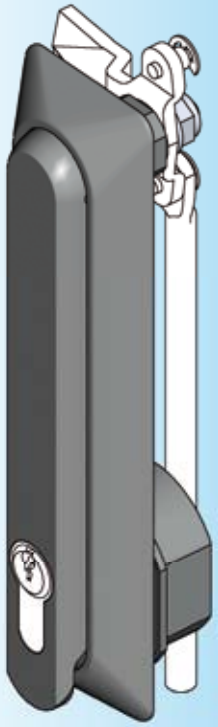
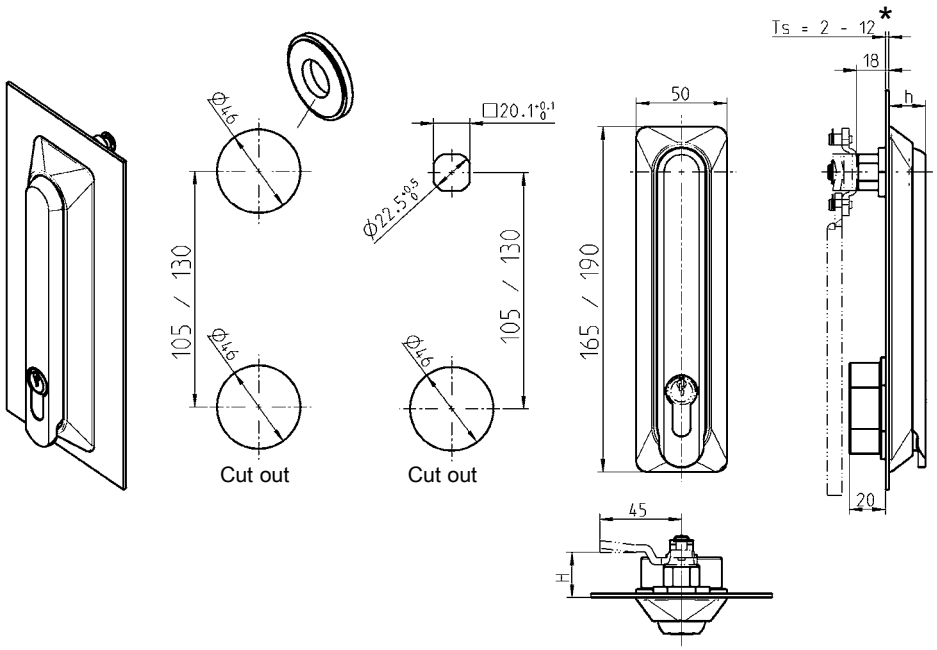
Swinghandle
PROGRAM 1107



Version A Version B



Attention:
With adapter the maximum door gauge (TS) will be 6 mm

Note:
If door gauge (Ts) > 4 mm standard round rods cannot be used!

Swing handle “long” or “short” hande polyamide GF black; dish polyamide GF VO black;shaft brass; cylinder cover polyamide GF black; Fixing material m.s. zinc plated; with seal	
Swing handle “long” (190) without cylinder cover	
for 40 mm profile half cylinder (h = 20 mm)	1107-U1-G
Swing handle “long” (190) with cylinder cover sealable	
for 40 mm profile half cylinder (h = 20 mm)	1107-U2-G
for 40 mm profile half cylinder (h=20 mm) (handle zinc die black powder coated)	1107-U102-G
for 45 mm profile half cylinder (h=25 mm)	1107-U32-G
Swing handle “short” (165) without cylinder cover	
for 40 mm profile half cylinder (h=20 mm)	1107-U158-G
Swing handle “short” (165) with cylinder cover sealable	
for 40 mm profile half cylinder (h=20 mm)	1107-U159-G
for 45 mm Profile half cylinder (h=25 mm)	1107-U169-G
Adapter polyamide GF black required for cut out version A	
	1107-53
* Order screw set separately if Ts = 4-12 mm	1107-U170

Further parts see page
– Cam 3YC-120
– Rod control for cam 3YC-180
– Profile half cylinder 3XB-120

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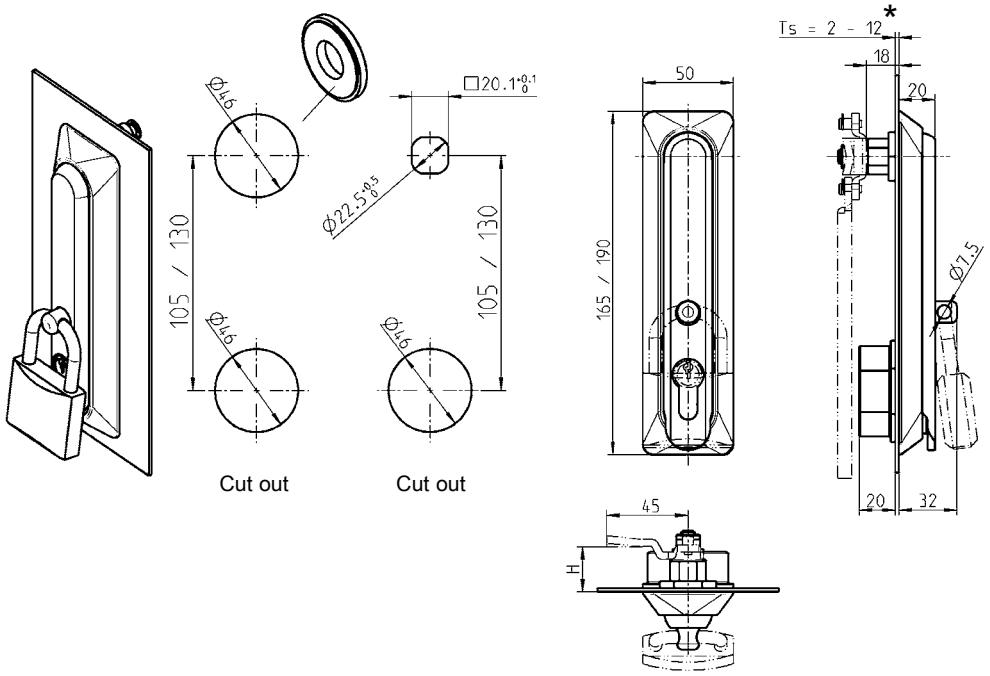
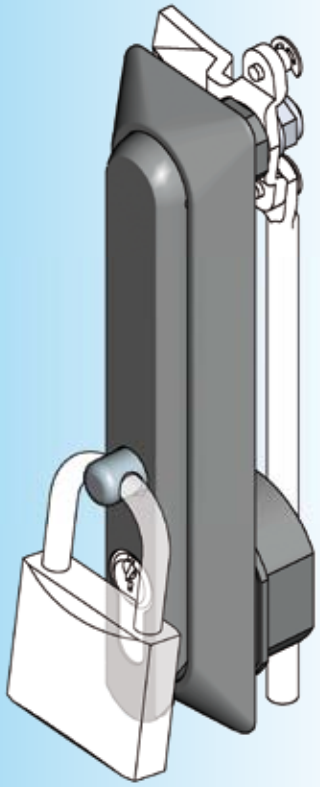
Swinghandle for padlock

PROGRAM 1107

RL IP 65

Version A **Version B**





Attention:
With adapter the maximum door gauge (TS) will be 6 mm

Note:
If door gauge (Ts) > 4 mm standard round rods cannot be used!

Swing handle "long" or "short" handle polyamide GF black; dish polyamide GF V0 black; shaft brass; padlock shackle AISI 303;fixing material m.s. zinc plated; with seal	
Swing handle "long" (190)	
for 40 mm profile half cylinder	1107-U96-G
Swing handle "short" (165)	
for 40 mm profile half cylinder	1107-U164-G
Adapter polyamide GF black required for cut out version A	
	1107-53
* Order screw set separately if Ts = 4-12 mm	1107-U170

Further parts see page
– Cam 3YC-120
– Rod control for cam 3YC-180
– Profile half cylinder 3XB-120

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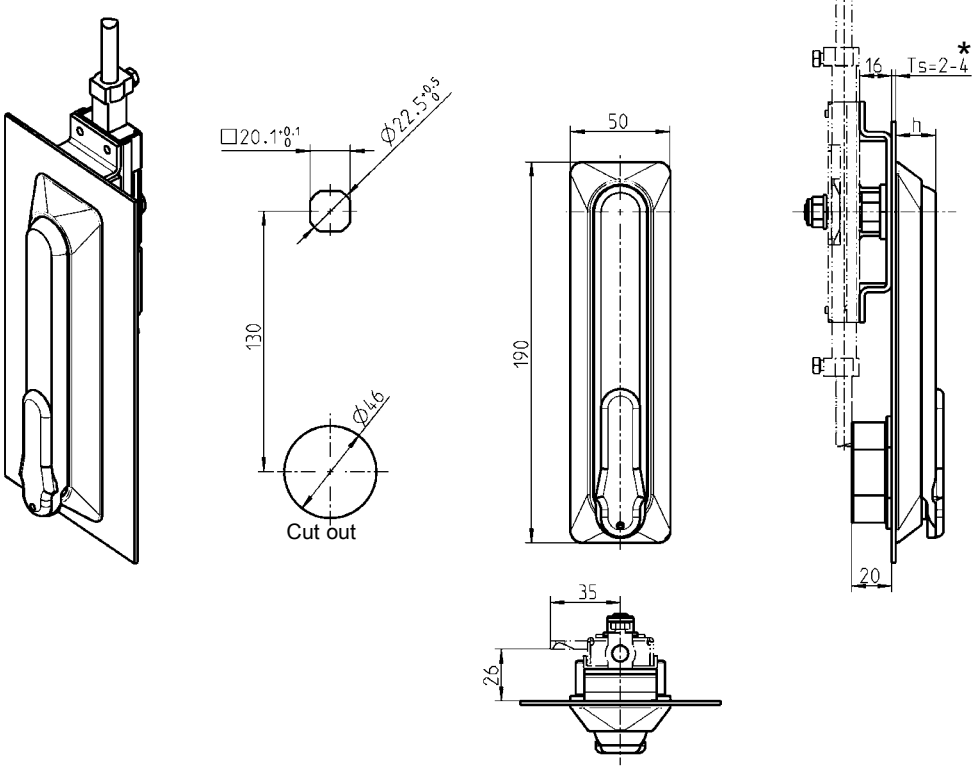
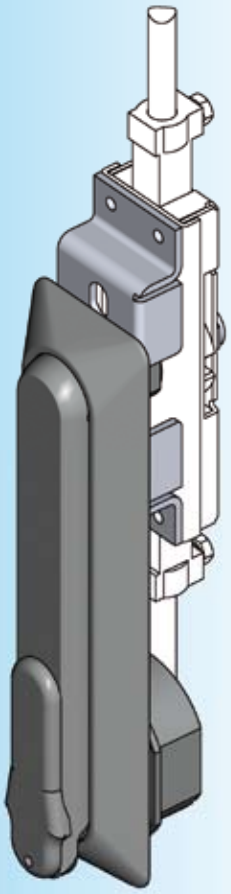
Notes:

Swinghandle

PROGRAM 1107





Handle material as requested; dish polyamide GF V0 black; cylinder cover sealable polyamide GF black; shaft brass; fixing material m.s. zinc plated; with seal; for 40 mm profile half cylinder (h=20 mm)	
Handle polyamide GF black	1107-U14-G
Handle zinc die black p.c.	1107-U104-G
Support m.s. zinc plated	
RH and LH version	1001-50

* Ts > 4-11 on request

Further parts see page
– Rod control 2B-130, 2B-135
– Profile half cylinder 3XB-120

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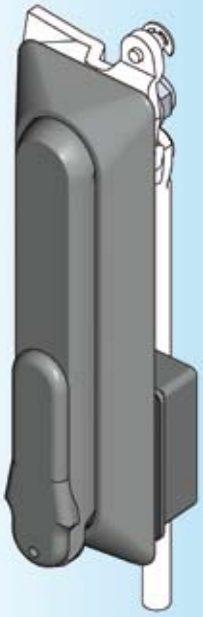
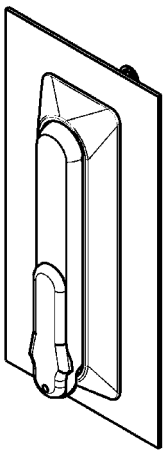
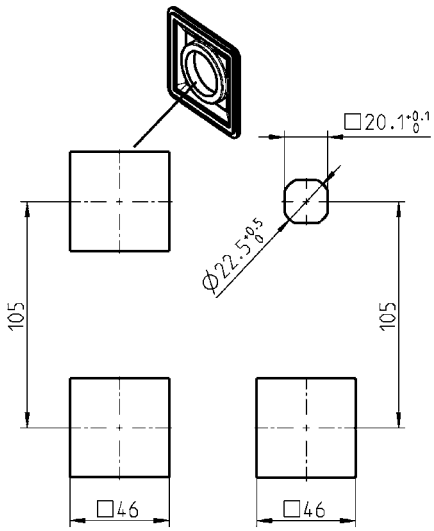
Swing handle
PROGRAM 1107

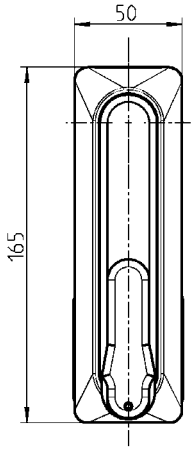


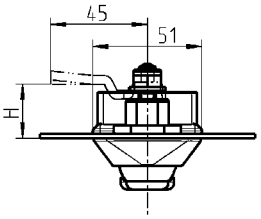


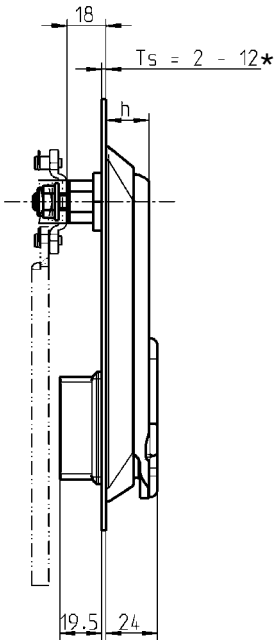
Version A Version B



Cut out Cut out







Attention:
When using the adapter ring, the max. door thickness (Ts) is 6 mm

Note:
If door thickness (Ts) > 6 mm, the use of standard round rods will not be possible!

Swing handle polyamide GF black; dish polyamide GF V0 black; cylinder cover sealable polyamide GF black; shaft brass; fixing material m.s. zinc plated; with seal	
for 40 mm profile half cylinder (h = 20 mm)	1107-U249-G
for 45 mm Profile half cylinder (h = 25 mm)	1107-U250-G
Adapter plate polyamide GF black required for cut out type A	
	1107-53-01
* screw set for Ts = 4 to 12 mm to be ordered separately	1107-U170

Further parts see page
– Cam 3YC-120
– Rod control for cam 3YC-180
– Profile half cylinder 3XB-120

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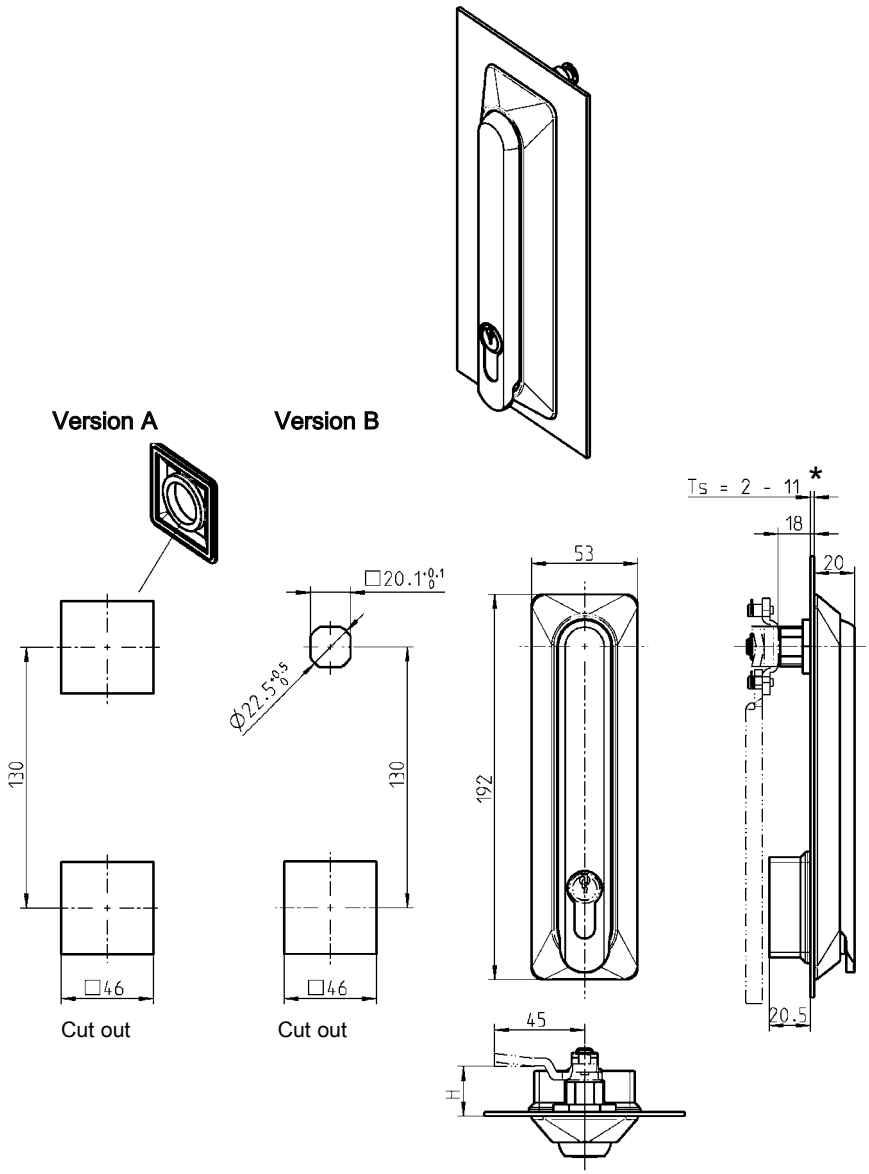
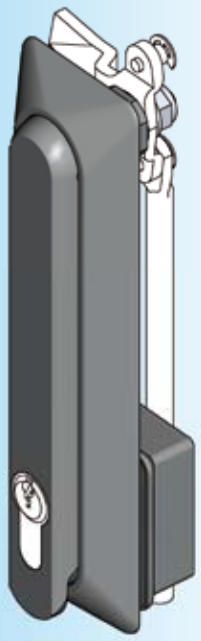
Swing handle

PROGRAM 1107





Attention:
When using the adapter ring, the max.door thickness (Ts)is 6 mm

Note:
If door thickness (Ts) > 4 mm the use of standard round rods will not be possible!

Further types on request
Swing handle with
– Cylinder cover sealable
– Handle zinc die black powder coated

Swing handle for
– Padlock
– Profile half cylinder 45

* Ts > 4 to 11 mm on request

Swing handle polyamide GF black, shaft brass, fixing material m.s. zinc plated, with seal	
for 40 mm Profile half cylinder, Ts = 2 to 4 mm	1107-U21
Adapter plate polyamide GF black for cut out required for type A	
	1107-53-01
Seal for adapter ring	1107-61-02VB

Further parts see page
– Cams 3YC-120
– Rod control for cam 3YC-180
– Profile half cylinder 3XB-120

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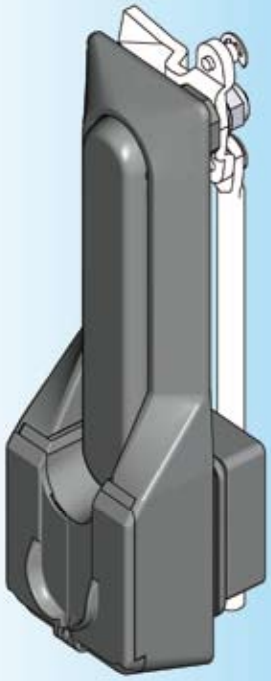
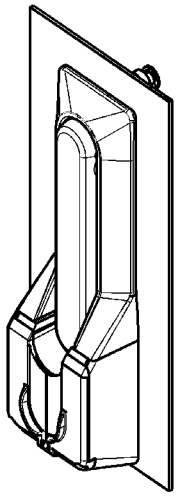
Double cylinder-swinghandle

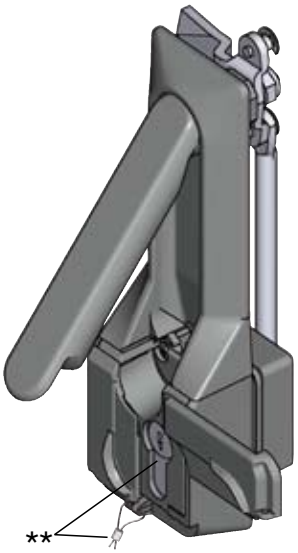
PROGRAM 1107

RL IP 65

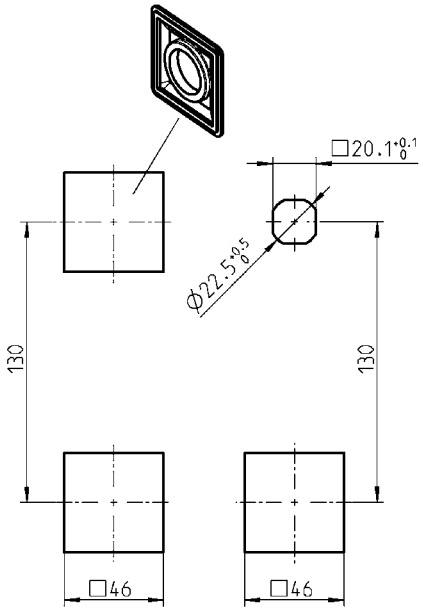


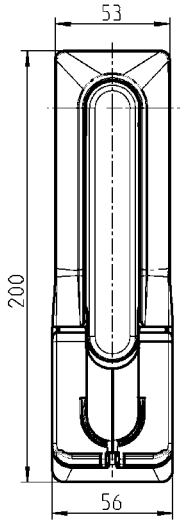
Swing handle for 40 and 45 mm profile half cylinder.

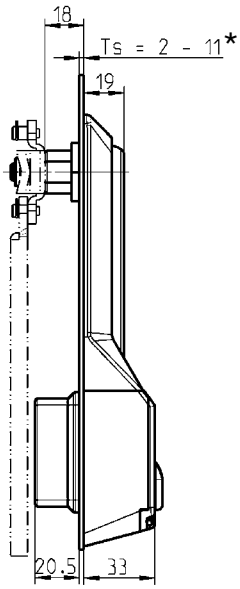


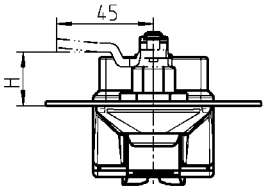


Version A Version B









Attention:
In case adapter ring is used, the max. door thickness (Ts) is 6 mm

Note:
If door thickness (Ts) > 4 mm, the use of Standard round rods will not be possible!

Note:
Separate access authorisation, as handle is released by one profile half cylinder only.

* Ts > 4 to 11 mm on request

** not included

Further parts see page
– Cam 3YC-120
– Rod control for cam 3YC-180
– Profile half cylinder (use only 1089-U1; -U2) 3XB-220

Swing handle polyamide GF black, cylinder cover and insert zinc die black powder coated, shaft brass, fixing material m.s. zinc plated, with seal	
for 40 and 45 mm profile half cylinder, Ts = 2 to 4 mm	1107-U22
Adapter ring polyamide GF black required for cut out version A	
	1107-53-01
Seal for adapter ring	1107-61-02VB

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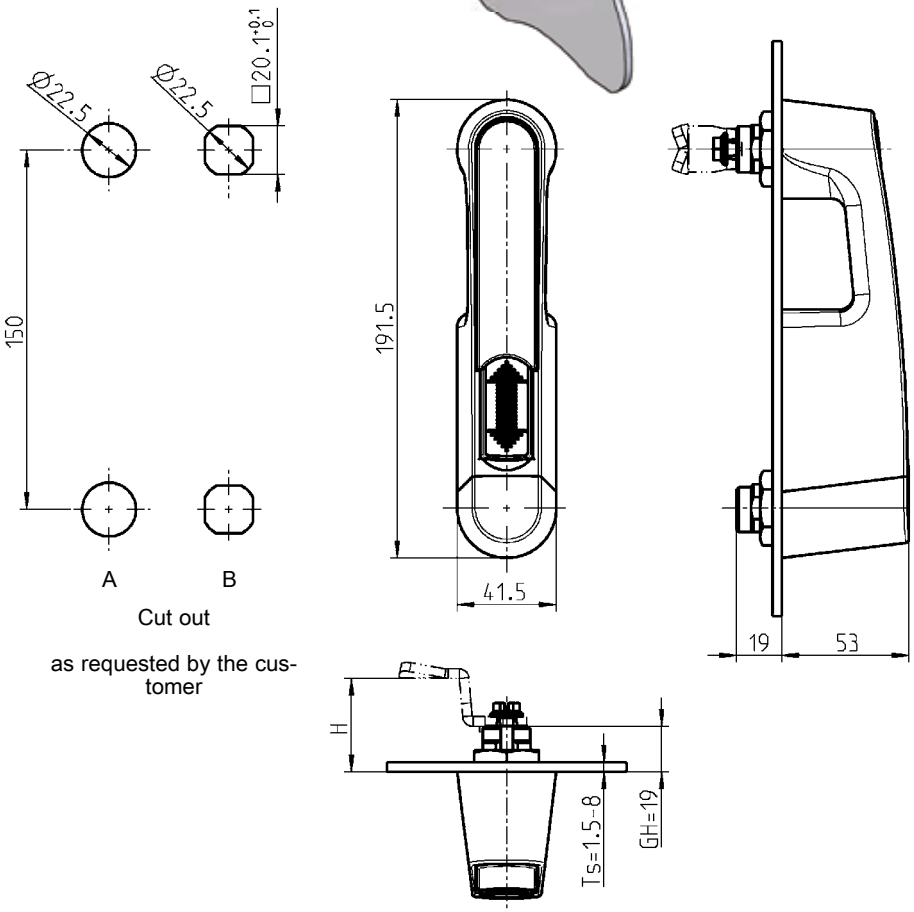
Swing handle for glass doors

PROGRAM 1107



Cut out A or B as requested by customer

Scope of supply:
Swing handle without locking set

Further parts see page

– Locking set	3XA-120 3XA-140
– Module ELM	Chapter 11
– Cam (GH=19)	3YC-120
– Rod control for cam	3YC-180

Attention:
In case of these cams, the H dimension
is increased by 1 mm.
Other cams on request

Dish polyamide GF black, handle zinc die black powder coated, shaft zinc die dark grey, with spring

1107-U247

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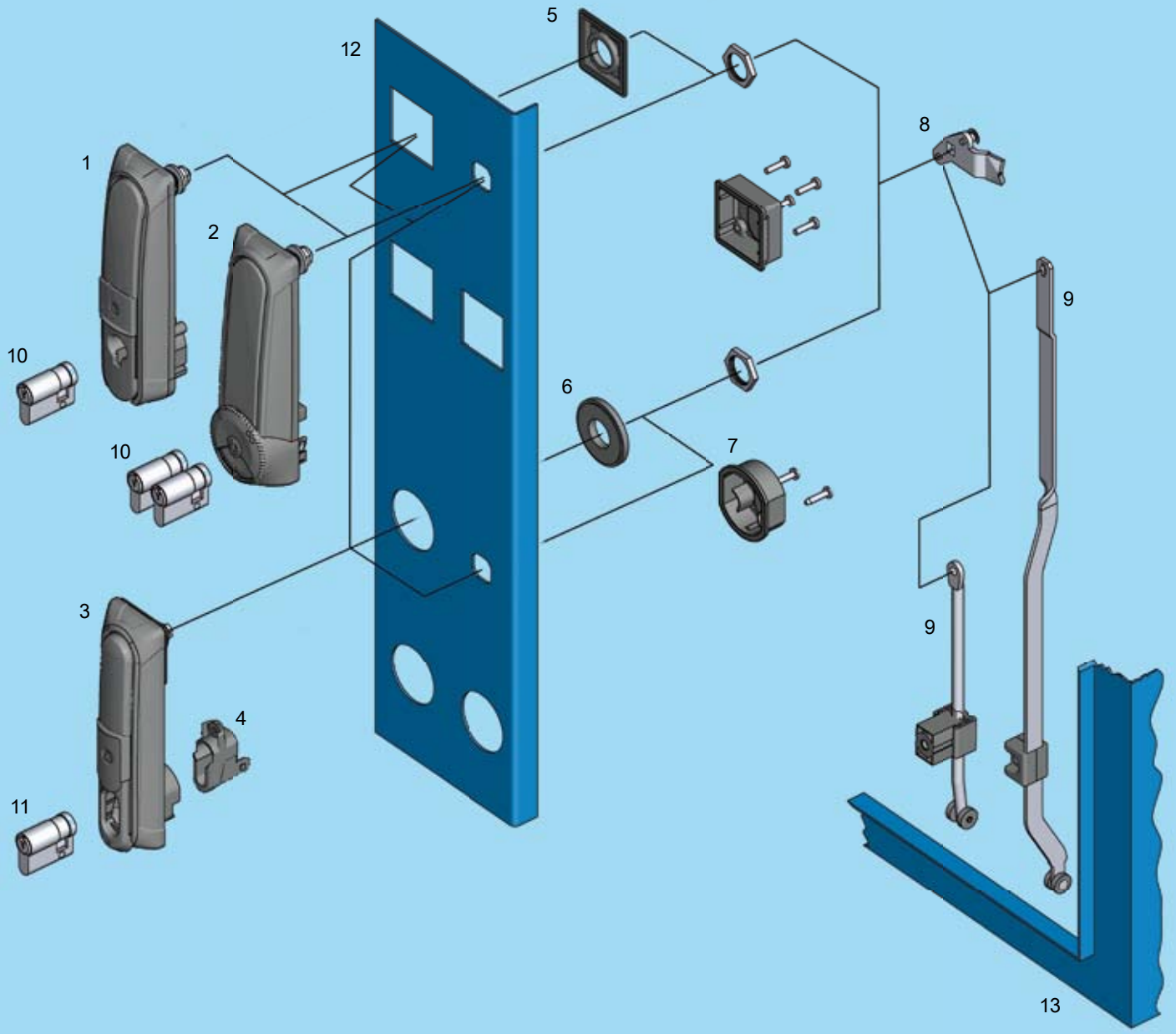
Notes:

Swinghandle
Program 1317



1	Swinghandle with RC2	3AB-120
2	Swinghandle with RC2 (double cylinder)	3AB-160
3	Swinghandle for the new locking set series	3AB-140
4	Locking set	
5	Adapter plate	
6	Adapter ring (not included in the delivery)	
7	Dust cap (not included in the delivery)	
8	Cam	
9	Rod	
10	Profile half cylinder	
11	Locking options, e.g. profile half cylinder	
12	Door	
13	Cabinet/frame	

Swinghandle with RC2; mechanical or electromechanical release

PROGRAM 1317

Single cylinder-swinghandle

Size:	„long“ (189,5 mm; cut out 130 mm)
or	„short“ (164,5 mm; cut out 105 mm)
Material:	GD-Zn black powder coated or GD-Zn grey powder coated (RAL 7038) and anti-graffiti coated

Mechanical version:

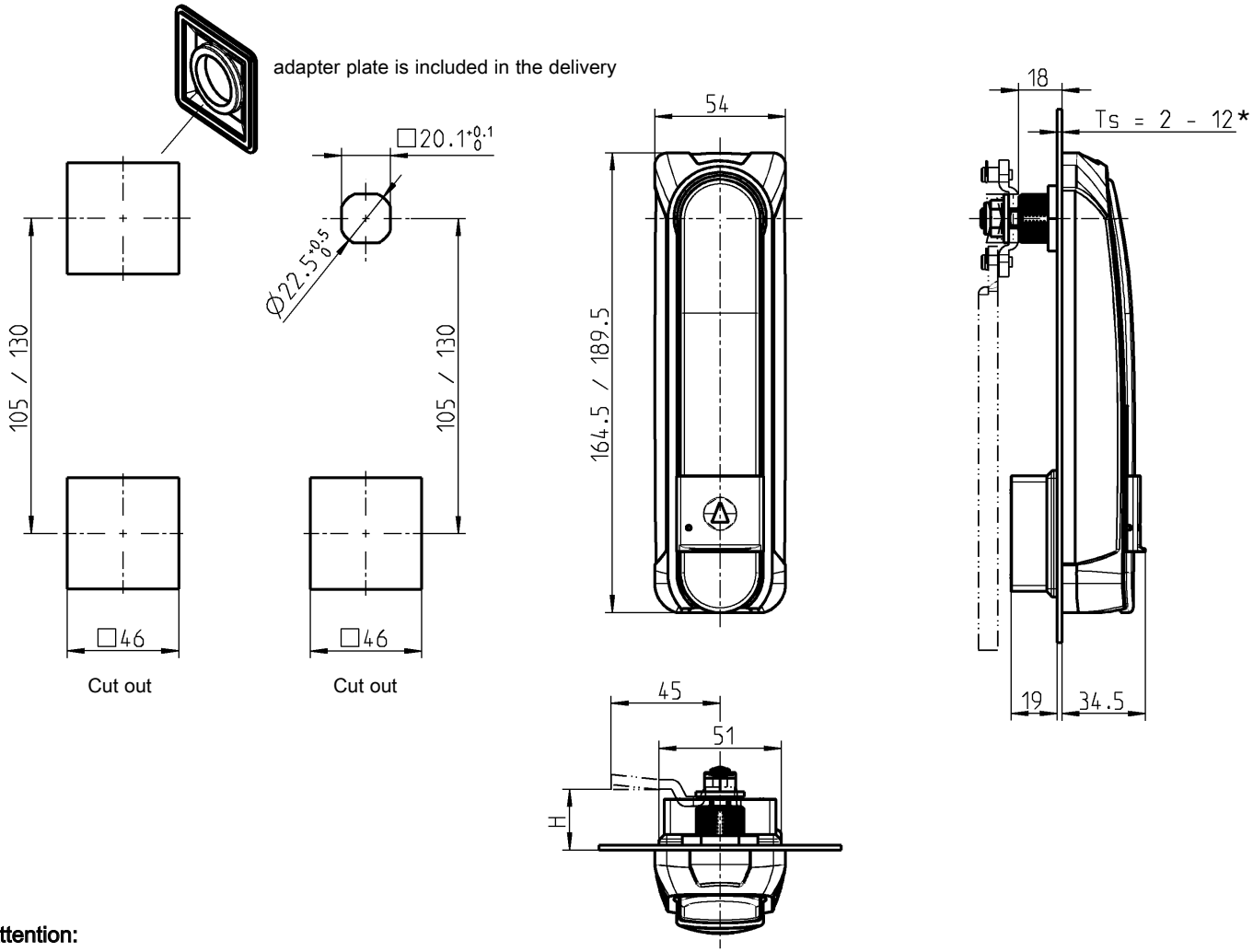
Profile half cylinder:	40 mm and 45 mm; adjust cam to 3 o‘clock
Sealable:	yes

Electromagnetic version (EL):

Application:	Indoor and outdoor at -30°C to +80°C
Release:	by inputting a 48 V DC signal
Power-on time:	up to 1 minute
Display:	optional by LED
Telemonitoring:	by reed contact
Close:	Press the handle in the escutcheon until the locking mechanism engages
Emergency opening:	optional with 40 mm or 45 mm profile half cylinder
Four eyes principle:	On request! To open it, the enable signal and an unlocked profile half cylinder are necessary

Version A **Version B**

adapter plate is included in the delivery



Attention:
With use of an adapter plate the maximum door gauge (Ts) is 6 mm.

Note:
The use of circular standard rod is not possible with a door gauge (Ts) > 6 mm!

* Ts > 6 mm -12 mm on request

** With the mechanical version the push button profile half cylinder is not applicable.
With the electromechanical version only the profile half cylinder according to DIN 18252 (EN 1303)is applicable.

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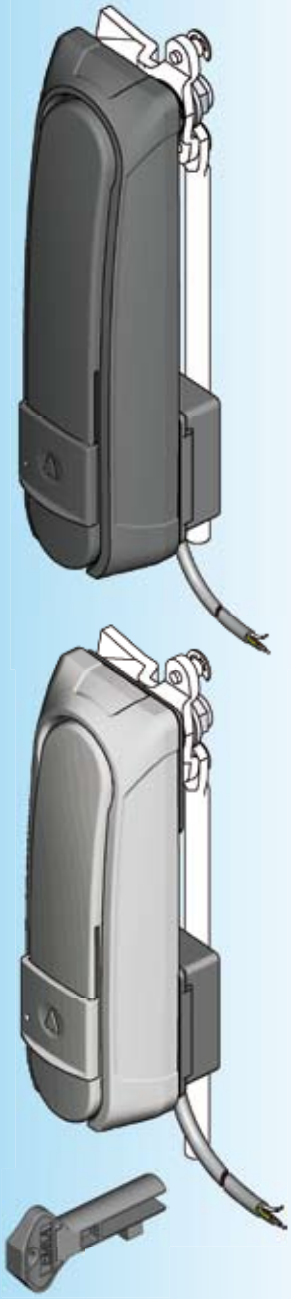
New defined standards
- The swinghandle successfully passed the test in accordance to RC2 DIN V ENV 1630.
- The test in accordance to protection level IK 10 following DIN EN 50102 was passed successfully.
- integrated scratch protection prevents surface damage (handle / dish).



Swing handle "long" or "short" dish and handle zinc die, surface on request

Swinghandle "long" (189,5) GD-Zn black powder coated	
mechanical version for 40 mm profile half cylinder, with additional cam position 30°	1317-U122
mechanical version for 45 mm profile half cylinder	1317-U123
mechanical version for type KABA 1514	on request
electromechanical version without LED optional for 40 and 45 mm profile half cylinder	1317-U161
electromechanical version with LED optional for 40 and 45 mm profile half cylinder	1317-U162
Swinghandle "long" (189,5) GD-Zn grey powder coated (RAL 7038) and anti-graffiti coated	
mechanical version for 40 mm profile half cylinder, with additional cam position 30°	1317-U122-HJ
mechanical version for 45 mm profile half cylinder	1317-U123-HJ
mechanical version for type KABA 1514	on request
electromechanical version without LED optional for 40 and 45 mm profile half cylinder	1317-U161-HJ
electromechanical version with LED optional for 40 and 45 mm profile half cylinder	1317-U162-HJ
Swinghandle "short" (164,5) GD-Zn black powder coated	
mechanical version for 40 mm profile half cylinder, with additional cam position 30°	1317-U102
mechanical version for 45 mm profile half cylinder	1317-U103
mechanical version for type KABA 1514	1317-U131
electromechanical version without LED optional for 40 and 45 mm profile half cylinder	1317-U151
electromechanical version with LED optional for 40 and 45 mm profile half cylinder	1317-U152
Swinghandle "short" (164,5) GD-Zn grey powder coated (RAL 7038) and anti-graffiti coated	
mechanical version for 40 mm profile half cylinder, with additional cam position 30°	1317-U102-HJ
mechanical version for 45 mm profile half cylinder	1317-U103-HJ
mechanical version for type KABA 1514	1317-U131-HJ
electromechanical version without LED optional for 40 and 45 mm profile half cylinder	1317-U151-HJ
electromechanical version with LED optional for 40 and 45 mm profile half cylinder	1317-U152-HJ
Building key polyamide black	
	1004-44-01AA

Further parts see page
– Cam 3YC-120
– 3-point cam 3YC-180
– ** Profile half cylinder 3XB-120

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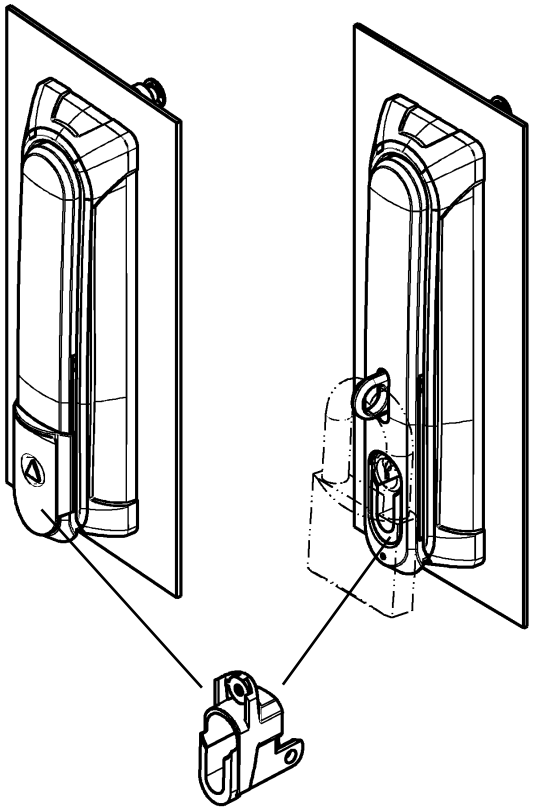
Swing handle with modular locking system

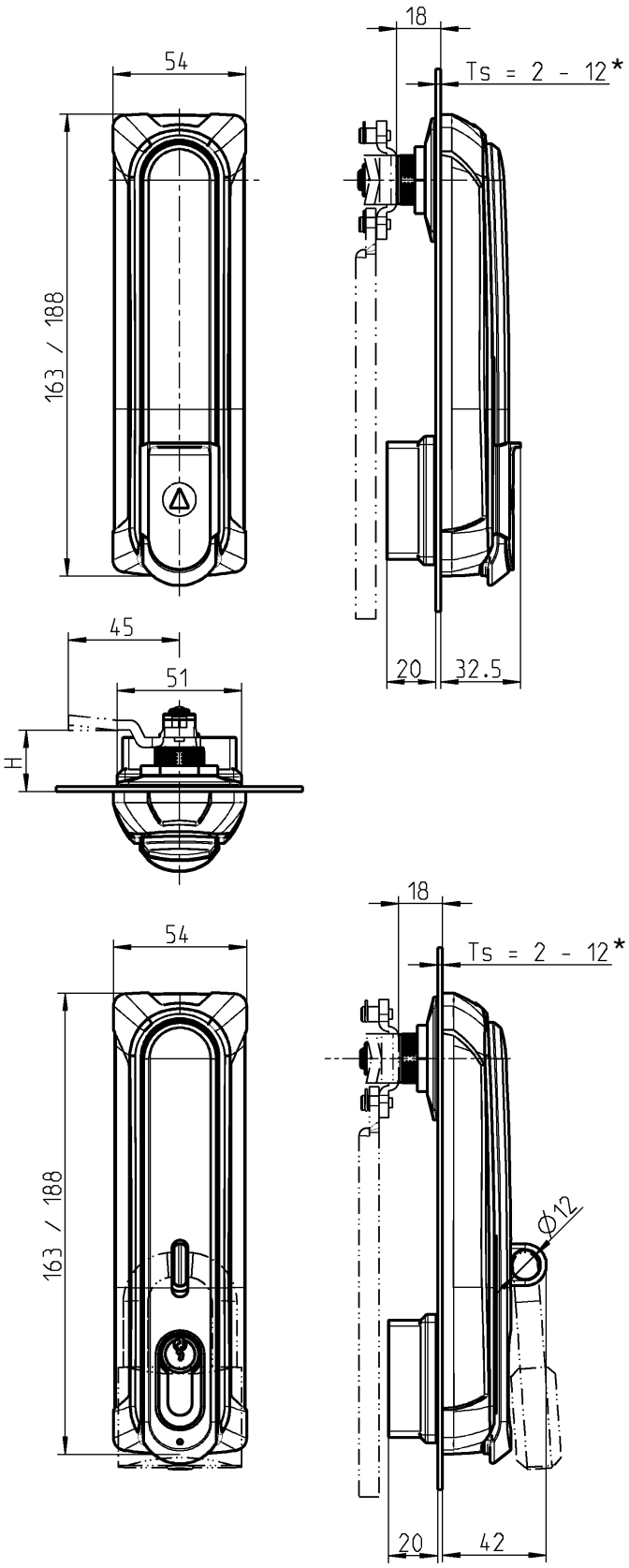
PROGRAM 1317

Single cylinder-swinghandle

Size:	„long“ (188 mm; cut out 130 mm)
or	„short“ (163 mm; cut out 105 mm)
Material:	polyamide black
Profile half cylinder:	40 mm 45 mm
Sealable:	yes, bore hole in dish necessary



with modular locking



Attention:
If the adapter plate or the adapter ring is used, the maximum door gauge (Ts) is 6 mm (with cut out version A and C)

Note:
If door gauge (Ts) > 4 mm standard round rods cannot be used!

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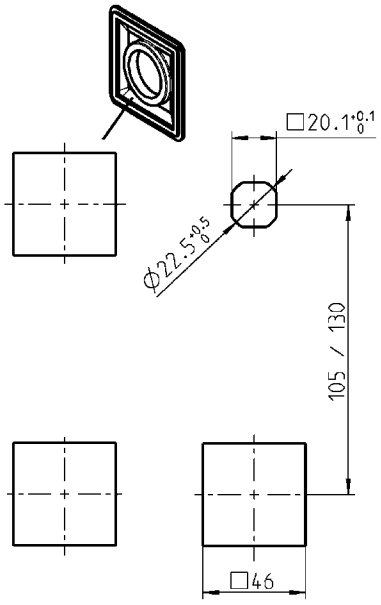
Version A **Version B**

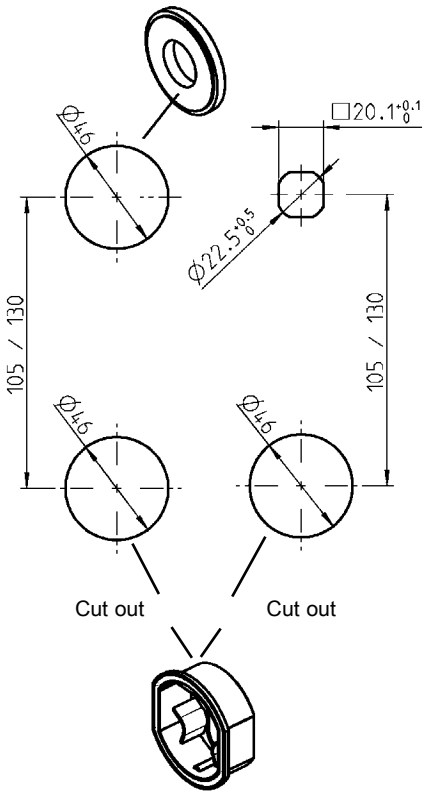
adapter plate is included in the delivery



Cut out Cut out

Version C **Version D**

Adapter ring not included in the delivery

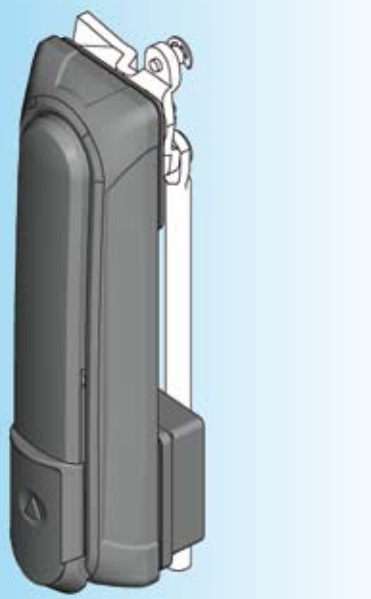


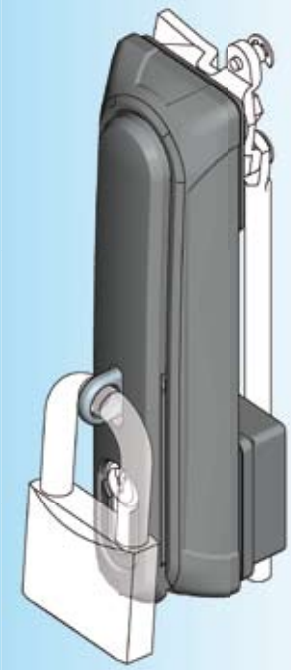
Cut out Cut out

Cap not included in the delivery

New defined standards

– ergonomic surface feel
– variable locking options
– integrated scratch protection prevents surface damage (handle / dish).





Locking set for different key systems (see catalogue page 3BA-220)

Further parts see page
– Profile half cylinder 3XB-120
– Locking set 3XC-120
– Cams 3YC-120
– 3-point cam 3YC-180

Swing handle "long" or "short" handle polyamide GF black;
dish polyamide GF black;
cylinder cover polyamide GF black (not for swing handle for padlock);
shaft brass and POM GF black;
padlock shackle AISI 316 (for swing handle for padlock);
cap polyamide GF V0 black;
adapter plate polyamide GF V0 black for cut out Version A;
fixing material m.s. zinc plated; with seal

❶(please order locking set separately) ❷ (in case of profile half cylinder, the locking cam has to be set at 90°)	without locking set ❶	with locking set for profile half cylinder ❷	
		40 mm (A = 30 mm)	45 mm (A = 35 mm)
Swinghandle "long"	1317-U421	1317-U421-01	1317-U423-01
Swing handle "long" for padlock	1317-U426	1317-U426-01	on request
Swinghandle "short"	1317-U401	1317-U401-01	1317-U403-01
Swing handle "short" for padlock	1317-U406	1317-U406-01	on request
needed for cut out C and D			
Adapter ring polyamid GF V0 black			1107-53
Cap polyamid VO black			1107-11-03AA
* Order screw set separately if Ts = 4-12 mm			1107-U170

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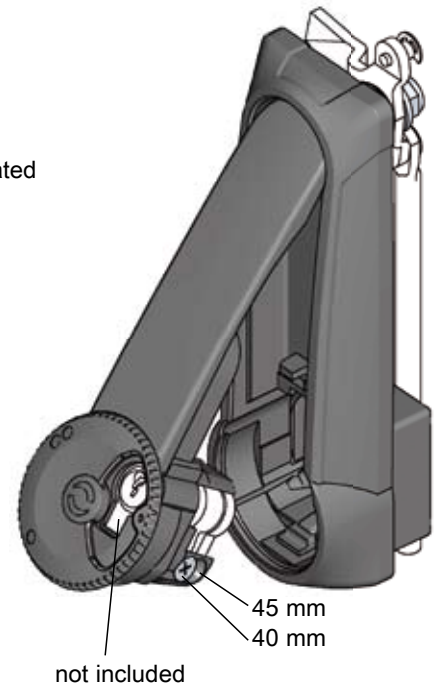
Double cylinder swinghandle with RC2

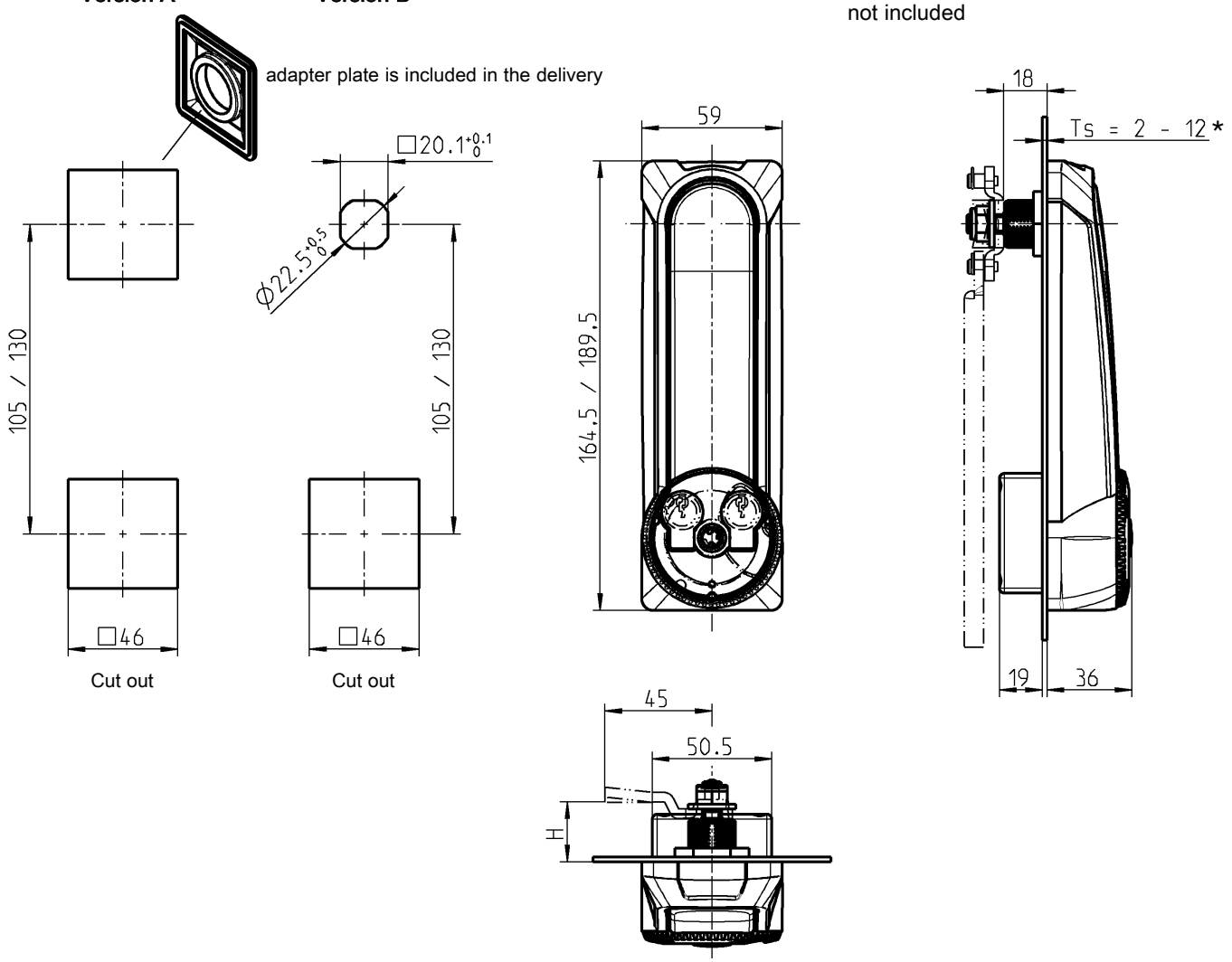
PROGRAM 1317

Double cylinder-swinghandle

Size:	„long“ (189,5 mm; cut out 130 mm)
or	„short“ (164,5 mm; cut out 105 mm)
Material:	zinc die black p.c.
or	GD-Zn grey powder coated (RAL 7038) and anti-graffiti coated
or	Polyamide black
or	Polyamide GF grey (RAL 7038)
	Polyamide anti-graffiti coated on request
RC2:	Swinghandle from GD-Zn
Profile half cylinder:	40 mm and 45 mm; set locking cam at 6 o‘clock.
key removable:	always removable or when the handle is put in
Sealable:	yes, hole Ø2 mm in the handle is necessary



Version A **Version B**



Attention:
When using the adapter ring the maximum door gauge (TS) will be 6 mm.

Note:
The use of circular standard rod is not possible with a door gauge (Ts) > 6 mm!

* Ts > 6-12 on request

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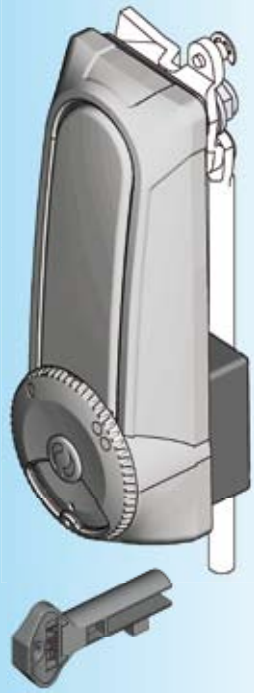
New defined standards
- The swinghandle from GD-Zn passed the test according to RC2 DIN V ENV 1630 successfully.
- The protection level test IK 10 following the DIN EN 50102 was passed successfully with the swinghandles from zinc die.
- integrated scratch protection prevents surface damage (handle / dish).

Swing handle "long" or "short"
dish and handle type as requested;
shaft brass or brass and POM GF black;
cylinder cover zinc die black powder coated or grey powder coated (RAL 7038);
cap zinc die black powder coated or polyamide GF V0 black;
adapter plate Polyamide GF V0 black for cut out version A;
fixing material m.s. zinc die; with seal and spring

Swinghandle "long" (189,5) **Version of choice:** **1. GD-Zn black powder coated; cap GD-Zn black powder coated; shaft brass** **2. Polyamide GF black; cap Polyamide GF V0 black; shaft brass and POM GF black**	
1. GD-Zn (RC2); key always removable	1317-U221
1. GD-Zn (RC2); key removable when the handle is put in	1317-U222
2. Polyamide; key always removable	1317-U321
2. Polyamide; key removable when the handle is put in	1317-U322
Swinghandle "long" (189,5) **Version of choice:** **1. GD-Zn grey powder coated (RAL 7038) and anti-graffiti coated; cap GD-Zn black powder coated; shaft brass** **2. Polyamide GF grey (RAL 7038); cap polyamide GF V0 black; shaft m.s. zinc plated**	
1. GD-Zn (RC2); key always removable	1317-U221-HJ
1. GD-Zn (RC2); key removable when the handle is put in	1317-U222-HJ
2. Polyamide; key always removable	1317-U321-BO
2. Polyamide; key removable when the handle is put in	1317-U322-BO
Swinghandle "short" (164,5) **Version of choice:** **1. GD-Zn black powder coated; cap GD-Zn black powder coated; shaft brass** **2. Polyamide GF black; cap polyamide GF V0 black; shaft brass and POM GF black**	
1. GD-Zn (RC2); key always removable	1317-U201
1. GD-Zn (RC2); key removable when the handle is put in	1317-U202
2. Polyamide; key always removable	1317-U301
2. Polyamide; key removable when the handle is put in	1317-U302
Swinghandle "short" (164,5) **Version of choice:** **1. GD-Zn grey powder coated (RAL 7038) and anti-graffiti coated; cap GD-Zn black powder coated; shaft brass** **2. Polyamide GF grey (RAL 7038); cap polyamide GF V0 black; shaft brass and POM GF black**	
1. GD-Zn (RC2); key always removable	1317-U201-HJ
1. GD-Zn (RC2); key removable when the handle is put in	1317-U202-HJ
2. Polyamide; key always removable	1317-U301-BO
2. Polyamide; key removable when the handle is put in	1317-U302-BO
Building key polyamide black	
	1004-44-01AA



Further parts see page
– Cam 3YC-120
– 3-point cam 3YC-180
– Profile half cylinder 3XB-220

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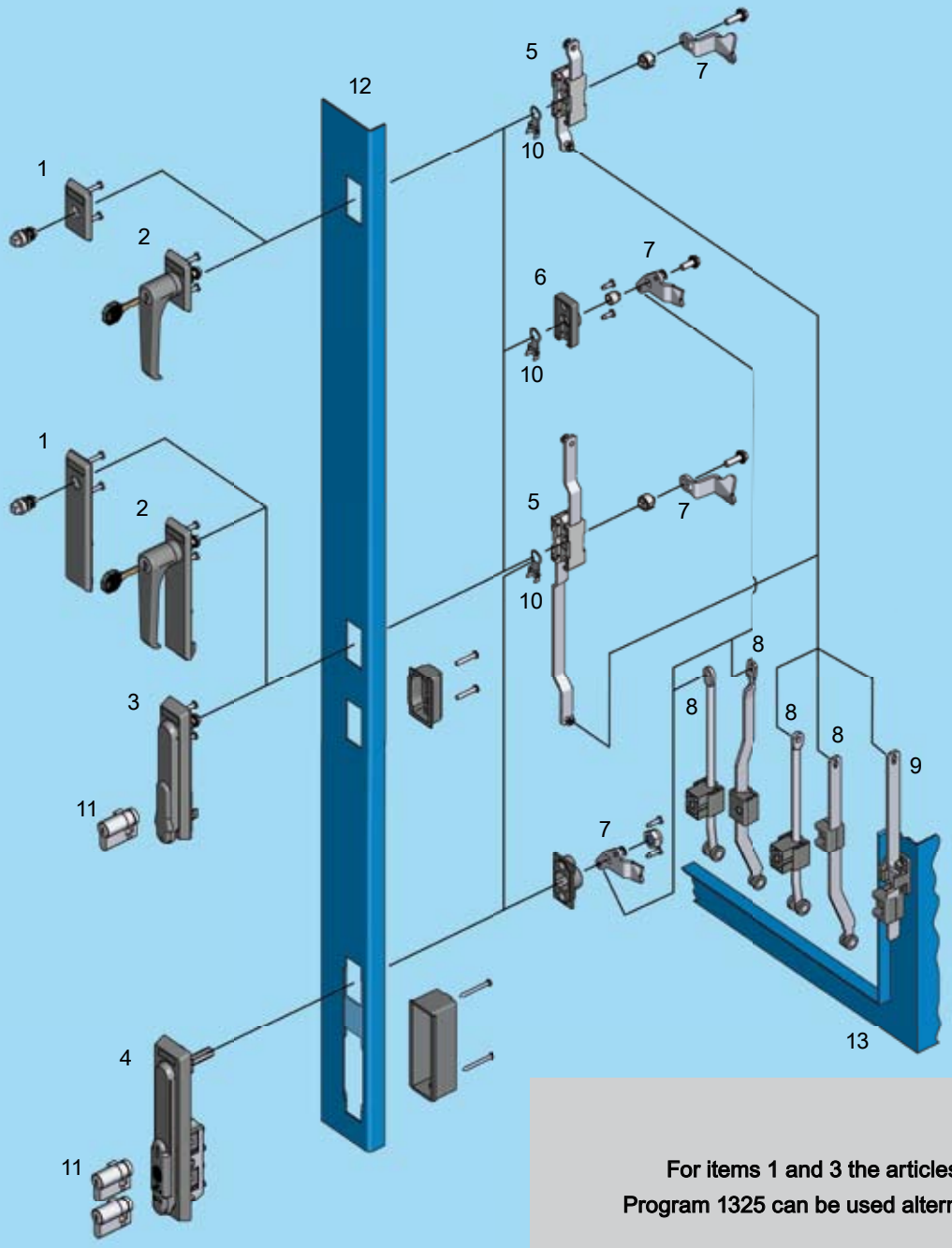
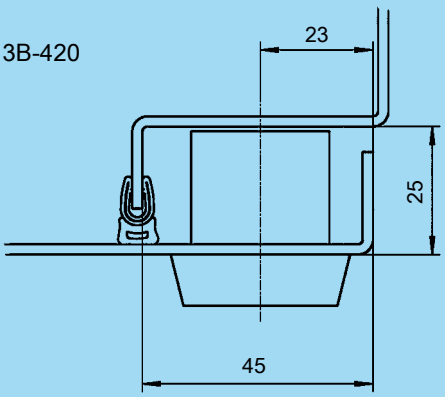
Notes:

Swinghandle and escutcheon Program 1125



For items 1 and 3 the articles of Program 1325 can be used alternatively.

1	Escutcheon with insert	3B-120
2	Escutcheon with handle	3B-180
3	Swinghandle	3B-220, 3B-420
4	Swinghandle (double cylinder)	3B-320
5	Rod control	
6	Bearing bush	
7	Cam	
8	Rod (inside the gasketing)	
9	Rod (outside the gasketing)	
10	Earthing device	
11	Profile half cylinder	
12	Door	
13	Cabinet/frame	



3B-100

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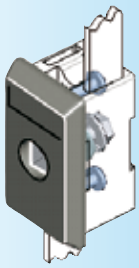
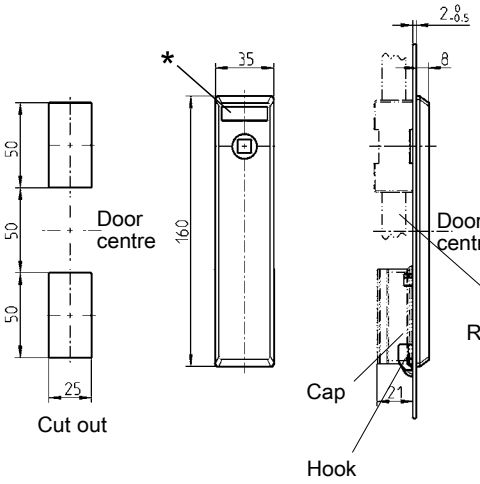
Escutcheon with insert

PROGRAM 1125

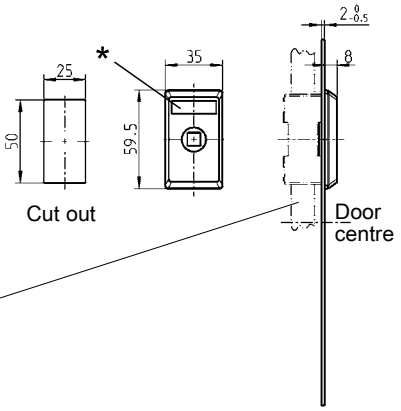


EDELSTAHL Rost frei STAINLESS STEEL

Escutcheon long



Escutcheon short



Escutcheon long material on choice, screws m.s. zinc plated or stainless steel, with seal				Escutcheon short material on choice, screws m.s. zinc plated or stainless steel with seal IP 65
polyamide black	hook IP 40	clip-in cap IP 40	screw-on cap IP 65	
for square, triangular Daimler-Benz, slot	1121-U19-6	1121-U19-N6	1121-U133-6	1121-U22-6
for double bit	1121-U20-6	1121-U20-N6	1121-U134-6	1121-U23-6
for railroad, square 9	1121-U19A-6	–	1121-U135-6	1121-U22A-6
for FIAT	1121-U63-6	1121-U63-N6	1121-U132-6	1121-U62-6
AISI 316				
for square, triangular Daimler-Benz, slot	–	–	1121-U133-6PH	1121-U22-6PH

Insert material on choice, fixing material m.s. zinc plated or stainless steel		
	zinc die chrome pl.	AISI 316
Square 6	1121-U11	on request
Square 7	1121-U12	1121-U12-PH
Square 8	1121-U13	on request
Triangular 6,5 CNOMO	1121-U169	on request
Triangular 7	1121-U14	1121-U14-PH
Triangular 8	1121-U15	on request
Double bit 3**	1121-U16	1121-U16-PH
Double bit 5**	1121-U17	1121-U17-PH
Square female 8	1121-U167	on request
Daimler Benz	1121-U18	on request
Slot 2 x 4	1121-U123	on request
FIAT	1121-U24	on request
Railroad square 9	1121-U72	on request

* Logo recess: 27 x 8 x 0,5
Multicolour print possible

** in Polyamide on request

Further parts see page

– Key	12B-120
– Rod control for long version	3YA-110 3YA-120 3YA-140
Short version	3YA-115 3YA-160
– Bearing bush	3YB-120

Accessories

Transport safety device polyamide GF black for double bit insert

1121-32

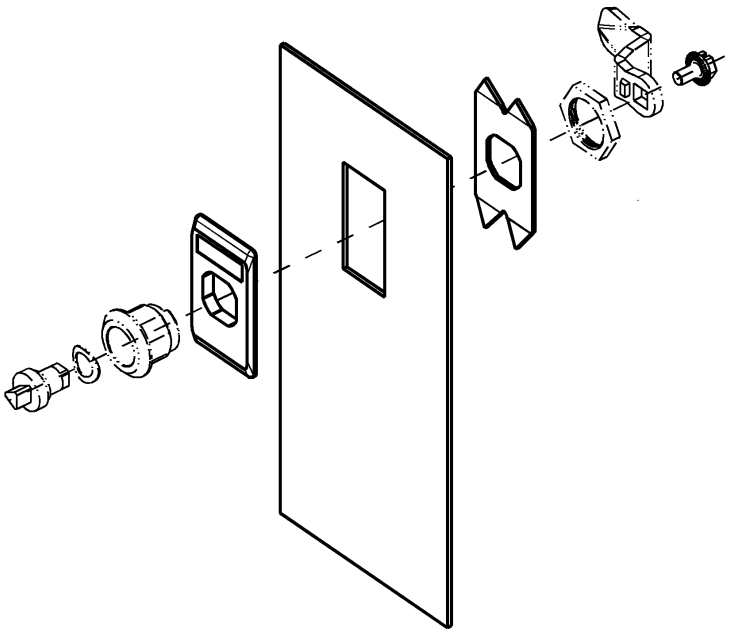
Escutcheon for quarterturn, program 1000

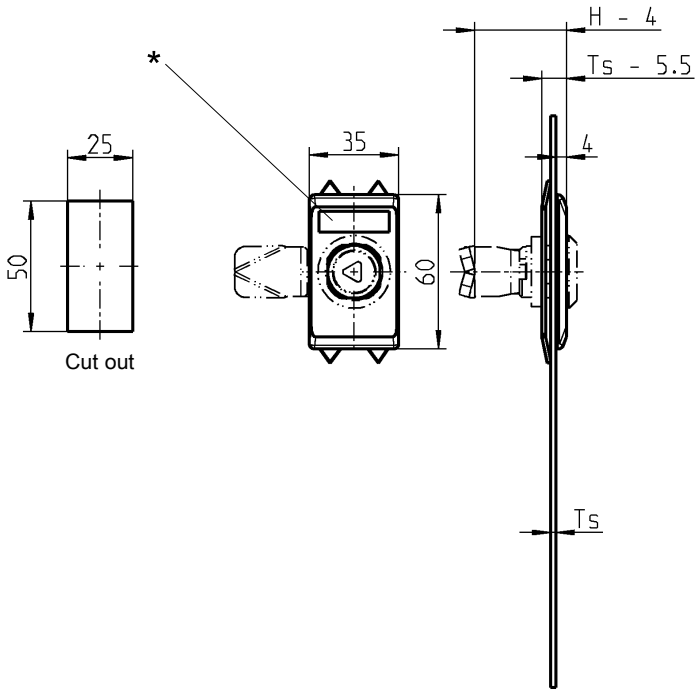
PROGRAM 1125

EDELSTAHL Rost frei STAINLESS STEEL

RL

IP 65





* Logo recess: 27 x 8 x 0,5
Multicolour print possible

Attention:
H-dimension of cam is 4 mm less, TS is 5,5 mm less

Note:
IP 65 will be achieved by quarter turn with IP 65 protection

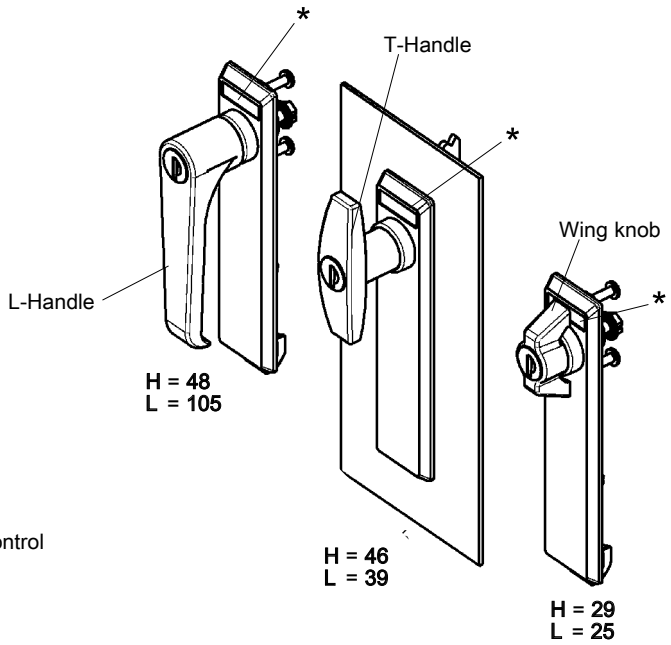
Further parts see page

– Quarter turn		1B-120
		1B-140
		1B-210
	up to	1B-320
		1B-360
	up to	1B-620
		1B-680
		1B-860

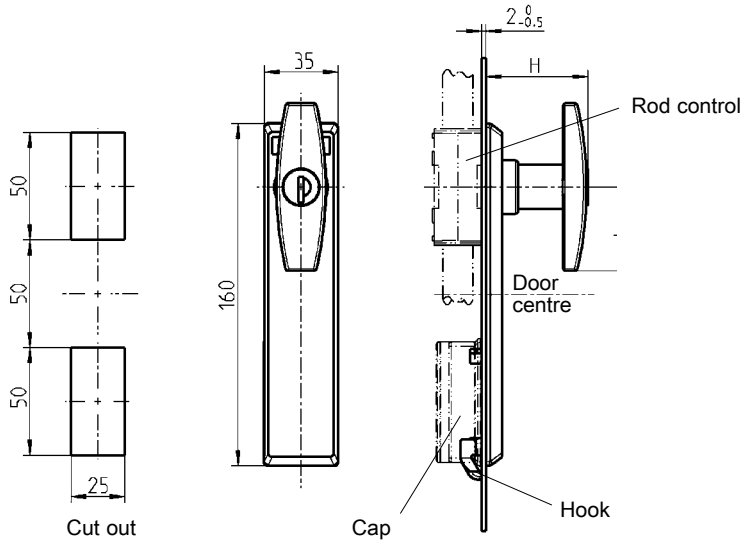
Escutcheon polyamide black, earthing plate m.s. zinc plated, with seal	
	1121-U168

Escutcheon with handle

PROGRAM 1125

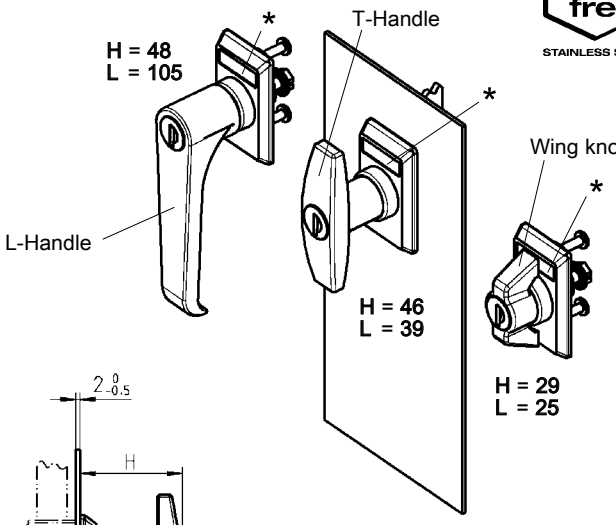


Escutcheon long

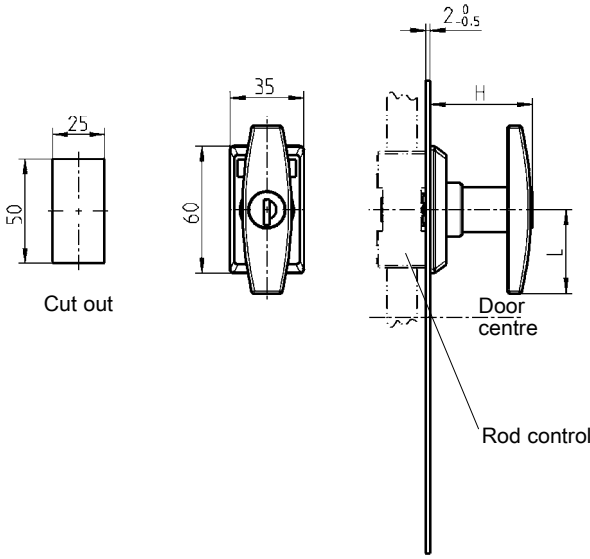


Each round cylinder has one silver steel key with polyamide grip GF black.

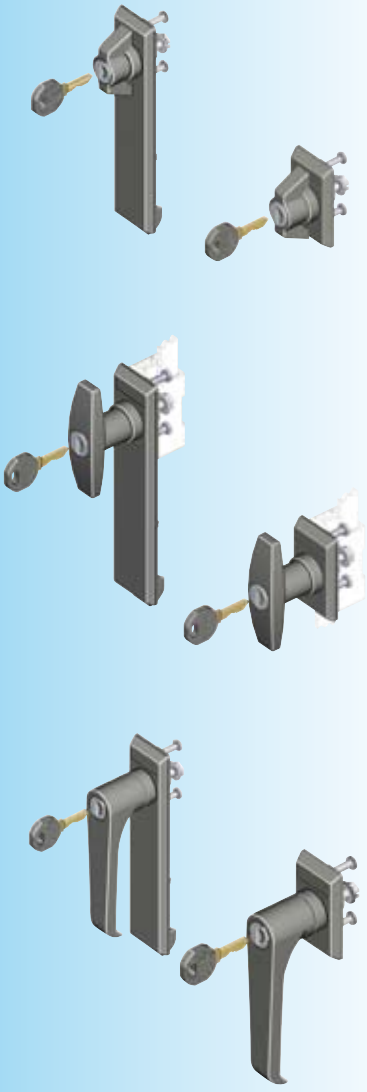
Escutcheon long polyamide GF black,fixing material m.s. zinc pl. or stainless steel, with seal			
	hook IP 40	snap on cap IP 40	screw on cap IP 65
Wingknob zinc die black powder coated			
non locking	1123-U1-6	1123-U1-N6	1123-U25-6
keyed EK 333	1123-U2-6	1123-U2-N6	1123-U26-6
keyed different	1123-U3-6	1123-U3-N6	1123-U27-6
Wing knob AISI 316			
non locking	1123-U41-6	1123-U41-N6	1123-U42-6
T-Handle zinc die black powder coated			
non locking	1123-U7-6	1123-U7-N6	1123-U28-6
keyed EK 333	1123-U8-6	1123-U8-N6	1123-U29-6
keyed different	1123-U9-6	1123-U9-N6	1123-U30-6
prepared for KABA 1036	1123-U21-6	–	–
T-handle AISI 316			
non locking	1123-U38-6	1123-U38-N6	1123-U39-6
L-Handle zinc die black powder coated			
non locking	1123-U13-6	1123-U13-N6	1123-U31-6
keyed EK 333	1123-U14-6	1123-U14-N6	1123-U32-6
keyed different	1123-U15-6	1123-U15-N6	1123-U33-6
prepared for KABA 1036	1123-U19-6	–	–
L-handle AISI 316			
non locking	1123-U34-6	1123-U34-N6	1123-U35-6



Escutcheon short



Ecscutcheon short polyamide Gf black, fixing material m.s. zinc pl. or stainless steel, with seal IP 65	
Wing knob zinc die black powder coated	
non locking	1123-U4-6
keyed EK 333	1123-U5-6
keyed different	1123-U6-6
Wing knob AISI 316	
non locking	1123-U40-6
T-Handle zinc die black powder coated	
non locking	1123-U10-6
keyed EK 333	1123-U11-6
keyed different	1123-U12-6
prepared for KABA 1036	1123-U22-6
T-handle AISI 316	
non locking	1123-U37-6
L-Handle zinc die black powder coated	
non locking	1123-U16-6
keyed EK 333	1123-U17-6
keyed different	1123-U18-6
prepared for KABA 1036	1123-U20-6
L-handle AISI 316	
non locking	1123-U36-6



* Logo recess: 27 x 8 x 0,5
Multicolour print possible

Further parts see page

– Key	12B-120
– Spare key	12B-140
– Rod control for long version	3YA-110 3YA-120 3YA-140
Short version	3YA-115 3YA-160
– Bearing bush	3YB-120
– Dust cap for T-Handle	1C-340

Swinghandle

PROGRAM 1125

Example:
[3] (21/26 mm)
→ Dimension for profile half cylinder 45 mm
→ Dimension for profile half cylinder 40 mm

Swinghandle polyamide black for profile half cylinder, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal

	snap on cap IP 40		screw on cap IP 65		hook IP 40	
	with dust cap	non dust cap	with dust cap	non dust cap	with dust cap	non dust cap
for cylinder 40 mm [3] (21)	1125-U191-NA	1125-U190-NA	1125-U191-A	1125-U190-A	1125-U186-A	1125-U185-A
for cylinder 45 mm [3] (26)	1125-U196-NA	1125-U195-NA	1125-U196-A	1125-U195-A	1125-U194-A	1125-U193-A
insert for padlock	(only swinghandle 1125-U190-A)			1125-73	–	–
with cylinder (Berlin version)	–	–	–	–	1125-U276-A	1125-U275-A
for ASSA cylinder	–	–	1125-U198-A	–	–	–
Swinghandle for profile half cylinder zinc die black powder coated, cap polyamide black, with seal						
for cylinder 40 mm [3] (21)	–	–	1125-U191-AQA	on request	–	–
Swing handle for profile half cylinder AISI 316, shaft AISI 303, cap polyamide black, with seal (IP 66)						
for cylinder 40 mm [3] (21)	–	–	1125-U191-APH	on request	–	–

Swinghandle polyamide GF black with insert double bit, zinc die chrome plated, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal

	snap on cap IP 40	screw on cap IP 65
Double bit 3 (Key 1004-05) [1] [2]	1125-U236-NA	1125-U236-A
Double bit 5 (Key 1004-06) [1] [2]	1125-U239-NA	1125-U239-A

Swinghandle polyamide GF black, with round cylinder incl. stainless steel cap and shutter or insert m.s. zinc plated, shaft zinc die chrome plated, fixing material m.s. zinc plated, with seal. Each round cylinder with one key silver steel with black polyamide GF grip

	snap on cap IP 40		screw on cap IP 65		hook IP 40
	with dust cap	non dust cap	with dust cap	non dust cap	non dust cap
round cylinder keyed EK 333	1125-U206-NA	1125-U202-NA	1125-U206-A	1125-U202-A	1125-U268-A
round cylinder keyed different	1125-U207-NA	1125-U203-NA	1125-U207-A	1125-U203-A	1125-U269-A
Square 6 [1]	1125-U242-NA	1125-U210-NA	1125-U242-A	1125-U210-A	on request
Square 7 [1] [2]	1125-U243-NA	1125-U211-NA	1125-U243-A	1125-U211-A	on request
Square 8 [1] [2]	1125-U244-NA	1125-U212-NA	1125-U244-A	1125-U212-A	on request
Square 8 slotted	1125-U245-NA	1125-U213-NA	1125-U245-A	1125-U213-A	on request
Triangular 6,5 CNOMO	1125-U246-NA	1125-U214-NA	1125-U246-A	1125-U214-A	on request
Triangular 7 [1]	1125-U247-NA	1125-U215-NA	1125-U247-A	1125-U215-A	on request
Triangular 8 [1] [2]	1125-U248-NA	1125-U216-NA	1125-U248-A	1125-U216-A	on request
Triangular 9	1125-U249-NA	1125-U217-NA	1125-U249-A	1125-U217-A	on request
Triangular 10	1125-U250-NA	1125-U218-NA	1125-U250-A	1125-U218-A	on request
Hexagon female 10 SW 10	1125-U251-NA	1125-U219-NA	1125-U251-A	1125-U219-A	on request
Female Square 6	1125-U252-NA	1125-U220-NA	1125-U252-A	1125-U220-A	on request
Female Square 8	1125-U253-NA	1125-U221-NA	1125-U253-A	1125-U221-A	on request
Daimler Benz	1125-U254-NA	1125-U222-NA	1125-U254-A	1125-U222-A	on request
Slot 1,2 x 3	1125-U255-NA	1125-U223-NA	1125-U255-A	1125-U223-A	on request
Slot 2 x 4 [1] [2]	1125-U256-NA	1125-U224-NA	1125-U256-A	1125-U224-A	on request
Crown type	1125-U257-NA	1125-U225-NA	1125-U257-A	1125-U225-A	on request
Eastern Europe Ø 13	1125-U282-NA	1125-U283-NA	1125-U282-A	1125-U283-A	on request

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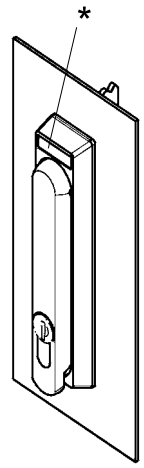
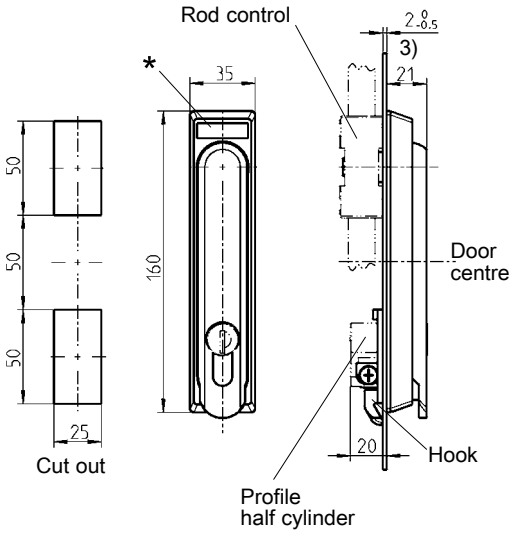
EDELSTAHL Rostfrei STAINLESS STEEL

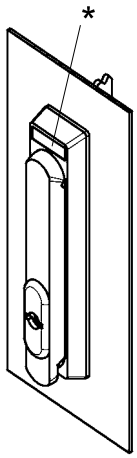
RL IP 40 IP 65 IP 66 INOX AISI 3..

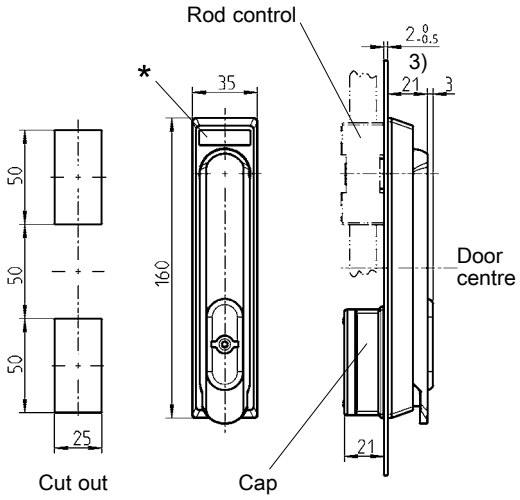
Swinghandle for profile half cylinder



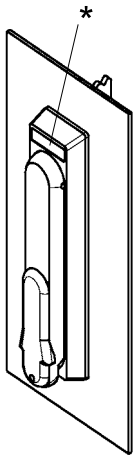


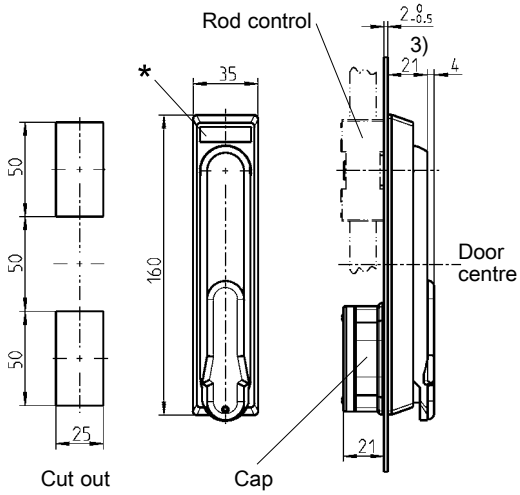
Swinghandle with double bit

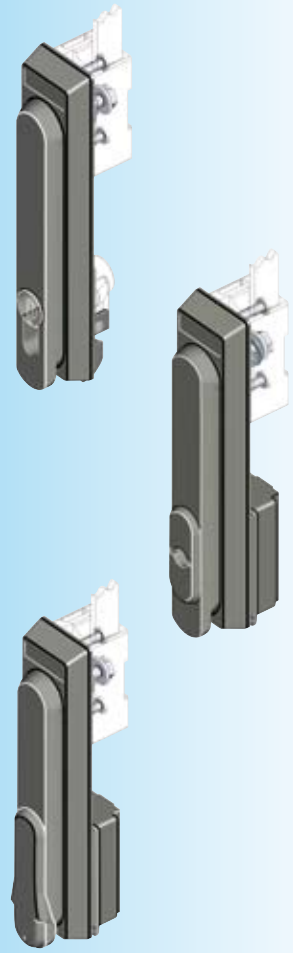




Swinghandle with round cylinder or insert







* Logo recess: 27 x 8 x 0,5
Multicolour print possible

Further parts see page

– Key	12B-120
– Rod control	3YA-110
	3YA-120
	3YA-140
– Bearing bush	3YB-120
– Profile half cylinder	3XB-120

On request insert in

[1] Zinc die black p.c.
[2] polyamide black
– Cap without foamed seal for small bending area on request
– EMC-version

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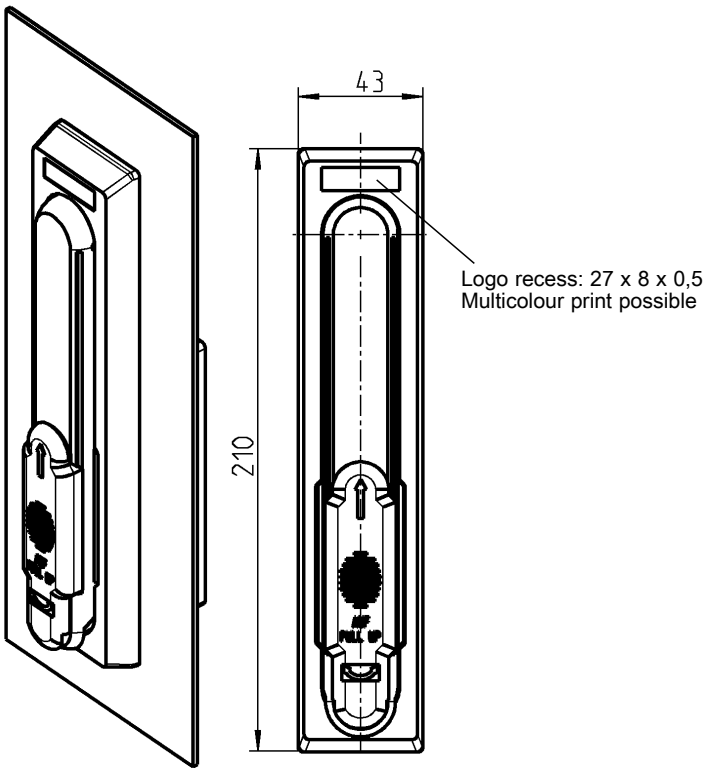
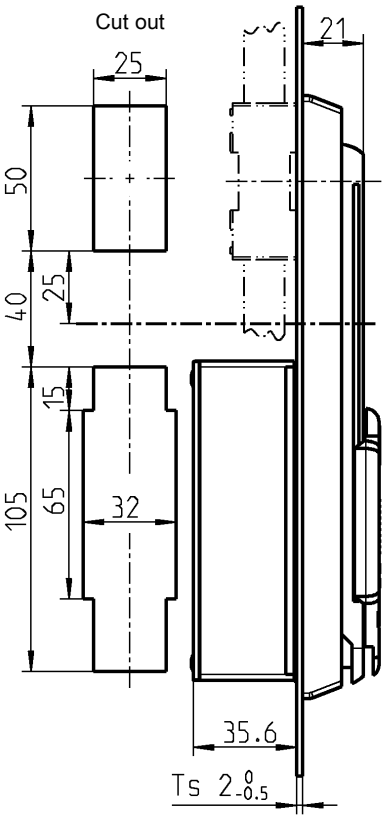
Swinghandle

PROGRAM 1125

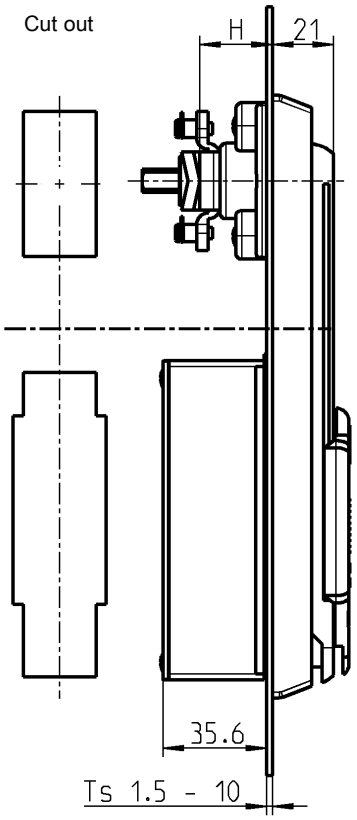
Double and single profile half cylinder swinghandle



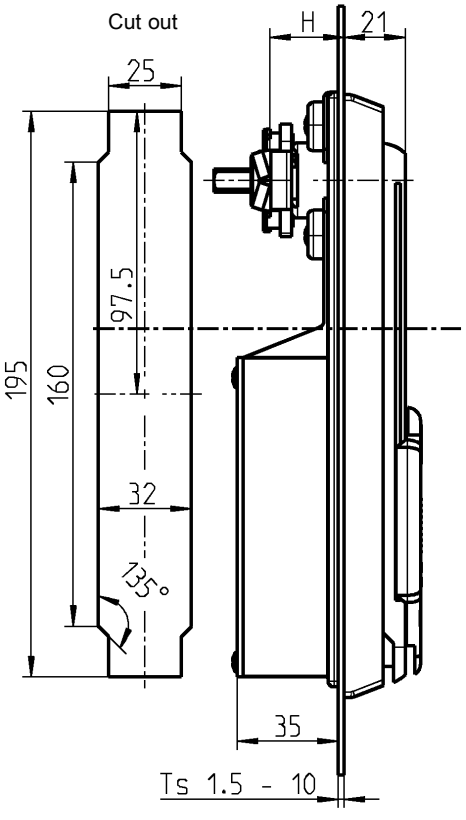
Version A



Version B



Version C



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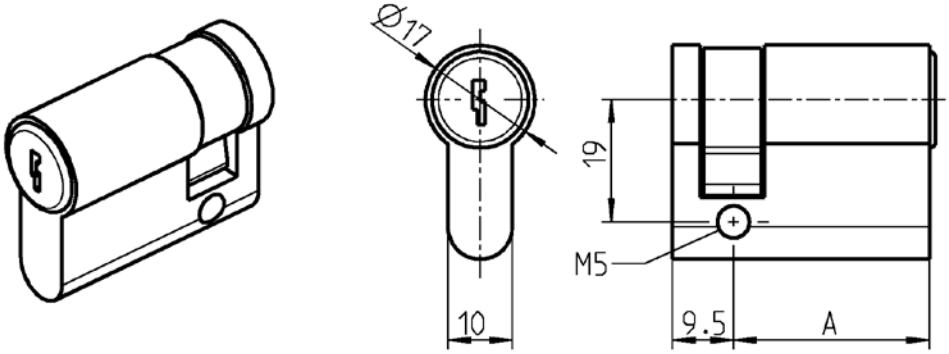
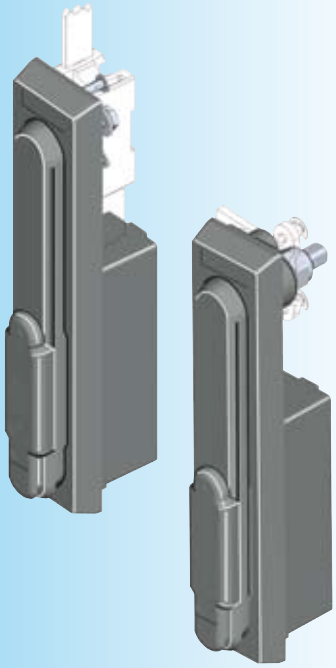


Double and single profile half cylinder swinghandle
suitable for profile half cylinder with A = 30 and 35.

Earthing with version A possible!



Swinghandle profile half cylinder, polyamide GF black, shaft brass, interlock zinc die, spring zinc plated. fixing material m.s. zinc plated or stainless steel, with seal	
Version A for rod control	
Double cylinder-swinghandle with one-key operation Key always removable	1125-U51-A
Single cylinder-swinghandle Key always removable	1125-U55-A
Double cylinder-swinghandle with one-key operation Key removable when the handle is put in	1125-U53-A
Version B with bearing bush	
Double cylinder-swinghandle with one-key operation Key always removable	1125-U57-A
Single cylinder-swinghandle Key always removable	1125-U58-A
Double cylinder-swinghandle with one-key operation Key removable when the handle is put in	1125-U56-A
Double cylinder-swinghandle with 2-key operation Key removable when the handle is put in	1125-U289
Version C with bearing bush	
Double cylinder-swinghandle with one-key operation Key always removable	1125-U60-A
Single cylinder-swinghandle Key always removable	1125-U61-A
Double cylinder-swinghandle with one-key operation Key removable when the handle is put in	1125-U59-A

One-key operation
Handle can be opened when one cylinder is unlocked.
Removal of key on choice

2-key operation
The handle can only be opened when both cylinders are unlocked.
Removal of key on choice
The 2-key operation is a RH version.
For profile half cylinder A = 30.

Further parts see page
- Rod control for Version A 3YA-220 3YA-240
- Cam for Version B 3YC-120
- Rod control vor cam for version B 3YC-180
- Cam for Version C (H = 25 + Ts = 2) 3YC-140
- Profile half cylinder 3XB-220

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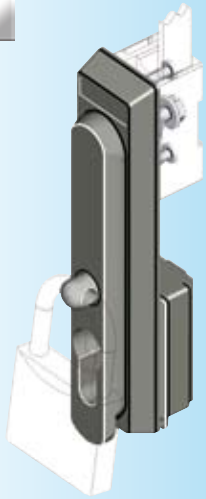
Swinghandle

PROGRAM 1125



Further parts see page

– Bearing bush	3YB-120
– Rod control	3YA-110
	3YA-120
	3YA-140
– Profile half cylinder	3XB-120

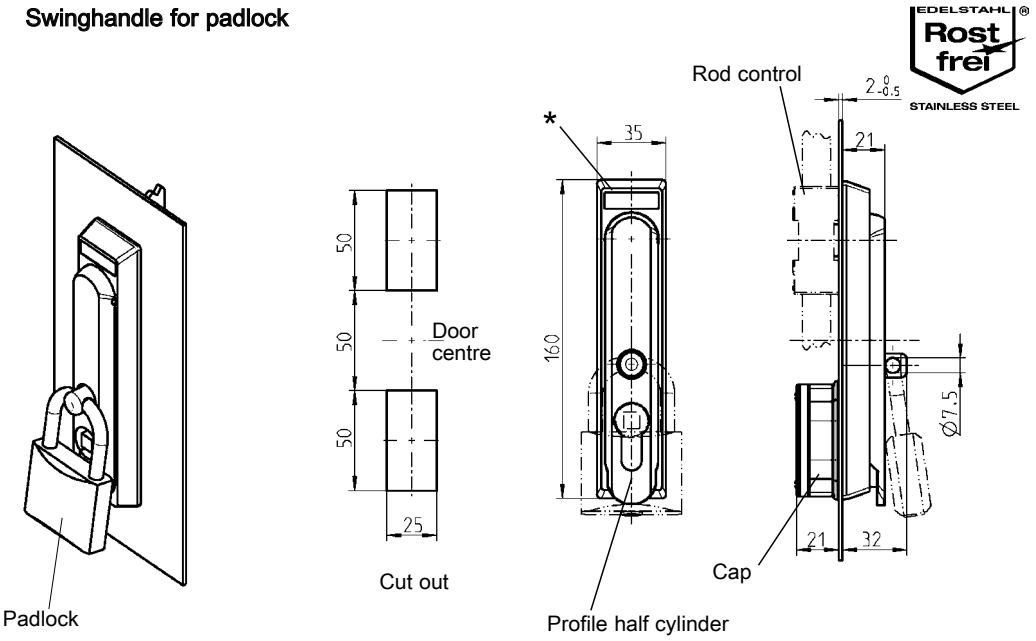
* Logo recess: 27 x 8 x 0.5
Multicolour pad print possible

Note:
CNOMO swinghandle can only be used outside the gasketing!

Further parts see page

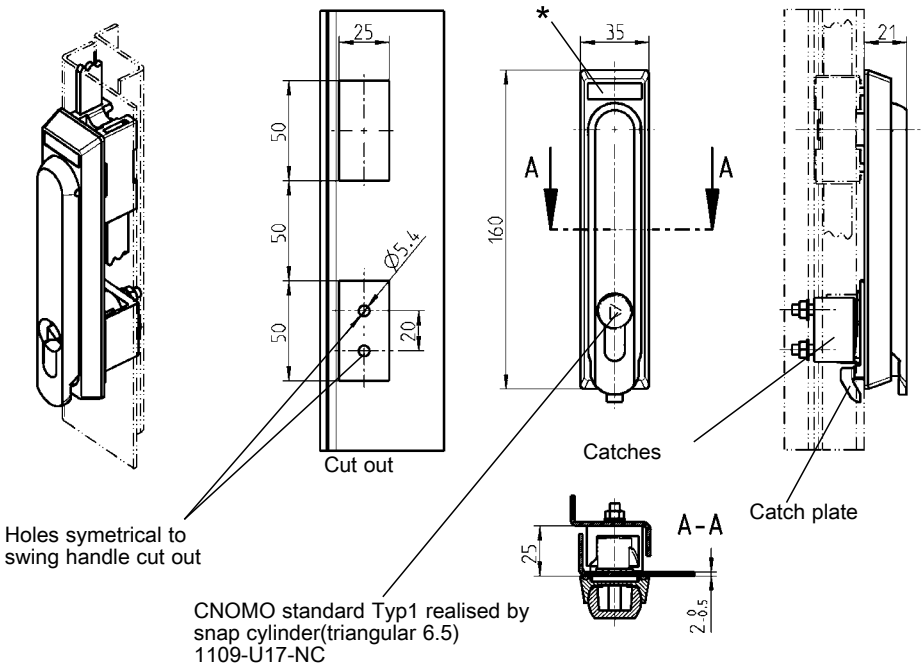
– Rod control	3YA-110
	3YA-120
– Profile half cylinder (Push button profile half cylinder not applicable)	3XB-120

Swinghandle for padlock



Swing handle for 40 mm profile half cylinder polyamide GF black; shaft zinc die zinc plated; padlock shackle AISI 303; fixing material m.s. zinc die; with seal	
	1125-U184-A
Swing handle for 40 mm profile half cylinder AISI 316; shaft and padlock shackle AISI 303; cap polyamide black, with seal	
	1125-U184-APH
Ford-Version realised by	
profile half cylinder (square 7 mm)	1109-U5-N

Swinghandle for CNOMO



Handle is spring loaded and can only be locked if the door is completely closed.

Swing handle for 40 mm profile half cylinder polyamide GF black; catch and shaft zinc die zinc plated; fixing m.s. zinc plated	
without dust cap	1125-U200-A
with dust cap	1125-U201-A

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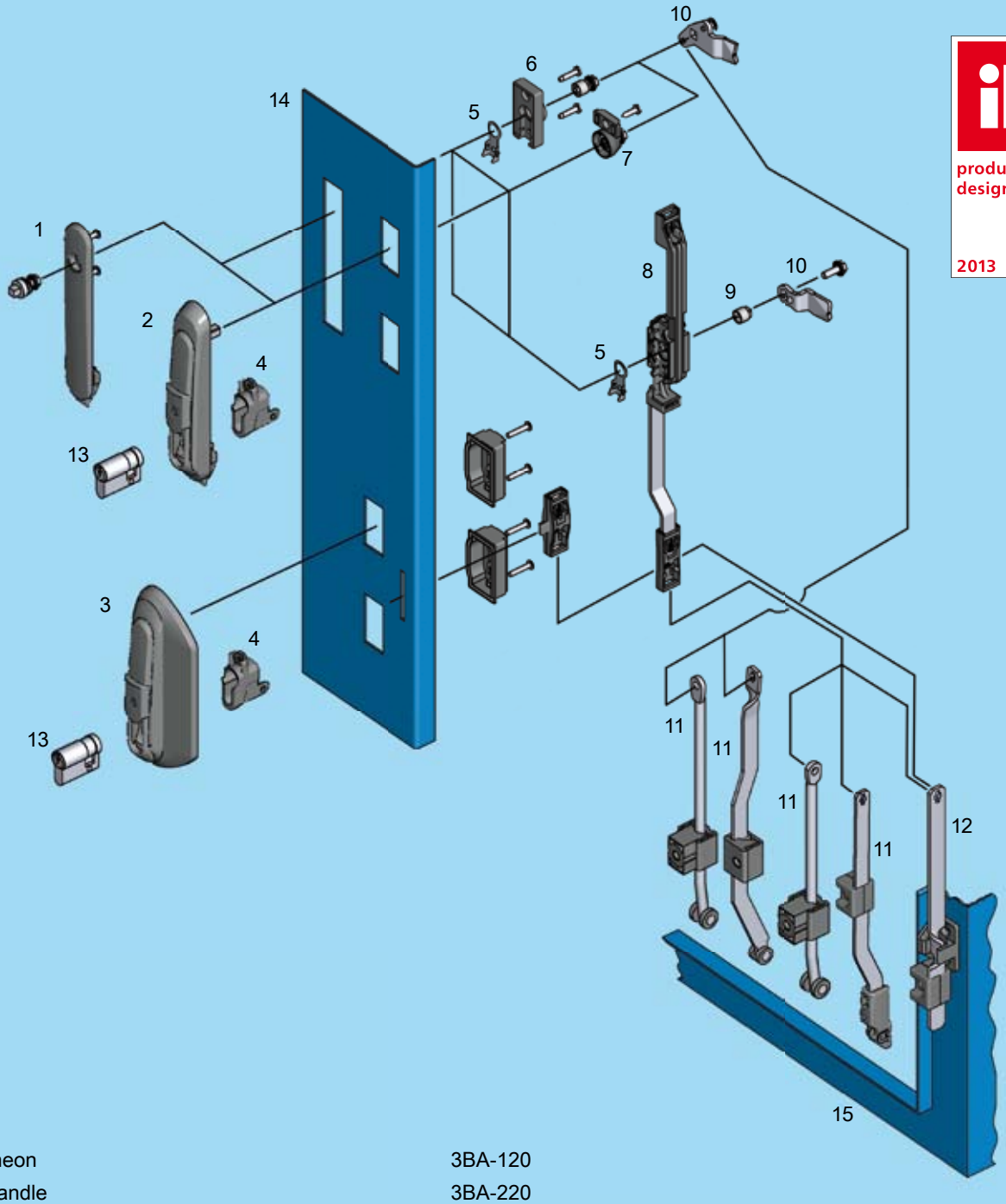
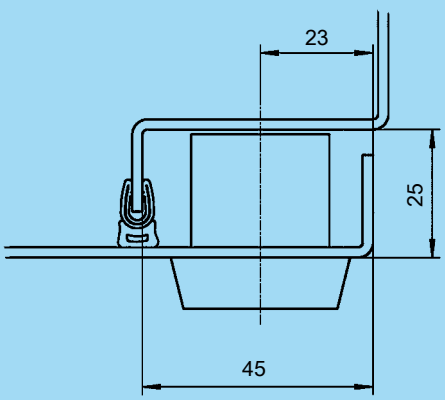
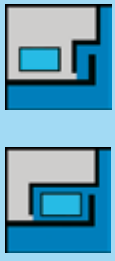
Swing handle and escutcheon
Program 1325



product design award 2013

1	Escutcheon	3BA-120
2	Swinghandle	3BA-220
3	Swing handle for narrow door return	3BA-320
4	Locking set	
5	Earth spring	
6	Bearing bush for escutcheon	
7	Adapter for swing handle	
8	Rod control	
9	Adapter	
10	Cam	
11	Rod (outside the gasketing)	
12	Rod (outside the gasketing)	
13	Locking set, e.g. profile half cylinder	
14	Door	
15	Housing/frame	





3BA-100

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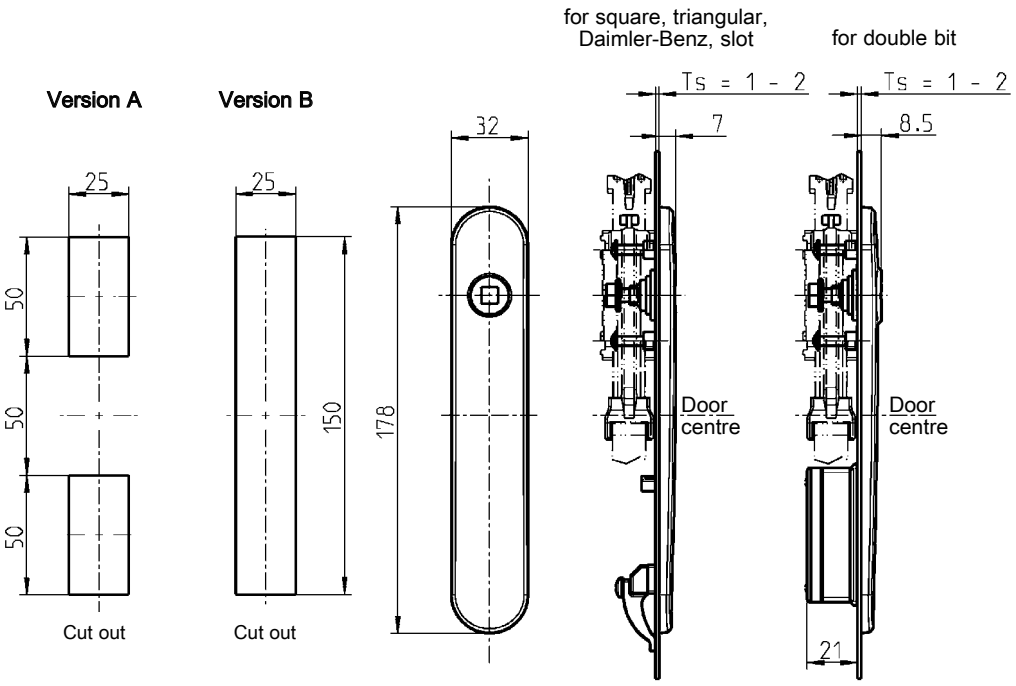
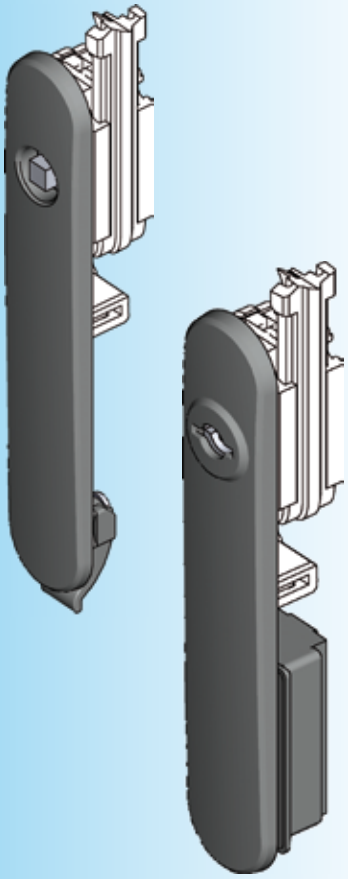
Notes:

Escutcheon

PROGRAM 1325



Examples of combinations



Multicolour pad print possible

Escutcheon polyamide GF black; hook or cap polyamide GF V0 black; screws m.s. zinc plated	Hook; IP 40	Cap; IP 65 with cut out version A
for square, triangular, Daimler-Benz, slot	1321-U1	1321-U3
for double bit	1321-U2	1321-U4
for national railway square 9	on request	on request
for FIAT	on request	on request
Insert zinc die chrome plated; fixing material m.s. zinc plated		
Square 6		1121-U11
Square 7		1121-U12
Square 8		1121-U13
Triangular 6.5 CNOMO		1121-U169
Triangular 7		1121-U14
Triangular 8		1121-U15
Double bit 3**		1121-U16
Double bit 5**		1121-U17
Square female 8		1121-U167
Daimler Benz		1121-U18
Slot 2 x 4		1121-U123
FIAT		1121-U24
National railway square 9		1121-U72

Accessories

Transport locking device polyamide GF black for double bit inserts

1121-32

Further parts see page

– Key 12B-120
– Rod control 3YA-110
3YA-120
3YA-140
– Bearing bush 3YB-120

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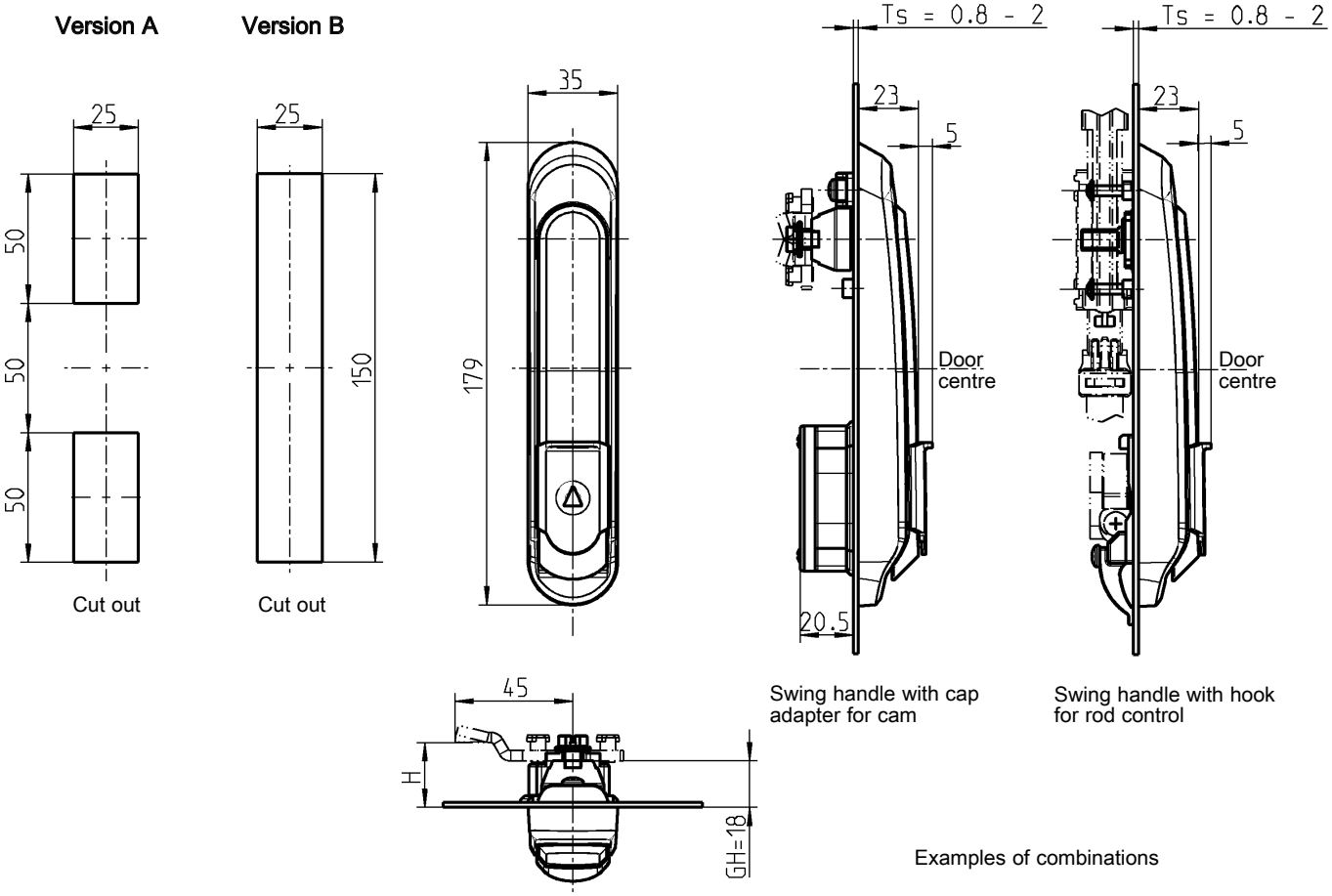
Swing handle with varable use of locking set

PROGRAM 1325

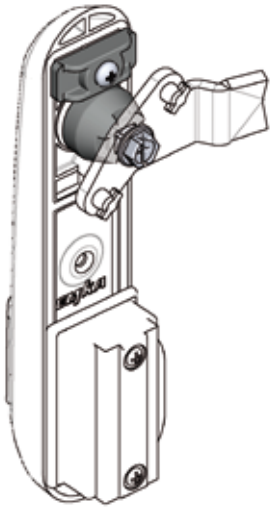


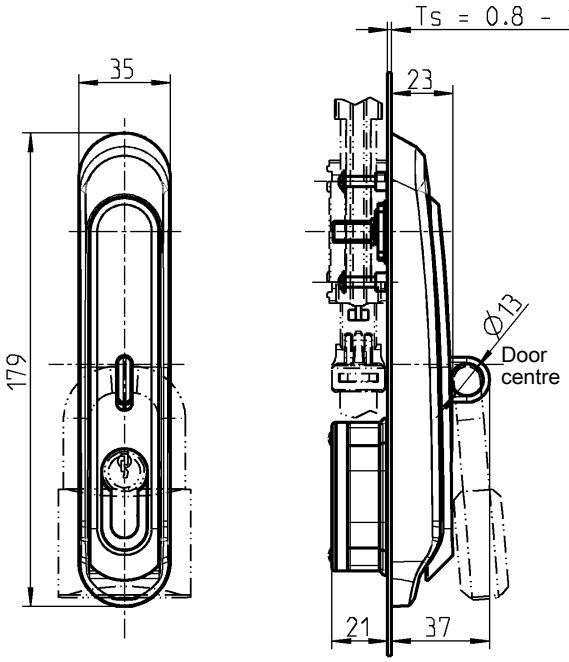
Swing handle with cap adapter for cam

Swing handle with hook for rod control

Examples of combinations

Adapter for cam 1325-U101, order separately





Swing handle with cap and for padlock and for rod control

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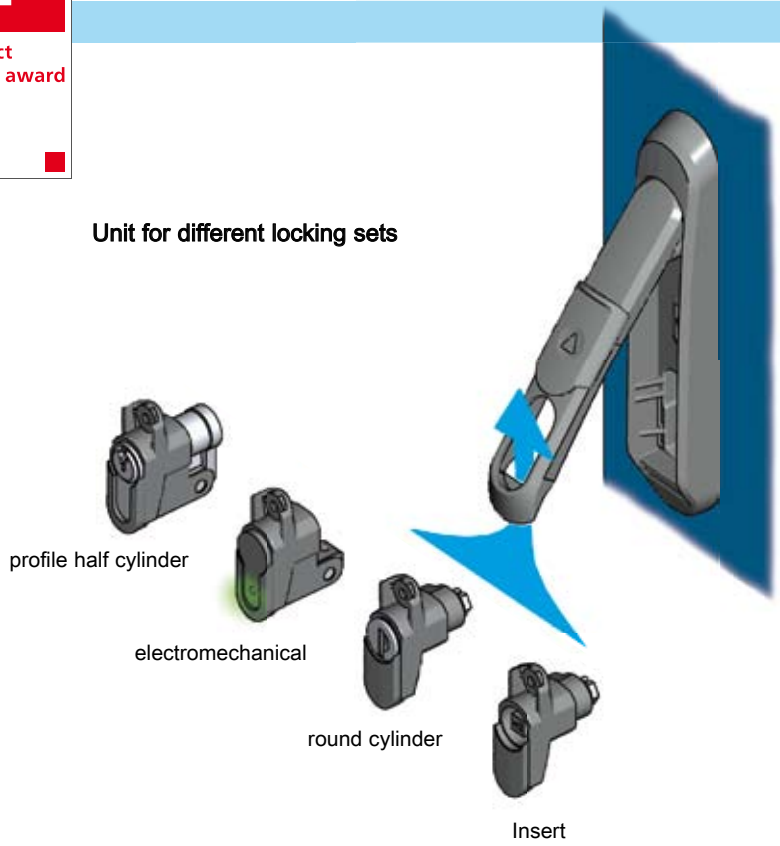

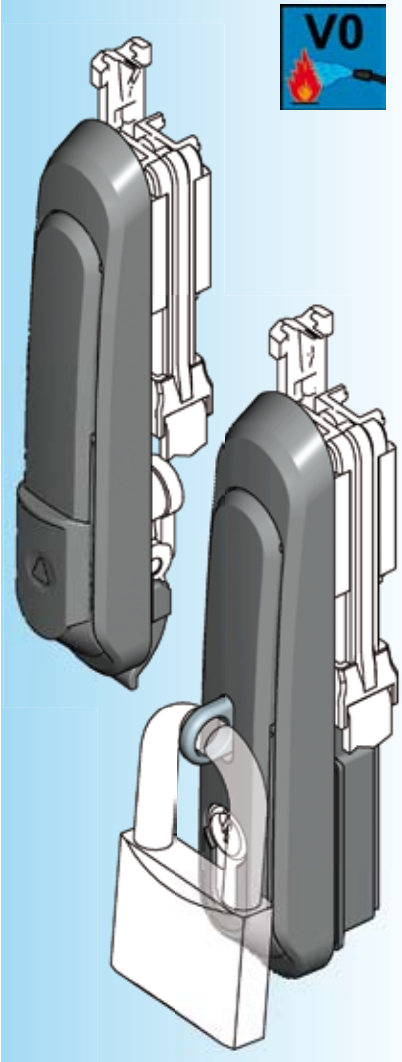

Newly defined standards

– innovative design (awards)
– ergonomic surface feel
– variable locking options
– consistent swing convenience, independent from assembly type
– integrated scratch protection prevents surface damage (handle / escutcheon)

Swing handle for rod control handle and dish polyamide GF black; cylinder cover polyamide GF black (not for swing handle for padlock)		
(1)(please order locking set separately) (2) (with cut out version A) (3) (In case of profile half cylinder the locking cam has to be at 90°)	without locking set (1)	without locking set for profile half cylinder 40 mm (A = 30 cm) (3)
Swing handle with hook; IP 40	1325-U1	1325-U1-01
Swing handle with cap; IP 65 (2)	1325-U2	1325-U2-01
Swing handle with hook and for padlock; IP 40	1325-U3	1325-U3-01
Swing handle with cap and for padlock; IP 65 (2)	1325-U4	1325-U4-01
Adapter for cam PBT GF V0 black; bridge bar polyamide GF V0 black; fixing material m.s. zinc plated		
		1325-U101

Multicolour pad print possible

Swing handle without cylinder cover on request

Further parts see page
– Profile half cylinder 3XB-120 (Blind plug without spring loaded ball not usable)

– Locking set 3XC-120
– Cams (for adapter) 3YC-120
– Rod control 3YA-110, 3YA-120, 3YA-140
– Cam for rod control (3-point latch system) 3YA-840

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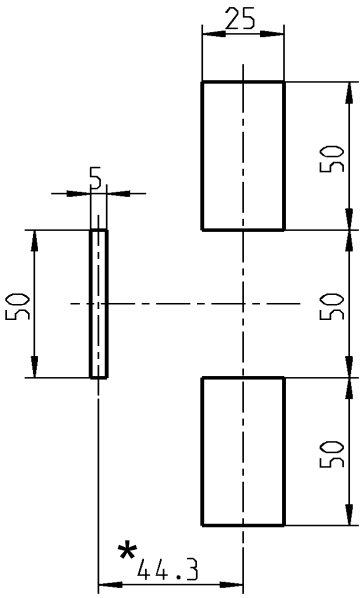
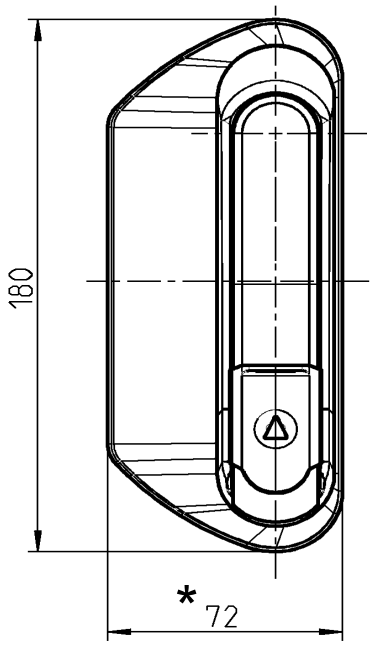
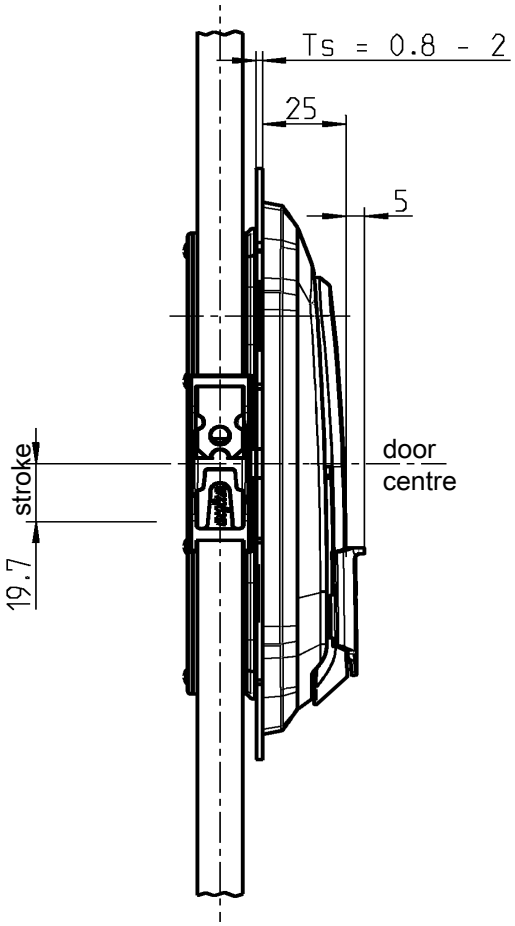
Swing handle with variable use of locking sets

PROGRAM 1325

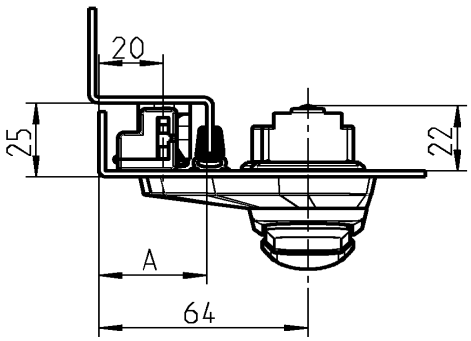


Cut out





Movement of rod is unidirectional



Example of an installation

Locking option	Dimension A
1	33
2	33
3	37

Newly defined standards

– innovative design (awards)
– ergonomic surface feel
– variable locking options
– quick assembly and simple right-left change
– integrated scratch protection prevents surface damage (handle / escutcheon)
– rattle-free rod connection by patented clip-in connection

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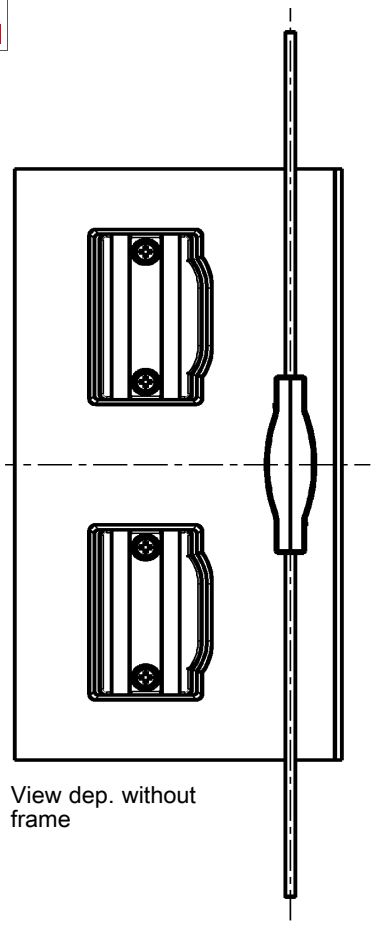


View dep. without frame

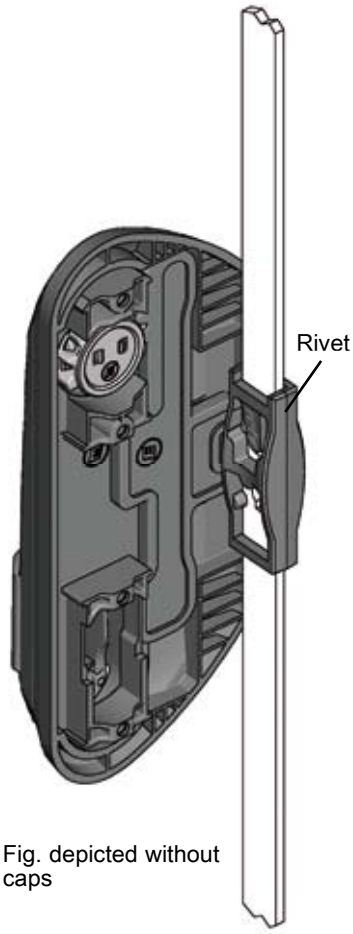
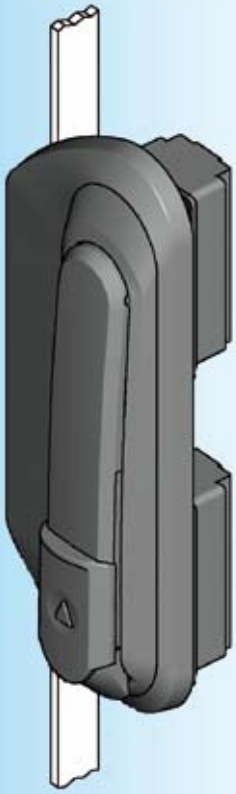


Fig. depicted without caps



Locking set for different locks (see catalogue page 3BA-220)

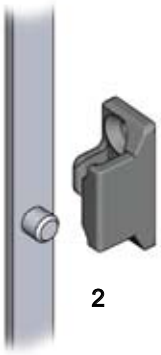
* = Item with different dim. on request!

Catch and hinge have the same fixing points

Locking options

1

disengaged rod



2

Rod with single roller

3

Rod with double roller

Multicolour pad print possible

Further parts see page

– Locking set	3XC-120
– Rods	3ZA-600

Swing handle and rivet polyamide GF black; caps polyamide GF V0 black; rack polyamide 66 GF 50 black; shaft with pinion zinc die zinc plated; fixing material m.s. zinc plated; with spring and seal

without locking set (please order locking set separately)	1325-U201

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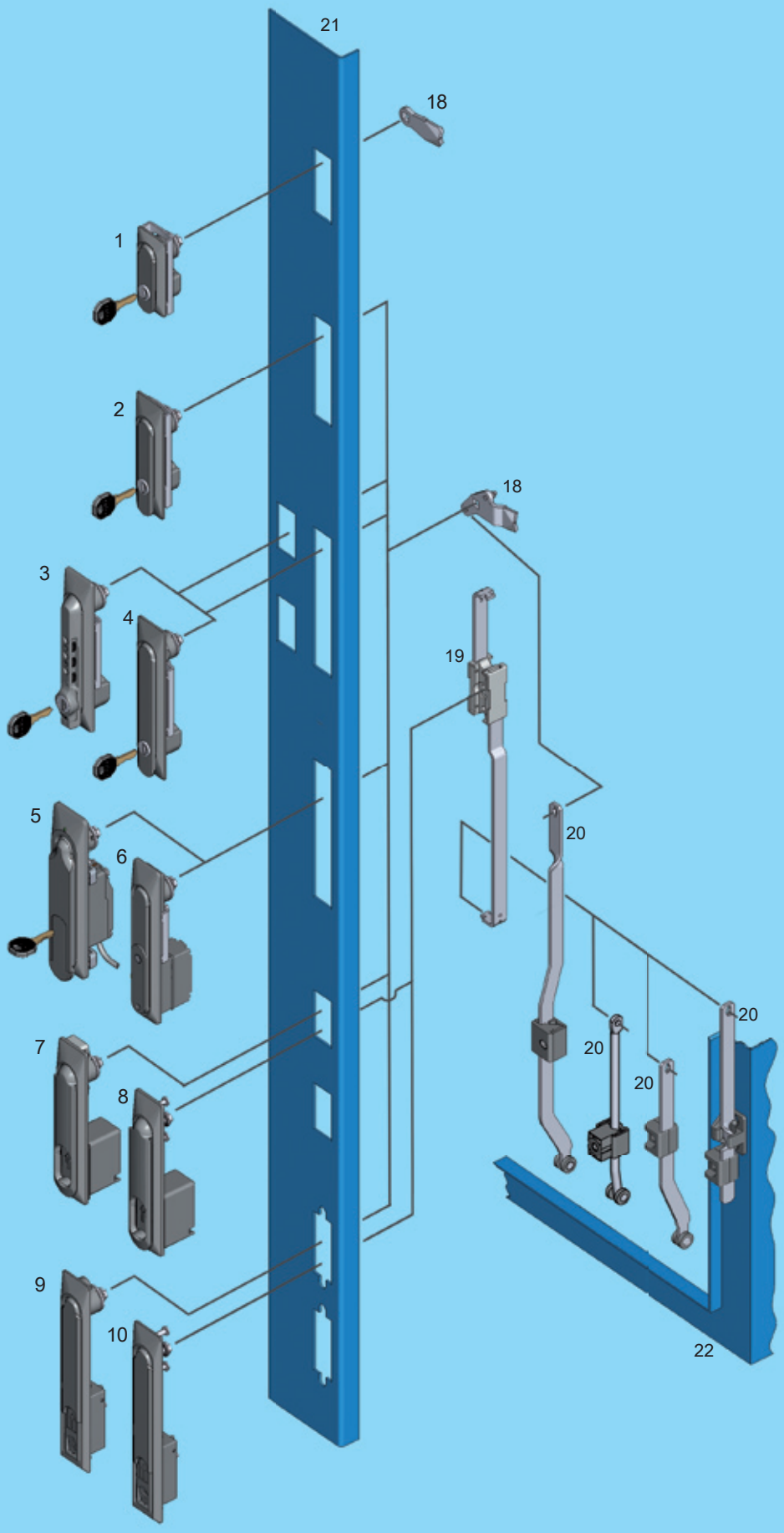
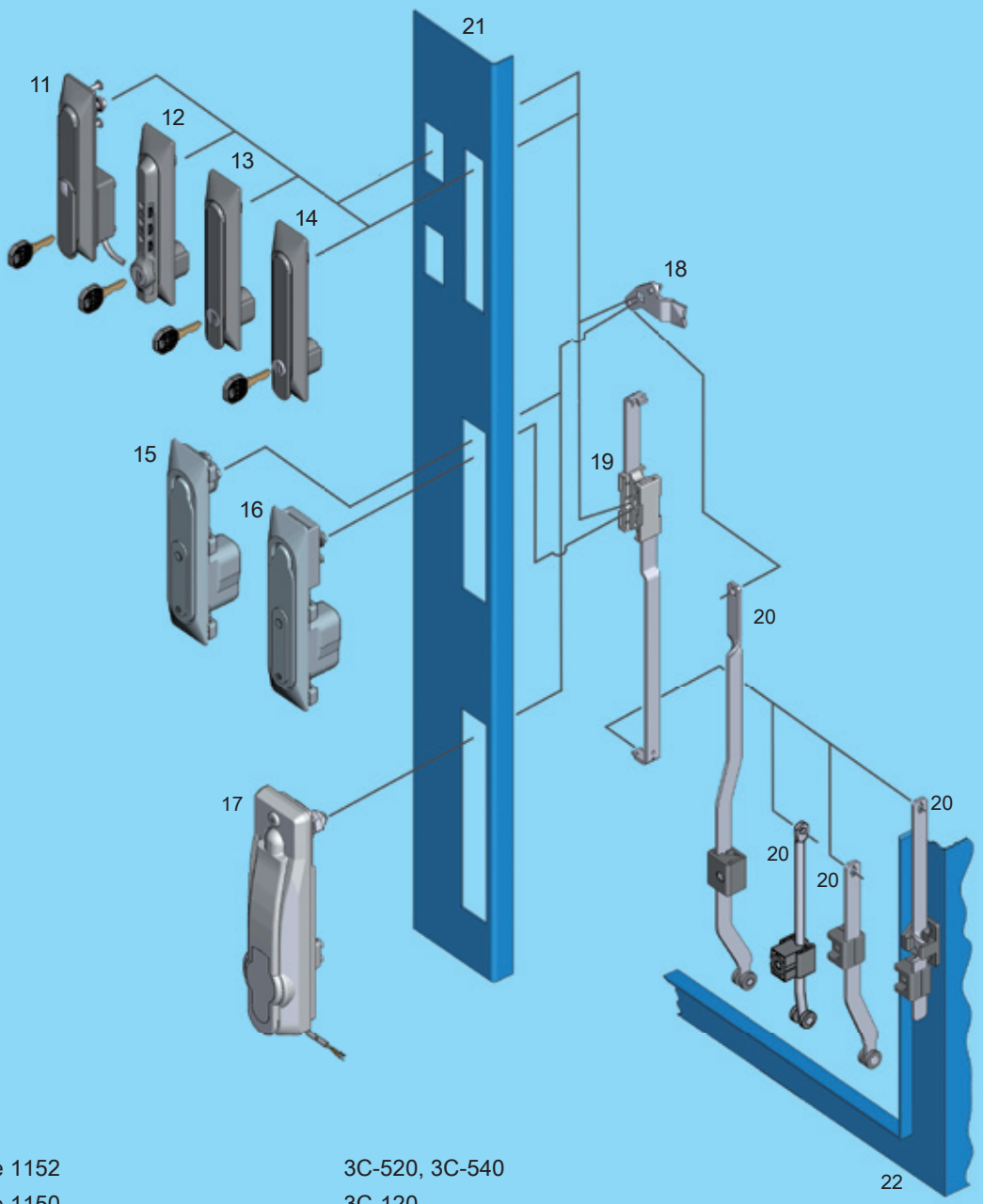
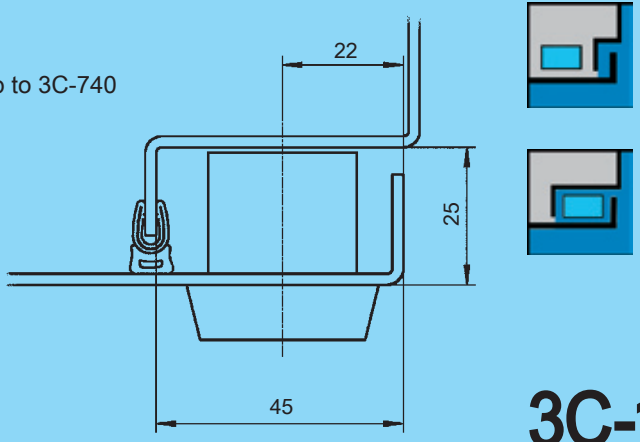
Swinghandle 1150





1	Swinghandle 1152	3C-520, 3C-540
2	Swinghandle 1150	3C-120
3	Swinghandle 1155	3C-620
4	Swinghandle 1150	3C-120, 3C-140
5	Swinghandle 1154 electromechanically	3C-240
6	Swinghandle 1154	3C-220
7	Swinghandle 1153 for cam	3C-320
8	Swinghandle 1153 for rod control	3C-320
9	Swinghandle 1151 for cam	3C-420
10	Swinghandle 1151 for rod control	3C-440
11	Swinghandle 1150 electromechanical	3C-160
12	Swinghandle 1155 with universal escutcheon	3C-750
13	Swinghandle 1150 with universal escutcheon and “Push to Lock”-action	3C-740
14	Swinghandle 1150 with universal escutcheon	3C-720 up to 3C-740
15	Swinghandle 1154 with WK2 for cam	3C-260
16	Swinghandle 1154 with WK2 for rod control	3C-260
17	Swinghandle 1154 electromechanical with WK2	3C-280
18	Cam	
19	Rod control	
20	Rods	
21	Door	
22	Cabinet/frame	

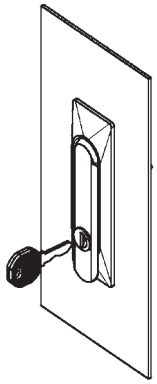


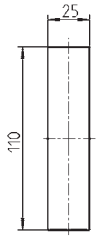
3C-100

Swinghandle 1150

PROGRAM 1150

Version A (small)





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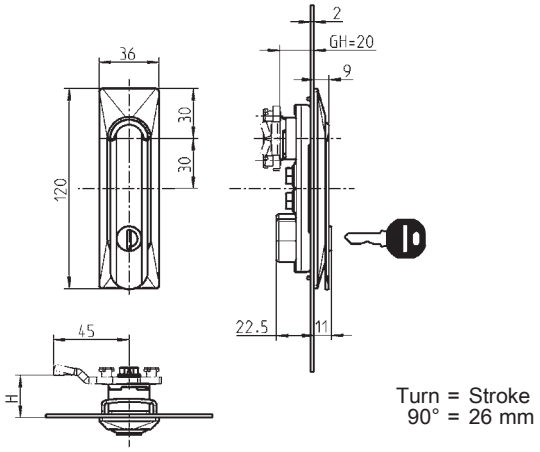
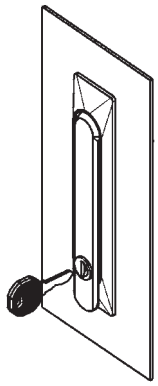
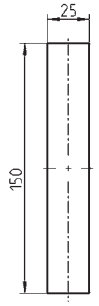


Turn = Stroke
90° = 26 mm

Version B (normal)





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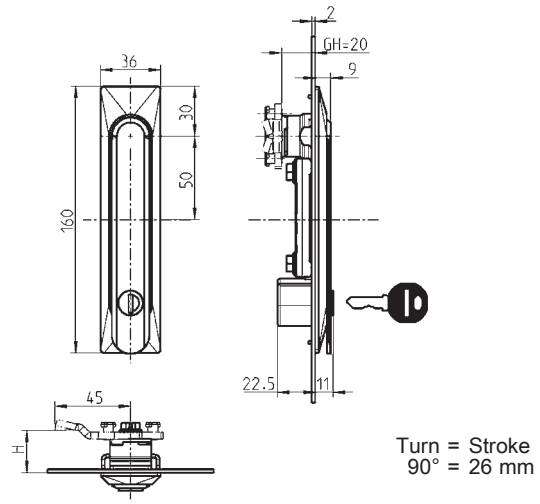

Turn = Stroke
90° = 26 mm

* EMC-Version 1150-U2-E

	Swinghandle zinc die black powder coated, round cylinder with stainless steel cap and shutter, fixing material m.s. zinc plated, shaft zinc die zinc plated, with seal, swinghandle is earthed		Swinghandle polyamide GF black, round cylinder with stainless steel cap and shutter, fixing material m.s. zinc plated, shaft zind die zinc plated, with seal		Swing handle zinc die black powder coated and dish polyamide GF black, round cylinder with stainless steel cap and dust cap, fixing material m.s. zinc plated, shaft zinc die zinc plated, with seal	
Version	**A**	**B**	**A**	**B**	**A**	**B**
keyed EK 333	1150-U1	1150-U2*	1150-U1-02	1150-U2-02	1150-U1-03	1150-U2-03
keyed different	1150-U3	1150-U4	1150-U3-02	1150-U4-02	1150-U3-03	1150-U4-03
Insert zinc die chrome pl.						
Square 6	1150-U20	1150-U9	1150-U20-02	1150-U9-02	1150-U20-03	1150-U9-03
Square 7	1150-U21	1150-U10	1150-U21-02	1150-U10-02	1150-U21-03	1150-U10-03
Square 8	1150-U22	1150-U11	1150-U22-02	1150-U11-02	1150-U22-03	1150-U11-03
Triangular 6,5 CNOMO	1150-U32	1150-U31	1150-U32-02	1150-U31-02	1150-U32-03	1150-U31-03
Triangular 7	1150-U23	1150-U12	1150-U23-02	1150-U12-02	1150-U23-03	1150-U12-03
Triangular 8	1150-U24	1150-U13	1150-U24-02	1150-U13-02	1150-U24-03	1150-U13-03
Double bit 3	1150-U25	1150-U14	1150-U25-02	1150-U14-02	1150-U25-03	1150-U14-03
Double bit 5	1150-U26	1150-U15	1150-U26-02	1150-U15-02	1150-U26-03	1150-U15-03
Daimler Benz	1150-U27	1150-U16	1150-U27-02	1150-U16-02	1150-U27-03	1150-U16-03
Slot 2x4	1150-U28	1150-U17	1150-U28-02	1150-U17-02	1150-U28-03	1150-U17-03
Hexagon 8 mm female with pin	1150-U29	1150-U18	1150-U29-02	1150-U18-02	1150-U29-03	1150-U18-03
Male hexagon 11 mm	1150-U30	1150-U19	1150-U30-02	1150-U19-02	1150-U30-03	1150-U19-03
Push button	on request	on request	on request	on request	1150-U55-03	on request

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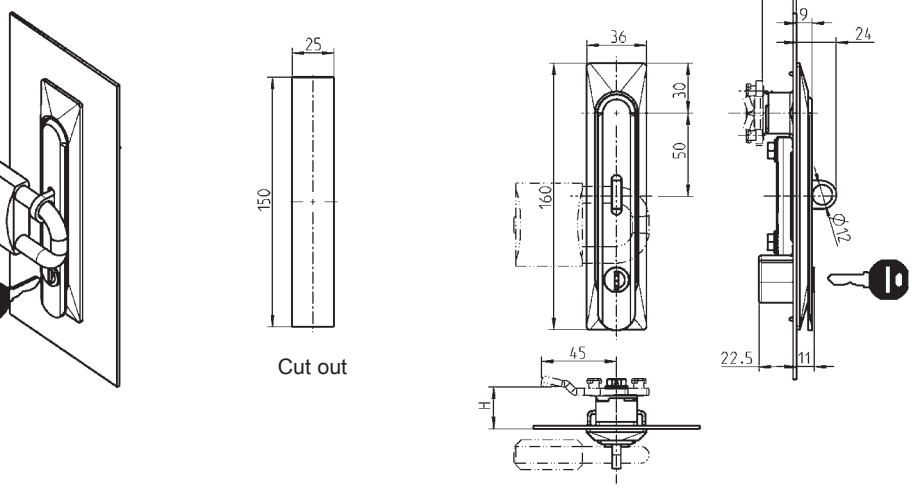
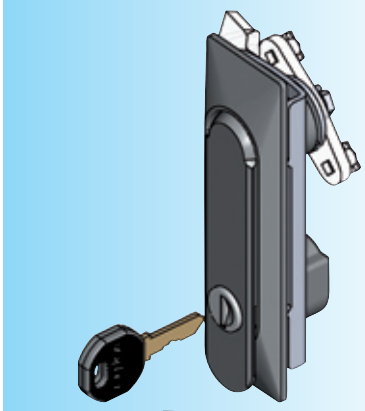
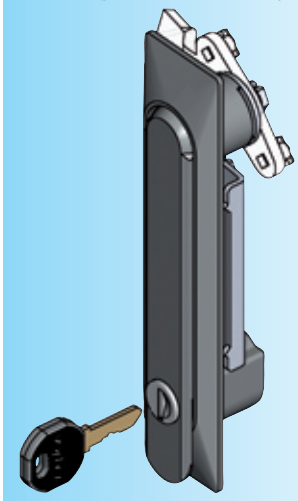
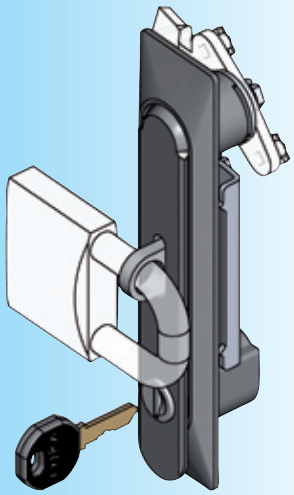


Each round cylinder has one silver steel key with polyamide grip GF black.

Swing handle zinc die black powder coated, round cylinder with stainless steel cap and dust cap, padlock shackle AISI 316, shaft zinc die zinc plated, with seal, fixing material m.s. zinc plated, swing handle earthed	
Version B for padlock	
keyed EK 333	1150-U2-01
keyed different	1150-U4-01
Insert zinc die chrome pl.	
Square 6	1150-U9-01
Square 7	1150-U10-01
Square 8	1150-U11-01
Triangular 6,5 CNOMO	1150-U31-01
Triangular 7	1150-U12-01
Triangular 8	1150-U13-01
Double bit 3	1150-U14-01
Double bit 5	1150-U15-01
Daimler Benz	1150-U16-01
Slot 2x4	1150-U17-01
Hexagon 8 female with pin	1150-U18-01
Hexagon 11 male	1150-U19-01
Push button	on request







Further parts see page
– Key 12B-120
– Spare key 12B-140
– Cam (GH = 20) 3YC-140

On request:
– handle blank
(no locking system)

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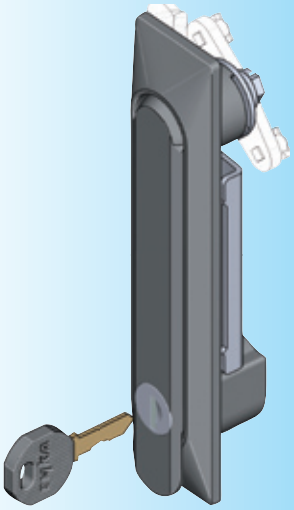
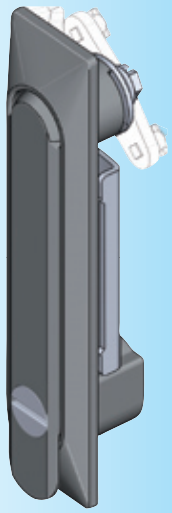
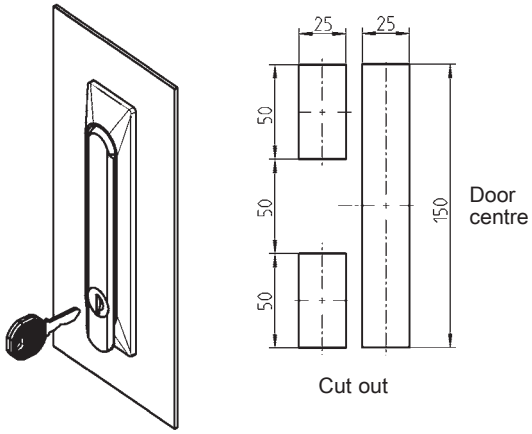
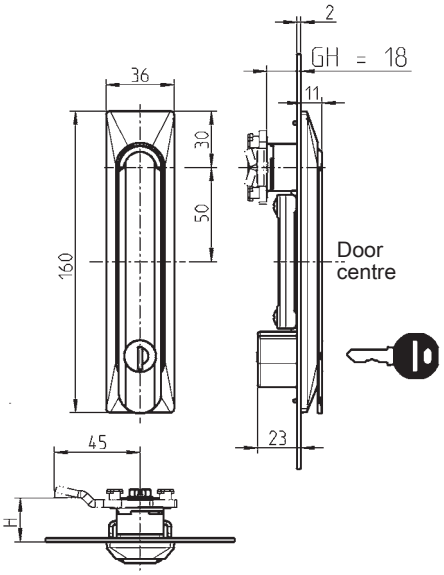
Swinghandle* 1150

PROGRAM 1150









Swinghandle zinc die black powder coated, escutcheon polyamide black, fixing material m.s. zinc plated, shaft zinc die zinc plated, round cylinder with stainless steel cap and shutter, with seal Each round cylinder has one silver steel key with polyamide grip GF black.	
keyed EK 333	1150-U33-03
keyed different	1150-U34-03
Inserts: Chrome plated zinc alloy	
Square 6	1150-U36-03
Square 7	1150-U37-03
Square 8	1150-U38-03
Triangular 6,5 CNOMO	1150-U39-03
Triangular 7	1150-U40-03
Triangular 8	1150-U41-03
Double bit 3	1150-U42-03
Double bit 5	1150-U43-03
Daimler Benz	1150-U44-03
Slot 2x4	1150-U35-03
Hexagon female 8 with pin	1150-U45-03
Hexagon 11 male	1150-U46-03

* can be assembled in cut out of 1125/1225

Further parts see page
– Key 12B-120
– Spare key 12B-140
– Cam (GH = 18) 3YC-120

On request:
– Key retained in the open position of the cylinder
– Other inserts

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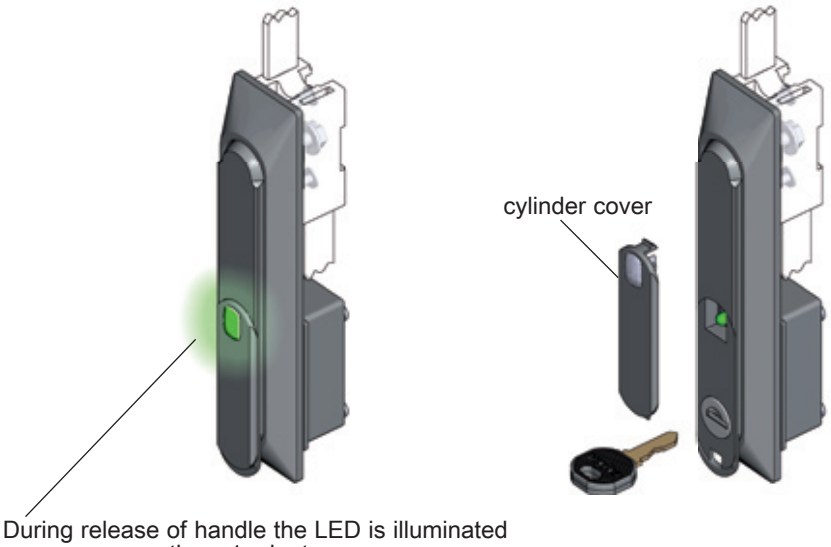
Swinghandle 1150 with electromechanical release and emergency opening

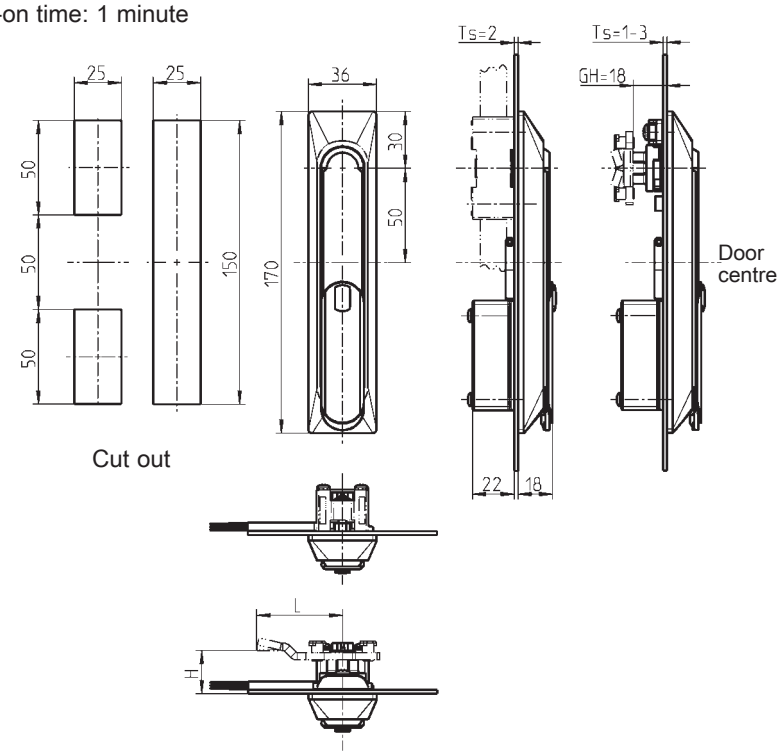
PROGRAM 1150

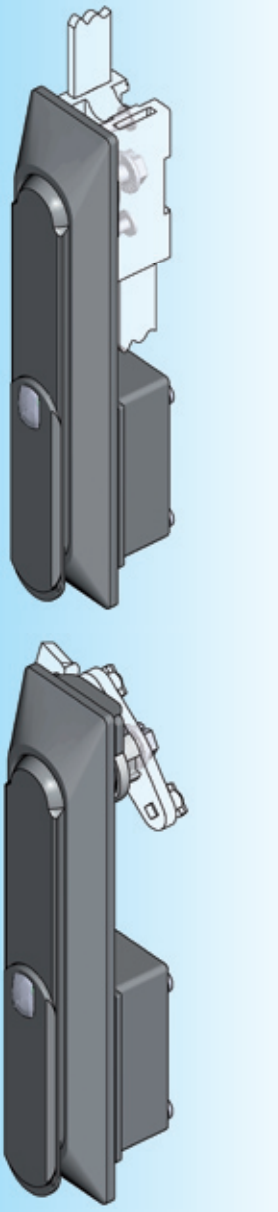
EMKA Beschlagteile

This handle is suitable for locking of indoor cabinets. It is released by applying a voltage signal of 12 V or 24 V DC. After the handle has been pressed briefly into the dish, it can be opened. The integrated reed contact indicates the handle status. To lock the handle it must be pressed into the dish until the closing mechanism engages. The key provided is used to open the handle in case of power failure. For this the cover over the locking cylinder must be removed. The cover will be destroyed thereby and must be replaced.



During release of handle the LED is illuminated
max. power-on time: 1 minute





Handle zinc die black powder coated; dish and cap polyamide GF black;cylinder cover Bio-Flex black;shaft AISI 303, round cylinder with stainless steel cap and dust cap; soleoid with electronics;reed switch and LED;connecting cable(4 m;fixing material m.s. zinc plated. Each round cylinder has one silver steel key with polyamide grip GF black.		
	keyed EK 333	**keyed different**
Solenoid 12V, for rod control	1150-U56	1150-U56-V
Solenoid 24V, for rod control	1150-U56-01	1150-U56-01V
Solenoid 12V, for cam	1150-U58	1150-U58-V
Solenoid 24V, for cam	1150-U58-01	1150-U58-01V
Cylinder cover polyamide GF black (spare part)		
		1150-B33

Further parts see page

– Cams (GH = 18)	3YC-120
– Rod control	3YA-110
	3YA-120
	3YA-140
– Spare key	12B-140

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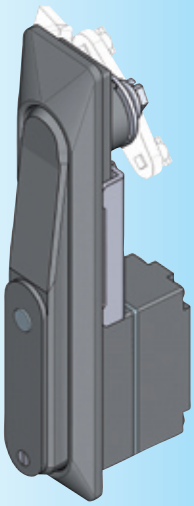
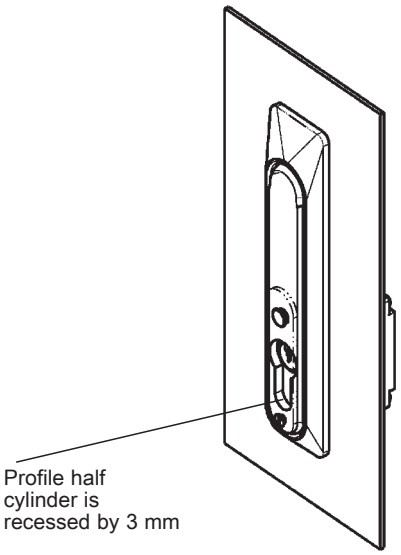
Swinghandle 1154

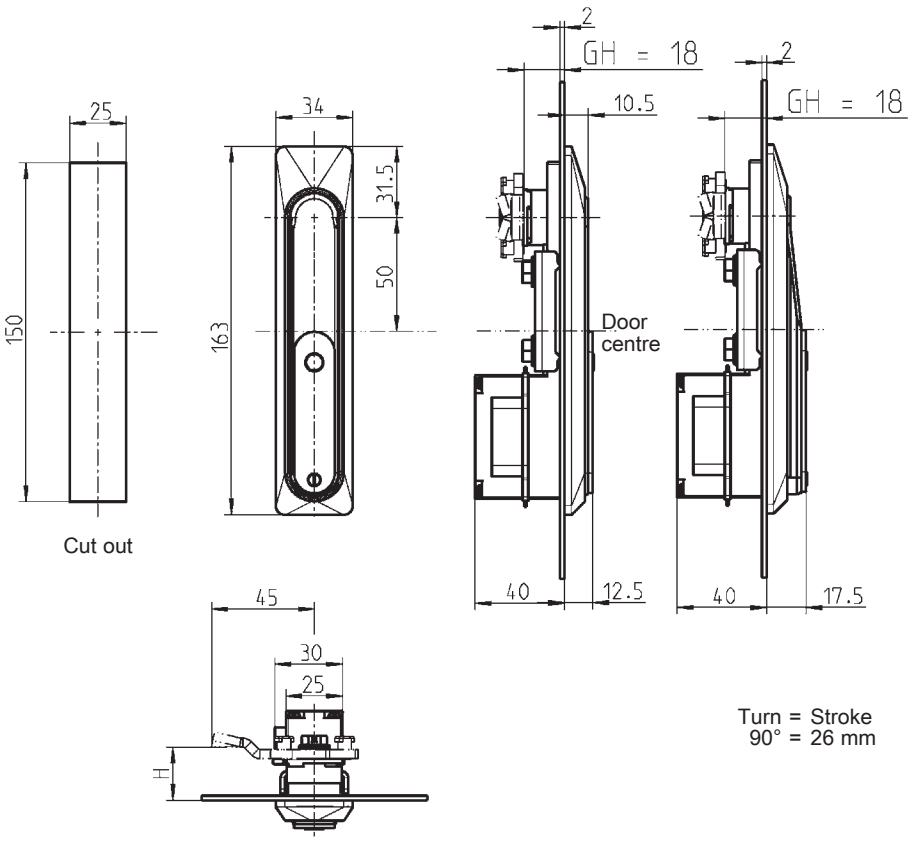
PROGRAM 1150

EDELSTAHL Rostfrei STAINLESS STEEL

Vandalism resistant







Turn = Stroke
90° = 26 mm

Suitable for profile half cylinder (length A = 30 or A = 35) DIN 18252 (EN 1303)

Swinghandle zinc die black powder coated, cap polyamide black, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal	
for profile half cylinder 40	1154-U1
for profile half cylinder 45	1154-U3
Swing handle AISI 316, shaft AISI 303, cap polyamide black, fixing material stainless steel, with seal	
for profile half cylinder 40	1154-U2

Further parts see page

– Cam (GH = 18)	3YC-120
– Profile half cylinder	3XB-120

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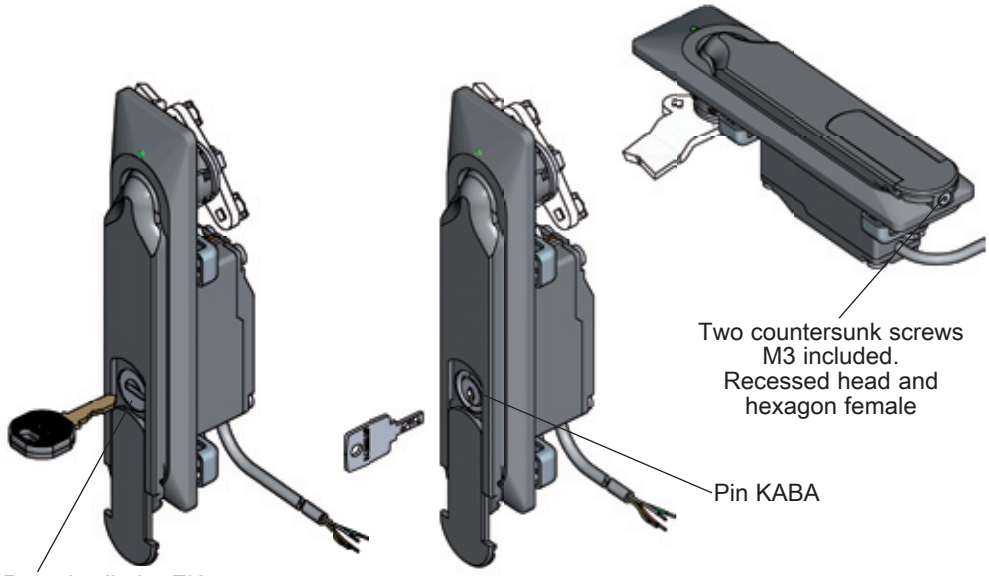
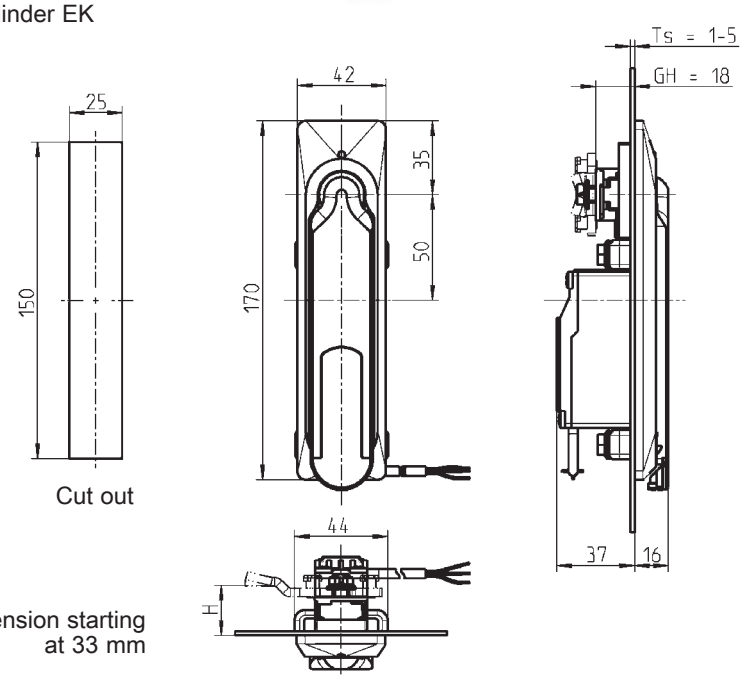
Swinghandle 1154 with electromechanical release and emergency opening

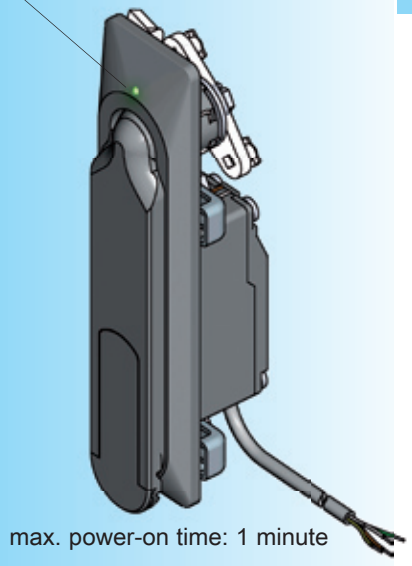
PROGRAM 1150

This handle is suitable for locking outdoor cabinets. By applying a 12 V, 24 V or 48 V DC Signal, the handle can be released. After pushing the handle briefly into the dish, it can be opened.
The integrated reed contact serves as remote control of the handle Status. For locking the handle has to be pushed into the dish until the lock mechanism latches. The supplied key is used for opening the handle in case of power failure. To open the cylinder cover the screw M3 has to be removed. Then it is possible to unlock by means of round / pin cylinder.



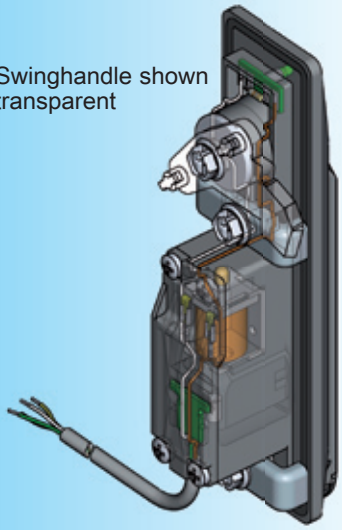


During release of handle the LED is illuminated.



max. power-on time: 1 minute

Swinghandle shown transparent



Swinghandle zinc die black powder coated, cap and dust cap polyamide GF black, shaft zinc die zinc plated, holder AISI 304, round cylinder EK with stainless steel cap and shutter, brass pin, solenoid with electronics, reed contact and LED, cable (4 m), screw M3 for cylinder cover AISI 304, fixing material m.s. zinc plated, with seal.
Each cylinder EK with one key silver steel with grip polyamide GF black

	keyed EK 333	keyed different
Round cylinder EK; 48V	1154-U6	1154-U6-V
Round cylinder EK, 24V	1154-U6-02	1154-U6-02V
Round cylinder EK; 12V	1154-U6-03	1154-U6-03V
	keyed EH6993	**keyed different**
Pin KABA Micron Plus; 48V	1154-U6-01	1154-U6-01V
Pin KABA Micron Plus; 24V	1154-U6-04	1154-U6-04V
Pin KABA Micron Plus; 12V	1154-U6-05	1154-U6-05V

Further parts see page
– Cam (stroke 26) H-dimension as of 33 mm — 3YC-120
– Rod — on request
– Spare key EK — 12B-140
KABA — on request

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Notes:

Stainless steel swinghandle 1154 with WK2

PROGRAM 1150

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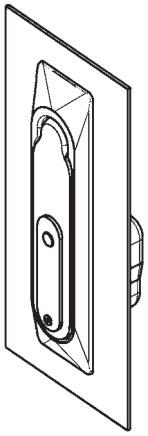
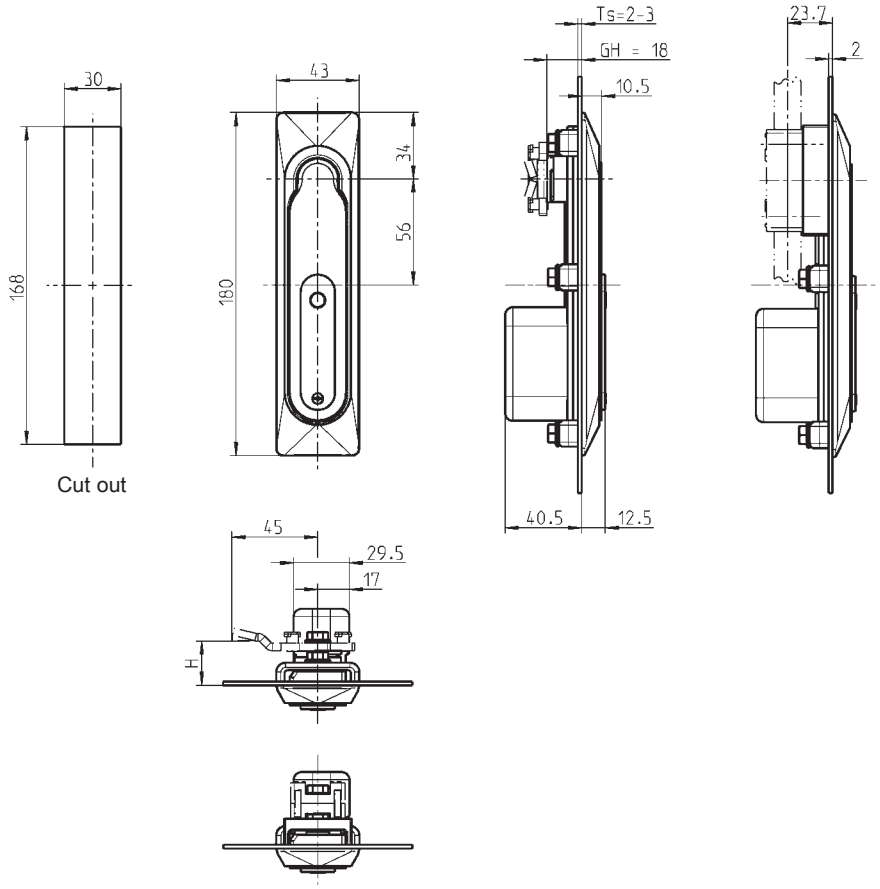
Suitable for profile half cylinder
(Length A=30) DIN 18252 (EN 1303)

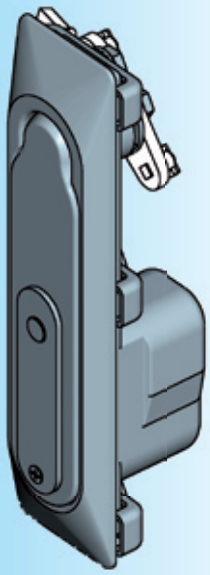
EDELSTAHL Rost frei STAINLESS STEEL



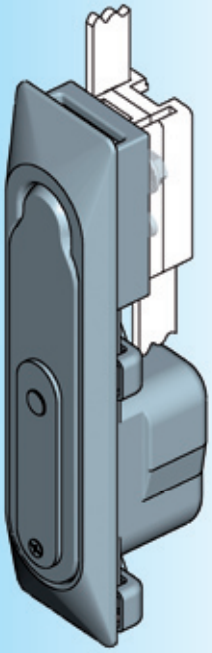
PIV Test certificate 20-15/07
The swinghandle has successfully passed the test according to WK 2 DIN V ENV 1630. The test was approved by the Test Institute for Locks and Fittings Velbert



Cut out



Turn 90° with cam



Swinghandle AISI 316, shaft AISI 303, fastening material stainless steel, with seal	
for cam	1154-U4
for rod control	1154-U5

Further parts see page

– Cam (GH=18)	3YC-120
– Rod control for cam	3YC-180
– Rod control	3YA-440
– Profile half cylinder	3XB-120

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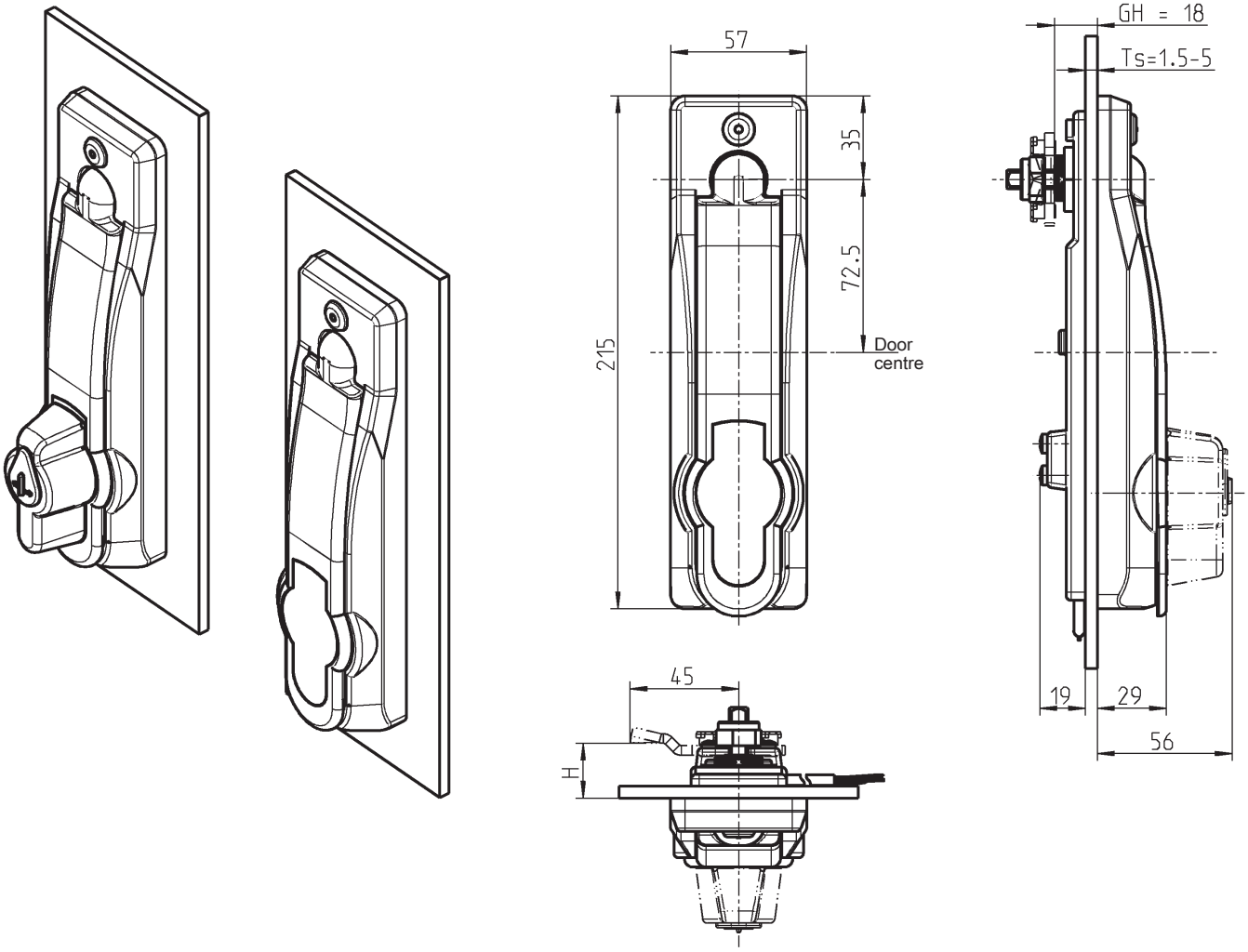
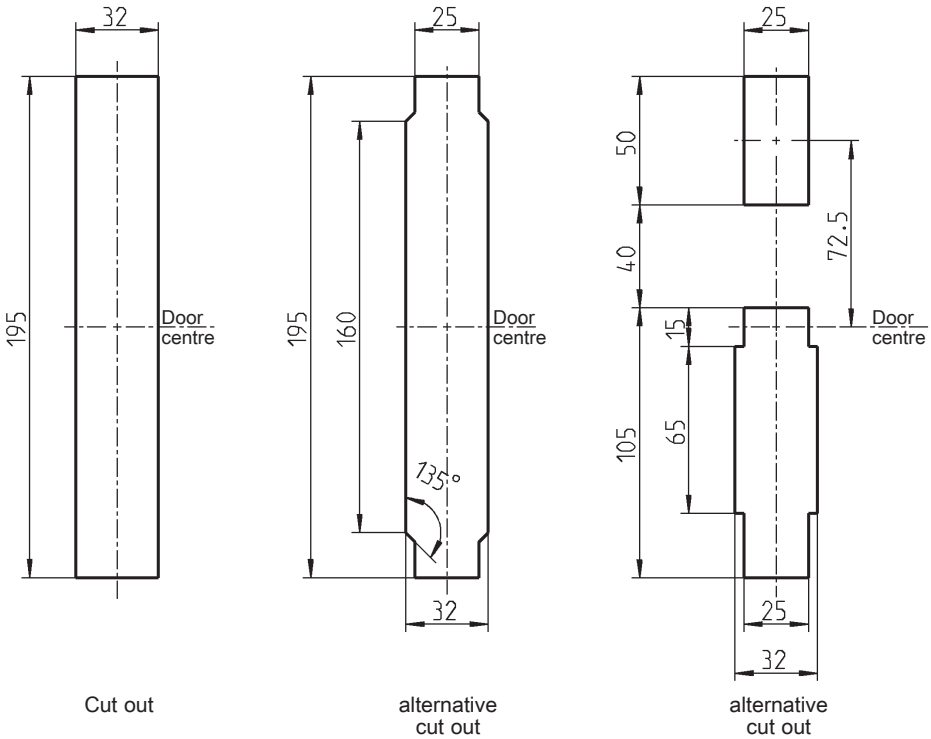
Swinghandle 1154 with RC2 and electromechanical release; limited emergency opening

PROGRAM 1150





Cut out

alternative cut out

alternative cut out

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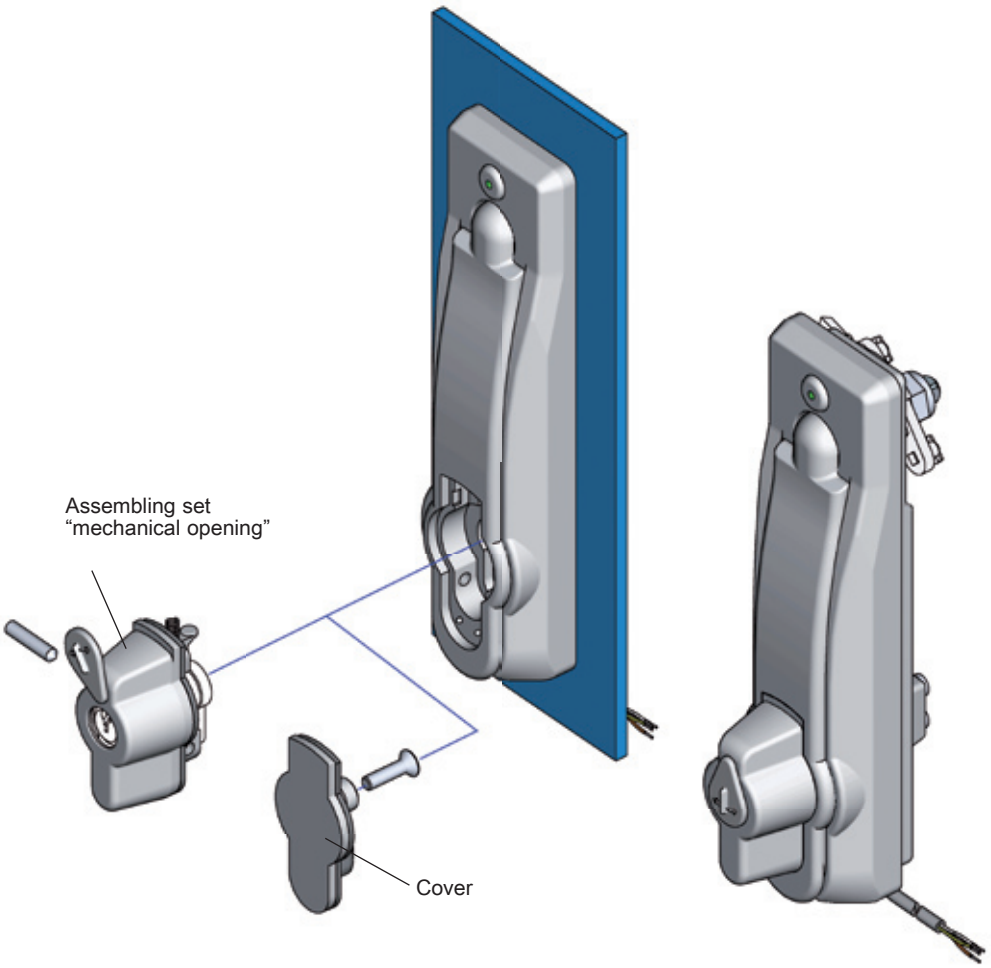
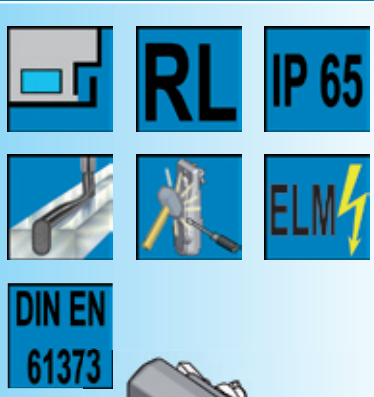
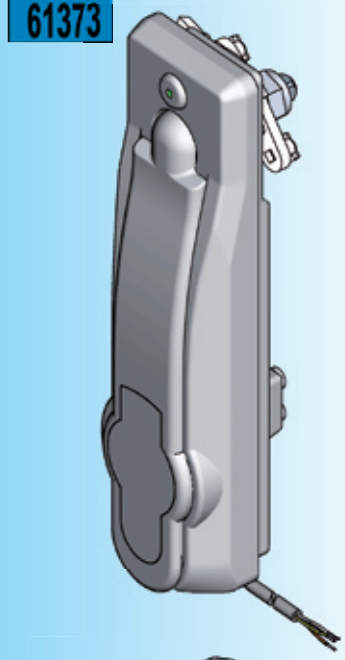
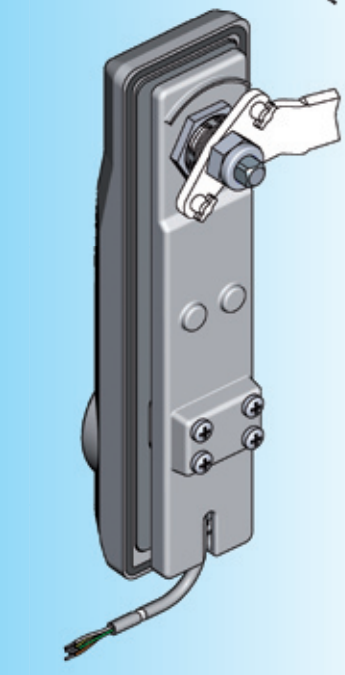
This handle is suitable for indoor and outdoor applications from -30°C to +80°C. It is released by applying a 48 V DC signal. On release of the handle, the LED is illuminated.
After the handle has been pressed into the dish, it will open.
The integrated reed contact indicate the handle status. To lock the handle must be pressed into the dish until the locking mechanism engages.
The ready-assembled swinghandle with cover is IP65 on the front and IP42 on the back; with the assembling set „mechanical opening" it is IP54.
With cover in place, the handle is vibration and shock tested and complies to resistance class standard "RC2". It is not possible to open the handle nondestructively after mounting the cover.



PIV Certificate 20-28/09
The swinghandle has successfully passed the test according to WK 2 DIN V ENV 1630 (RC2). The test was approved by the official Test Institute for Locks and Fittings in Velbert, Germany.







Assembly kit "mechanical opening" in stainless steel on request!

Further parts see page
– Cam (stroke 26) 3YC-120
– Rod 3ZB-540
– Profile half cylinder 3XB-320

Swinghandle zinc die light grey powder coated (RAL 7035), Cover AISI 316 light grey powder coated (RAL 7035), shaft AISI 303, solenoid with electronics, reed contact, LED and cable (4m), fixing material m.s. zinc plated, with seal.	
	1154-U12
Assembling set "mechanical opening" polyamide light grey (RAL 7035), trigger zinc die zinc plated, spring stainless steel, fixing material m.s. zinc plated, with seal.	
for profile half zylinder	1154-U11

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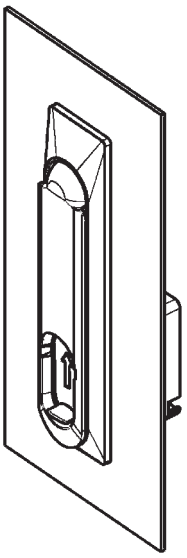
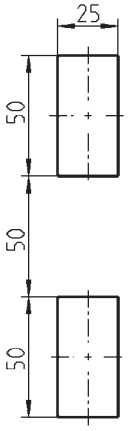
Swinghandle* 1153

PROGRAM 1150

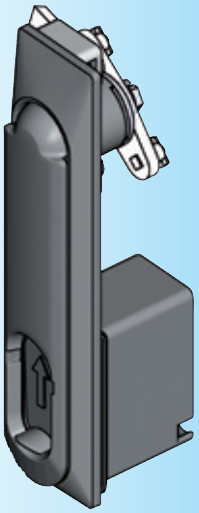
RL IP 65

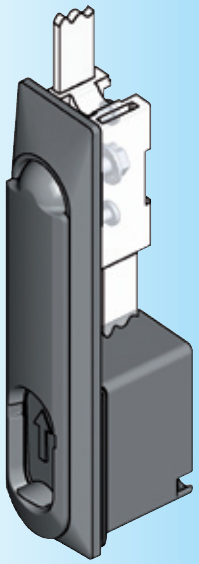
suitable for profile half cylinder (length A = 30)
DIN 18252 (EN 1303)

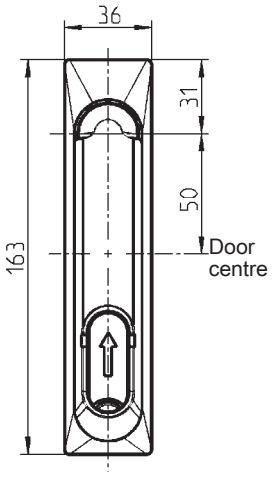


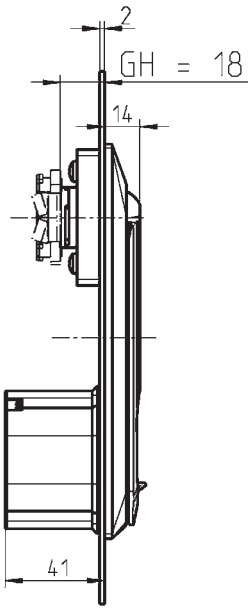


Cut out

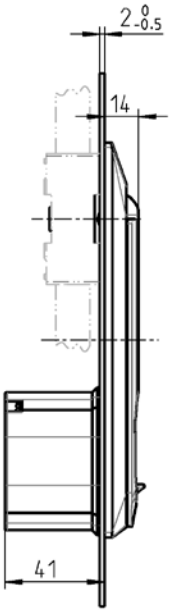




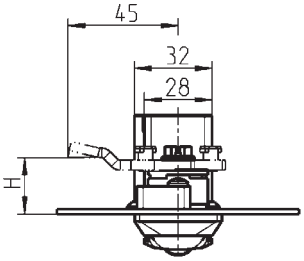




Version A



Earthing with version B



Attention: Housing length GH = 18 mm

* can be assembled in cut out of 1125/1225

Further parts see page

for version A
– Cam (GH = 18) 3YC-120

for version B
– Rod control only inside of the seal 3YA-110, 3YA-120, 3YA-140

for version A and B
– Profile half cylinder 3XB-120

Swinghandle zinc die black powder coated, fixing material m.s. zinc plated, shaft zinc die zinc plated, with seal	
Version A for cam	1153-U1
Rod control and earthing with version B	1153-U2

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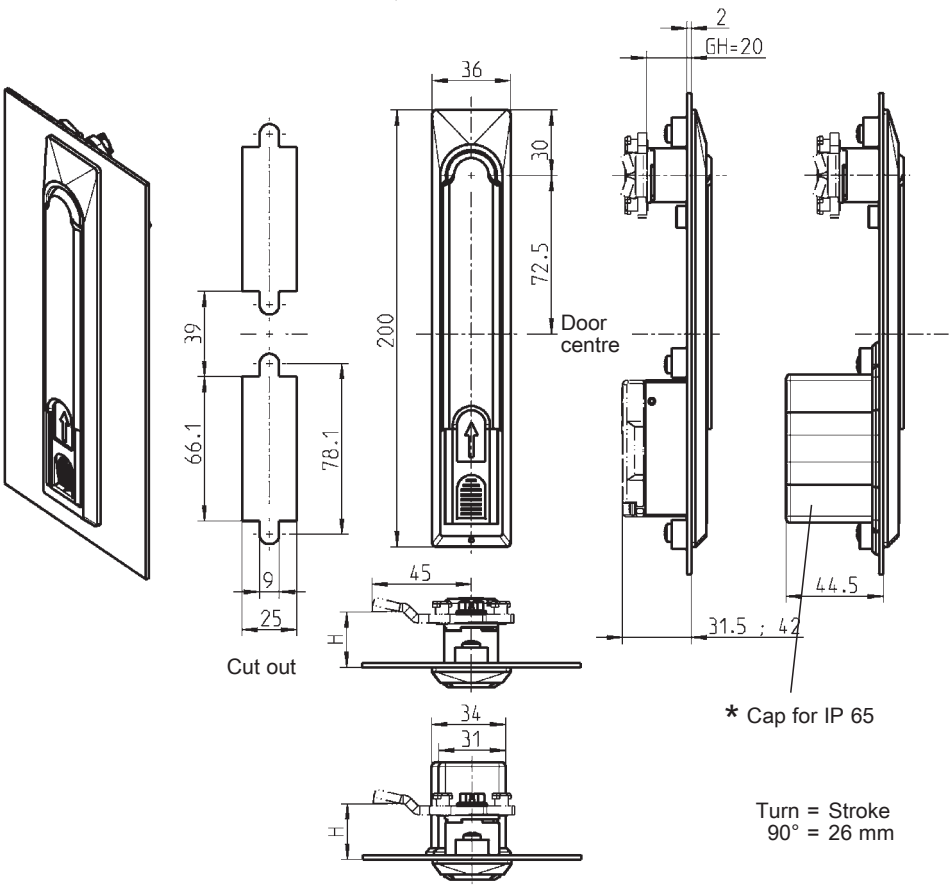
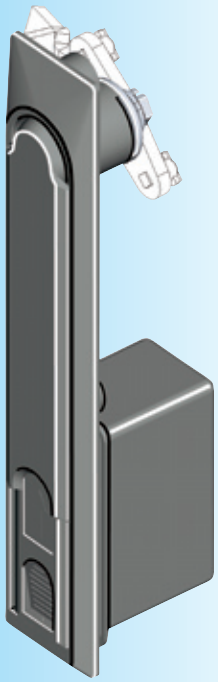
Swinghandle 1151

PROGRAM 1150





* Dimension:
38,5 (wide) x 97 (length), cap for profile half cylinder
35 (wide) x 97 (length), cap for insert and round cylinder

Swinghandle zinc die black powder coated, fixing material m.s. zinc plated, shaft zinc die zinc plated, with seal	
IP-Rating: IP 54	1151-U1
IP 65 with:	
cap for profile half cylinder	1151-05
cap for insert and round cylinder	1151-05-01

Note:
Swinghandle without locking set

Further parts see page

– Locking set	3XA-120 3XA-140
– Locking set ELM	chapter 11
– Cam (GH = 20)	3YC-140

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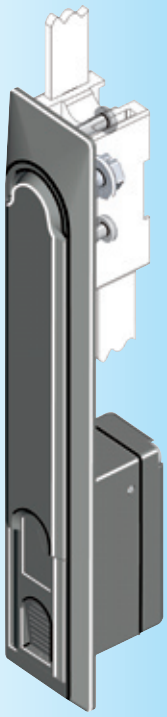
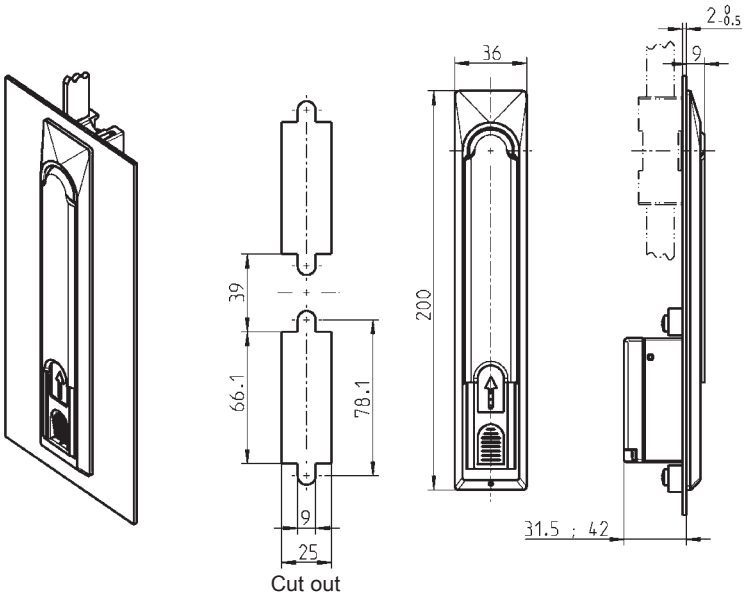
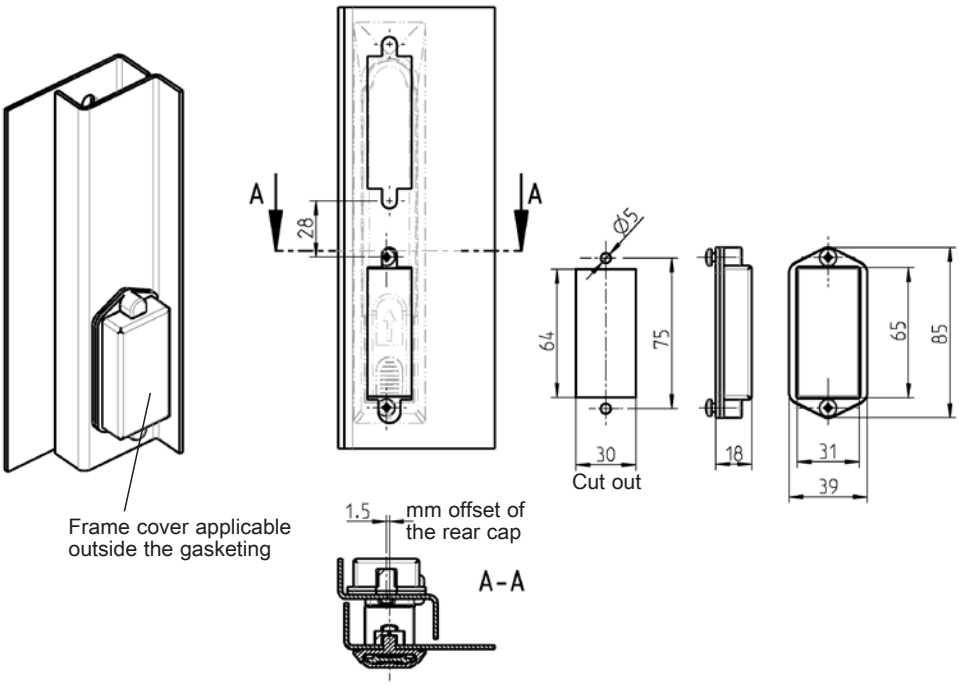
Swinghandle 1151

PROGRAM 1150







Note:
Swinghandle without locking set

Further parts see page

– Locking set	3XA-120 3XA-140
– Locking set ELM	Kapitel 11
– Rod control	3YA-420

Swinghandle zinc die black powder coated, fixing material m.s. zinc plated, shaft zinc die zinc plated, with seal	
	1151-U3
Frame cover polyamide black, fixing material m.s. zinc plated for LH and RH application, with seal	
	2100-U31

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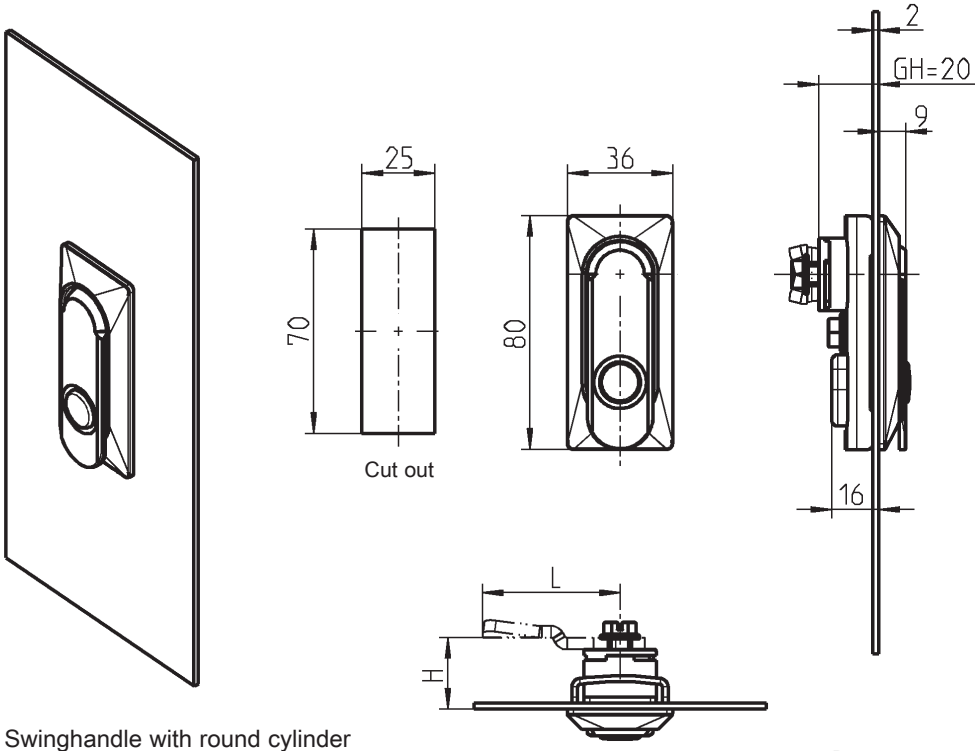
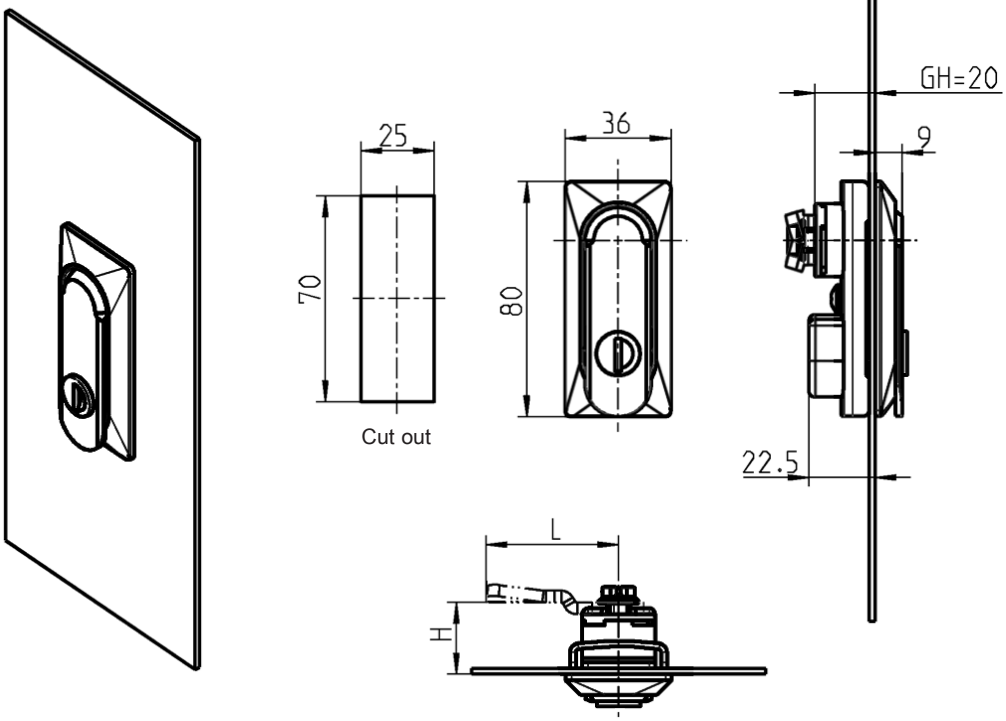
Swinghandle 1152

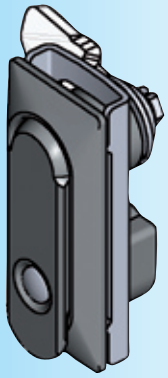
PROGRAM 1150

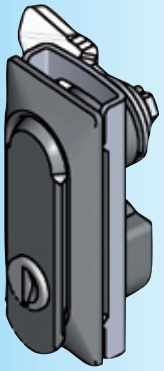
Swinghandle with push button or blind

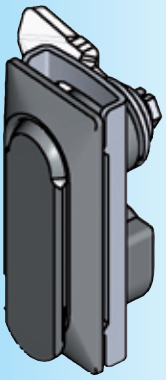


Swinghandle with round cylinder









Turn 90°

Swinghandle zinc die black powder coated, round cylinder with stainless steel cap and shutter, fixing material m.s. zinc plated, shaft zinc die zinc plated, push button polyamide silver, with seal. Each round cylinder has one silver steel key with polyamide grip GF black.	
Push button	1152-U1
keyed EK 333	1152-U2
keyed different	1152-U4
Blank	1152-U3

Note:
Version in polyamide on request.

Further parts see page
– Cam without catch (not for cam with rod control) 1C-120
– Spare key 12B-140

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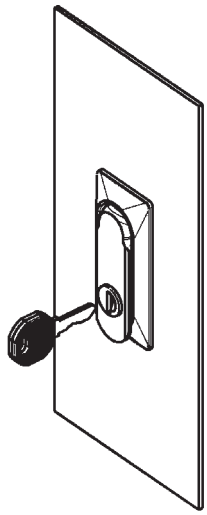
Swinghandle 1152 with compression

PROGRAM 1150



As the handle is pushed into the escutcheon (see fig 2) the cam moves 3 mm axially towards the door.

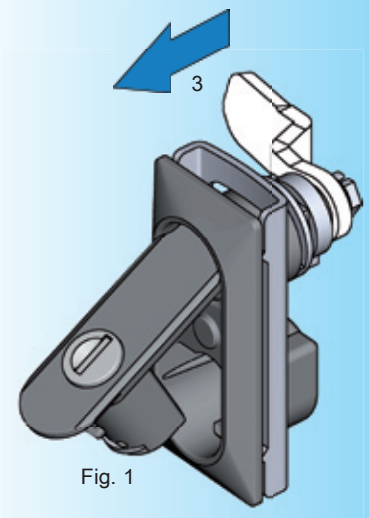


Fig. 1

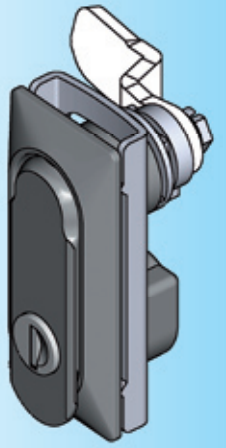
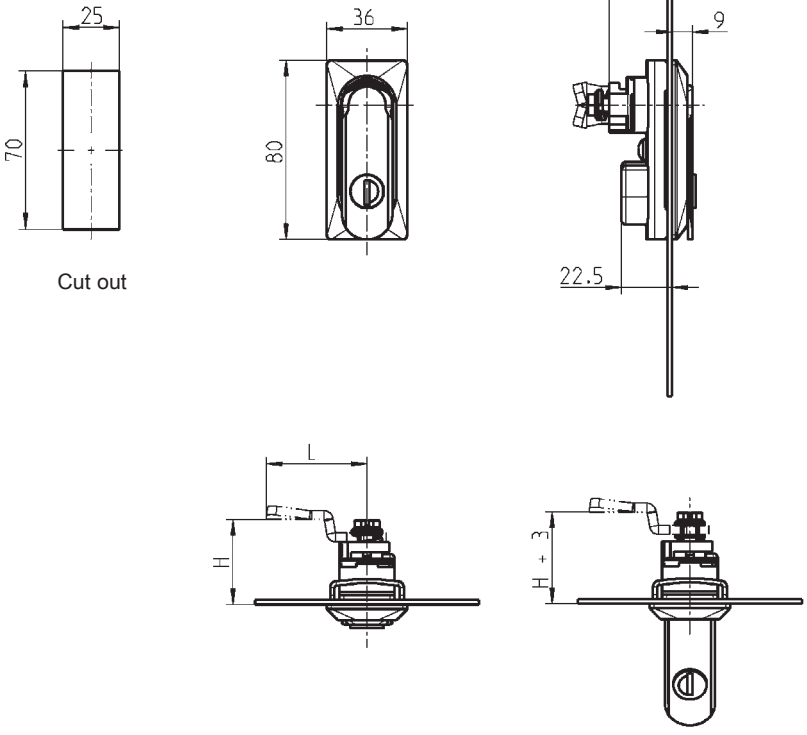


Fig. 2

Turn 90°



Cut out

Note:
Suitable for door thickness from 1 – 3 mm (18, 16, 14, and 12 ga. steel).

Note:
– Company logos may be printed or embossed
– This handle has an “over-center” action and so is vibration resistant

Further parts see page

– Cam	1C-120
– Spare key	12B-140

Swinghandle polyamide GF black powder coated, round cylinder with stainless steel cap and shutter, fixing material m.s. zinc plated, shaft zinc die zinc plated, push button polyamide silver.
Each round cylinder has one silver steel key with polyamide grip GF black.

	without seal (IP 40)	with seal (IP 65)
Push button	1152-U9	1152-U9-01
keyed EK 333	1152-U10	1152-U10-01
keyed different	1152-U12	1152-U12-01
Blank	1152-U11	1152-U11-01

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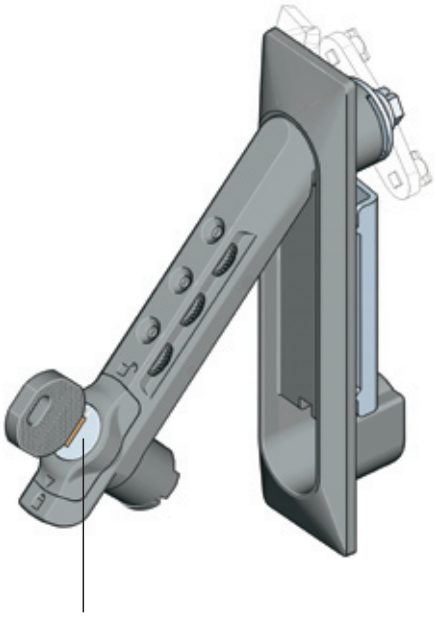
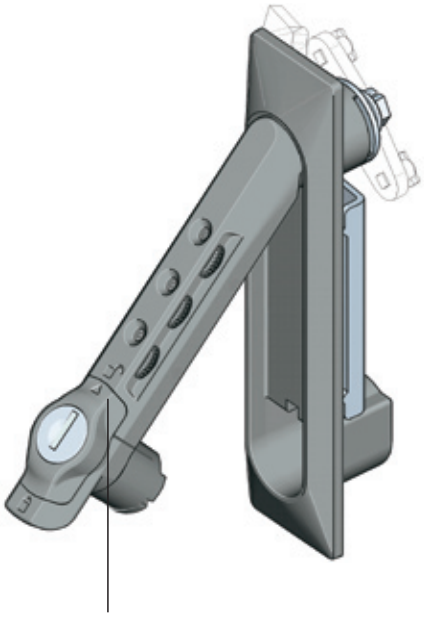
Swinghandle* 1155

PROGRAM 1150

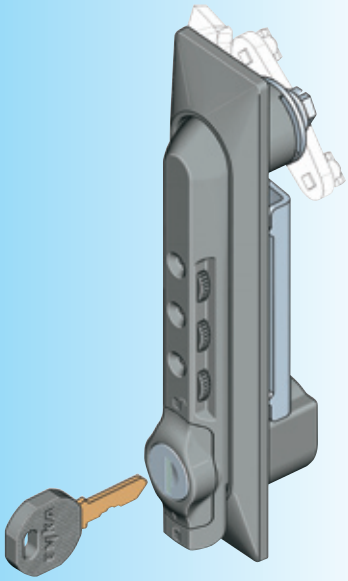
Swinghandle with two locking options. For single point or multiple point locking system

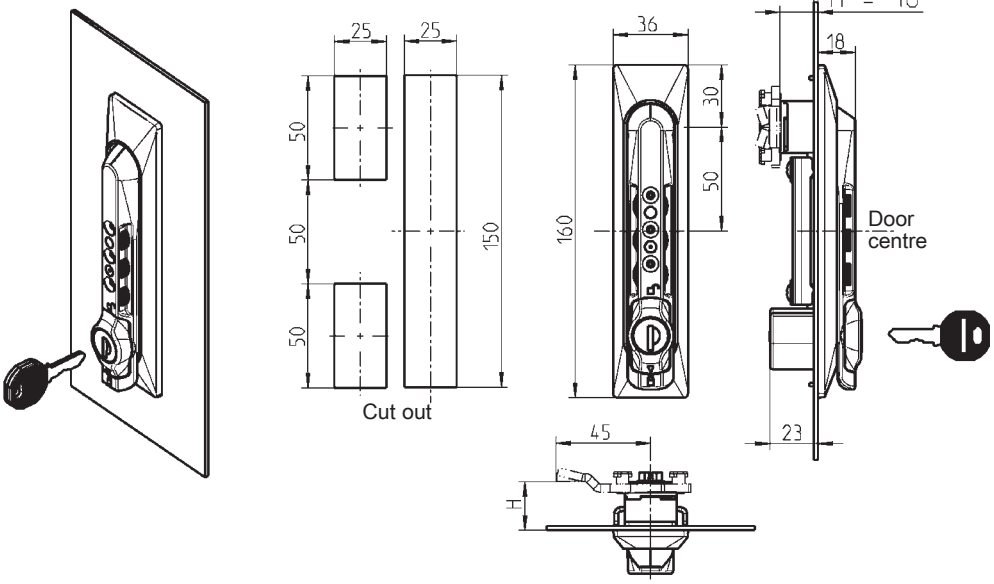


Option 1:
Release using round cylinder, operation as with usual swinghandles of program 1150. The combination lock remains untouched.



Option 2:
Release using combination lock and wing knob. The round cylinder remains locked. The arrow on the wing knob indicates the opened or closed position.





* can be assembled in cut out of 1125/1225

Swinghandle polyamide GF black powder coated, shaft zinc die zinc plated, round cylinder with stainless steel cap and shutter, fixing material m.s. zinc plated, with seal. Each round cylinder has one silver steel key with polyamide grip GF black.	
keyed EK 333	1155-U1
keyed different	1155-U2

Further parts see page
– Cam (GH = 18) 3YC-120
– Spare key 12B-140

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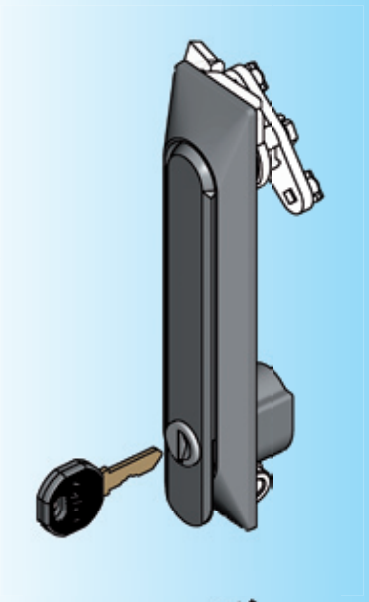
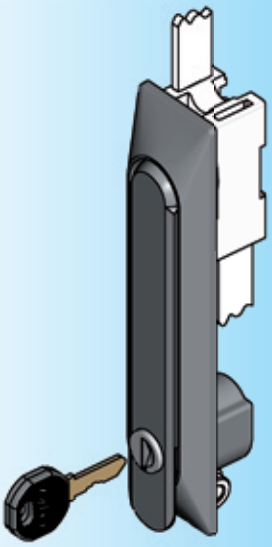
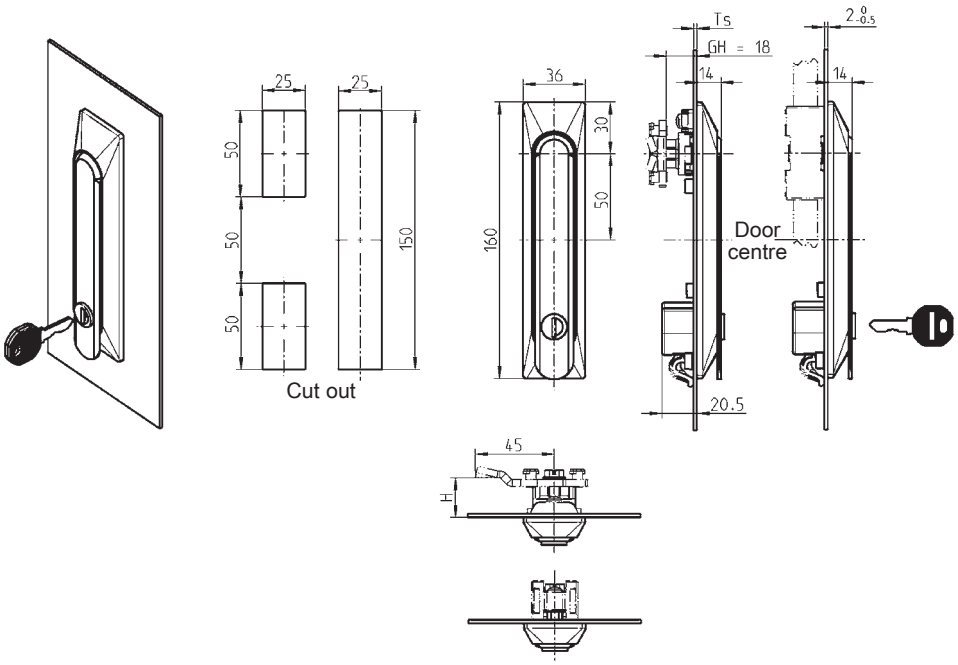
Swinghandle* 1150 with universal escutcheon

PROGRAM 1150







Attention:
Please order fixing material separatly.

Ts = 1,0 up to 3,0 mm depending on choice of fixing material

* can be assembled in cut out of 1125/1225

Further parts see page

– Fixing material	3C-780
– Cam (GH = 18)	3YC-120
– Rod control	3YA-110 3YA-120 3YA-140
– Key	12B-120
– Spare key	12B-140

On request:
– Key retained in the unlocked position
– Other inserts
– handle blank (no locking system)

Swinghandle material on choice, escutcheon polyamide black, shaft zinc die zinc plated, with seal, round cylinder zinc die with stainless steel cap and shutter.
Each round cylinder has one silver steel key with polyamide grip GF black.

	Swinghandle polyamide GF black	Handle: Black powder coated zinc alloy
keyed EK 333	1150-U2-11	1150-U2-12
keyed different	1150-U4-11	1150-U4-12
Inserts: Chrome plated zinc alloy		
Square 6	1150-U9-11	1150-U9-12
Square 7	1150-U10-11	1150-U10-12
Square 8	1150-U11-11	1150-U11-12
Triangular 6,5 CNOMO	1150-U31-11	1150-U31-12
Triangular 7	1150-U12-11	1150-U12-12
Triangular 8	1150-U13-11	1150-U13-12
Double bit 3	1150-U14-11	1150-U14-12
Double bit 5	1150-U15-11	1150-U15-12
Daimler Benz	1150-U16-11	1150-U16-12
Slot 2x4	1150-U17-11	1150-U17-12
Hexagon 8 mm female with pin	1150-U18-11	1150-U18-12
Male hexagon 11 mm	1150-U19-11	1150-U19-12
Push button	1150-U20-11	1150-U20-12

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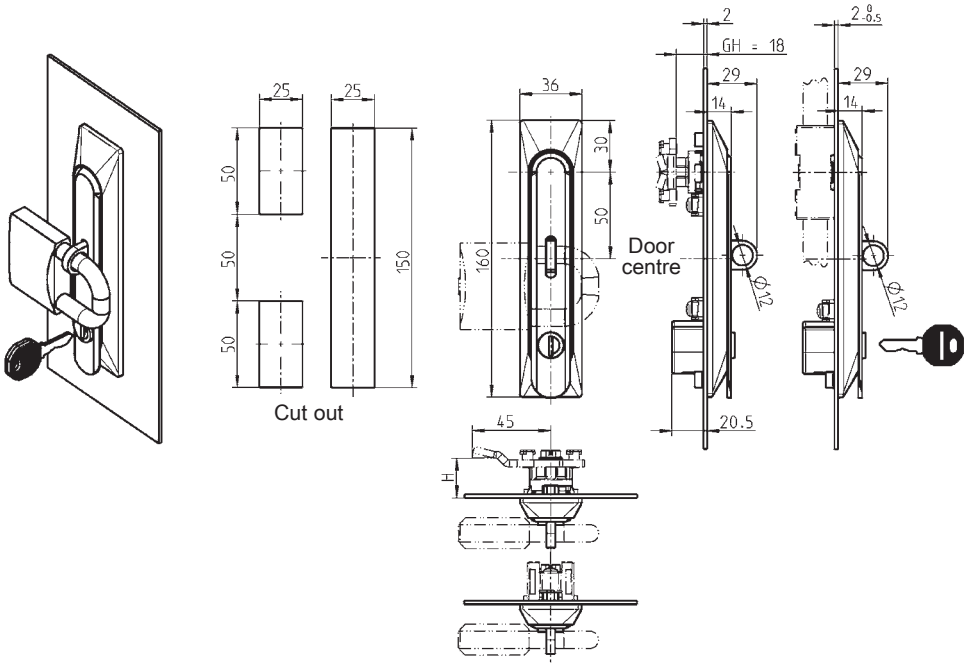
Swinghandle* 1150 for padlock with universal escutcheon

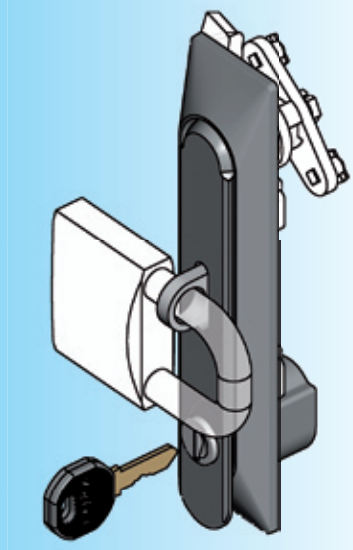
PROGRAM 1150

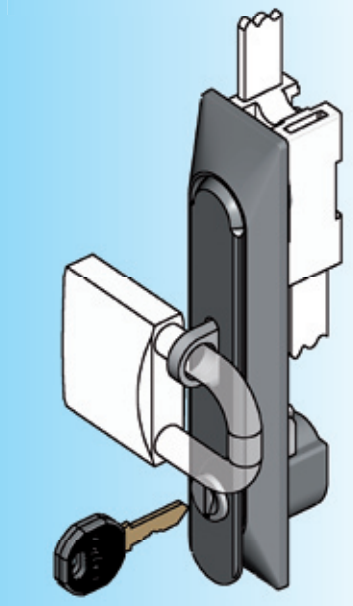
EMKA Beschlagteile



Attention:
Please order fixing material separatly.

Ts = 1,0 up to 3,0 mm depending on choice of fixing material





Swing handle zinc die black powder coated; dish polyamide black; padlock shackle AISI 316; shaft zinc die zinc plated, with seal; round cylinder zinc die with stainless steel cap and dust cap. Each round cylinder has one silver steel key with polyamide grip GF black.	
keyed EK 333	1150-U2-13
keyed different	1150-U4-13
Inserts: Chrome plated zinc alloy	
Square 6	1150-U9-13
Square 7	1150-U10-13
Square 8	1150-U11-13
Triangular 6,5 CNOMO	1150-U31-13
Triangular 7	1150-U12-13
Triangular 8	1150-U13-13
Double bit 3	1150-U14-13
Double bit 5	1150-U15-13
Daimler Benz	1150-U16-13
Slot 2x4	1150-U17-13
Hexagon 8 mm female with pin	1150-U18-13
Male hexagon 11 mm	1150-U19-13
Push button	1150-U20-13

* can be assembled in cut out of 1125/1225

Further parts see page

– Fixing material	3C-780
– Cam (GH = 18)	3YC-120
– Rod control	3YA-110
	3YA-120
	3YA-140
– Key	12B-120
– Spare key	12B-140

On request:
– Key retained in the unlocked position
– Other inserts
– handle blank (no locking system)

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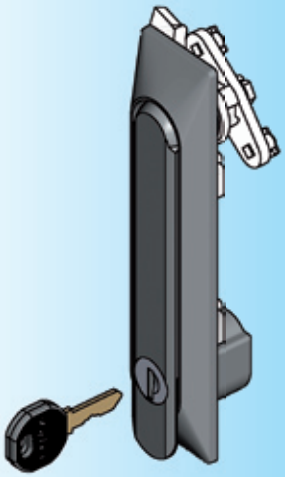
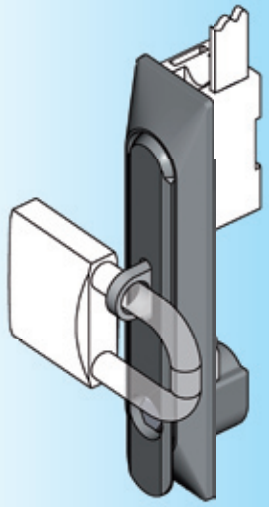
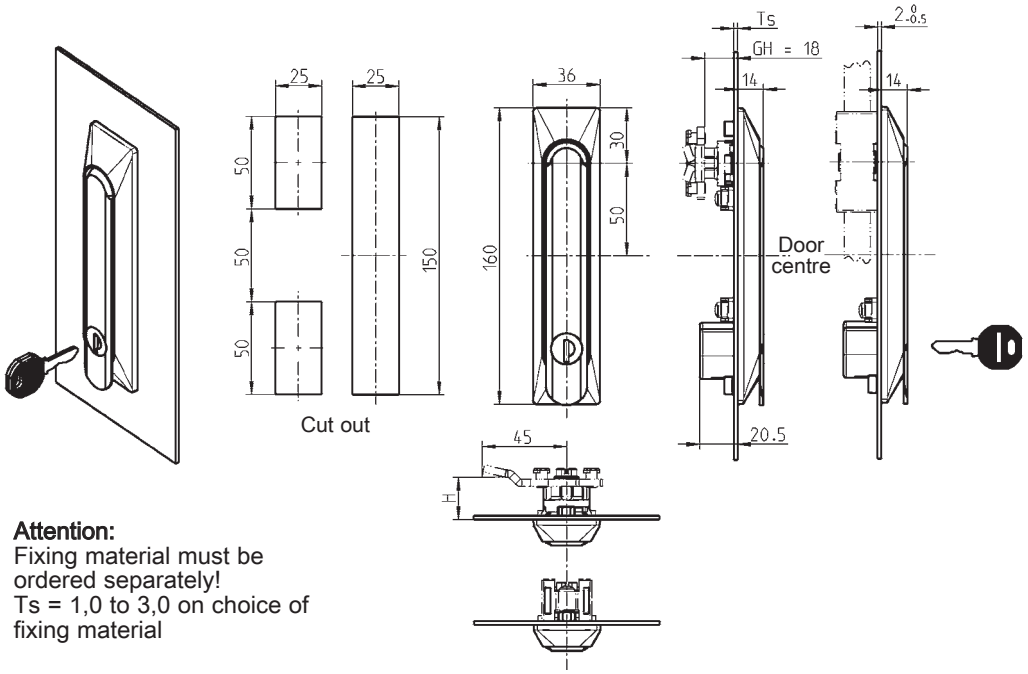
® Swing handle* 1150 with „Push to Lock“ function with universal dish

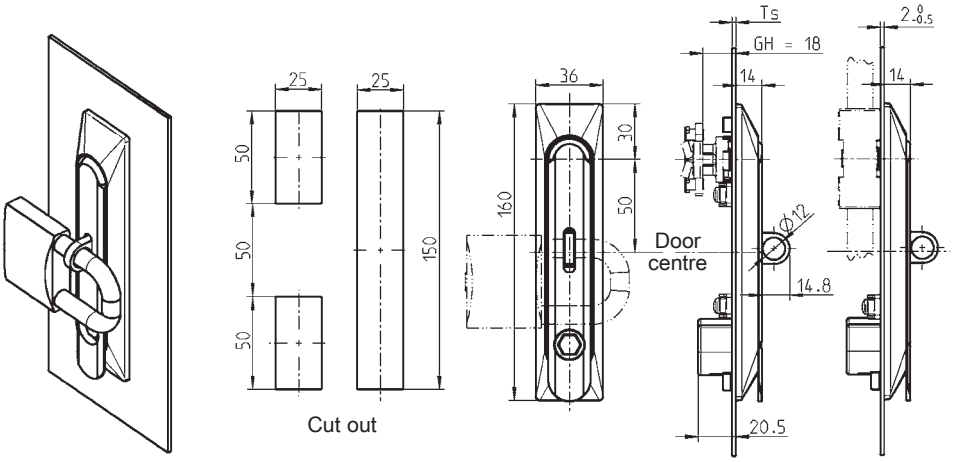
PROGRAMM 1150







Attention:
Fixing material must be ordered separately!
Ts = 1,0 to 3,0 on choice of fixing material



Swinghandle zinc die black powder coated, escutcheon polyamide black, shaft zinc die zinc plated, with seal, round cylinder zinc die with stainless steel cap and shutter.
Each round cylinder has one silver steel key with polyamide grip GF black.

		Push to lock	Push to lock for padlock
keyed EK 333	1150-U33-22	-	-
keyed different	1150-U34-22	-	-
Inserts: Chrome plated zinc alloy			
Square 6	1150-U36-22	1150-U36-30	1150-U36-31
Square 7	1150-U37-22	1150-U37-30	1150-U37-31
Square 8	1150-U38-22	1150-U38-30	1150-U38-31
Triangular 6,5 CNOMO	1150-U39-22	1150-U39-30	1150-U39-31
Triangular 7	1150-U40-22	1150-U40-30	1150-U40-31
Triangular 8	1150-U41-22	1150-U41-30	1150-U41-31
Double bit 3	1150-U42-22	1150-U42-30	1150-U42-31
Double bit 5	1150-U43-22	1150-U43-30	1150-U43-31
Daimler Benz	1150-U44-22	1150-U44-30	1150-U44-31
Slot 2x4	1150-U35-22	1150-U35-30	1150-U35-31
Hexagon 8 mm female with pin	1150-U45-22	1150-U45-30	1150-U45-31
Hexagon male SW 11	1150-U46-22	1150-U46-30	1150-U46-31

* can be assembled in cut out of 1125/1225

Stainless steel version see page 8A-630 to 6A-634

Further parts see page

– Fixing material	3C-780
– Cam (GH = 18)	3YC-120
– Rod control	3YA-110 3YA-120 3YA-140
– Key	12B-120
– Spare key	12B-140

On request:
– Key retained in the unlocked position
– Other inserts

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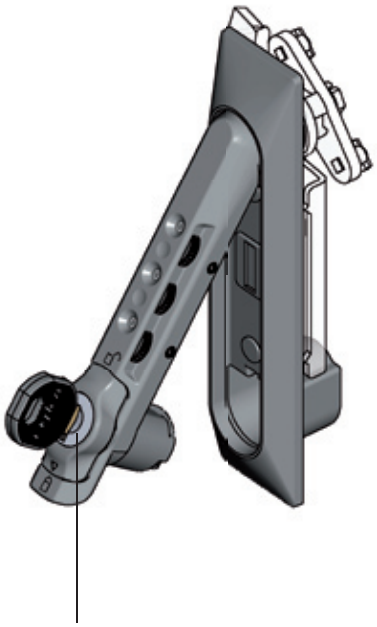
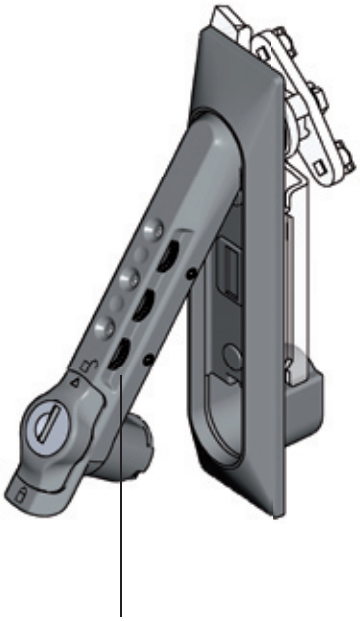
Swinghandle* with combination lock for universal escutcheon

PROGRAM 1150

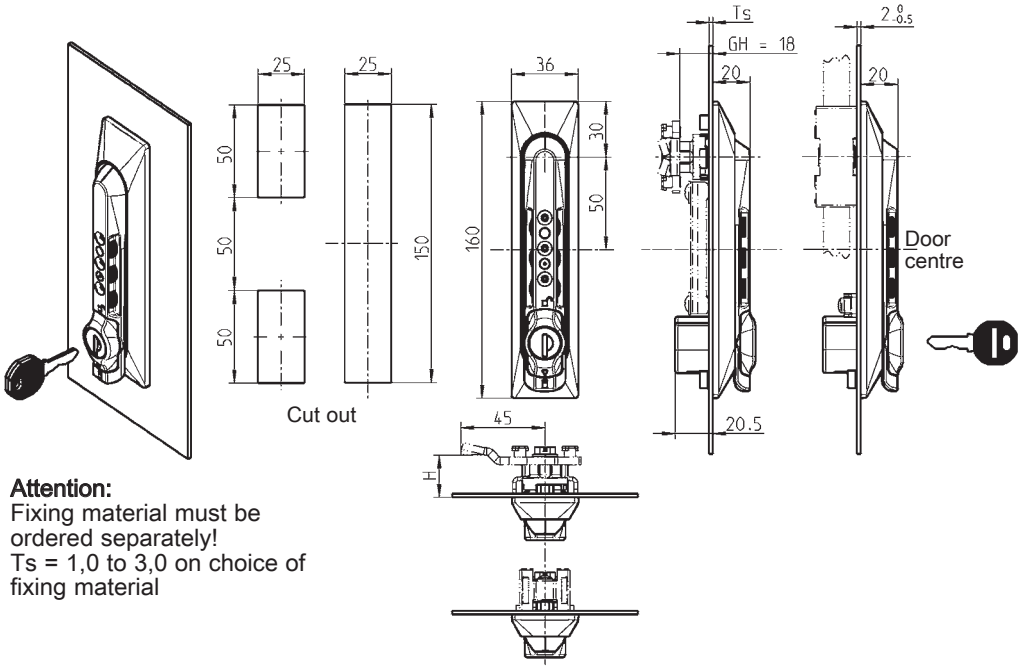
Swinghandle with two locking options. For single point or multiple point locking system



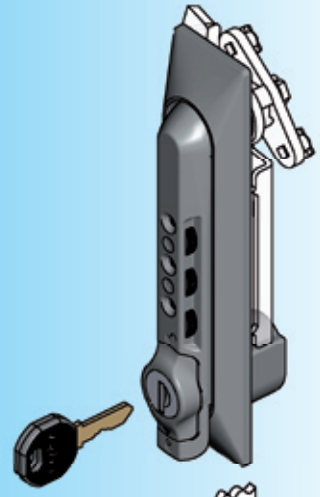


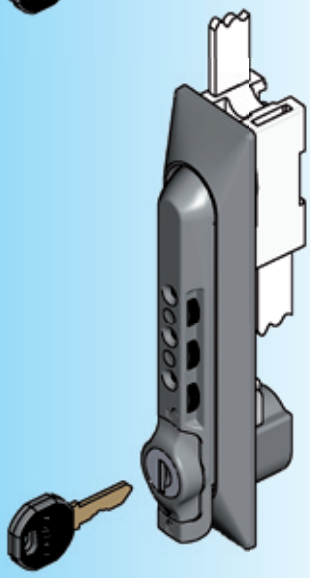
Option 1:
Release using round cylinder, operation as with usual swinghandles of program 1150. The combination lock remains untouched.

Option 2:
Release using combination lock and wing knob. The round cylinder remains locked. The arrow on the wing knob indicates the opened or closed position.



Attention:
Fixing material must be ordered separately!
Ts = 1,0 to 3,0 on choice of fixing material





* can be assembled in cut out of 1125/1225

Further parts see page

– Fixing material	3C-780
– Cam (GH = 18)	3YC-120
– Rod control	3YA-110
	3YA-120
	3YA-140
– Spare key	12B-140

On request:
– Key retained in the unlocked position
– Other inserts

Swinghandle polyamide GF black, shaft zinc die zinc plated, with seal, round cylinder with stainless steel cap and shutter. Each round cylinder has one silver steel key with polyamide grip GF black.

keyed EK 333	1155-U1-11
keyed different	1155-U2-11

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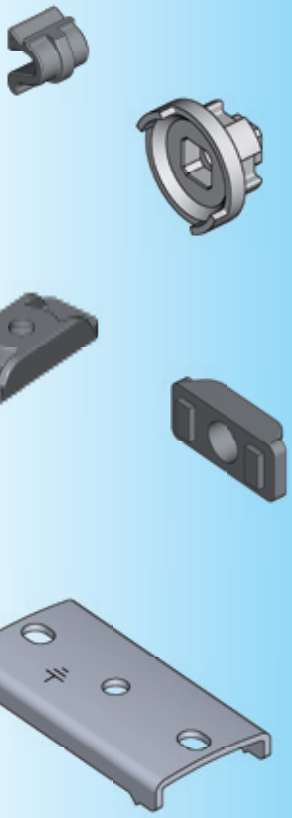
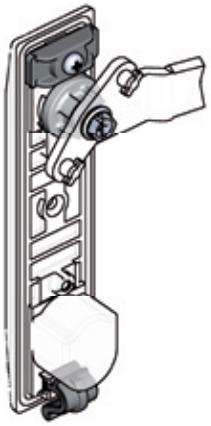
®Fixing material for swinghandle with universal escutcheon

PROGRAM 1150

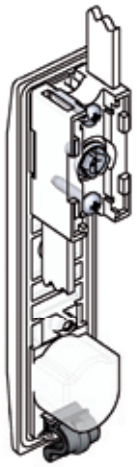


Fixing material for swing handle with cam

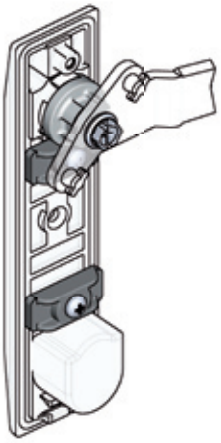


Hook and fastening module polyamide black, adapter zinc die zinc plated, fixing material m.s. zinc plated	
Ts = 1,0	1150-U50-01
Ts = 2,0	1150-U50-02
Ts = 3,0	1150-U50-03

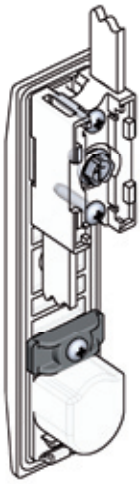
Fixing material for swing handle with rod control



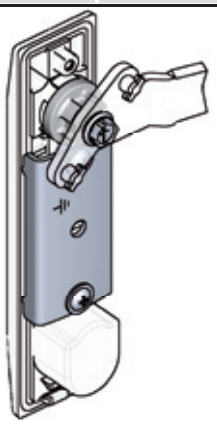
Hook polyamide GF black Fixing material m.s. zinc plated	
Ts = 1,0	-
Ts = 2,0 $_{-0,5}$	1150-U51-02
Ts = 3,0	-



Fastening module polyamide GF black, adapter zinc die zinc plated, fixing material m.s. zinc plated	
Ts = 1,0 to 3,0	1150-U52



Fastening module polyamide GF black, fixing material m.s. zinc plated	
Ts = 2,0 $_{-0,5}$	1150-U53



Adapter zinc die zinc plated, fastening plate and fixing material m.s. zinc plated	
Ts = 1,0 to 2,0	1150-U54

Further parts see page
– Swinghandle with universal escutcheon 3C-720 to 3C-750
– Cam (GH = 18) 3YC-120
– Rod control 3YA-110, 3YA-120, 3YA-140

On request:
– Other door thicknesses

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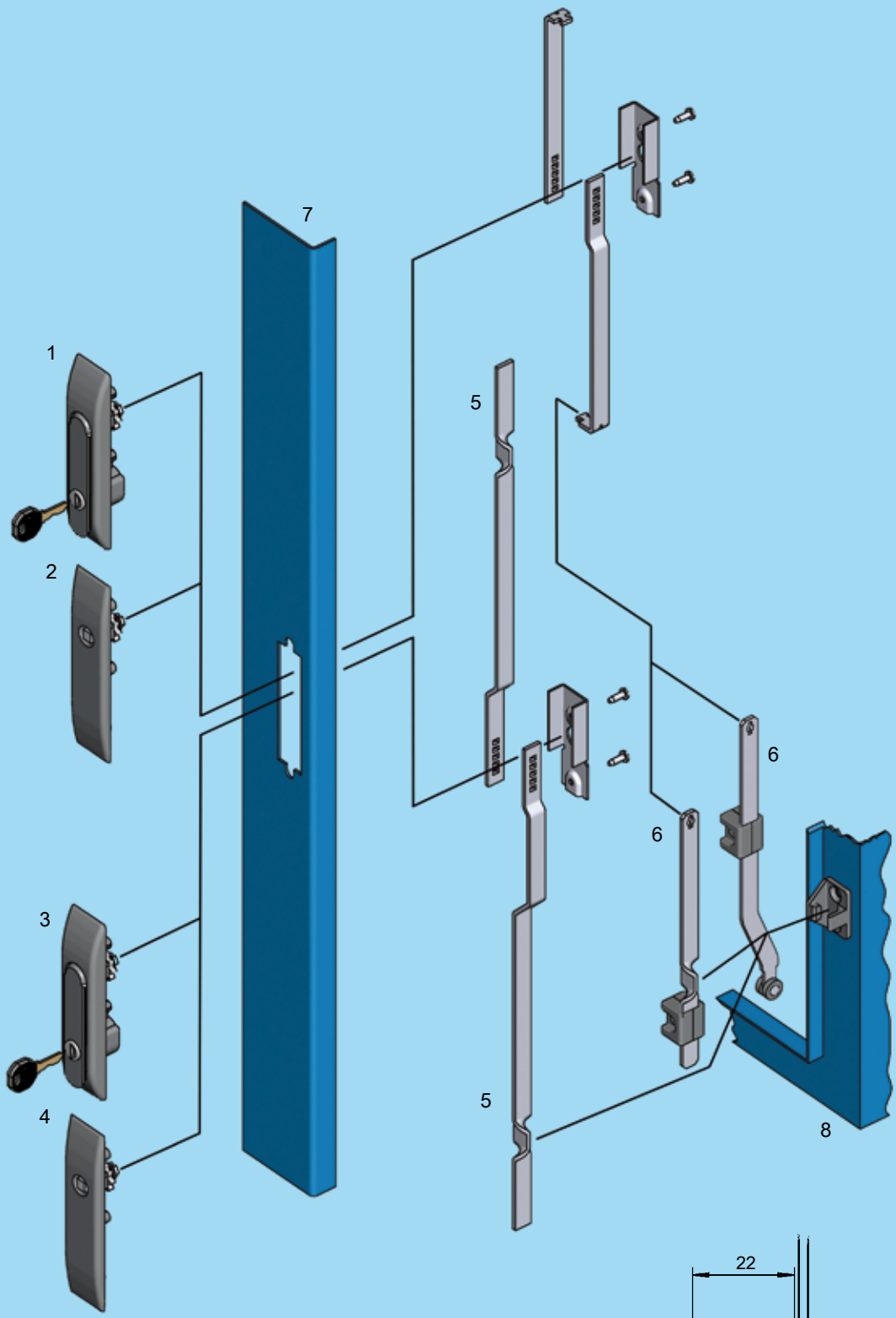
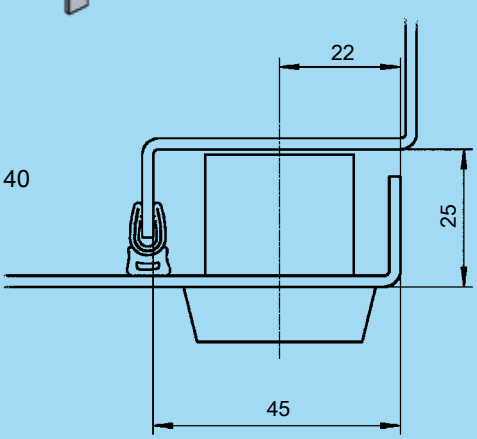
Swinghandle and escutcheon Program 1160



1	Swinghandle	3D-120, 3D-140
2	Escutcheon	3D-120
3	Swinghandle	3D-220
4	Escutcheon	3D-220
5	Rod	
6	Rod	
7	Door	
8	Cabinet/frame	



3D-100

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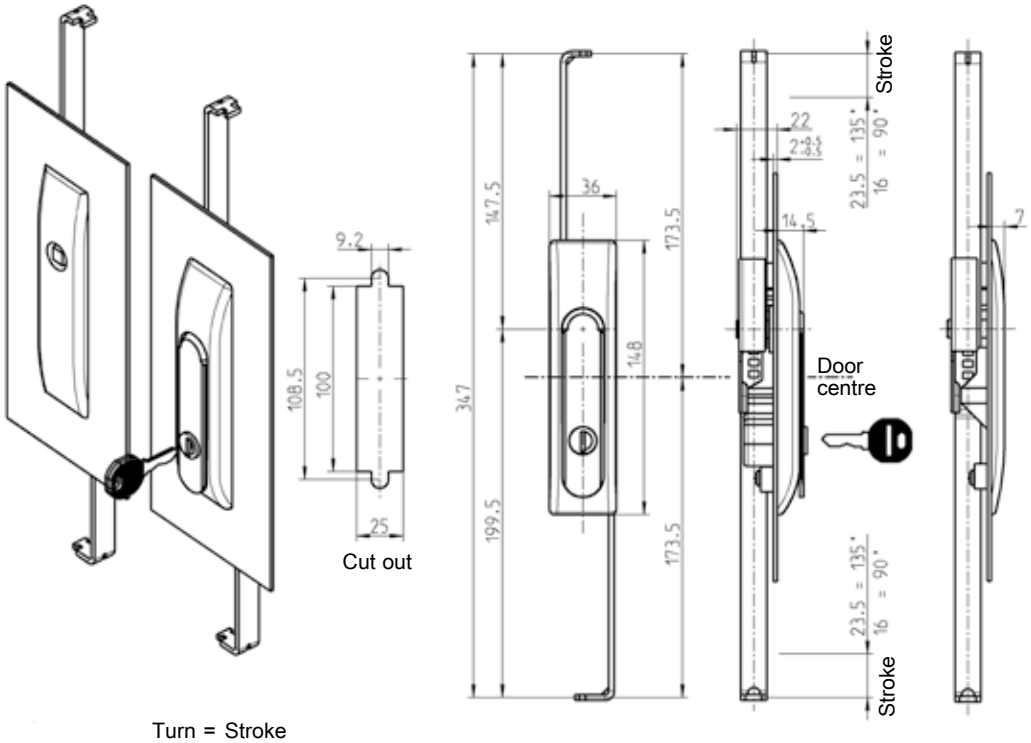
Swinghandle / escutcheon with rods

PROGRAM 1160



Turn = Stroke
135° = 23,5 mm
90° = 16 mm

Swinghandle zinc die black powder coated, shaft material on choice, rods m.s. zinc plated, fixing material m.s. zinc plated, shaft zinc die zinc plated, with seal, round cylinder zinc die with stainless steel cap and shutter, insert zinc die chrome plated, push button housing polyamide black, push button polyamide grey.
Each round cylinder has one silver steel key with polyamide grip GF black.

	Escutcheon	
	polya-mide	zinc die
keyed EK 333	1160-U1	1160-U3
keyed different	1160-U2	1160-U4
Square 6	1160-U9	1160-U20
Square 7	1160-U10	1160-U21
Square 8	1160-U11	1160-U22
Triangular 6,5 CNOMO	1160-U32	1160-U31
Triangular 7	1160-U12	1160-U23
Triangular 8	1160-U13	1160-U24
Double bit 3	1160-U14	1160-U25
Double bit 5	1160-U15	1160-U26
Daimler Benz	1160-U16	1160-U27
Slot 2x4	1160-U17	1160-U28
Hexagon female 8 with pin	1160-U18	1160-U29
Hexagon 11 male	1160-U19	1160-U30
Push button	1160-U35	1160-U36

Escutcheon polyamide GF black, insert zinc die chrome plated, rods m.s. zinc plated, fixing material m.s. zinc plated, with seal

with mask	
Double bit 3	1160-U52
Double bit 5	1160-U53
FIAT	1160-U64
without mask	
Square 6	1160-U54
Square 7	1160-U55
Square 8	1160-U56
Triangular 6,5 CNOMO	1160-U65
Triangular 7	1160-U57
Triangular 8	1160-U58
Square female 8	1160-U63
Daimler Benz	1160-U59
Slot 2x4	1160-U60
Double bit 3	1160-U61
Double bit 5	1160-U62
Eastern Europe Ø 13	1160-U66

Further parts see page
– Rod
outside 3ZA-120 3ZA-320
inside 3ZB-120 3ZB-220
– Spare key 12B-140

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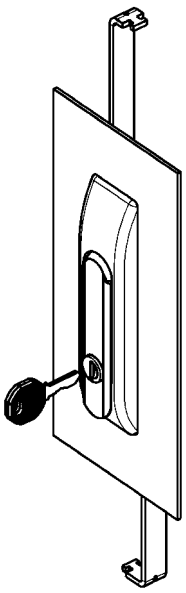
Swinghandle with rods

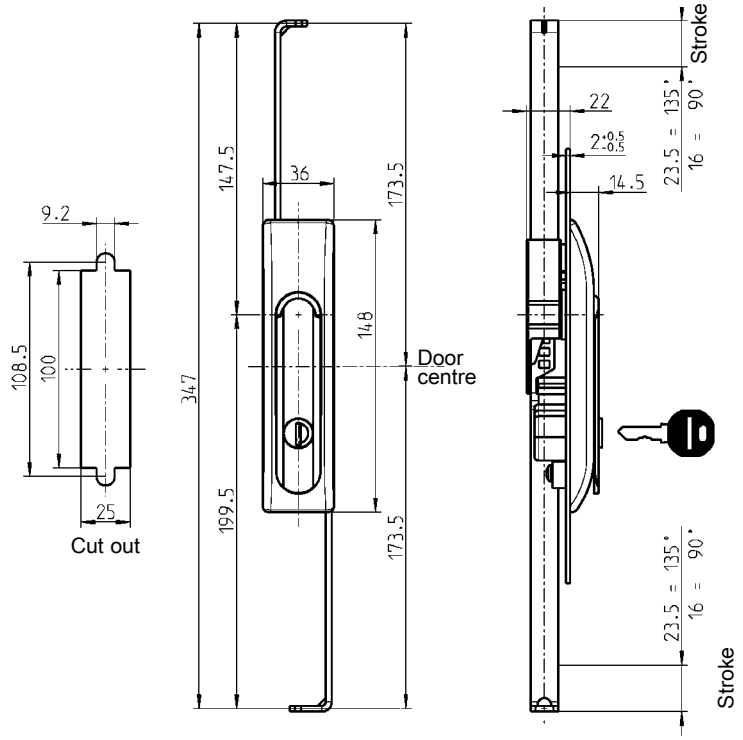
PROGRAM 1160

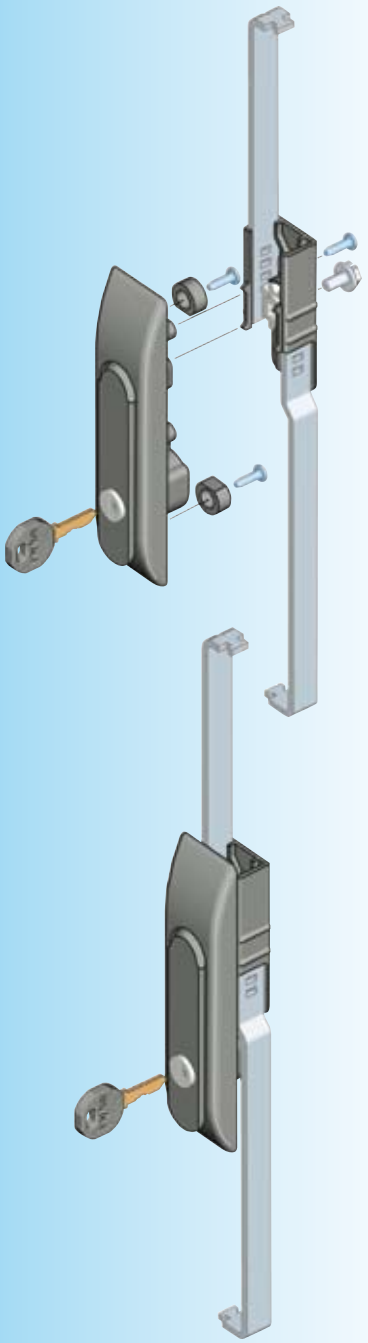
EMKA Beschlagteile

Swinghandle for
assembled rod control



Turn = Stroke
135° = 23,5 mm
90° = 16 mm





Swinghandle zinc die black powder coated, shaft material on choice, rods m.s. zinc plated, fixing material m.s. zinc plated, shaft zinc die zinc plated, with seal, round cylinder zinc die with stainless steel cap and shutter, insert zinc die chrome plated, push button housing polyamide black, push button polyamide grey.
Each round cylinder has one silver steel key with polyamide grip GF black.

	Escutcheon	
	polyamide	**zinc die**
keyed EK 333	1160-U201	1160-U203
keyed different	1160-U202	1160-U204
Push button	1160-U235	1160-U236
Rod control polyamide GF black, rods m.s. zinc plated		
RH version		1160-U200-RE
LH version		1160-U200-LI

Further parts see page
– Rod
outside 3ZA-120, 3ZA-320
inside 3ZB-120, 3ZB-220
– Spare key 12B-140

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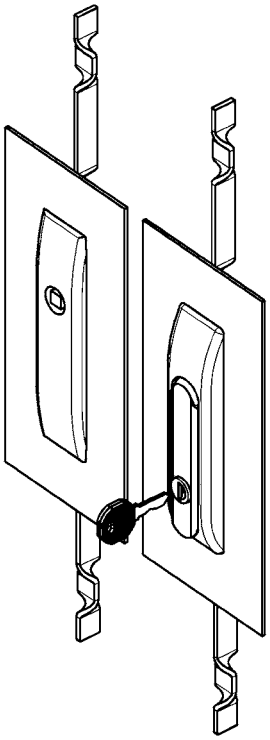
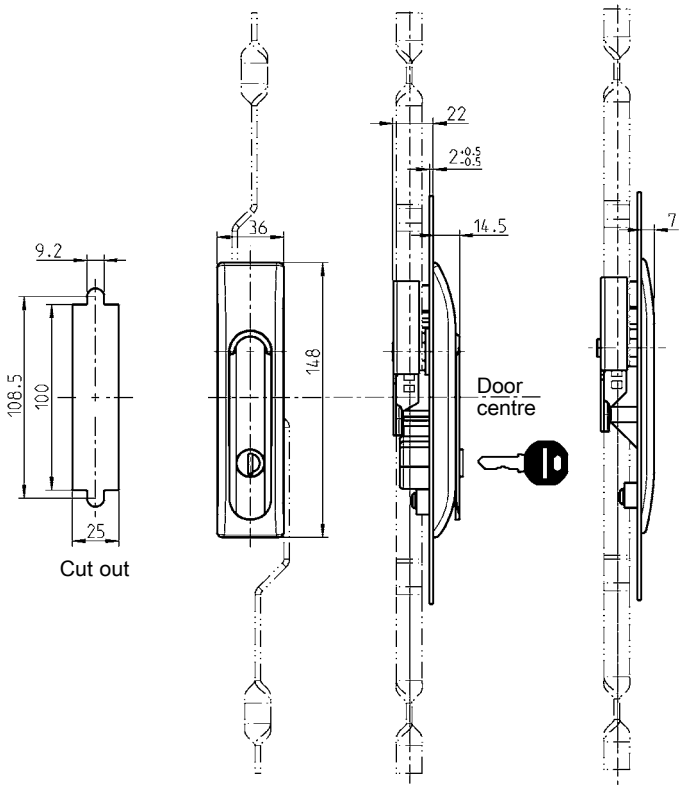
Swinghandle / escutcheon with rods

PROGRAM 1160

RL IP 65





Swinghandle zinc die black powder coated, escutcheon material on choice, fixing material m.s. zinc plated, shaft zinc die zinc plated, with seal, round cylinder zinc die with stainless steel cap and shutter, insert zinc die chrome plated, push button housing polyamide black, push button polyamide grey.
Each round cylinder has one silver steel key with polyamide grip GF black.

	Escutcheon	
	polyamide	zinc die
keyed EK 333	1160-U101	1160-U103
keyed different	1160-U102	1160-U104
Square 6	1160-U109	1160-U120
Square 7	1160-U110	1160-U121
Square 8	1160-U111	1160-U122
Triangular 6,5 CNOMO	1160-U132	1160-U131
Triangular 7	1160-U112	1160-U123
Triangular 8	1160-U113	1160-U124
Double bit 3	1160-U114	1160-U125
Double bit 5	1160-U115	1160-U126
Daimler Benz	1160-U116	1160-U127
Slot 2x4	1160-U117	1160-U128
Hexagon female 8 with pin	1160-U118	1160-U129
Hexagon 11 male	1160-U119	1160-U130
Push button	1160-U135	1160-U136

Escutcheon polyamide GF black, insert zinc die chrome plated, rods m.s. zinc plated, fixing material m.s. zinc plated, with seal

with mask	
Double bit 3	1160-U152
Double bit 5	1160-U153
FIAT	1160-U164
without mask	
Square 6	1160-U154
Square 7	1160-U155
Square 8	1160-U156
Triangular 6,5 CNOMO	1160-U165
Triangular 7	1160-U157
Triangular 8	1160-U158
Square female 8	1160-U163
Daimler Benz	1160-U159
Slot 2x4	1160-U160
Double bit 3	1160-U161
Double bit 5	1160-U162
Eastern Europe Ø 13	1160-U166

Further parts see page
– Rod
outside 3ZA-420
– Spare key 12B-140

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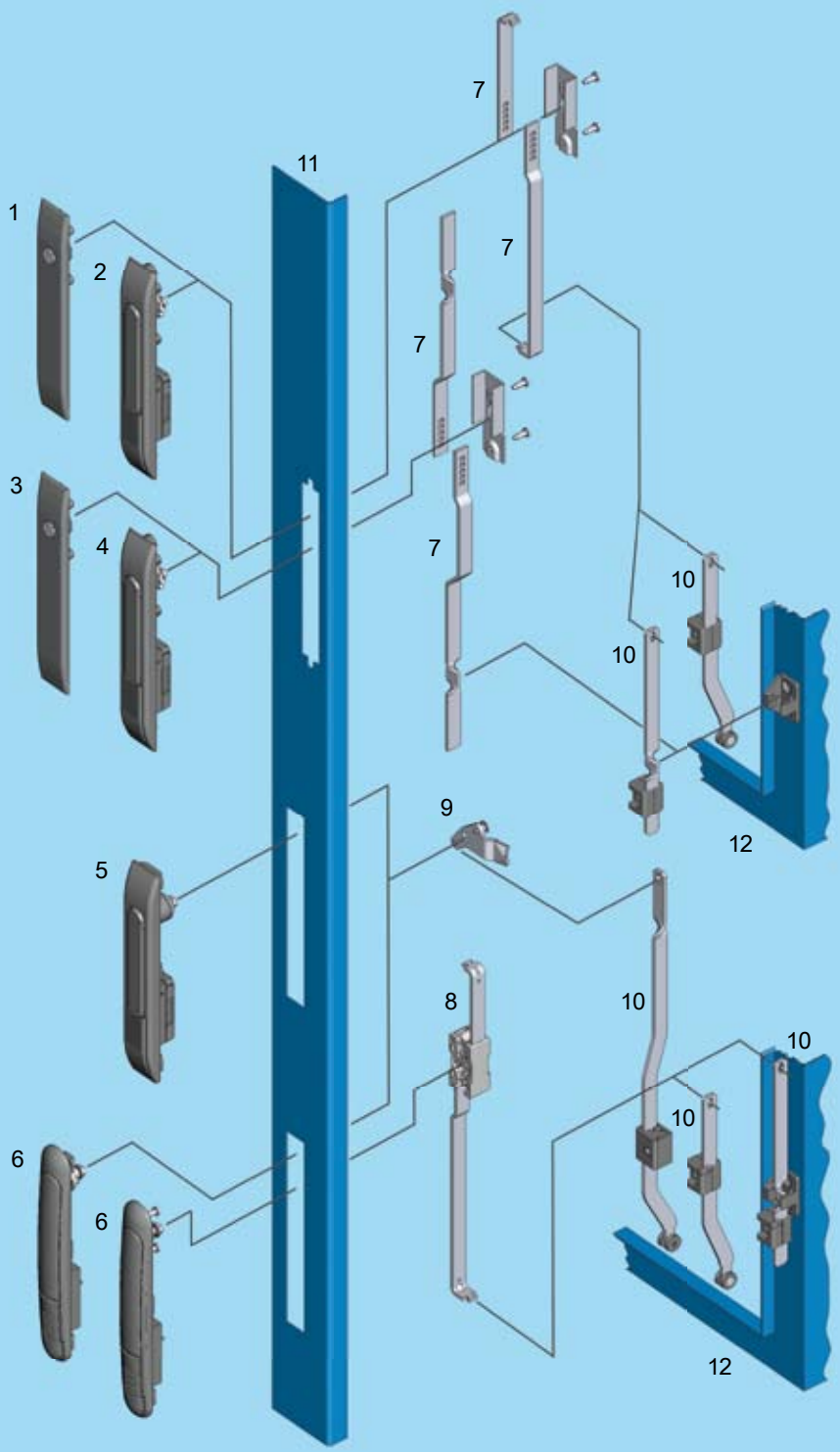
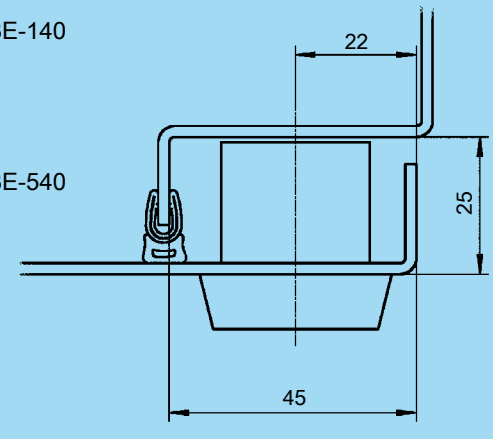
Swinghandle and escutcheon Program 1180



1	Escutcheon	3E-120
2	Swinghandle 1180	3E-120, 3E-140
3	Escutcheon	3E-220
4	Swinghandle 1180	3E-220
5	Swinghandle 1180	3E-320
6	Swinghandle 1185	3E-520, 3E-540
7	Rod	
8	Rod control	
9	Cam	
10	Rod	
11	Door	
12	Cabinet/frame	



3E-100

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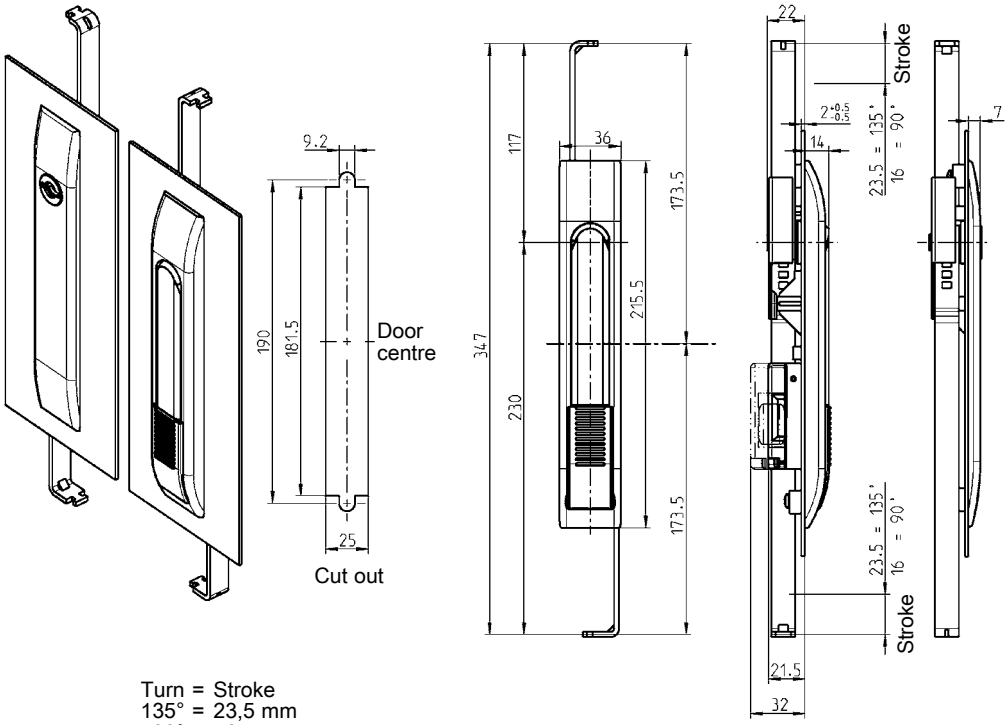
Swinghandle 1180 or escutcheon with rods

PROGRAM 1180



Turn = Stroke
135° = 23,5 mm
90° = 16 mm

Swinghandle polyamide GF black with push button (2100-U57), handle zinc die black, shaft zinc die zinc plated, rods m.s. zinc plated, fixing material m.s. zinc plated, with seal	
	1180-U1
Escutcheon polyamide GF black, insert zinc die chrome plated, rods m.s. zinc plated, fixing material m.s. zinc plated, with seal	
with mask	
Double bit 3	1180-U2
Double bit 5	1180-U3
FIAT	1180-U14
without mask	
Square 6	1180-U4
Square 7	1180-U5
Square 8	1180-U6
Triangular 6,5 CNOMO	1180-U15
Triangular 7	1180-U7
Triangular 8	1180-U8
Square female 8	1180-U13
Daimler Benz	1180-U9
Slot 2x4	1180-U10
Double bit 3	1180-U11
Double bit 5	1180-U12
Eastern Europe Ø 13	1180-U16

Further parts see page

– Key	12B-120
– Locking set	3XA-120 3XA-240
– Locking set ELM	Chapter 11
– Rod	
outside	3ZA-120 3ZA-320
inside	3ZB-120 3ZB-220

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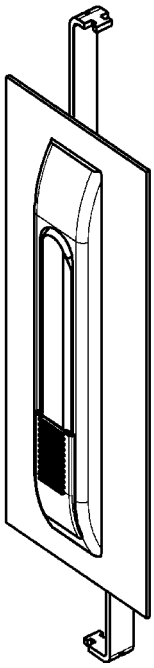
Swinghandle 1180 with rods

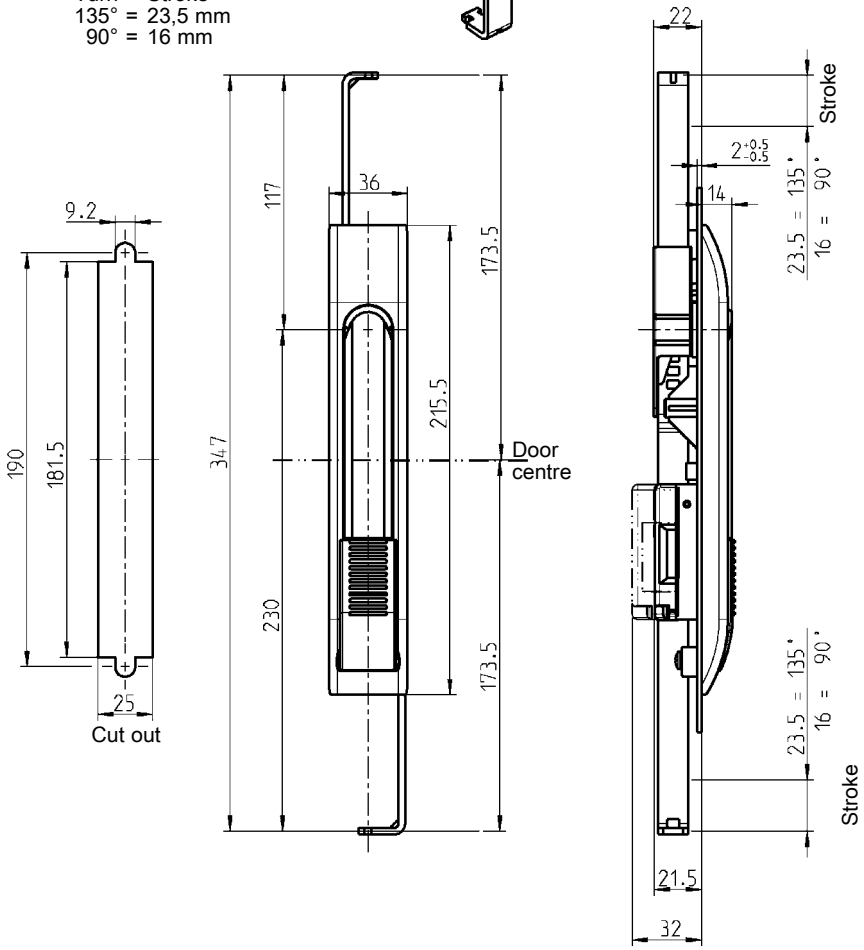
PROGRAM 1180

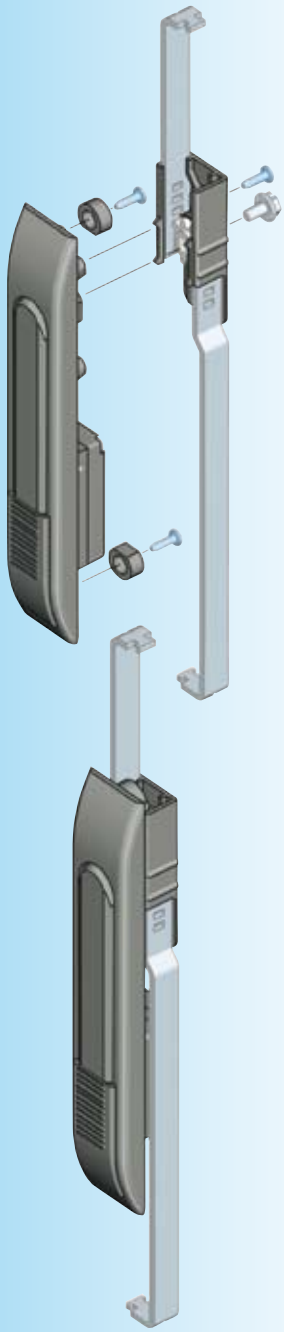
EMKA Beschlagteile

Swinghandle for assembled rod control



Turn = Stroke
135° = 23,5 mm
90° = 16 mm





Further parts see page

– Locking set	3XA-120 3XA-240
– Locking set ELM	Chapter 11
– Rod	
outside	3ZA-120 3ZA-320
inside	3ZB-120 3ZB-220

Swinghandle polyamide GF black with push button (2100-U57), handle zinc die black powder coated, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal	
	1180-U301
Rod control polyamide GF black, rods m.s. zinc plated	
RH version	1180-U200-RE
LH version	1180-U200-LI

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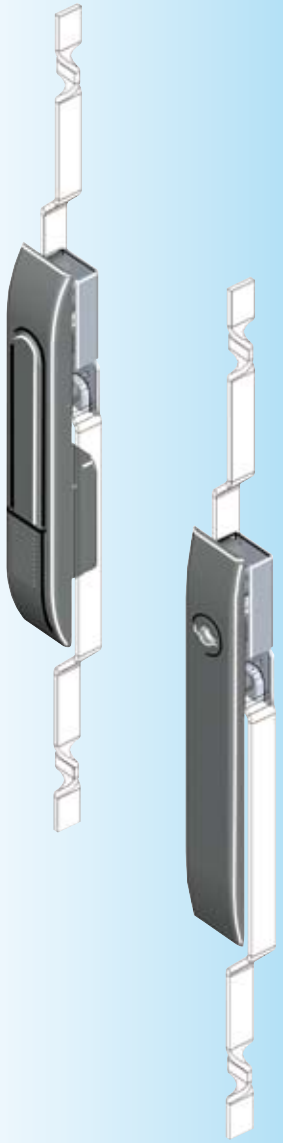
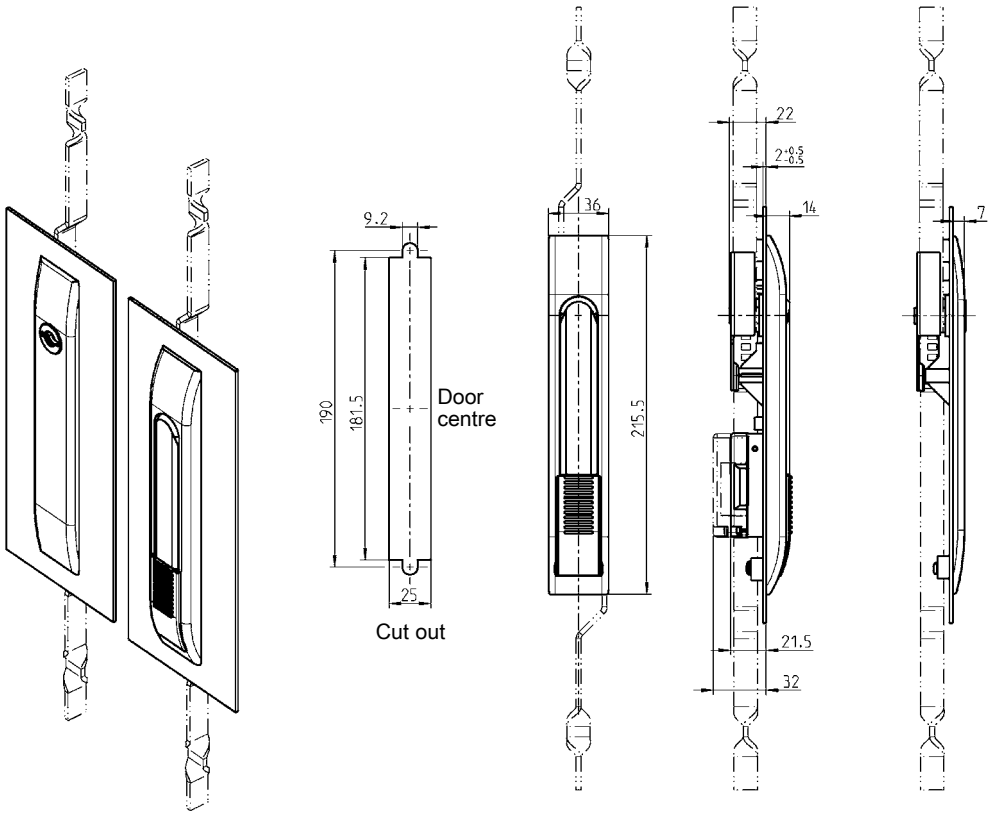
Swinghandle 1180 or escutcheon for rods

PROGRAM 1180





Swinghandle polyamide GF black with push button (2100-U57), handle zinc die black powder coated, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal	
	1180-U101
Escutcheon polyamide black, insert zinc die chrome plated, fixing material m.s. zinc plated, with seal	
with mask	
Double bit 3	1180-U102
Double bit 5	1180-U103
FIAT	1180-U114
without mask	
Square 6	1180-U104
Square 7	1180-U105
Square 8	1180-U106
Triangular 6,5 CNOMO	1180-U115
Triangular 7	1180-U107
Triangular 8	1180-U108
Square female 8	1180-U113
Daimler Benz	1180-U109
Slot 2x4	1180-U110
Double bit 3	1180-U111
Double bit 5	1180-U112
Eastern Europe Ø 13	1180-U116

Further parts see page

– Key	12B-120
– Locking set	3XA-120
	3XA-240
– Locking set ELM	Chapter 11
– Rod	
outside	3ZA-520

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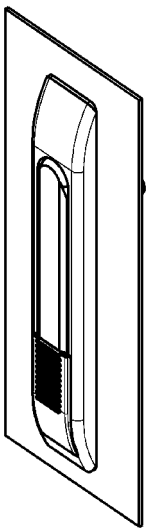
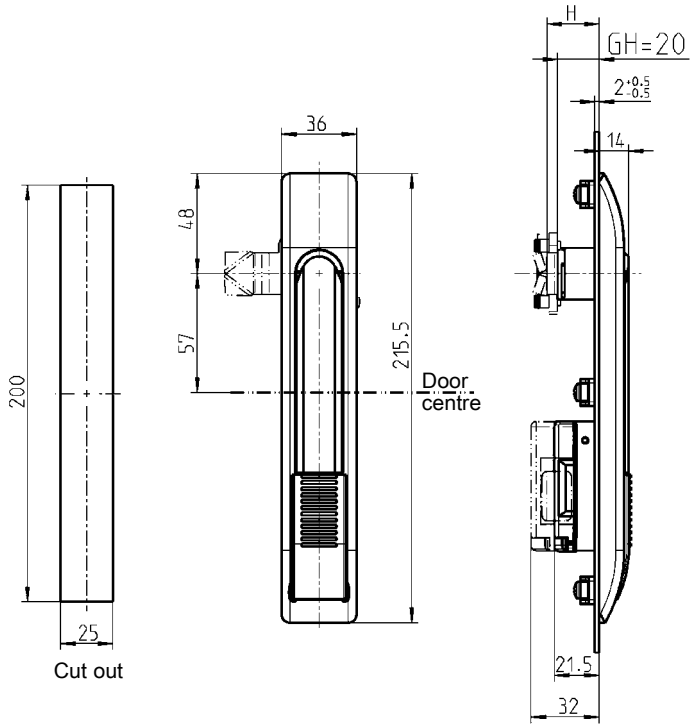
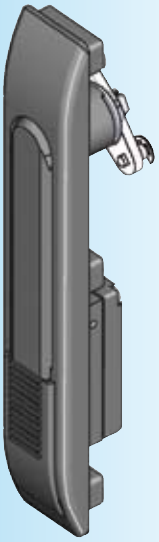
Swinghandle 1180 for 3-point-locking system

PROGRAM 1180







Swinghandle polyamide GF black with push-button (2100-U57), handle zinc die black, powder coated shaft zinc die zinc plated, fixing material m.s. zinc plated, fixing bridges polyamide GF. black, with seal.

	1180-U201

Further parts see page

– Locking set	3XA-120 3XA-240
– Locking set ELM	Chapter 11
– Cam (GH = 20)	3YC-140

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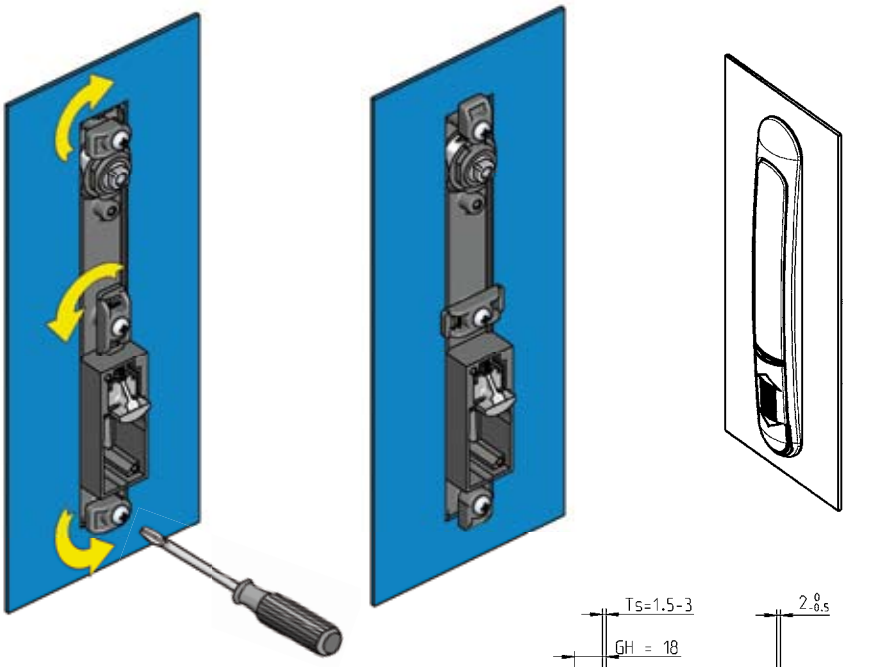
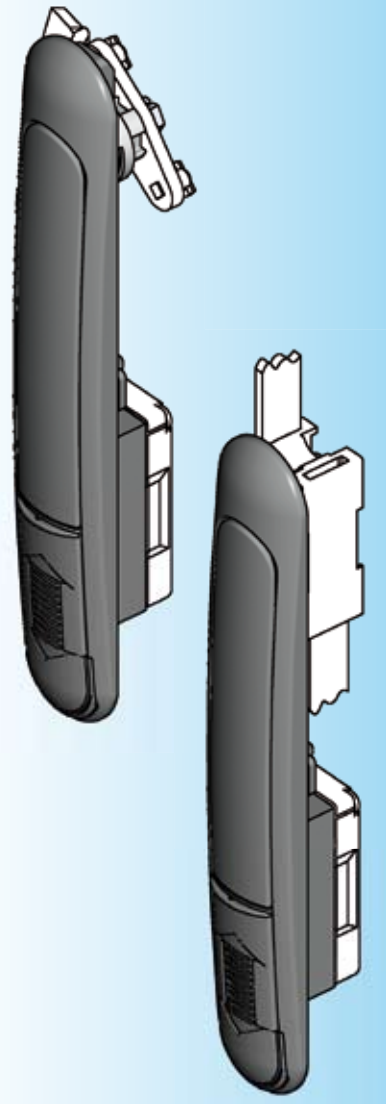
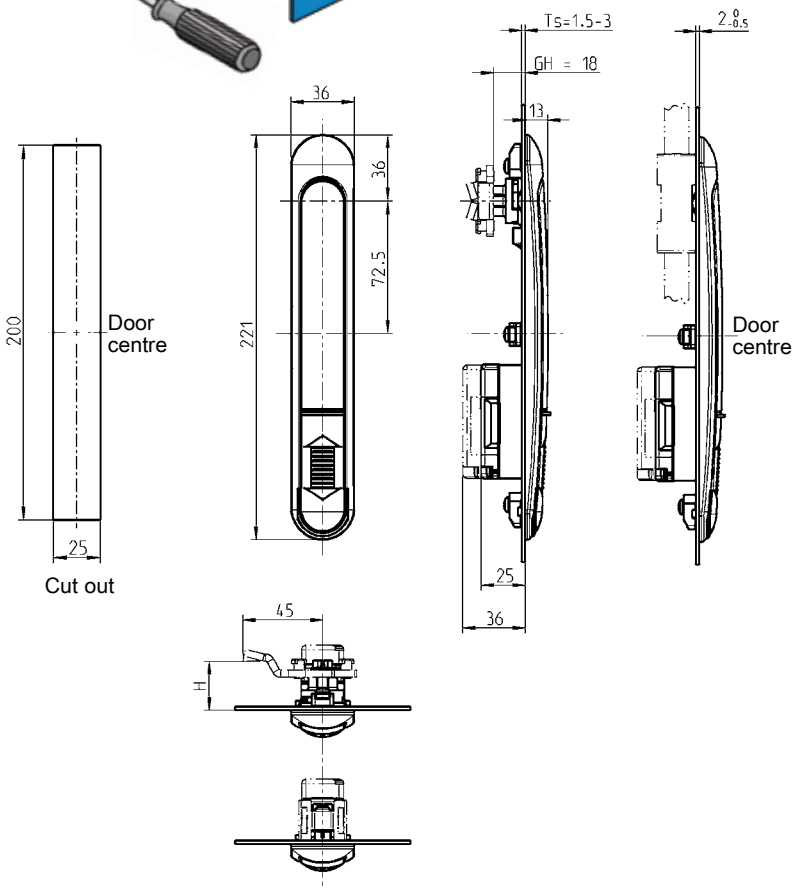
Swinghandle 1185 for cam or rod control

PROGRAM 1180

A 90° turn with pre-assembeld fixing bridges will secure handle







Note:
Swinghandle without locking set

Further parts see page

– Locking set	3XA-120 3XA-140
– Locking set ELM	Chapter 11
– cam (stroke = 26)	3YC-120
– Rod control	3YA-480

Swinghandle polyamide GF black, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal	
for cam	1185-U1
for rod control	1185-U2

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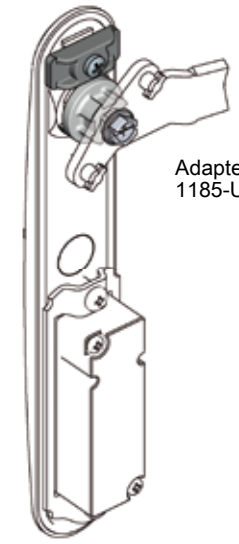
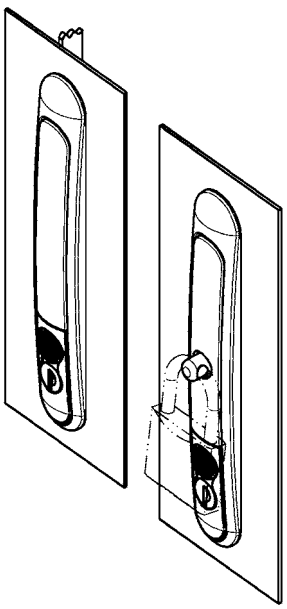
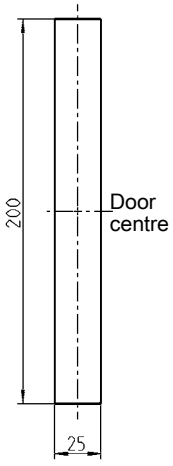
Swinghandle with push button 1185 for cam or rod control

PROGRAM 1180

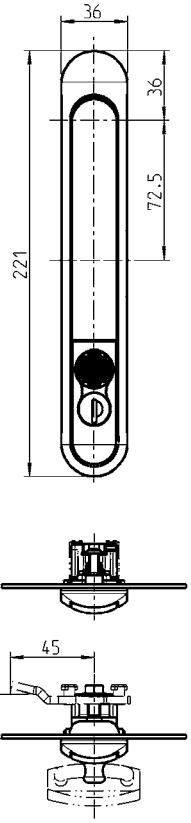


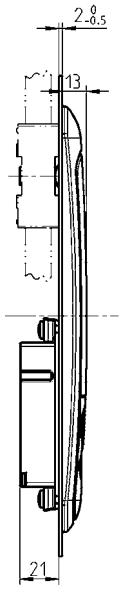
Adapter for cam
1185-U3

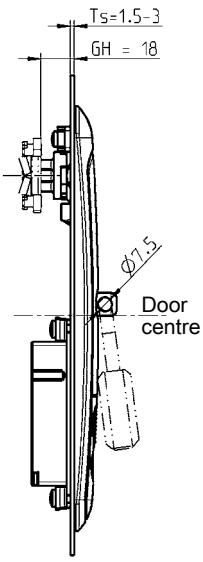


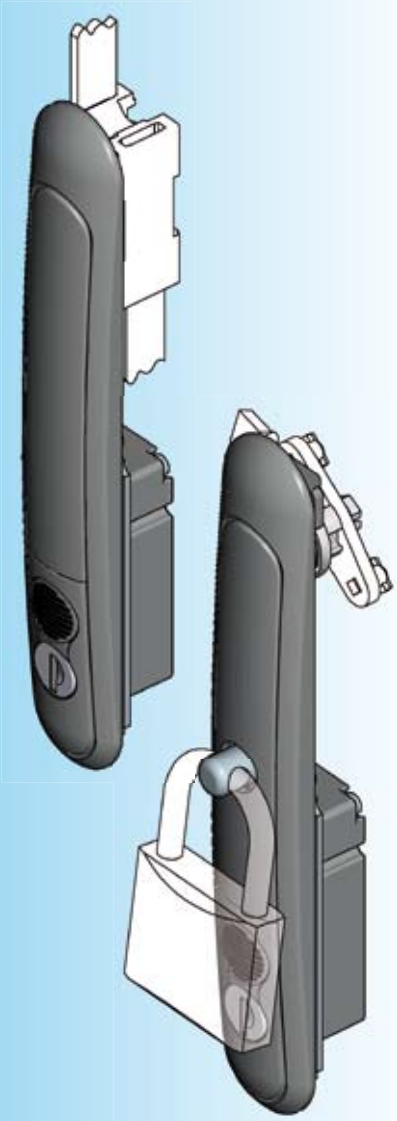


Cut out









Swinghandle for rod control **Handle, escutcheon and pushbutton zinc die black powder coated;** **padlock stud AISI 303;** **shaft zinc die; round cylinder zinc die with stainless steel cap and dust cap;** **fixing material stainless steel; with seal.** **Each round cylinder has one key m.s. nickel plated.**	
keyed EK 333	1185-U4
keyed different	1185-U4-V
keyed EK 333 and for padlock	1185-U5
different closing and for padlock	1185-U5-V
Adapter for cam zinc die zinc plated; bridge polyamide GF VO black; **with fixing material**	
	1185-U3

Further parts see page
– cam (stroke = 26) 3YC-120
– Rod control 3YA-480

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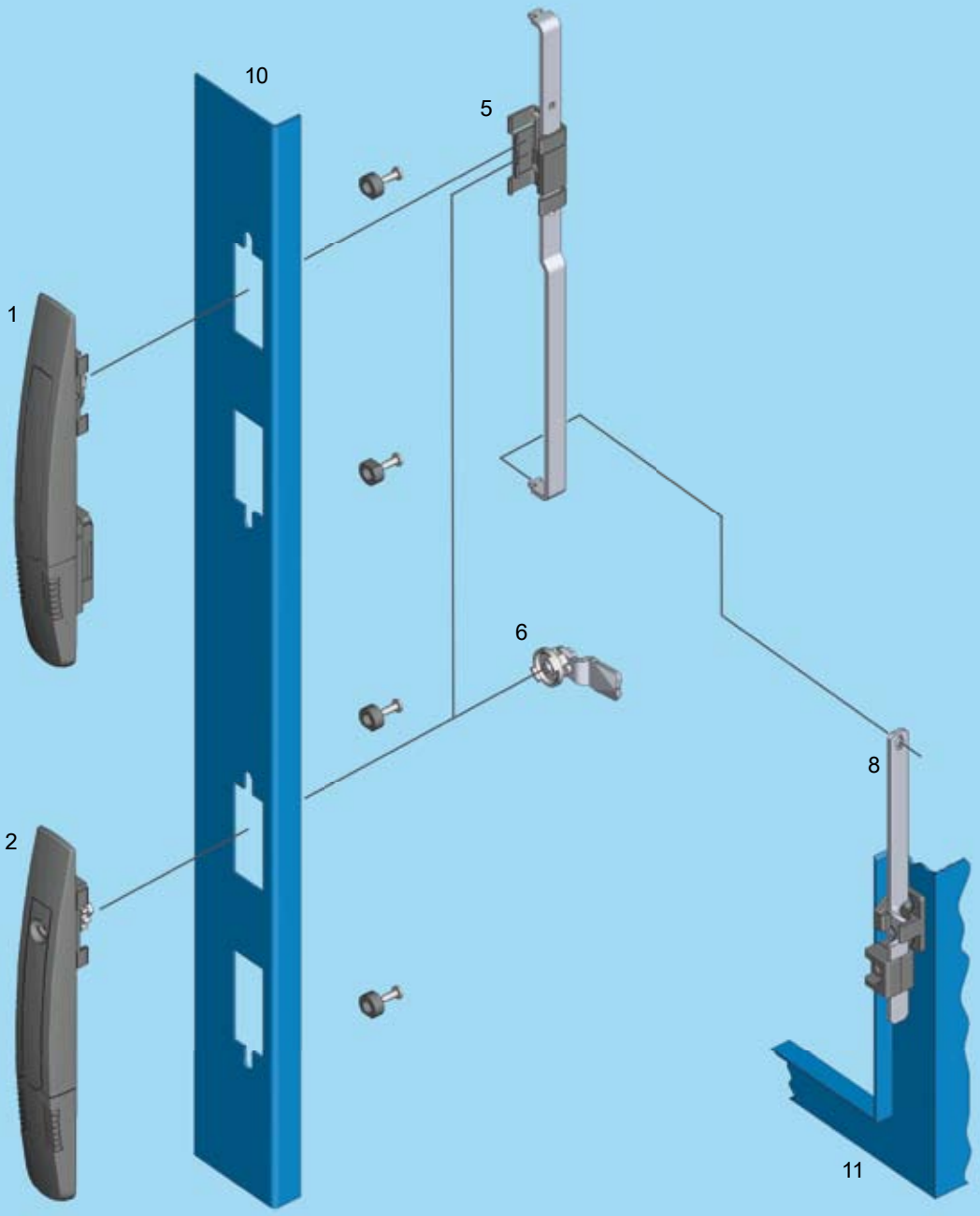
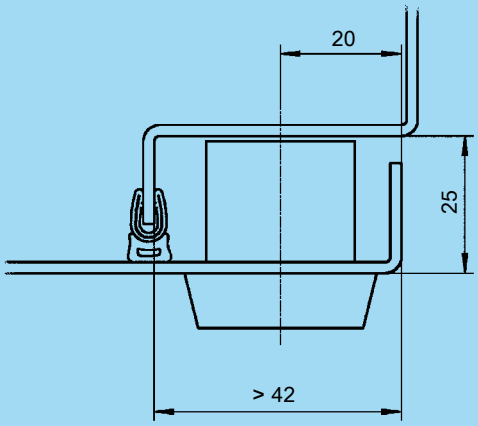
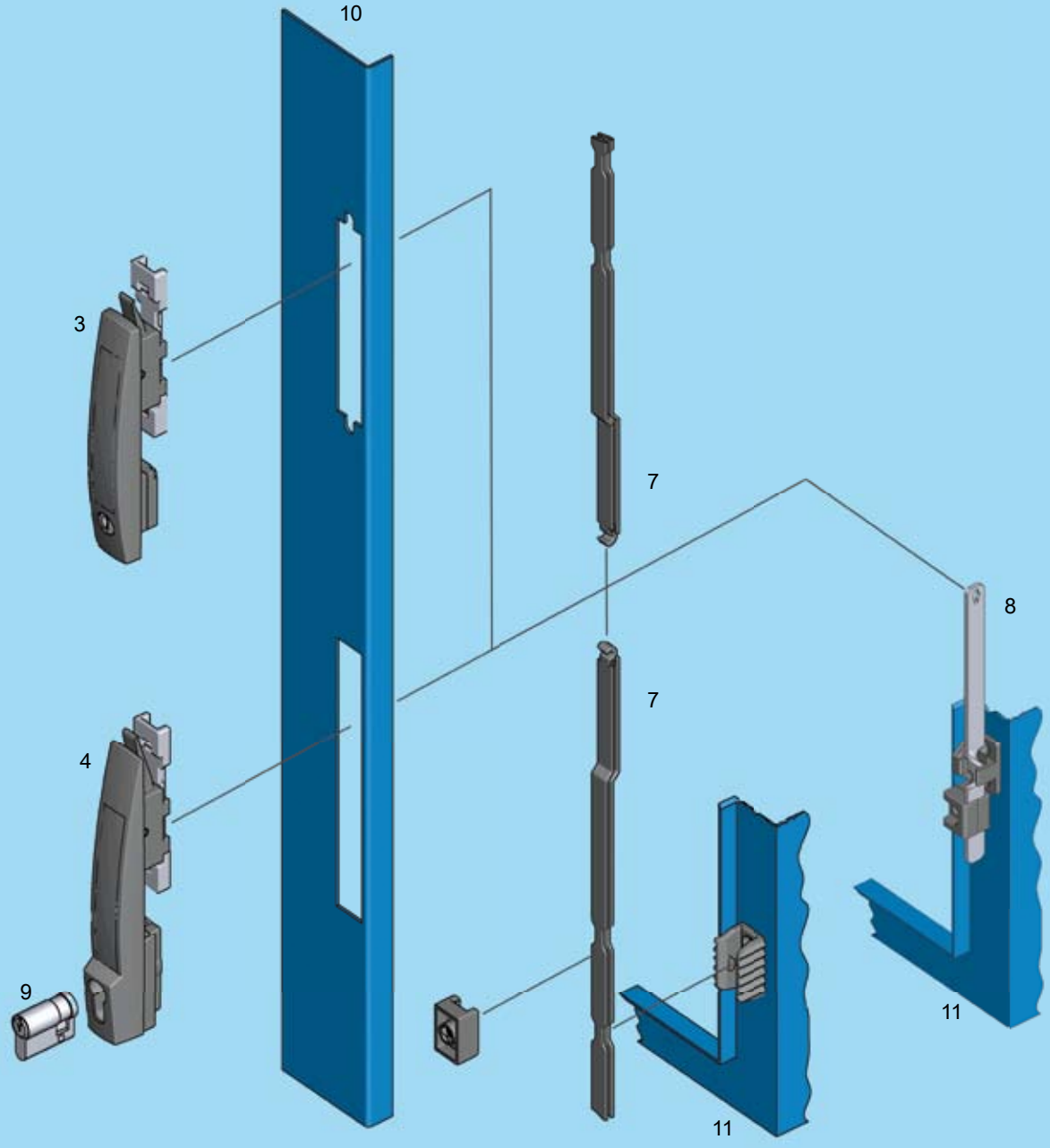
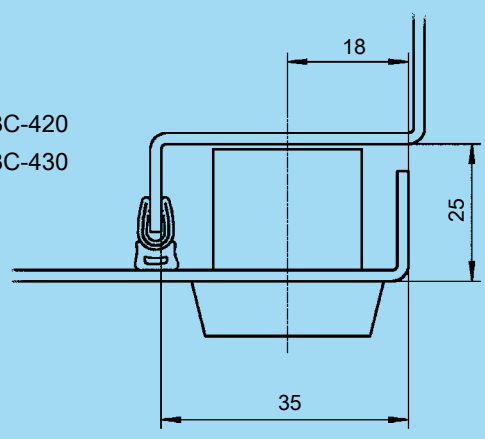
Lifthandle and escutcheon Program 1190

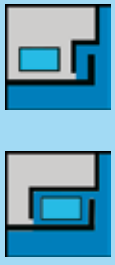






1	Lifthandle	3C-120
2	Escutcheon	3C-220
3	Lifthandle	3C-320, 3C-420
4	Lifthandle	3C-330, 3C-430
5	Rod	
6	Cam	
7	Rod	
8	Rod	
9	Profile half cylinder	
10	Door	
11	Cabinet/frame	





3F-100

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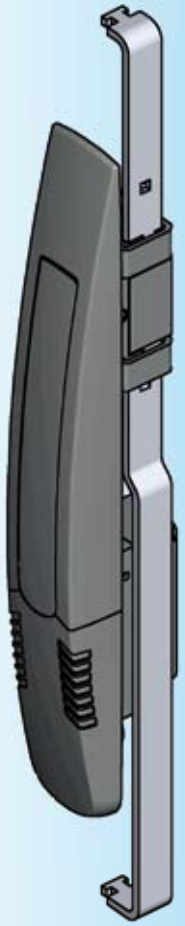
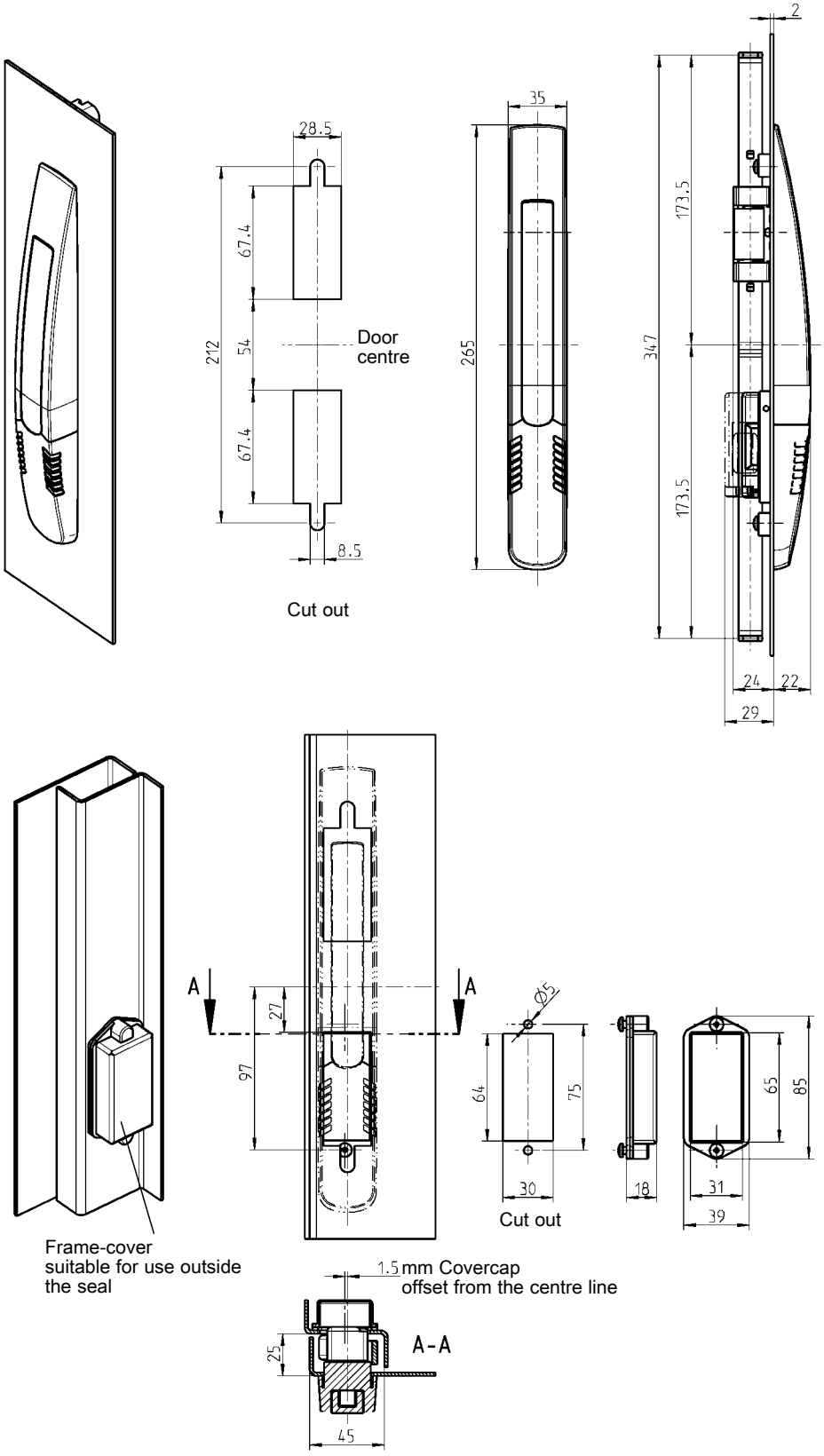
Beschlagteile

Lifthandle

PROGRAM 1190

RL IP 40





Note:
Frame-cover necessary only for kit see catalogue page 3XA-120

Stroke of rod one direction

Stroke 18 mm

Further parts see page

– Locking set	3XA-120 3XA-240
– Rod	
outside	3ZA-120 3ZA-320

Lifthandle polyamide GF black, flat rod m.s. zinc plated, push button polyamide black, fixing material m.s. zinc plated	
	1190-U1
Frame-cover polyamide GF black, screws m.s. zinc pl., for door LH and RH version, with seal	
	2100-U31

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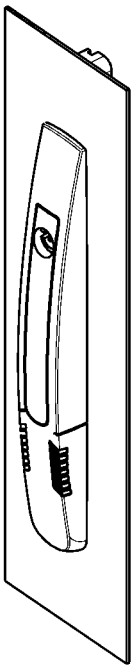
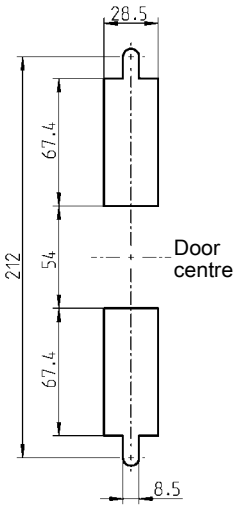
Escutcheon

PROGRAM 1190





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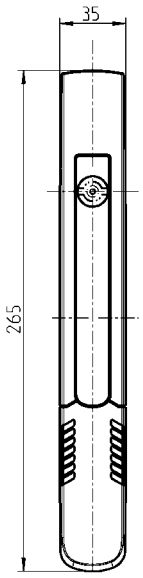

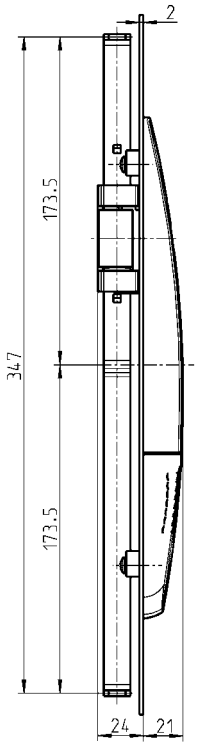

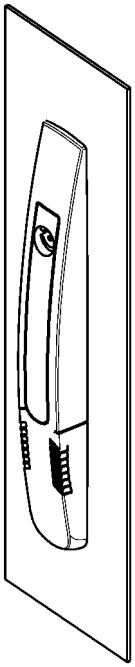

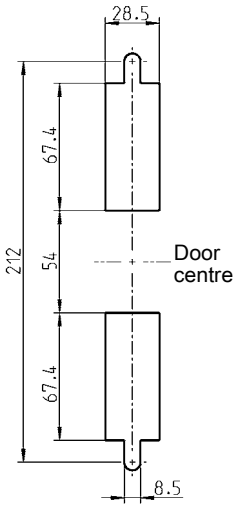

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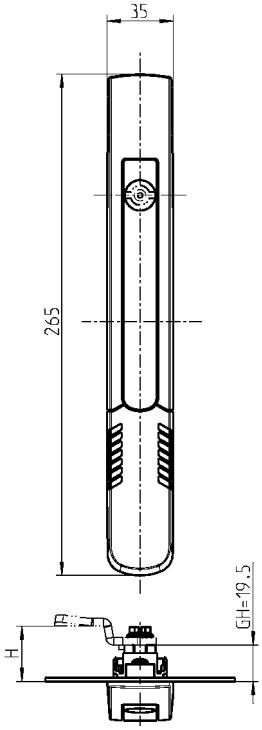

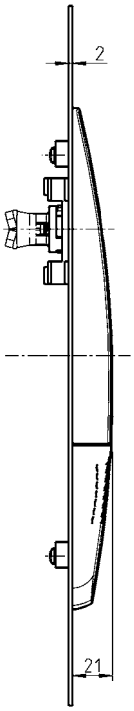

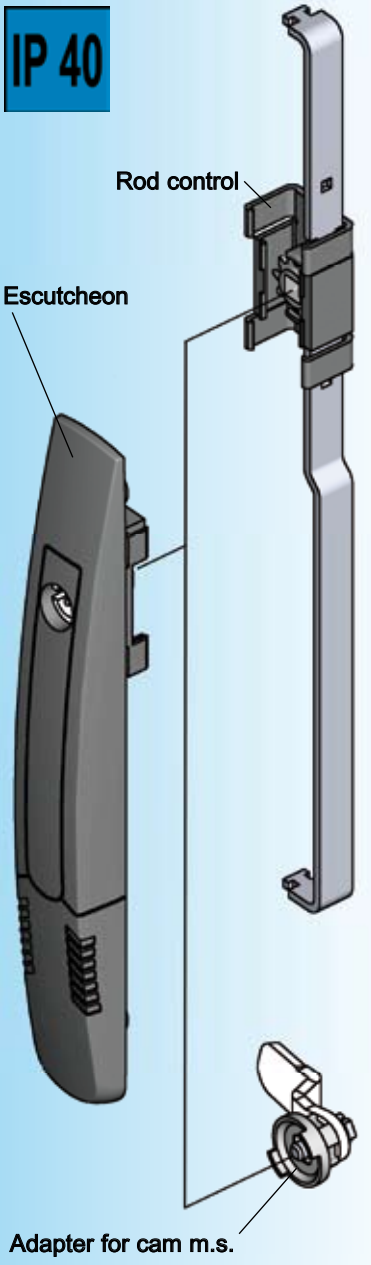

Stroke of rod one direction

Stroke 23,5 mm

Further parts see page

– Rod

outside 3ZA-120
3ZA-320

– Insert 1B-140

– Cam (GH=18) 1C-120

Note:
When using an adapter for cam the H-dimension is 1,5 mm larger

Escutcheon polyamide GF black, fixing material m.s. zinc plated	
	1190-U3
Rod control polyamide GF black, rods m.s. zinc plated	
	1190-U4
Adapter for cam Zinc die m.s. die cast, screw m.s. zinc plated	
	1190-U5

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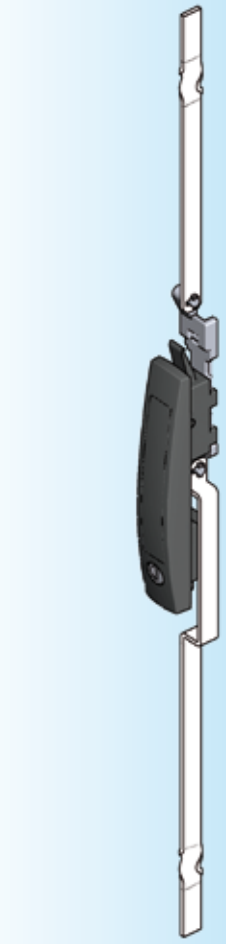
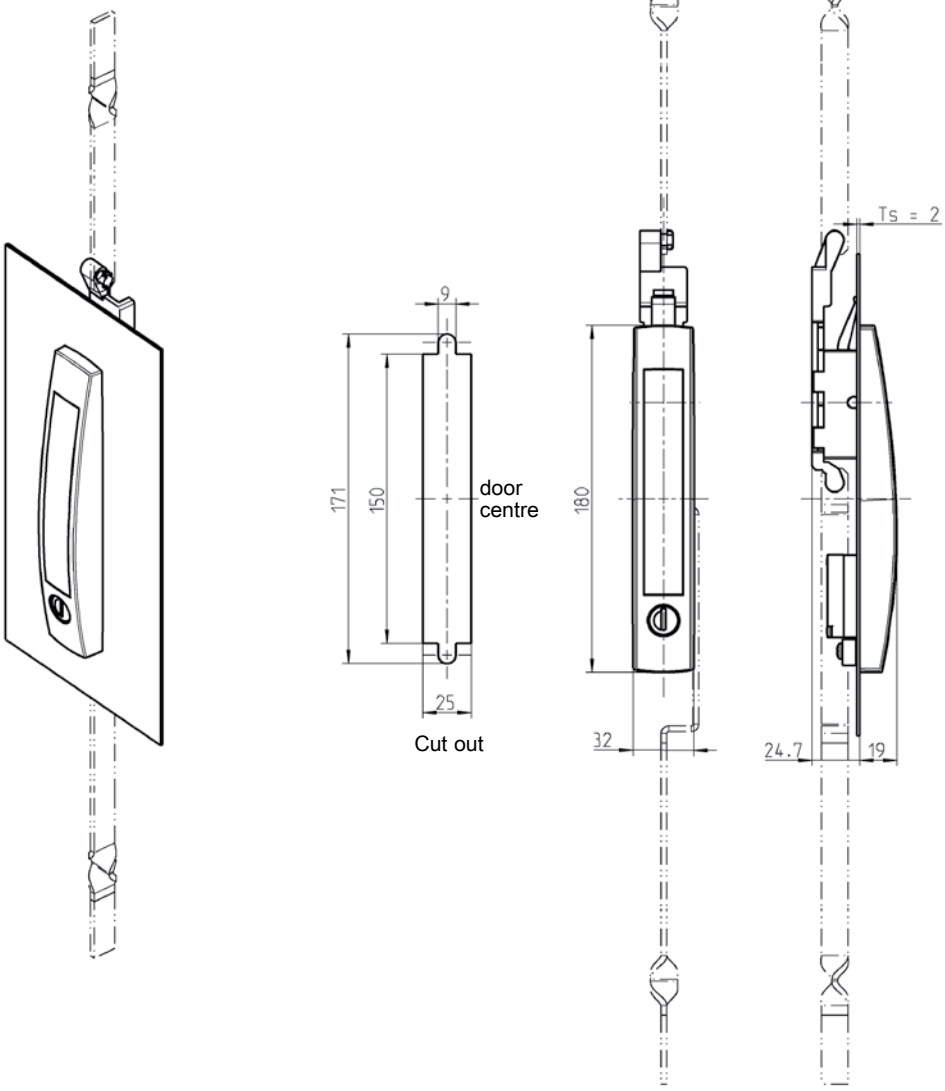
Lift handle lock

PROGRAM 1190





Lift handle polyamide GF black, rod control zinc die, screw m.s. zinc plated, round cylinder with stainless steel cap and dust cap. Each round cylinder has one silver steel key with polyamide grip GF black.	
keyed EK 333	1190-U206
keyed different	1190-U206-V
Insert zinc die chrome plated	
Square 6	1190-U209
Square 7	1190-U210
Square 8	1190-U211
Triangular 6.5 CNOMO	1190-U231
Triangular 7	1190-U212
Triangular 8	1190-U213
Double bit 3	1190-U214
Double bit 5	1190-U215
Daimler Benz	1190-U216
Slot 2x4	1190-U217
Hexagon female SW 8 with pin	1190-U218
Hexagon male SW 11	1190-U219

Rod movement is unidirectional

Stroke 18 mm

Further parts see page
– Rod
outside 3ZA-560

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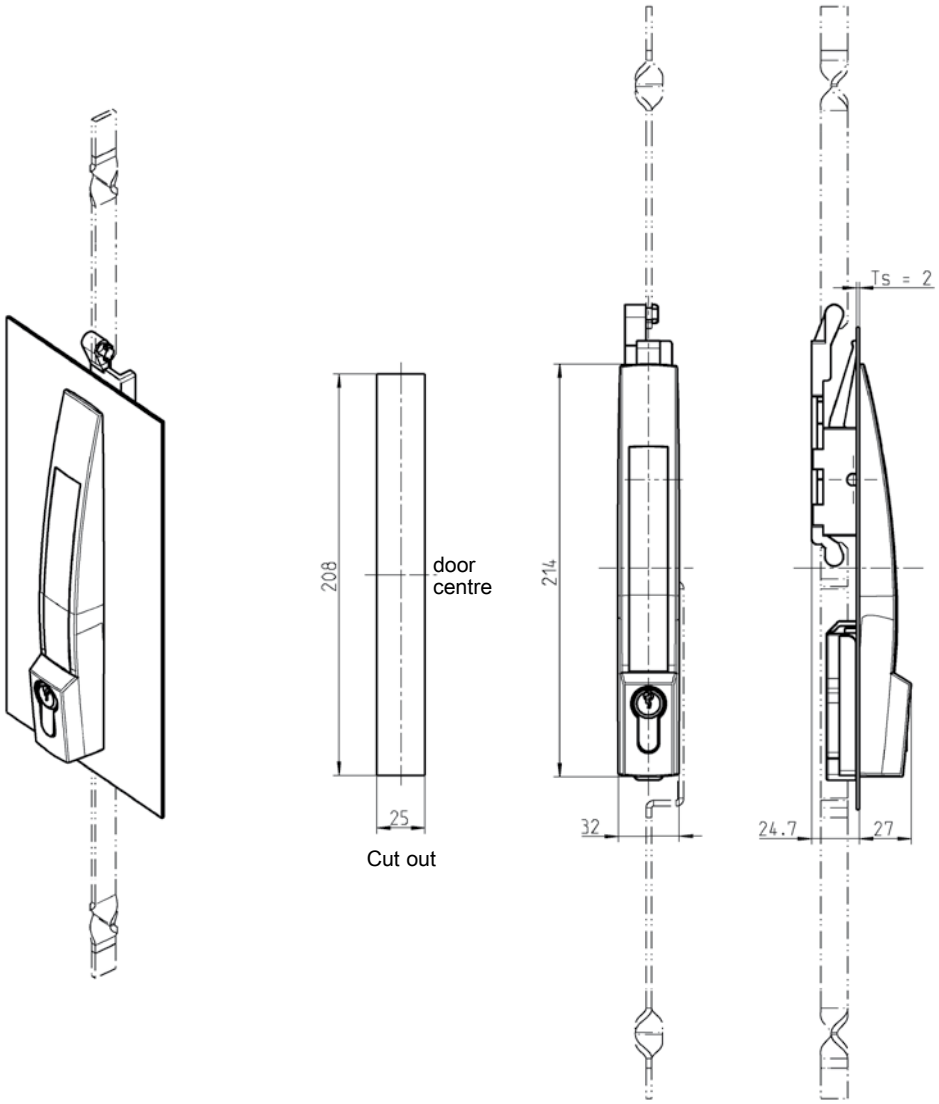
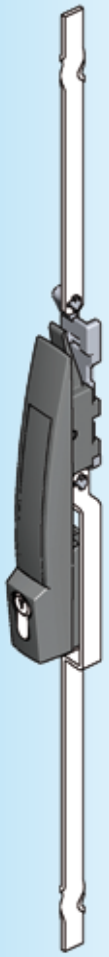
Lift handle lock

PROGRAM 1190





Note:
profile half cylinder 40 mm (A = 30mm),
set cam at 11 o'clock.

Rod movement is unidirectional

Stroke 18 mm

Further parts see page
– Rod
outside 3ZA-560
– Profile half cylinder 3XB-320

Lift handle polyamide GF black,
rod control zinc die, screw m.s. zinc plated

1190-U306

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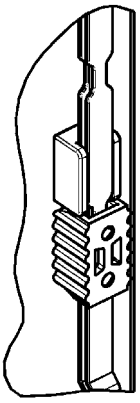
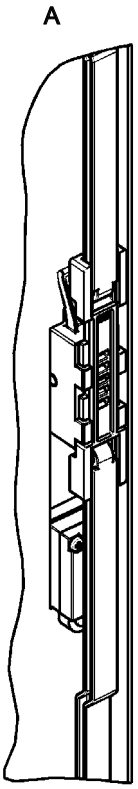
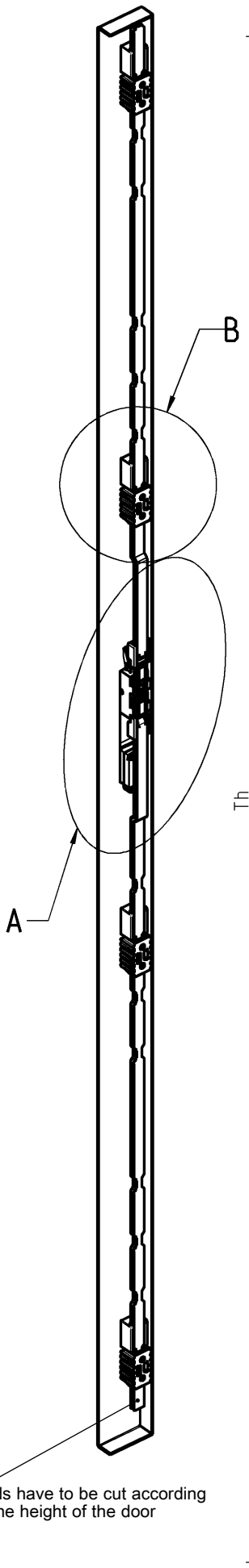
Complete lifthandle locking system

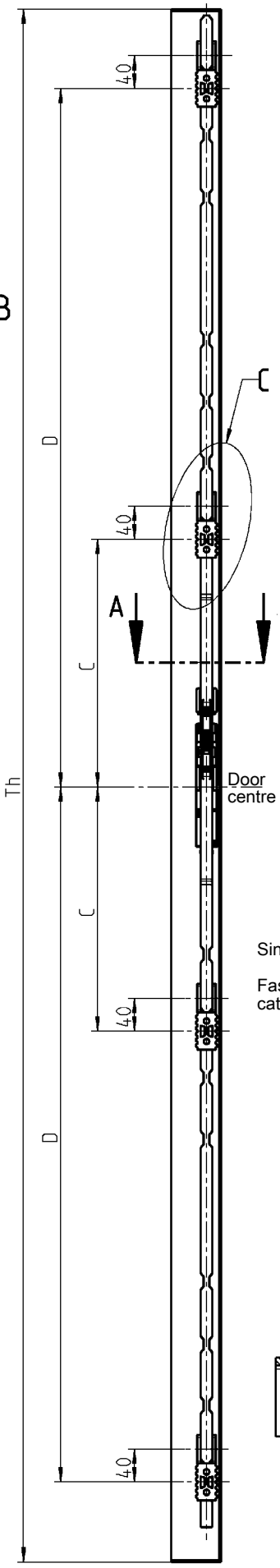
PROGRAM 1190

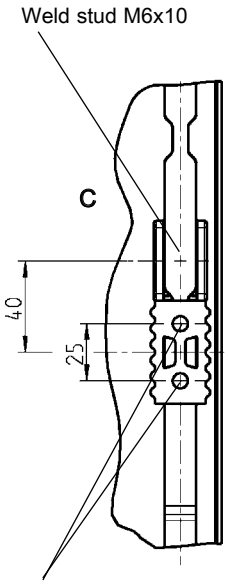


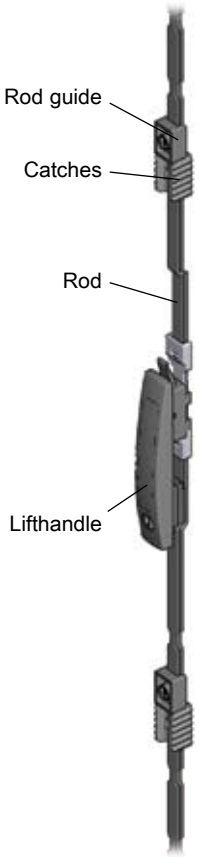




Rods have to be cut according to the height of the door

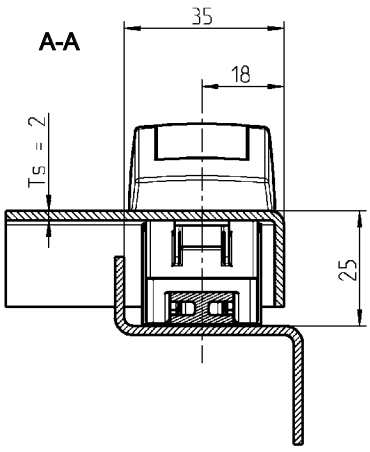






Single direction travel

Fastening material for the rod guides and catches are not part of the delivery kit



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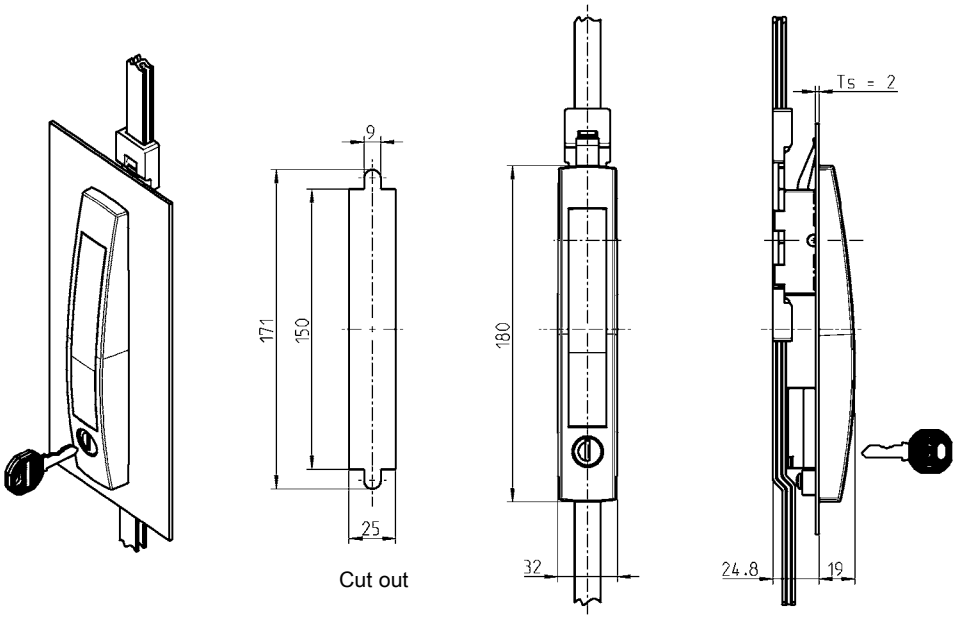

Lifthandle polyamide GF black, rod control zinc die, 2 rods polyamide GF black, number on choice, clip in rod guide plastic black for weld stud M6x10, number on choice, catch polyamide GF black for countersunk screw M6, screw m.s. zinc plated, round cylinder with stainless steel cap and dust protection.
Each round cylinder has one silver steel key with polyamide grip GF black.

Quantity rod guides and catches	2	4
keyed EK 333	1190-U7	1190-U6
keyed different	1190-U7-V	1190-U6-V
Inserts: Chrome plated zinc alloy		
Square 6	1190-U20	1190-U9
Square 7	1190-U21	1190-U10
Square 8	1190-U22	1190-U11
Triangular 6,5 CNOMO	1190-U32	1190-U31
Triangular 7	1190-U23	1190-U12
Triangular 8	1190-U24	1190-U13
Double bit 3	1190-U25	1190-U14
Double bit 5	1190-U26	1190-U15
Daimler Benz	1190-U27	1190-U16
Slot 2x4	1190-U28	1190-U17
Hexagon 8 mm female with pin	1190-U29	1190-U18
Male hexagon 11 mm	1190-U30	1190-U19
Height of the door Th	**Dim. C**	**Dim. D**
800 - 1200	-	300
1200 - 1600	-	450
1600 - 1900	300	700
1900 - 2200	300	850

Stroke 18 mm

Further parts see page
Assembly instruction 3F-440

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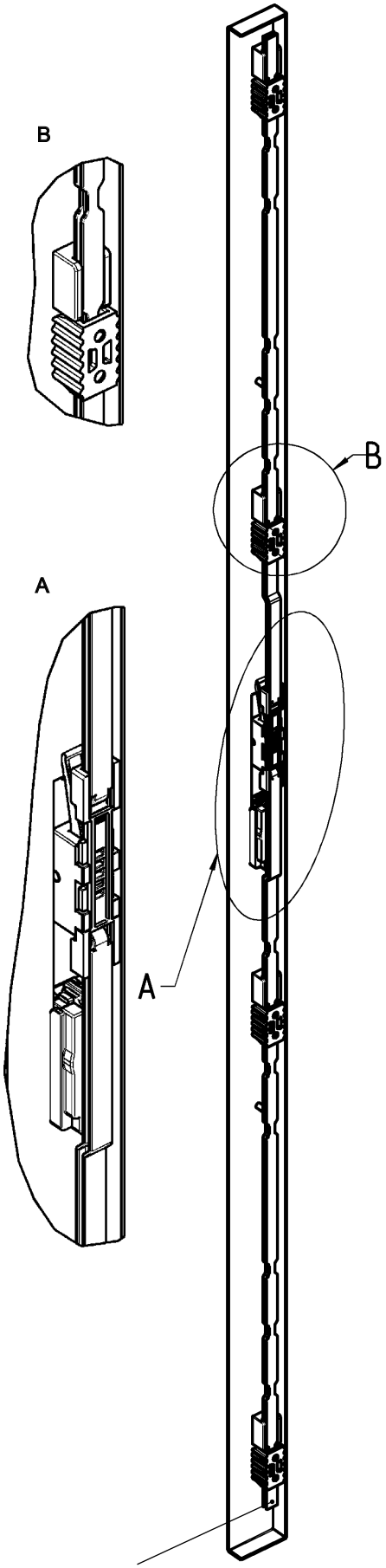
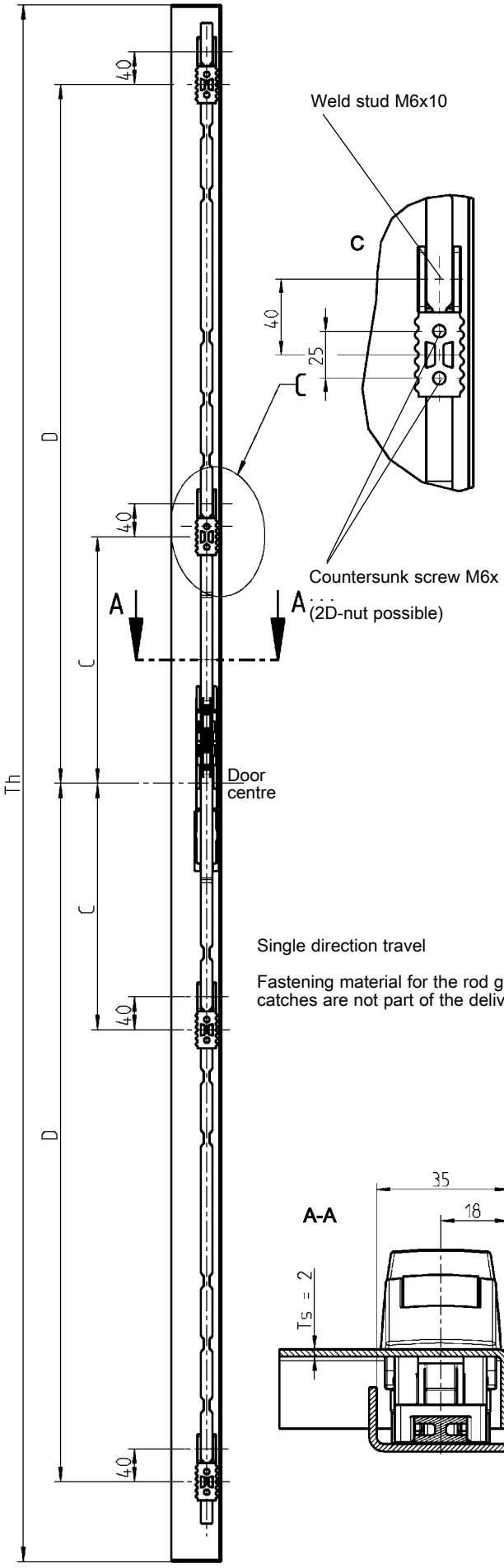
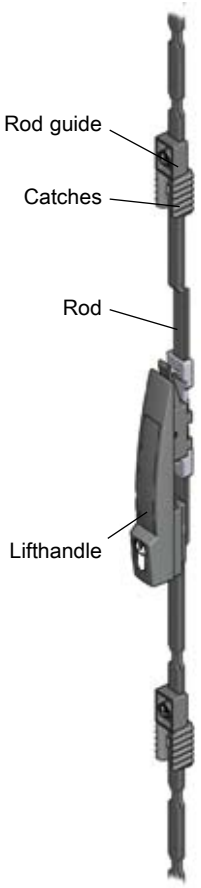
Complete lifthandle locking system

PROGRAM 1190

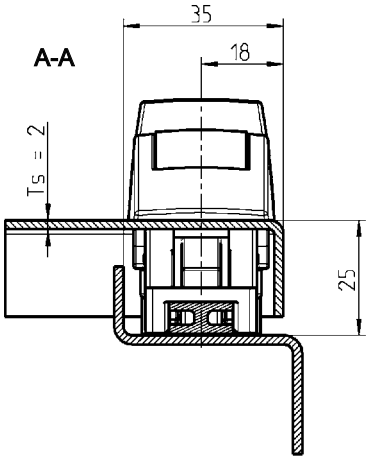






Single direction travel

Fastening material for the rod guides and catches are not part of the delivery kit



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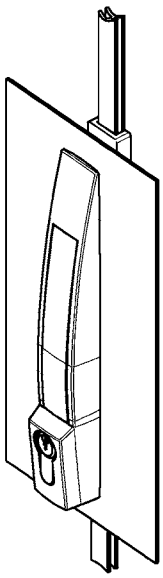

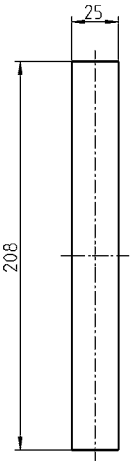

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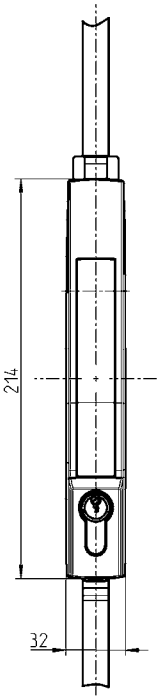

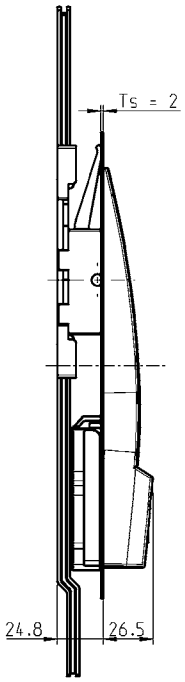

Note:
profile half cylinder 40 mm (A = 30 mm),
Set cam at 11 o'clock.

Lifthandle polyamide GF black, rod control zinc die, 2 rods polyamide GF black, number on choice, clip-in rod guide plastic black for weld stud M6x10, number on choice, catch polyamide GF black for countersunk screw M6, screw m.s. zinc plated		
Quantity rod guides and catches	2	4
	1190-U107	1190-U106
Height of the door Th	**Dim. C**	**Dim. D**
800 - 1200	-	300
1200 - 1600	-	450
1600 - 1900	300	700
1900 - 2200	300	850

Stroke 18 mm

Further parts see page
– Assembly instruction 3F-440
Profile half cylinder 3XB-320

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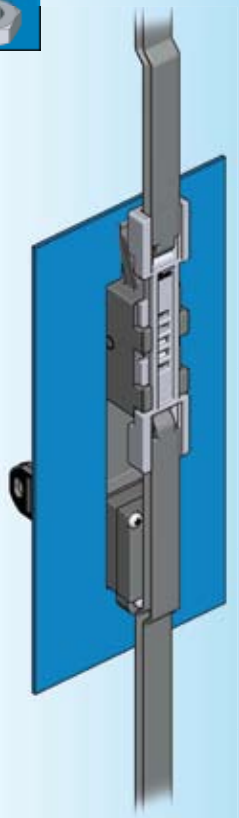
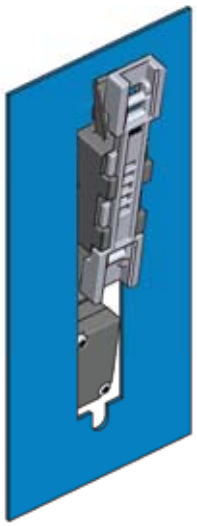
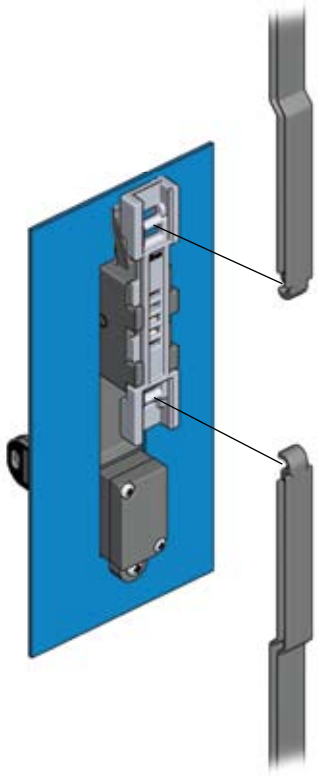
®Installation instructions: Lifthandle locking systems

PROGRAM 1190





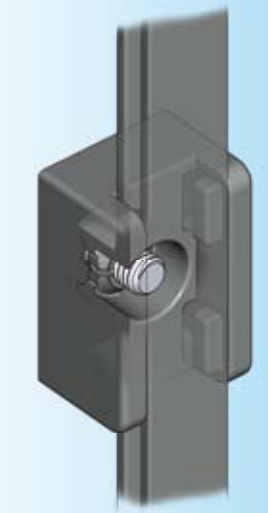


– Insert lifthandle through cut-out

– Fastening of the handle by use of the plastic washer and screw

– Rod guides to be slid on to the rods

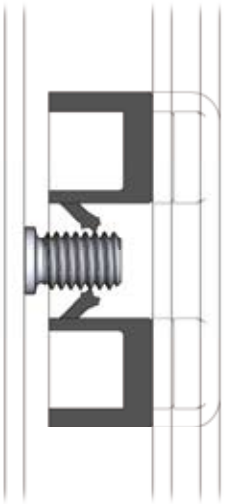
– Clip-in the rods



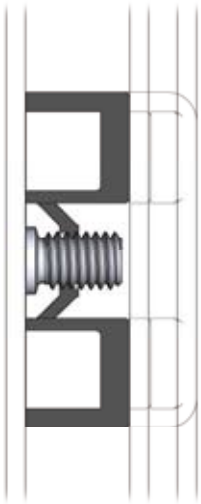
Rod guide with rod pictured transparent

Pull-out force: $F_{min.}$ = 350 N
Application force: Typical factor F = 135 N

These factors refer to a thread with surface raw or zinc plated and degreased.



Rod guide can be pre-assembled on rod



Rod guide pre-assembled

Further parts see page
– Further parts 3F-420
– 3F-430

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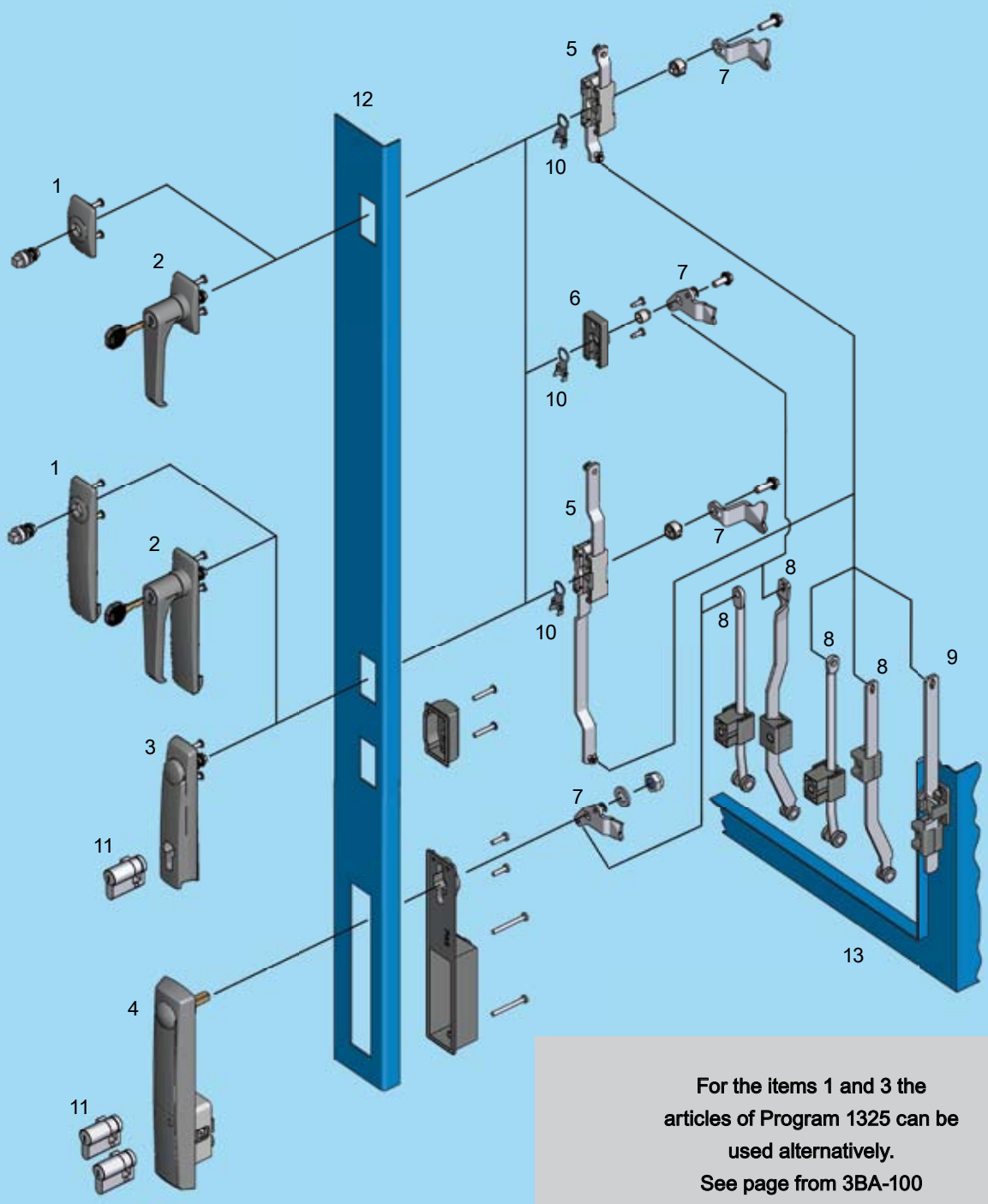
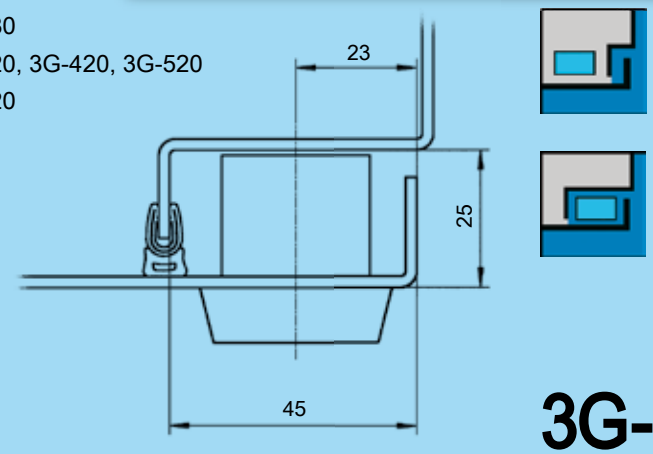
Swinghandle and escutcheon Program 1225



For the items 1 and 3 the articles of Program 1325 can be used alternatively.
See page from 3BA-100

1	Escutcheon with insert	3G-120
2	Escutcheon with handle	3G-180
3	Swinghandle	3G-220, 3G-420, 3G-520
4	Swinghandle (double cylinder)	3G-320
5	Rod control	
6	Bearing bush	
7	Cam	
8	Rod (inside the gasketing)	
9	Rod (outside the gasketing)	
10	Earthing device	
11	Profile half cylinder	
12	Door	
13	Cabinet/frame	



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Escutcheon with insert

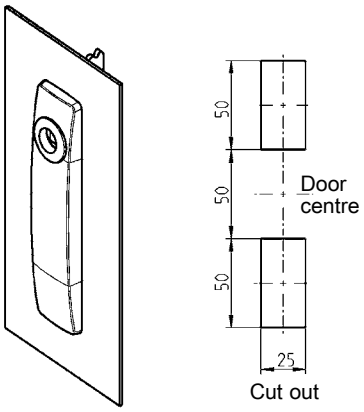
PROGRAM 1225

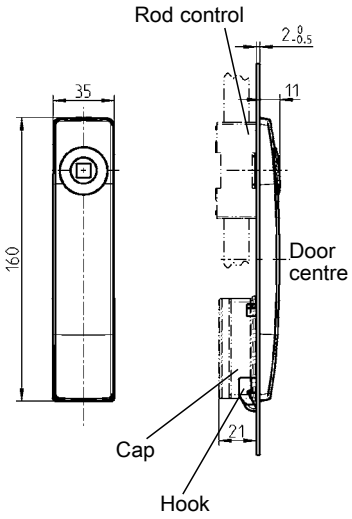
*** in Polyamide on request**

Further parts see page

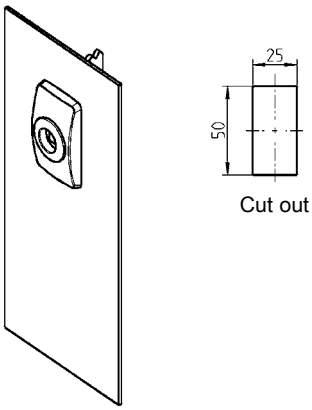
– Key	12B-120
– Rod control for long version	3YA-110 3YA-120 3YA-140
Short version	3YA-115 3YA-160
– Bearing bush	3YB-120

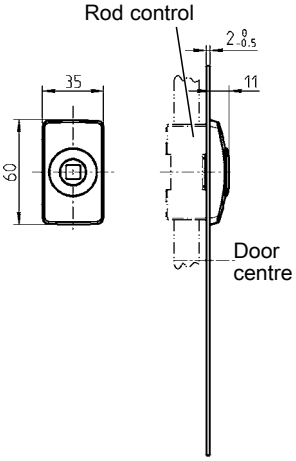
Escutcheon, long





Escutcheon, short

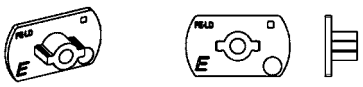




Escutcheon long polyamide GF black, screw m.s. zinc plated, with seal	hook IP 40	screw on cap IP 65	Escutcheon short polyamide GF black, screws m.s. zinc pl., with seal IP 65
for square, triangular Daimler-Benz, slot	1221-U19	1221-U133	1221-U22
for double bit	1221-U20	1221-U134	1221-U23
for railroad square 9	1221-U19A	1221-U135	1221-U22A

Insert, zinc die chrome plated, fixing material m.s. zinc plated			
Square 6	1121-U11	Double bit 3*	1121-U16
Square 7	1121-U12	Double bit 5*	1121-U17
Square 8	1121-U13	Square female 8	1121-U167
Triangular 6,5 CNOMO	1121-U169	Slot 2 x 4	1121-U123
Triangular 7	1121-U14	Railroad square 9	1121-U72
Triangular 8	1121-U15	Daimler Benz	1121-U18

Accessories



Transport safety device polyamide GF black for double bit insert 1121-32

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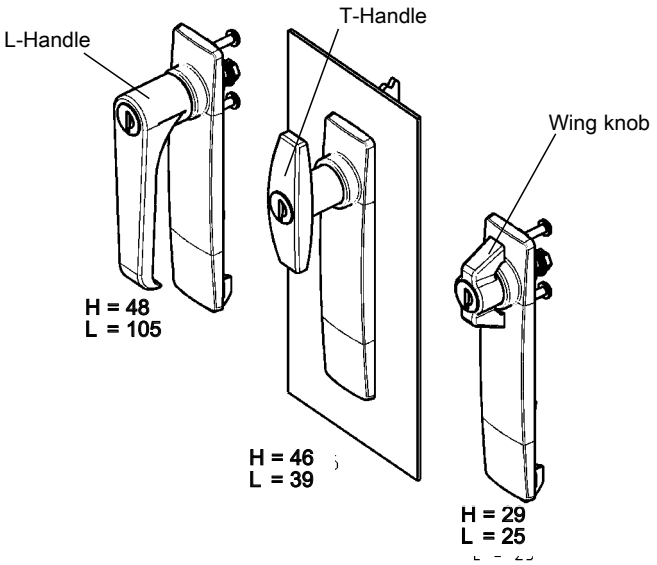
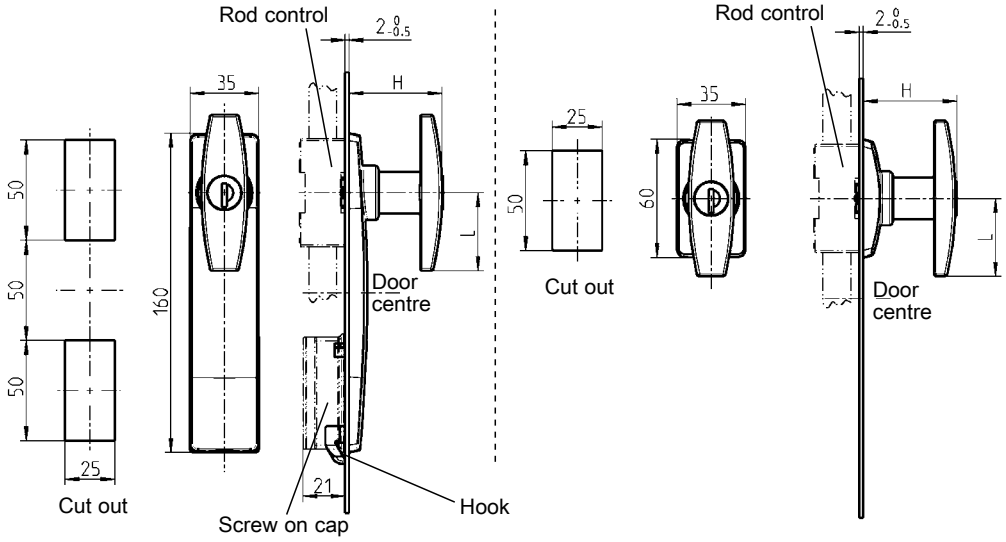
Escutcheon with handle

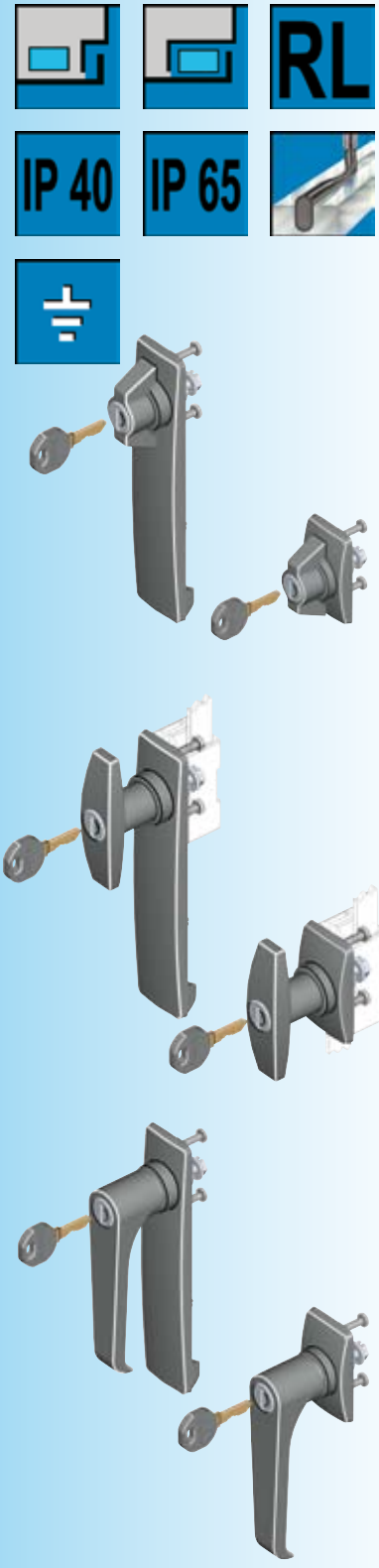
PROGRAM 1225





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

Escutcheon polyamide GF black, round cylinder with stainless steel cap and shutter, fixing material m.s. zinc plated, with seal	Escutcheon long hook IP 40	Escutcheon long screw on cap IP 65	Escutcheon short IP 65
Wing knob zinc die black powder coated			
non locking	1223-U1	1223-U25	1223-U4
keyed EK 333	1223-U2	1223-U26	1223-U5
keyed different	1223-U3	1223-U27	1223-U6
T-Handle zinc die black powder coated			
non locking	1223-U7	1223-U28	1223-U10
keyed EK 333	1223-U8	1223-U29	1223-U11
keyed different	1223-U9	1223-U30	1223-U12
prepared for KABA 1036	1223-U21	–	1223-U22
L-Handle zinc die black powder coated			
non locking	1223-U13	1223-U31	1223-U16
keyed EK 333	1223-U14	1223-U32	1223-U17
keyed different	1223-U15	1223-U33	1223-U18
prepared for KABA 1036	1223-U19	–	1223-U20



Further parts see page

– Key	12B-120
– Spare key	12B-140
– Rod control for long version	3YA-110 3YA-120 3YA-140
Short version	3YA-115 3YA-160
– Bearing bush	3YB-120
– Dust cap for T-Handle	1C-340

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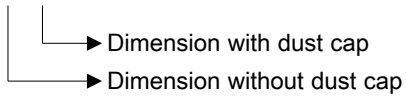
Swinghandle

PROGRAM 1225

Example:
***(22/24 mm)**



Swinghandle for profile half cylinder, polyamide GF black, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal				
	screw on cap IP 65		**hook IP 40**	
	with	**without**	**with**	**without**
	sliding dust cover		**sliding dust cover**	
for 40 mm half cylinder *(22/24 mm)	1225-U191	1225-U190	1225-U186	1225-U185
for 40 mm half cylinder *(22/24 mm) lead-sealable	1225-U191-01	-	1225-U186-01	-
for 45 mm half cylinder *(28/30 mm)	1225-U196	1225-U195	1225-U194	1225-U193
with cylinder (Berlin version)	-	-	1225-U276	1225-U275
Swinghandle for profile half cylinder polyamide GF black, handle zinc die black powder coated, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal				
for 40 mm half cylinder *(22/24 mm)	-	1225-U190-01	-	1225-U185-01
Swinghandle polyamide GF black with EMC-shielding for profile half cylinder, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal				
for 40 mm half cylinder *(22/24 mm)	1225-U191-E	-	-	-
Swinghandle polyamide GF black with round cylinder including stainless steel cap and dust cap or insert zinc die chrome plated, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal. Each round cylinder has one silver steel key with polyamide grip GF black.				
	screw on cap		**hook**	
	with	**without**	**with**	**without**
	sliding dust cap		**sliding dust cap**	
Round cylinder keyed EK 333	1225-U206	1225-U202	on request	1225-U268
Round cylinder keyed different	1225-U207	1225-U203	on request	1225-U269
Square 6 [1]	1225-U242	1225-U210	on request	on request
Square 7 [1] [2]	1225-U243	1225-U211	on request	on request
Square 8 [1] [2]	1225-U244	1225-U212	on request	on request
Square 8 slotted	1225-U245	1225-U213	on request	on request
Triangular 6,5 CNOMO	1225-U246	1225-U214	1225-U201	1225-U200
Triangular 7 [1]	1225-U247	1225-U215	on request	on request
Triangular 8 [1] [2]	1225-U248	1225-U216	on request	on request
Double bit 3	1225-U249	1225-U236	on request	on request
Double bit 5	1225-U250	1225-U239	on request	on request
Hexagon female 10	1225-U251	1225-U219	on request	on request
Female Square 6	1225-U252	1225-U220	on request	on request
Square female 8	1225-U253	1225-U221	on request	on request
Daimler Benz	1225-U254	1225-U222	on request	on request
Slot 1,2 x 3	on request	on request	on request	on request
Slot 2 x 4 [1] [2]	1225-U256	1225-U224	on request	on request
Crown type	1225-U257	1225-U225	on request	on request
Eastern Europe Ø 13	1225-U282	1225-U283	on request	on request
Prepared for padlock and profile cylinder	-	1225-U184	-	on request

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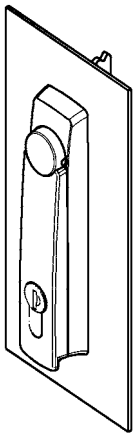
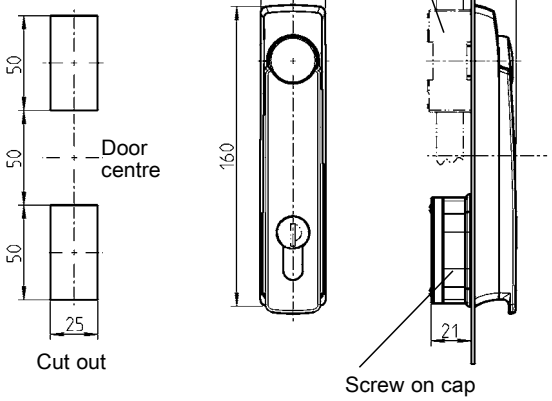
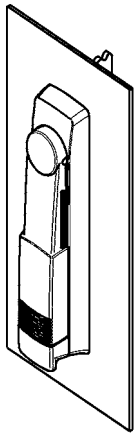
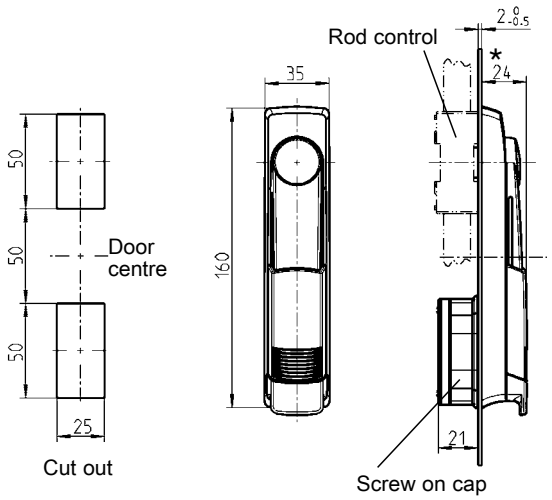
Swinghandle for profile half cylinder



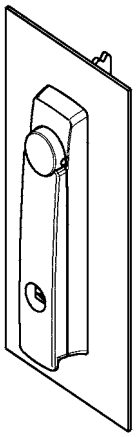


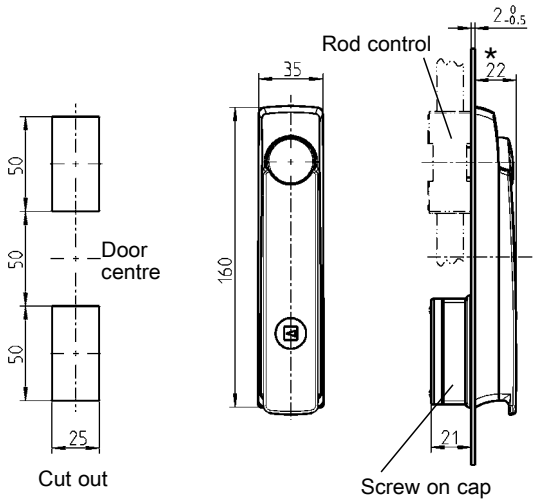
Swinghandle with sliding dust cover

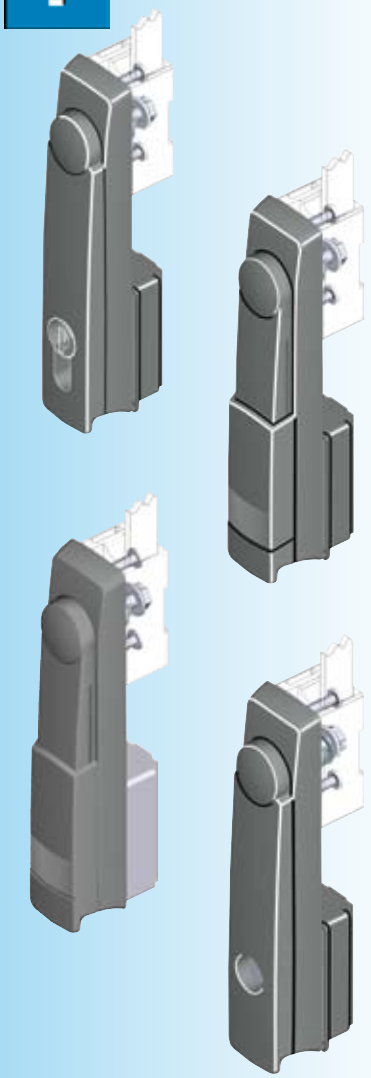




Swinghandle with round cylinder or insert







Further parts see page

– Key	11B-120
– Rod control	3YA-110
	3YA-120
	3YA-140
– Bearing bush	3YB-120
– Profile half cylinder	3XB-120

On request:
Insert in
1) Zinc die black p.c.
2) polyamide black
– Cap without foamed seal for small bending area
– EMC-version
– Swinghandle lead-sealable
– Handle in zinc die

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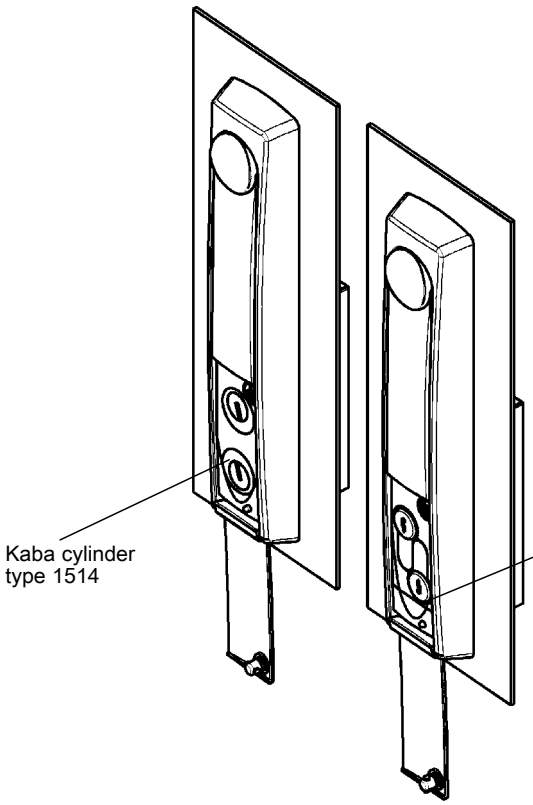
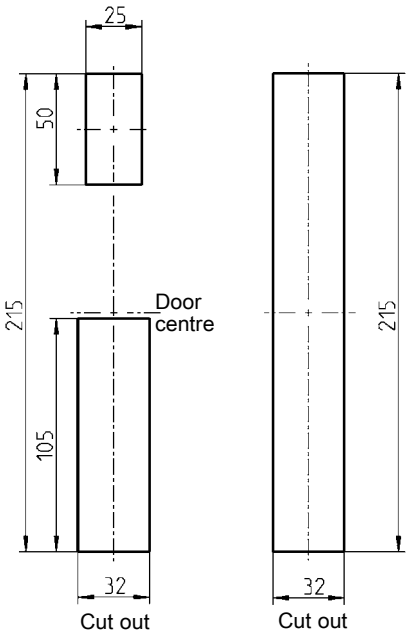
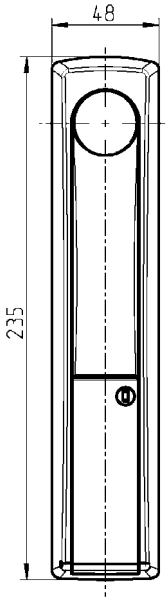
Double cylinder-swinghandle

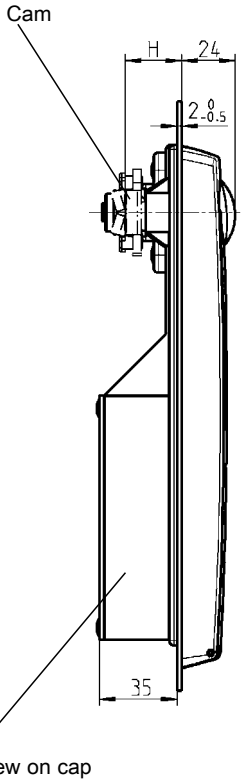
PROGRAM 1225

RL IP 65









Further parts see page
– Cam 3YC-140
– Profile half cylinder 3XB-220
(please only use 1089-U1 or 1089-U2)

Swinghandle and escutcheon zinc die black powder coated, shaft brass, fixing material m.s. zinc pl., with seal	
Double cylinder swinghandle for profile half cylinder	1225-U60
Blank for using only one profile half cylinder	1109-09-AA
Double cylinder swinghandle for type KABA 1514	1225-U62

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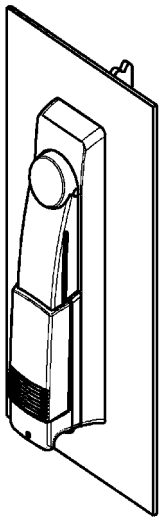
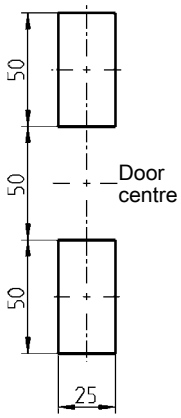
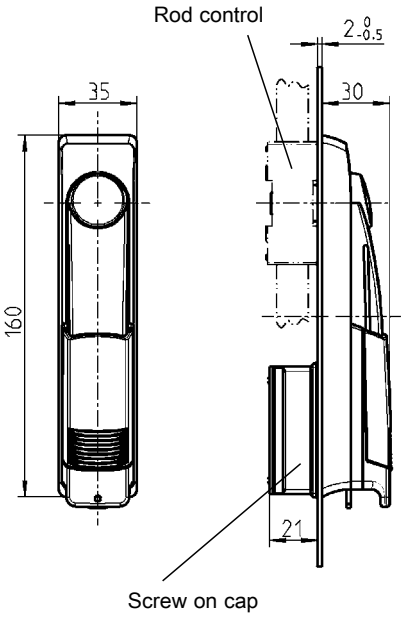
Swinghandle KABA and ASSA

PROGRAM 1225

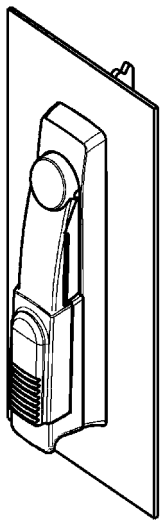


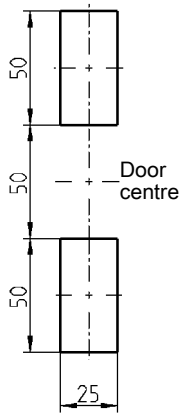


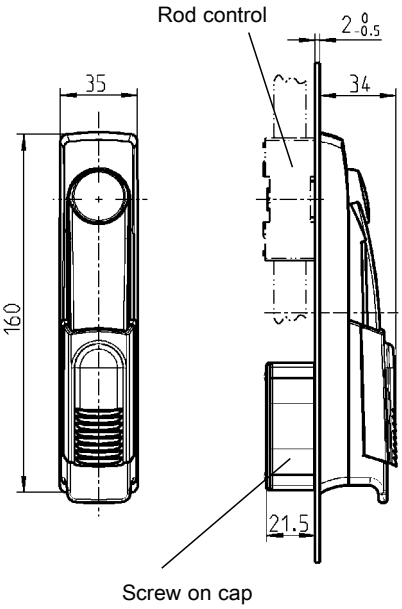


Note: Customer to supply own KABA Cylinder

Swinghandle for KABA-cylinder, polyamide black, lead-sealable Fixing material m.s. Zinc platet with seal	1225-U291

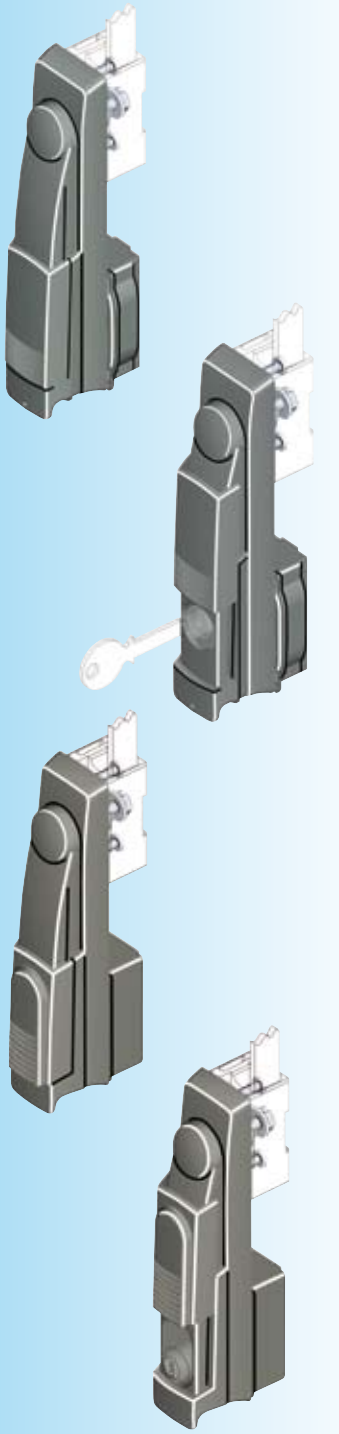






Note: Customer to supply own ASSA Cylinder

Swinghandle for ASSA-cylinder, polyamide black, shaft zinc die zinc pl., fixing material m.s. zinc pl., with seal	1225-U198



Further parts see page

– Rod control	3YA-110 3YA-120 3YA-140
– Bearing bush	3YB-120

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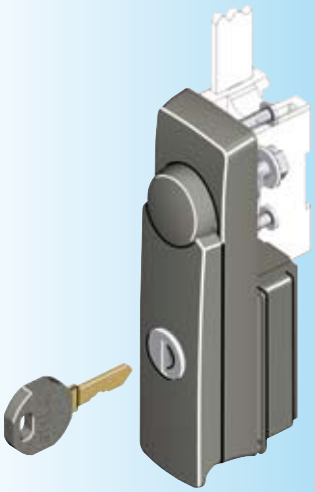
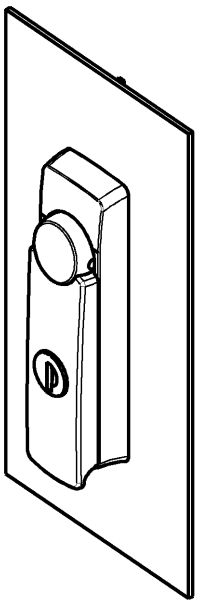
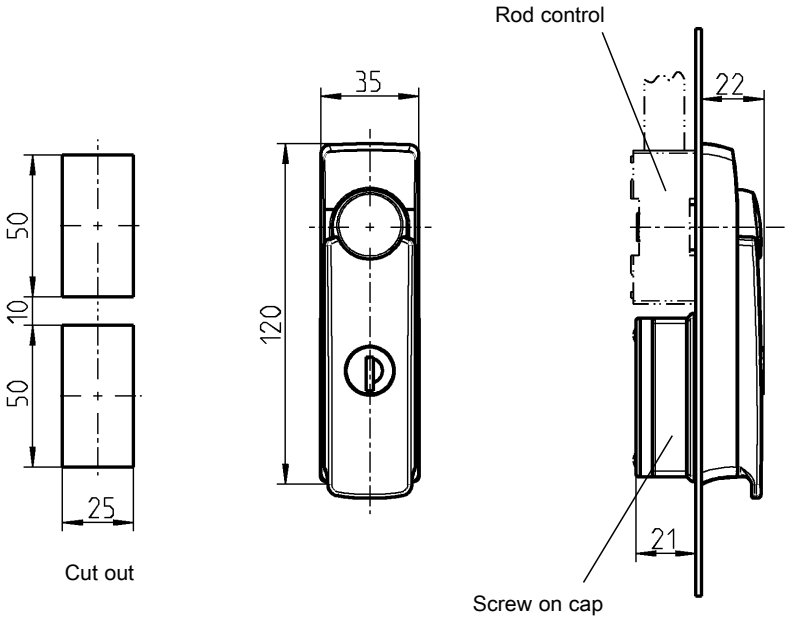
Swinghandle, small version

PROGRAM 1225







Further parts see page

– Rod control (1121-U60-C or 1121-U61-C)	3YA-160
– Bearing bush (H-dimension Cam > 23)	3YB-120
– Spare key	12B-140

Swinghandle and escutcheon polyamide black, with round cylinder with stainless steel cap and shutter, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal	
keyed EK 333	1240-U1
keyed different	1240-U2

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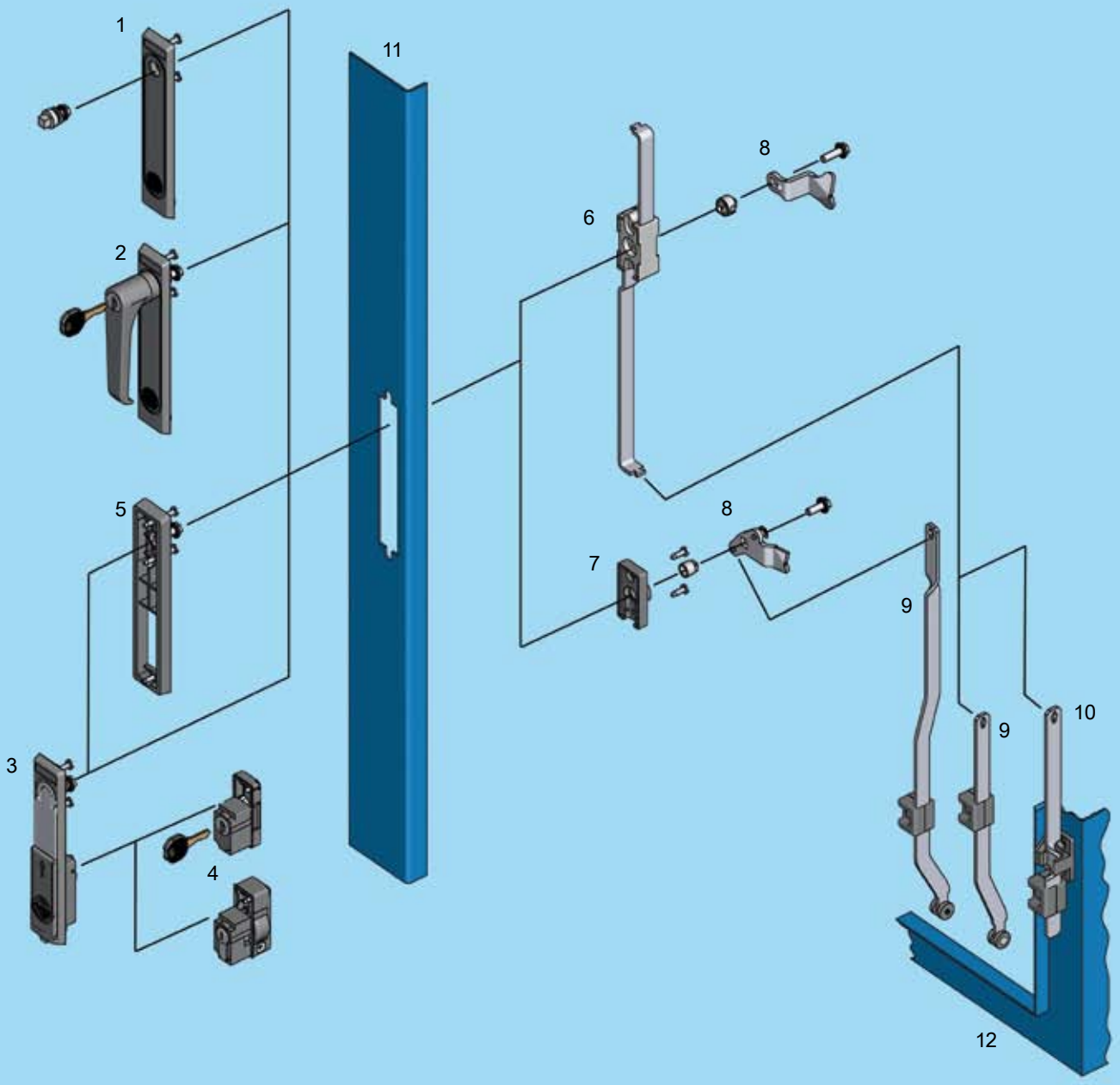
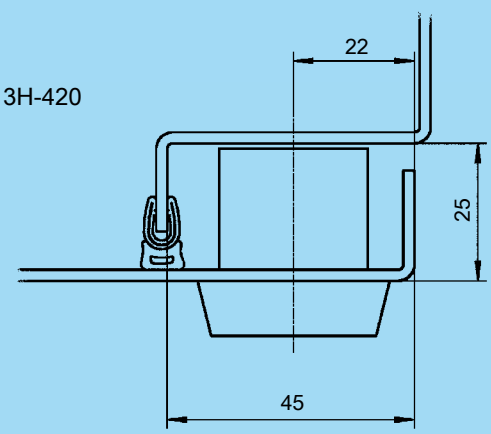
Swinghandle and Escutcheon Program 2100



1	Escutcheon with insert	3H-120
2	Escutcheon with handle	3H-220
3	Swinghandle	3H-320, 3H-420
4	Locking set	
5	Adapter frame	
6	Rod control	
7	Bearing bush	
8	Cam	
9	Rod (inside the gasketing)	
10	Rod (outside the gasketing)	
11	Door	
12	Cabinet/frame	



3H-100

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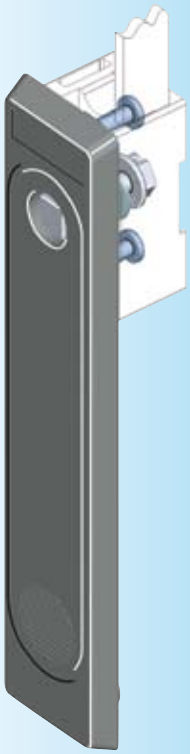
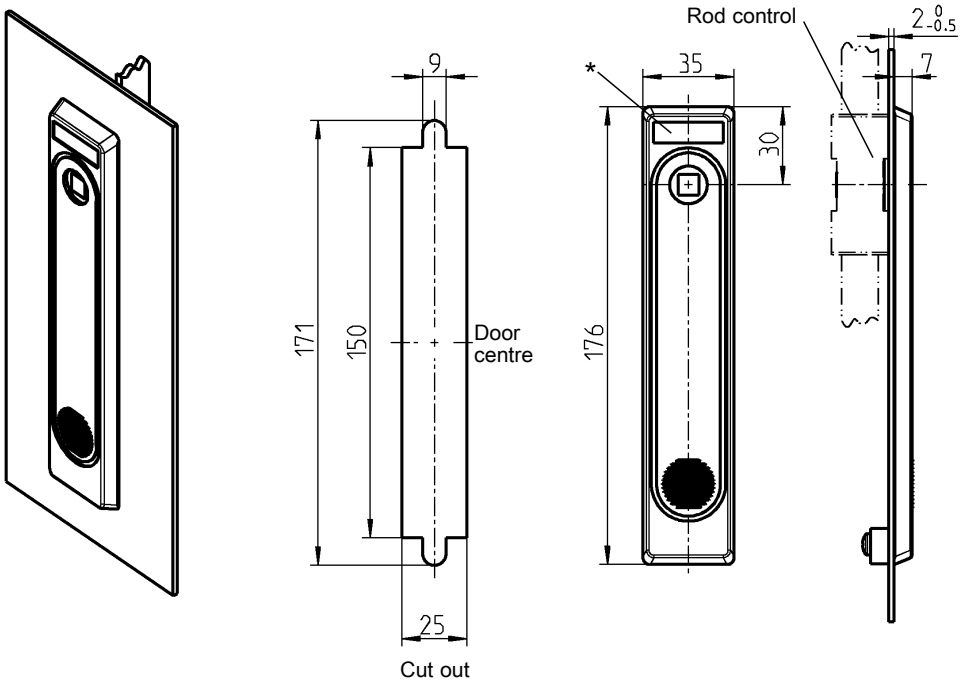
Escutcheon with insert

PROGRAM 2100



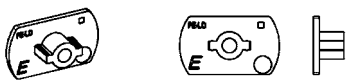


Escutcheon polyamide black, fixing material m.s. zinc plated, with seal			
for square, triangular, Daimler-Benz, slot	2150-U1		
for double bit with mask	2150-U2		
for FIAT	2150-U3		
Insert zinc die chrome pl., fixing material m.s. zinc pl.			
Square 6	1121-U11	Double bit 3**	1121-U16
Square 7	1121-U12	Double bit 5**	1121-U17
Square 8	1121-U13	Square female 8	1121-U167
Triangular 6,5 CNOMO	1121-U169	Daimler Benz	1121-U18
Triangular 7	1121-U14	FIAT	1121-U24
Triangular 8	1121-U15	Slot 2 x 4	1121-U123

* Logo recess: 27 x 8 x 0,5
Multicolour print possible

** in polyamide on request

Accessories



Transport safety device polyamide black for double bit insert

1121-32

Further parts see page

– Key	12B-120
– Rod control	3YA-520
	3YA-540
– Bearing bush	3YB-140

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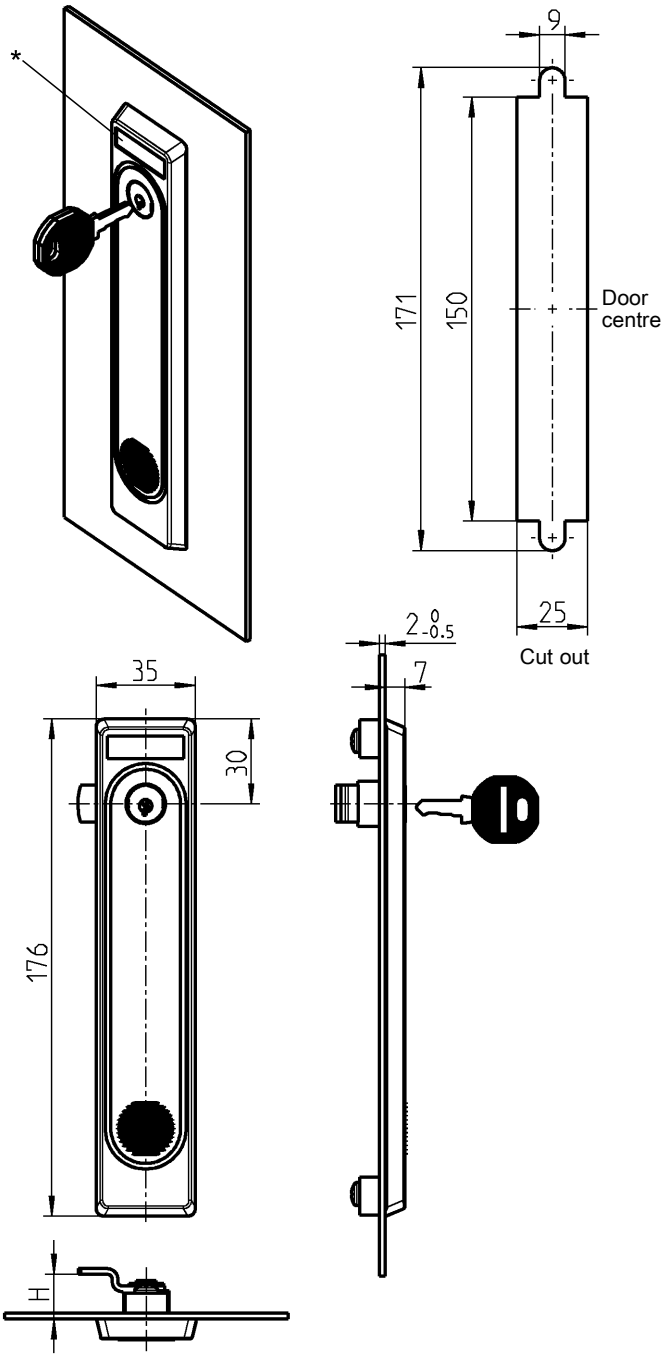
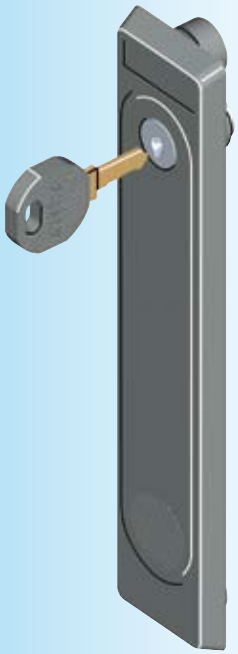
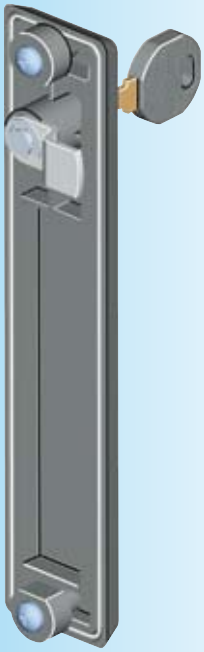
Escutcheon

PROGRAM 2100







Escutcheon polyamide GF black, round cylinder zinc die with stainless steel cap, fixing material m.s. zinc plated, with seal. Each round cylinder has one silver steel key with polyamide grip GF black.		
H-dimension 4	**LH version**	**RH version**
keyed different	2150-U4	2150-U4-01
keyed alike 2233X	2150-U5	2150-U5-01
H-dimension 10	**LH version**	**RH version**
keyed different	2150-U6	2150-U6-01
keyed alike 2233X	2150-U7	2150-U7-01
H-dimension 16	**LH version**	**RH version**
keyed different	2150-U8	2150-U8-01
keyed alike 2233X	2150-U9	2150-U9-01

* Logo recess: 27 x 8 x 0,5
Multicolour print possible

Turn = 90°

Further parts see page
– Spare key 12B-140

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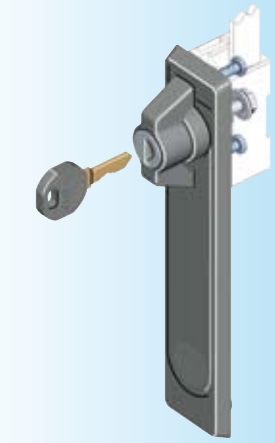
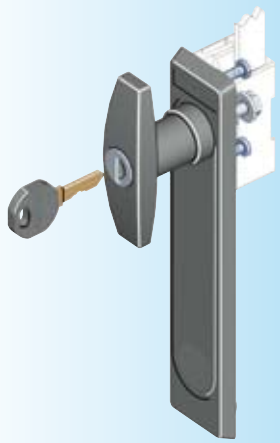
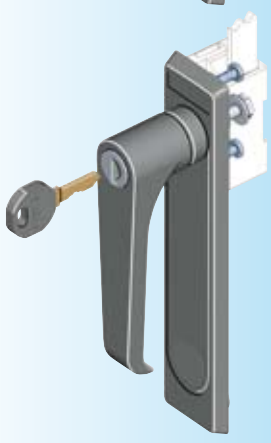
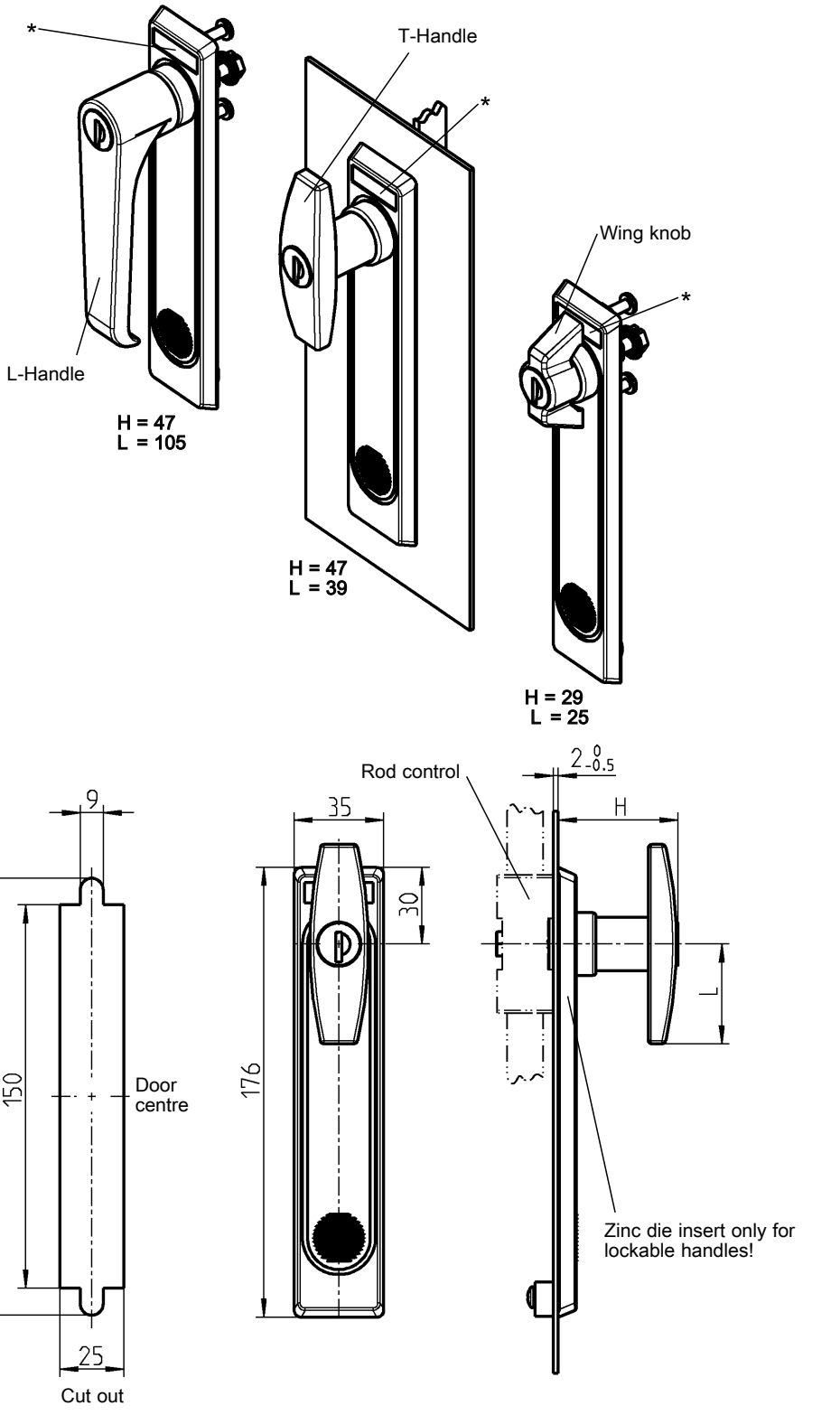
Escutcheon with handle

PROGRAM 2100









* Logo recess: 27 x 8 x 0,5
Multicolour print possible

** in polyamide on request

Further parts see page

– Spare key	12B-140
– Rod control	3YA-520 3YA-540
– Bearing bush	3YB-140
– Dust cap for T-handle	1C-340

Escutcheon polyamide GF black; handle zinc die black powder coated, round cylinder with stainless steel cap and dust cap, fixing material m.s. zinc plated, with seal.
Each round cylinder has one silver steel key with polyamide grip GF black.

	non locking	keyed EK 333	keyed different
Wing knob	2153-U9	2153-U10	2153-U11
T-Handle	2153-U6	2153-U7	2153-U8
L-Handle	2153-U3	2153-U4	2153-U5
Prepared for KABA-cylinder type 1036 with standard locking and / or locking systems			on request

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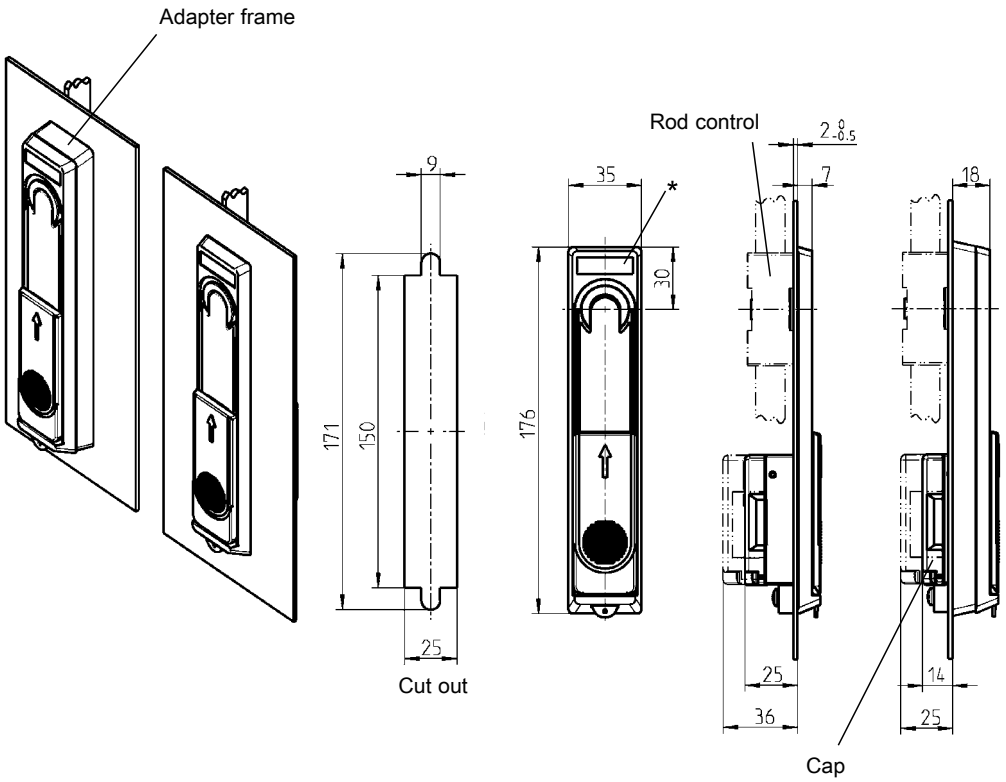
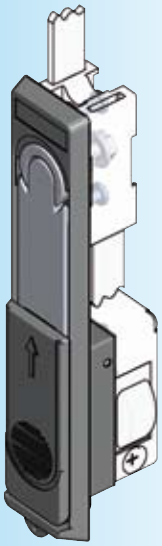
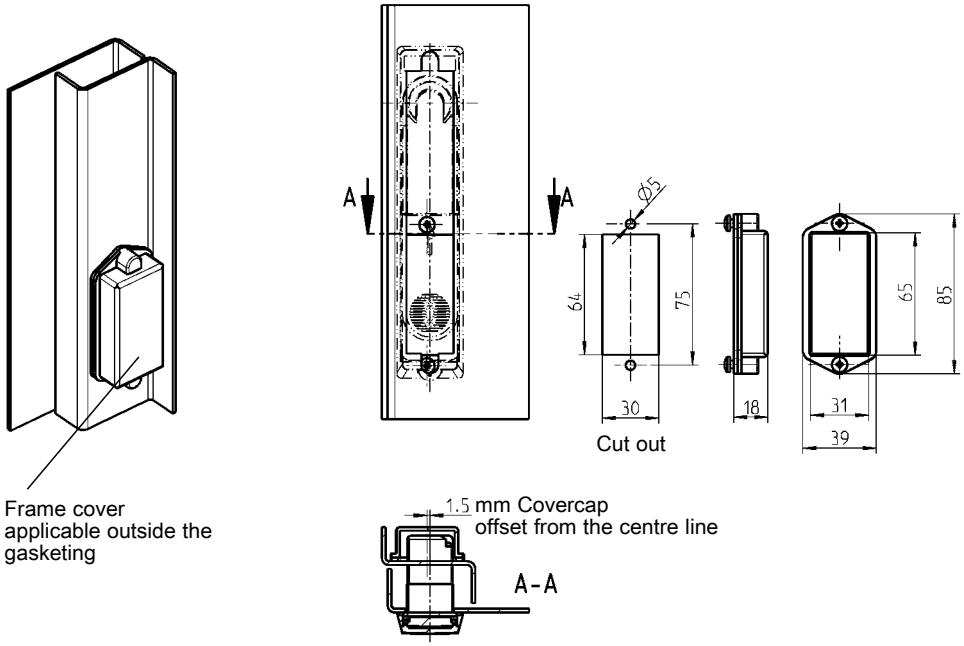
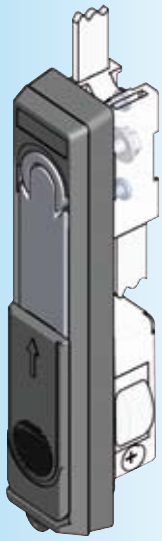
Swinghandle

PROGRAM 2100









Note:
Swinghandle without locking set

* Logo recess: 27 x 8 x 0,5
Multicolour print possible

Swinghandle polyamide black, handle zinc die chrome pl., fixing material m.s. zinc pl., with seal	
Sliding dust cap polyamide black	2100-U1
Sliding dust cap zinc die black powder coated	2100-U2
Adapter frame polyamide black, adapter cast steel fixing material m.s. zinc pl.	
	2100-U59
Frame cover polyamide black, fixing material m.s. zinc pl. for RH and LH version, with seal	
	2100-U31

Further parts see page

– Locking set	3XA-120 3XA-140
– Locking set ELM	Chapter 11
– Rod control	3YA-520 3YA-540
– Bearing bush	3YB-140

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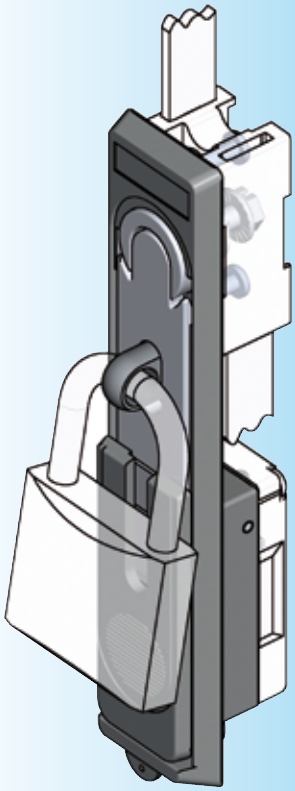
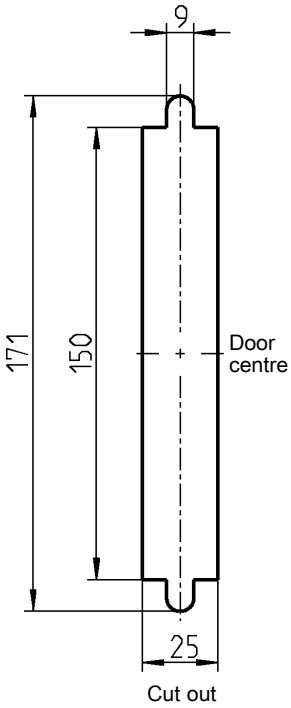
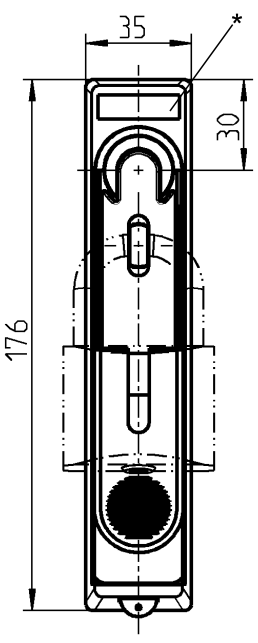
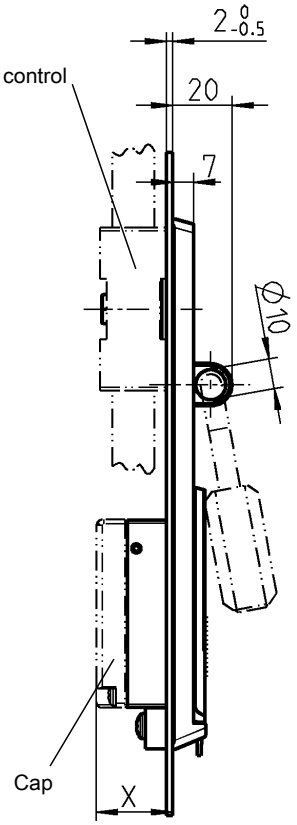
Swinghandle

PROGRAM 2100









* Logo recess: 27 x 8 x 0,5
Multicolour print possible

Further parts see page

– Locking set	3XA-120 3XA-140
– Locking set ELM	Chapter 11
– Rod control	3YA-520 3YA-540
– Bearing bush	3YB-140

Swing handle polyamide GF black; handle zinc die matt chrome plated; sliding cover zinc die black powder coated; padlock shackle AISI 303; Fixing material m.s. zinc plated, with seal	
	2100-U9
Ford version with:	
Locking set square 7	2100-U33

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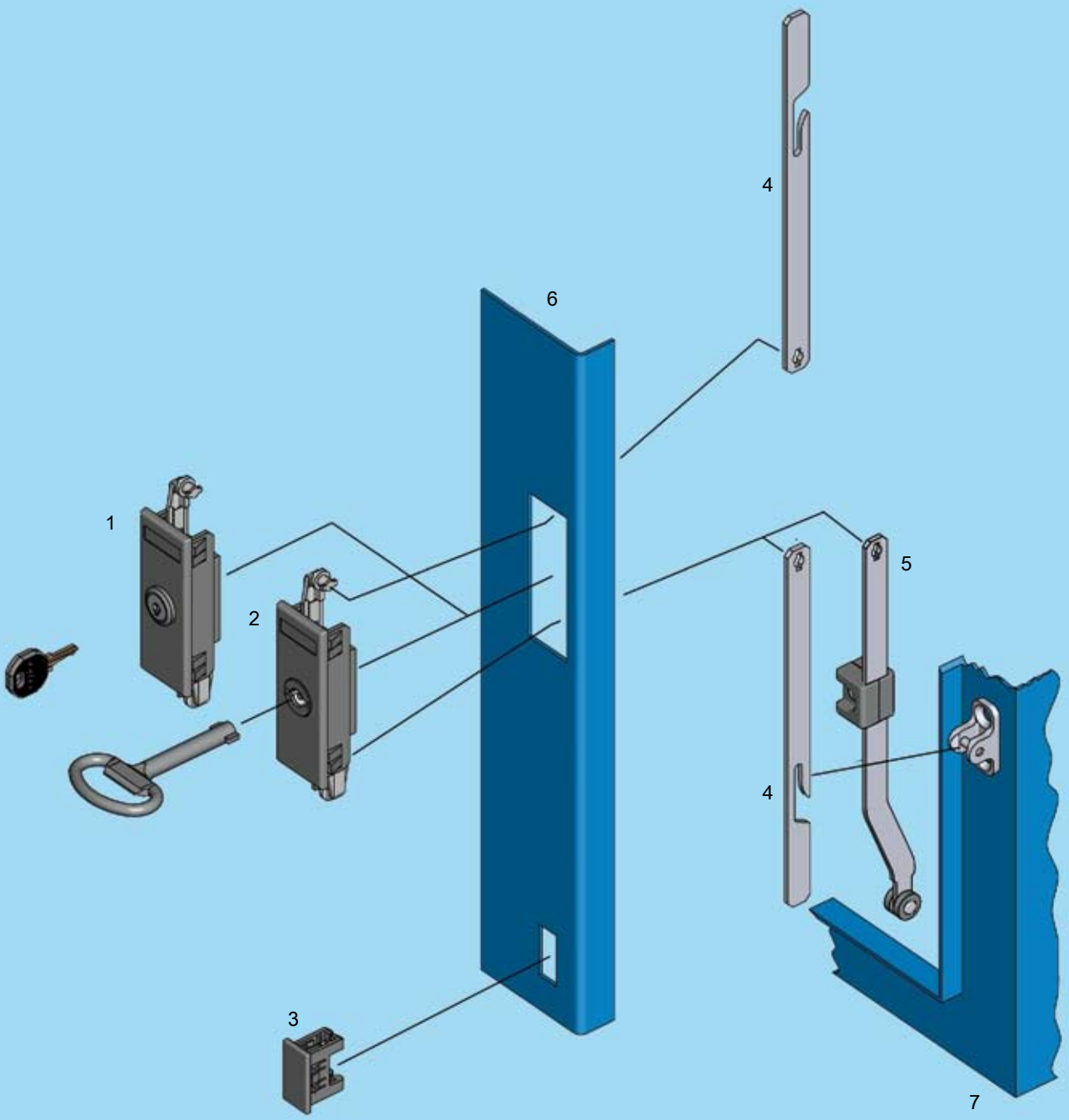
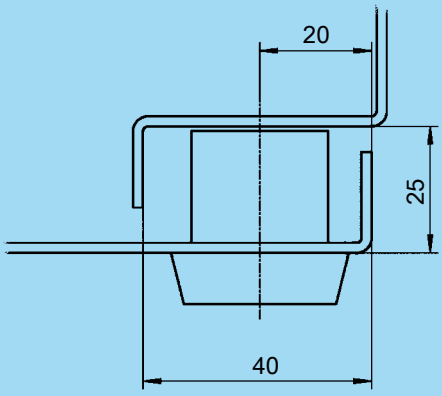
Escutcheon (clip in)
Program 2300





1	Escutcheon with round cylinder	3J-120
2	Escutcheon with insert	3J-120
3	Rod guide	
4	Rod (outside the gasketing)	
5	Rod (inside the gasketing)	
6	Door	
7	Cabinet/frame	

3J-100

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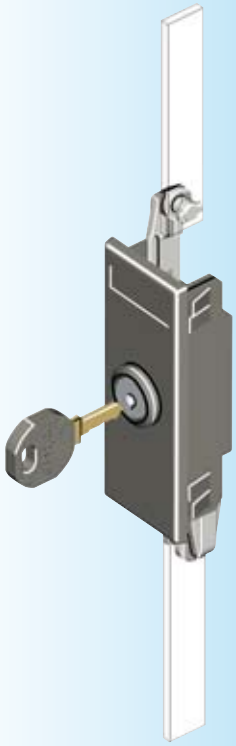
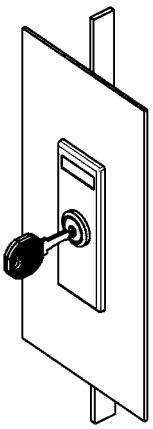
Escutcheon with lock (clip in)

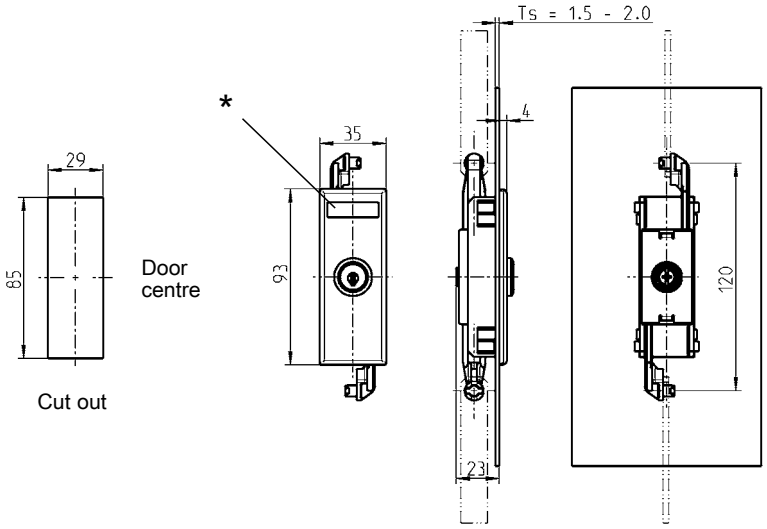
PROGRAM 2300



* Cavity:27 x 8 x 0,5
Multicolour print possible



Turn = Stroke
135° = 25 mm



Escutcheon polyamide GF black, rods zinc die, round cylinder with stainless steel cap, fixing material m.s. zinc plated. Each round cylinder has one silver steel key with polyamide grip GF black.	
keyed different	2300-U15
keyed alike 2233X	2300-U14
Escutcheon polyamide GF black with mask for double bit, rods zinc die, insert zinc die chrome plated, fixing material m.s. zinc plated	
Double bit 3	2300-U2
Double bit 5	2300-U3
Escutcheon polyamide black, rods zinc die, fixing material m.s. zinc plated	
(for following inserts)	2300-U1
Insert zinc die chrome plated	
Square 6	2300-U5
Square 7	2300-U6
Square 8	2300-U7
Triangular 7	2300-U8
Triangular 8	2300-U9
Daimler Benz	2300-U10
Slot 2 x 4	2300-U11
Double bit 3	2300-U12
Double bit 5	2300-U13
Assembling	
	1000-990

Further parts see page
– Key 12B-120
– Spare key 12B-140
– Rod
outside 3ZA-620
inside 3ZB-120
3ZB-220

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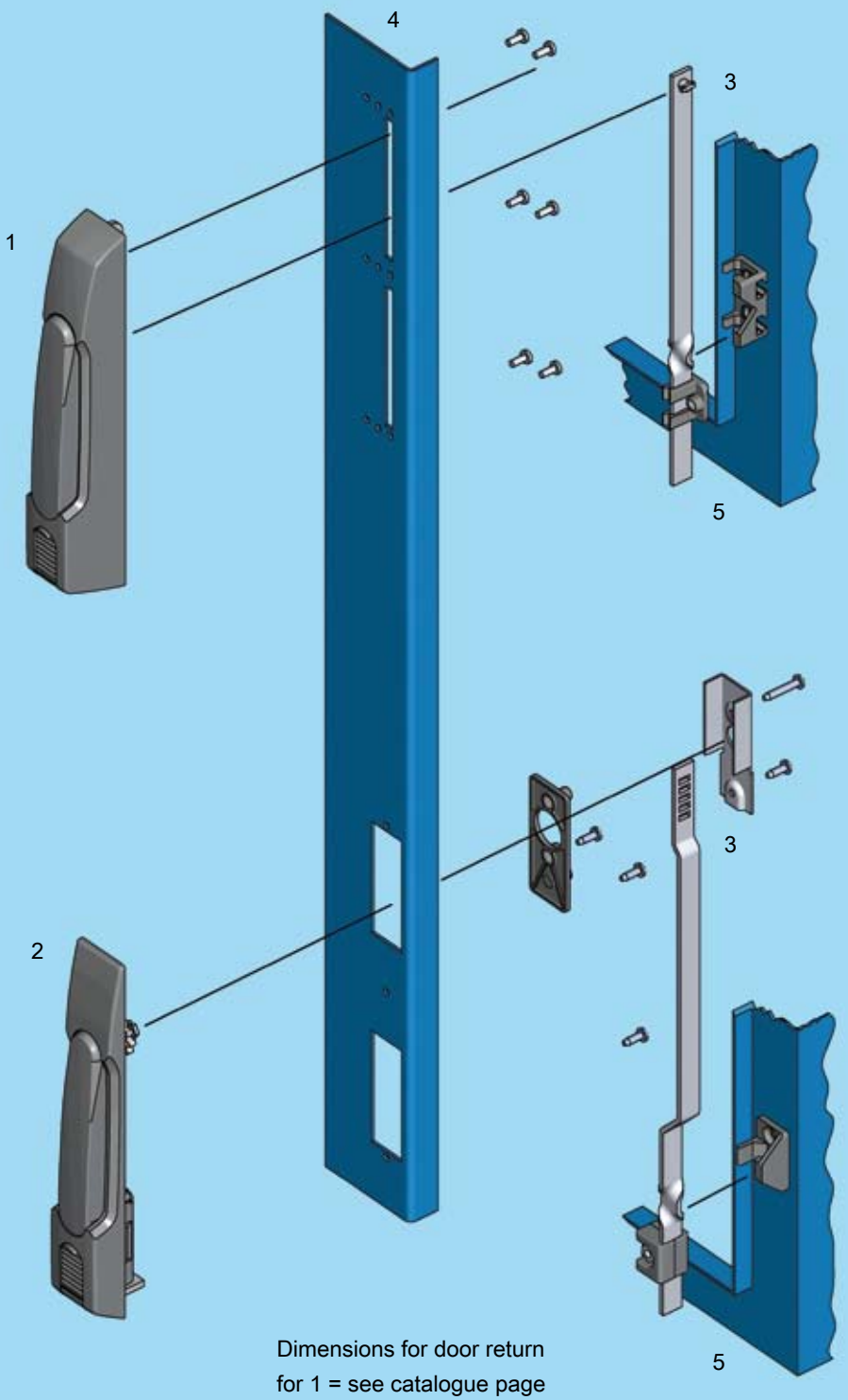
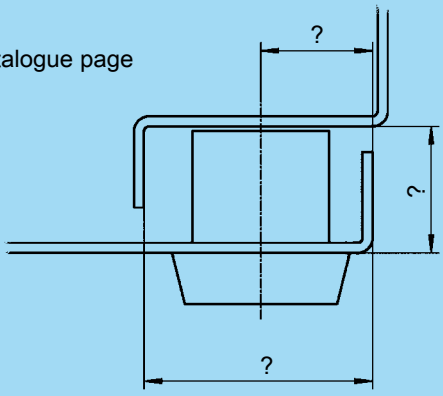
Swinghandle
Program 2400



Dimensions for door return
for 1 = see catalogue page
3ZA-720
for 2 = see catalogue page
3ZA-820



1 Swinghandle 3K-120
2 Swinghandle 3K-220
3 Rod
4 Door
5 Cabinet/frame

3K-100

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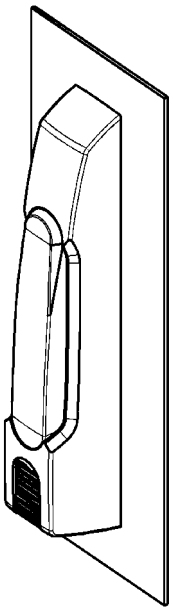
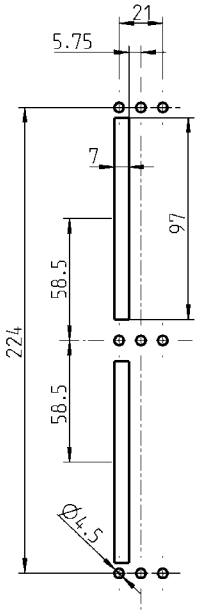
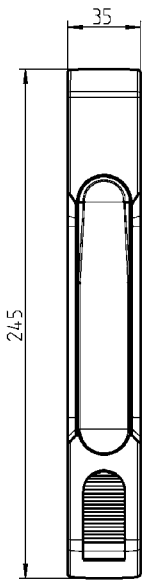
Swinghandle

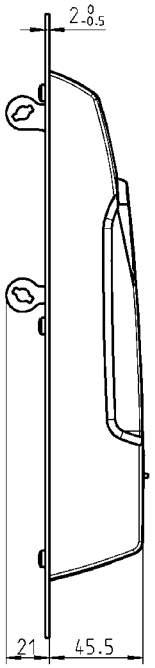
PROGRAM 2400





Cut out
(RH version shown)





Turn = Stroke
90° = 16 mm

Multicolour print possible

Further parts see page

– Locking set	3XA-220
– Rod	
outside	3ZA-720

Swinghandle with pushbutton (2100-U56) polyamide GF black, lock zinc die, fixing material m.s. zinc plated, with seal	
RH	2400-U1
LH	2400-U2

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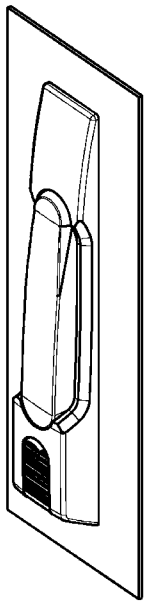
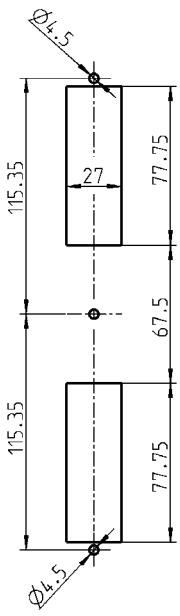
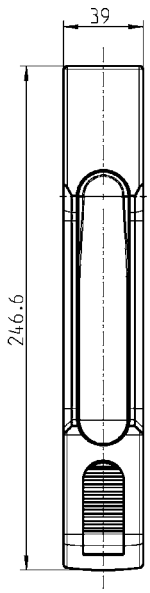
Swinghandle

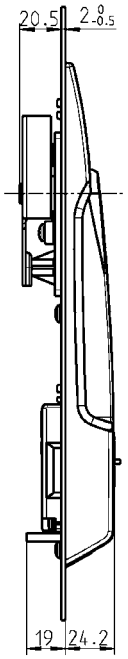
PROGRAM 2400





Cut out





Turn = Stroke
90° = 16 mm

Multicolour print possible

Further parts see page

– Locking set	3XA-120
without push button	3XA-140
with push button	3XA-240
– Locking set ELM	Chapter 11
– Rod	
outside	3ZA-820

Swinghandle with pushbutton (2100-U56) polyamide GF black, lock zinc die, fixing material m.s. zinc plated, with seal	
with push button	2400-U3
without push button	2400-U4

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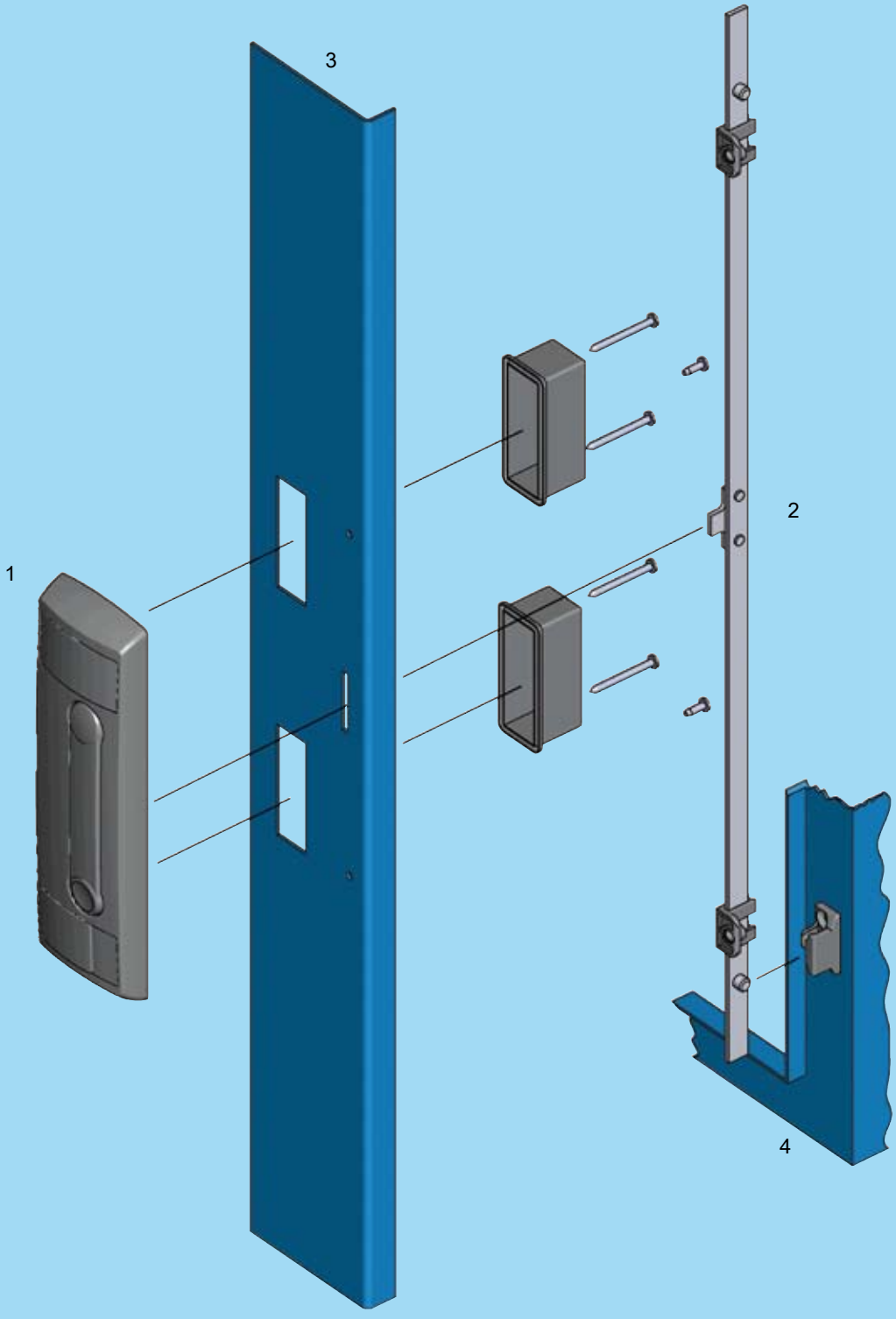
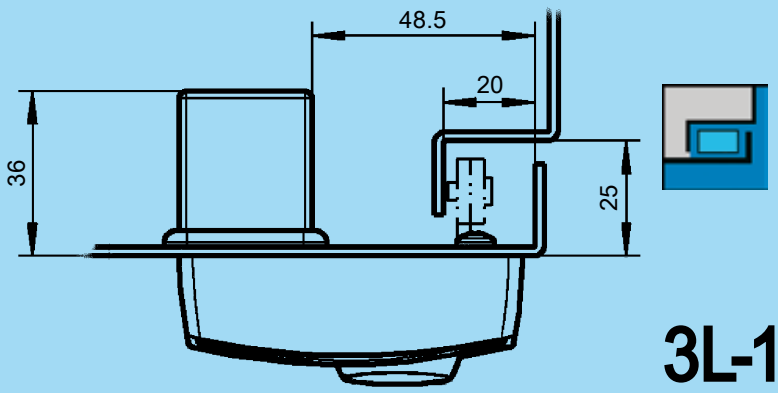
Beschlagteile

Notes:

Swinghandle
Program 2600





1 Swinghandle
2 Rod
3 Door
4 Cabinet/frame

3L-120

3L-100

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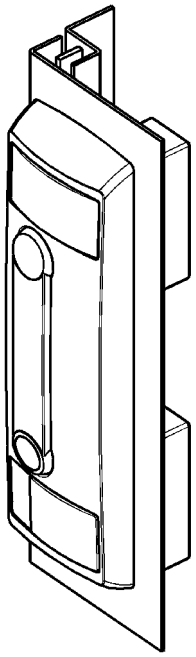
Swinghandle for 20/25 mm bending area

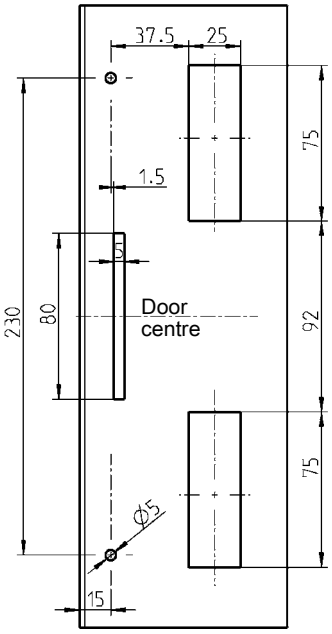
PROGRAM 2600

RL

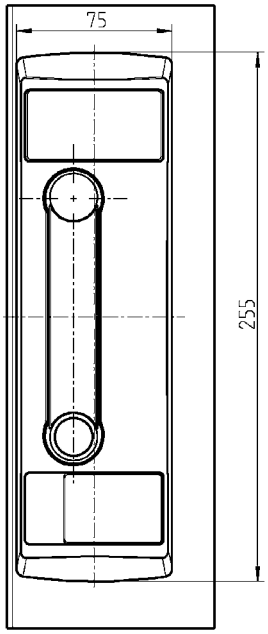
IP 54

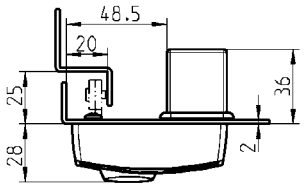


Turn = Stroke
135° = 23,5 mm



Cut out





Bending area

Locking system for small bending area

Dust protection for cylinder via integrated sliding cover

Logo plate exchangeable.

Easy changing of hinge side (LH - RH)
Logo-plate and sliding cover change places, handle will be removed from outside and changed

Application for very small bending areas

Further parts see page

– Locking set	3XA-120 3XA-140
– Rod	3ZA-920

Swinghandle, handle, escutcheon, dust cap, logo plate polyamide black, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal

2600-U1

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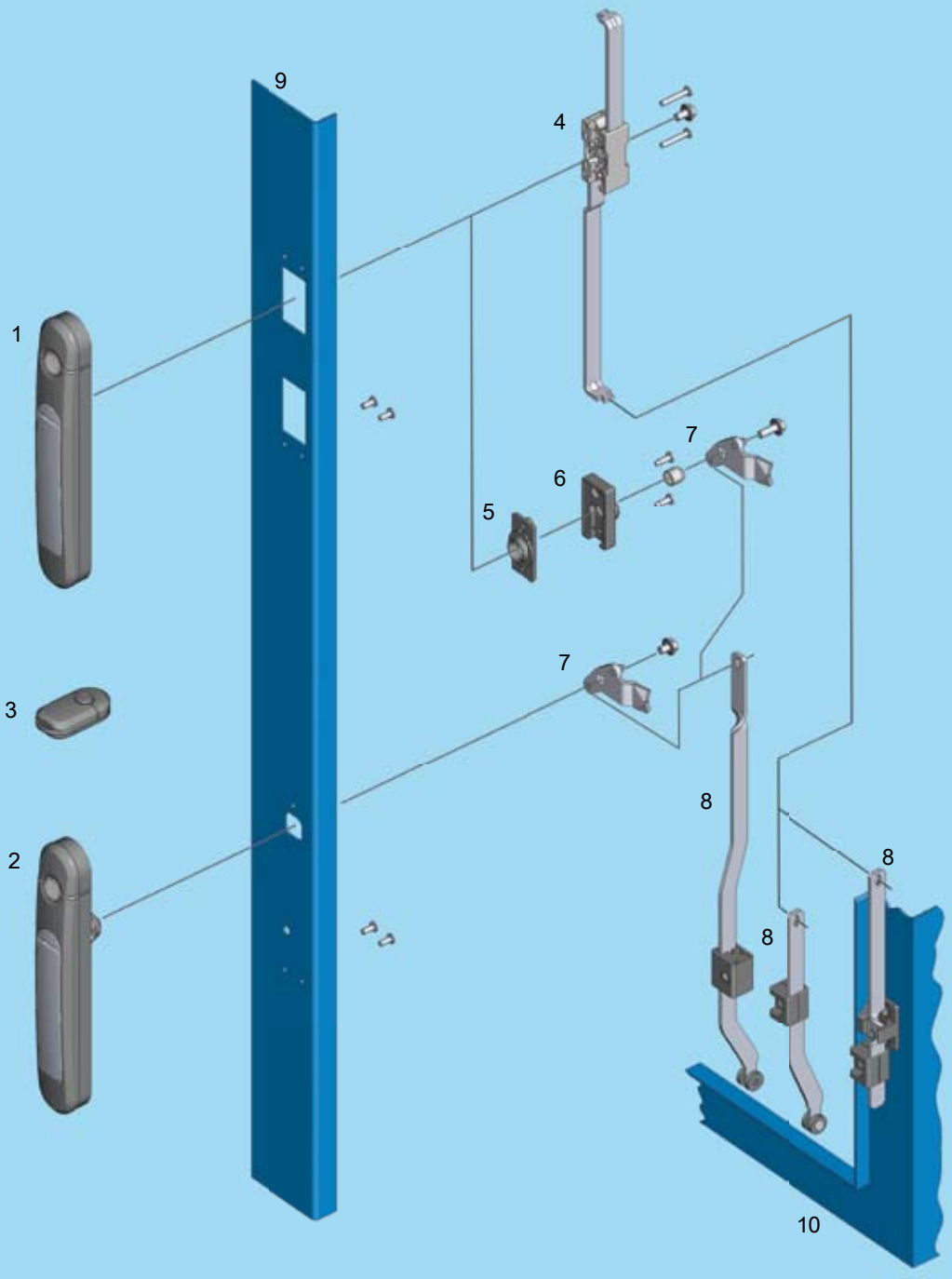
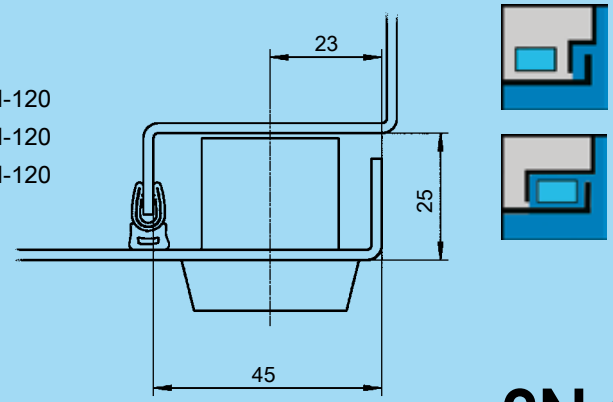
Swinghandle AGENT E
Program 3000



1	Swinghandle for rod control or bearing bush	3N-120
2	Swinghandle with quarter turn for cam	3N-120
3	TAG (micro transmitter)	3N-120
4	Rod control	
5	Adapter plate for bearing bush	
6	Bearing bush	
7	Cam	
8	Rod	
9	Door	
10	Cabinet/frame	

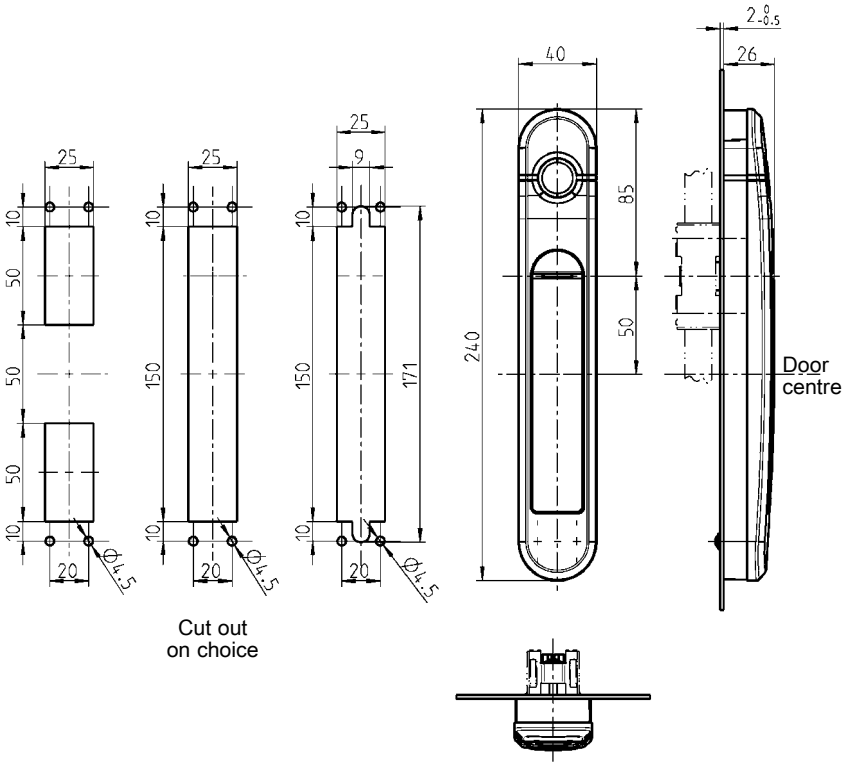


3N-100

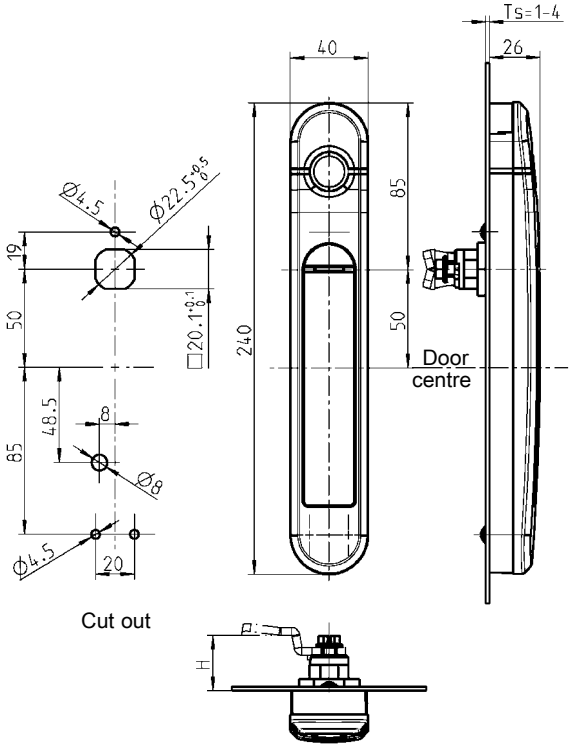
Swinghandle AGENT E with electromechanical release

PROGRAM 3000

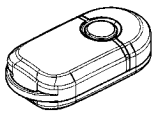
Swinghandle for rod control or bearing bush

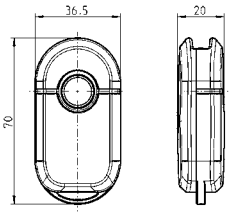


Swinghandle with quarter turn for cam



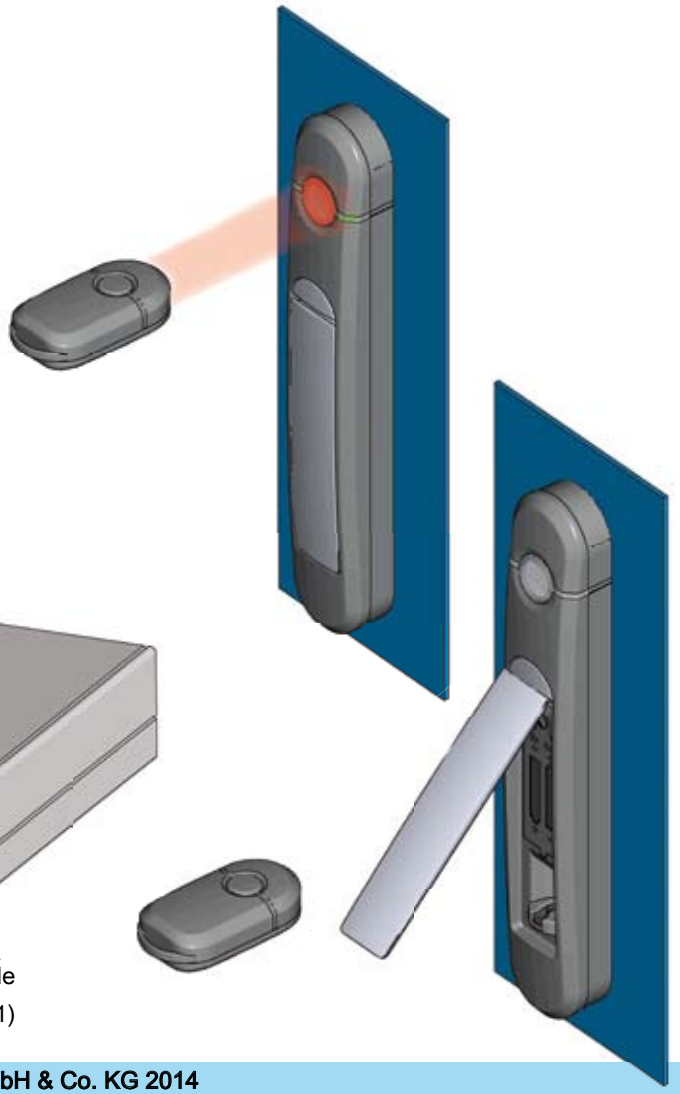
TAG (Micro transmitter)





Access-Point extension module
(170 x 90 x 36)

Access-Point basic module
(190 x 150 x 41)



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Basic
This version is a combination of electronic swing handles type AGENT E and micro transmitters (TAGs). Only authorized User TAGs will open a handle. LED´s in the TAG are switched on by pressing the pushbutton. The light beam must be directed onto the photocell in the handle. The light of the diodes is encoded; each TAG is unique and sends out an individual code. Access rights for User TAGs can be assigned via so called Master TAGs (with red pushbutton).

Professional
An enhanced level of comfort is offered by the version “Professional”. Via software and built in USB interface Master Key Plans and time profiles can be entered and internal event memory can be read out. Master TAGs can be used as “hardware dongles” here. Communication to a handle only works after releasing the USB port via Master TAG.

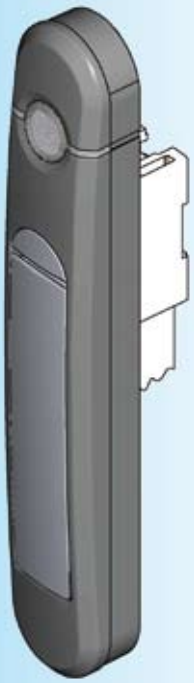
Superior
With the version “Superior” all activities can be managed remotely.
Configuration, readout and opening of swinghandles are via radio transmission.

System overview

System Basic
– easy authorization of TAGs (micro transmitter) directly at the handle
– max. 32 User TAGs and up to 5 Master TAGs
– emergency power supply in case of power loss via USB port
– no software needed

System Professional (additional features to the System Basic)
– configurable via USB with freeware AGENT E Management Suite: create or change Master key plans and time profiles, read out event memory
– logging of the last 2,000 events: who, when, which handle
– Master TAG is used to prevent the USB port against unauthorized use

System Superior (additional features to the System Professional)
– handles can be configured, monitored and opened remotely
– interconnection to the handles is via radio transmission and special access point
– logging of the last 5,000 events: who, when, which handle



Swinghandle polyamide GF black, handle and shaft zinc die white aluminium powder coated, locking latch brass and POM black, light guide transparent poly carbonate, spring, fixing material m.s. zinc plated, gear motor, electronics, 2 batteries, instruction		
Version for countries of European Community, Norway and Switzerland	**for rod control or bearing bush**	**with quarter turn for cams**
System Basic	3000-U92	3000-U93
System Professional	3000-U92-01	3000-U93-01
System Superior	3000-U92-02	3000-U93-02
Version for US and Canada		
System Basic	3000-U94	3000-U95
System Professional	3000-U94-01	3000-U95-01
System Superior	3000-U94-02	3000-U95-02
TAG (Micro transmitter) polyamide black, screw m.s. zinc plated, electronics, battery		
User TAG with black pushbutton		3000-U90
Master TAG with red pushbutton		3000-U91
Adapter-set for bearing bush, adapter plate polyamid black, adapter steel precision zinc plated, fixing material m.s. zinc plated		
for Ts 1.0 - 3.0		3000-U104-01
USB adapter cable		
USB standard-A to USB micro-B		3000-U102
Access-Point, version for all EU countries incl. Switzerland and Norway		
Access-Point basic module		3000-U99-01
Access-Point extension module		3000-U98-01
Access-Point, version for US and Canada		
Access-Point basic module		3000-U99-02
Access-Point extension module		3000-U98-02

Note:
The System Superior must not be operated outside the EU, Switzerland and Norway as well as US and Canada.

Further parts see page
– Rod control 3YA-110, 3YA-120, 3YA-140
– Bearing bush 3YB-120
– Cam with catch (GH=18) 1C-120, 1C-160

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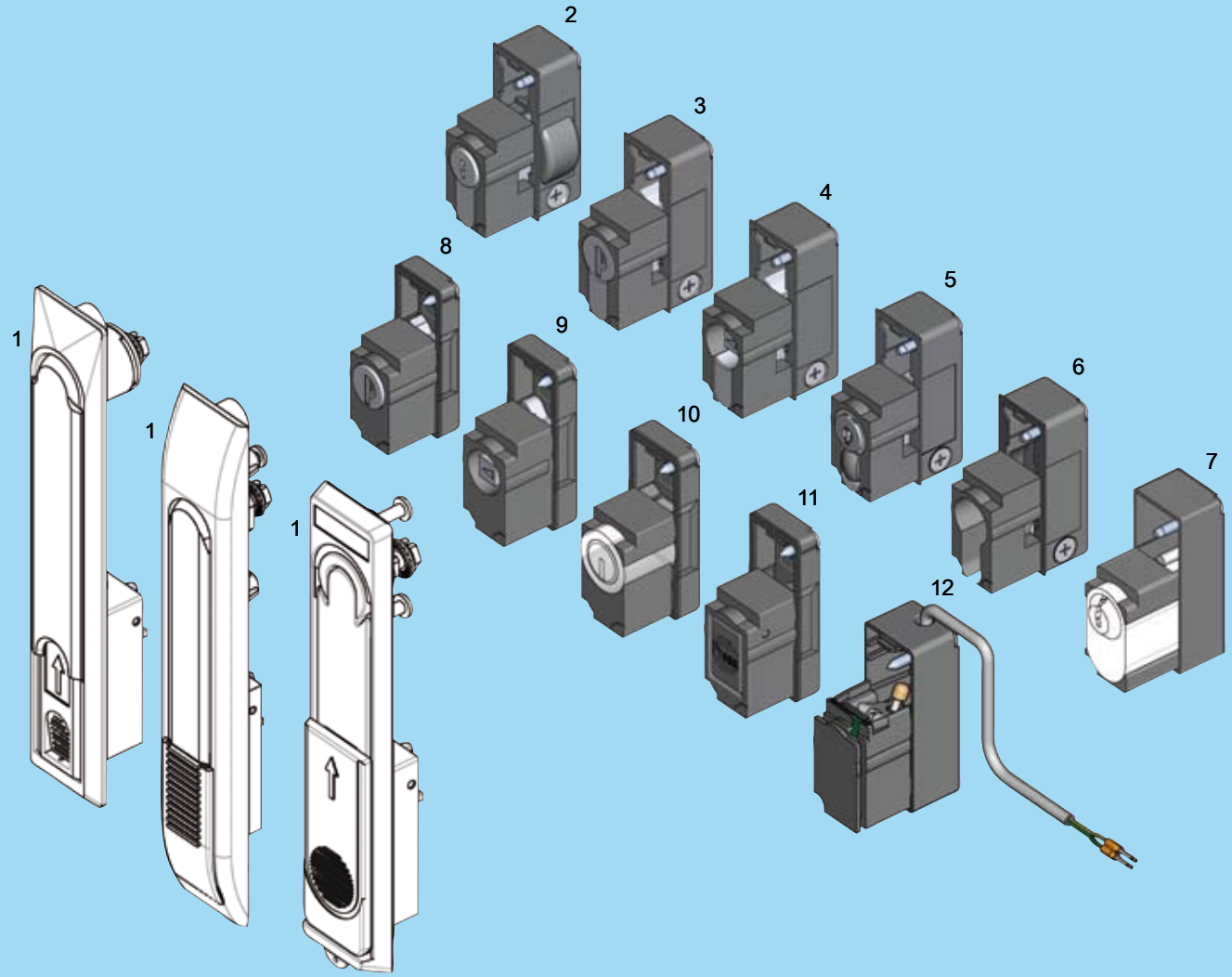
Notes:

Locking sets
Program 1107, 1150, 1180, 1190 ,2100, 2400, 2600



1 Swinghandle program 1107, 1150, 1180, 1190, 2100, 2400, 2600
2 Locking set with profile half cylinder according to DIN 18252
3 Locking set with profile half cylinder with round cylinder
4 Locking set with profile half cylinder with insert
5 Locking set with profile half cylinder with round cylinder and push button
6 Locking set for profile half cylinder according to DIN 18252 is provided by the customer
7 Locking set for ASSA-cylinder is provided by the customer
8 Locking set with round cylinder
9 Locking set with insert
10 Locking set for KABA-cylinder is provided by the customer
11 Locking set with push button
12 Locking set ELM see chapter 11

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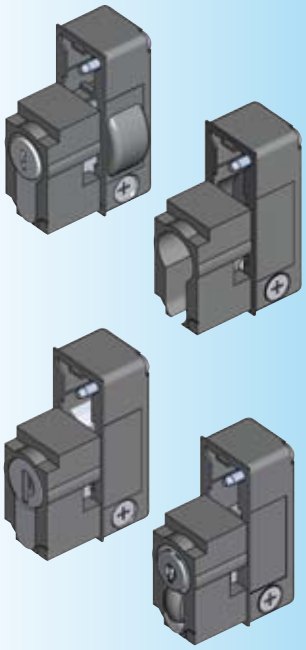
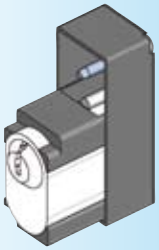
Locking set

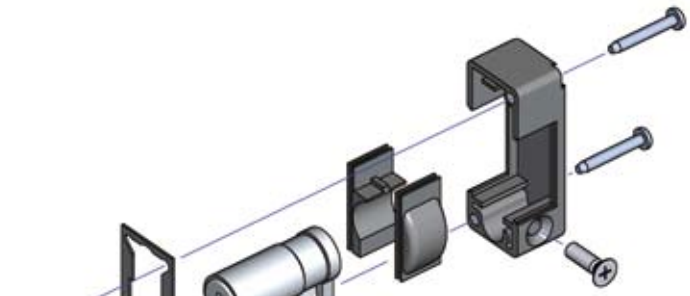
PROGRAM 1107, 1150, 1180, 1190, 2100, 2400, 2600

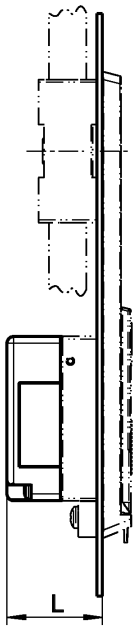


1109-U52 and 1109-U53.
In the unlocked position the handle operates by pressing the push button



2100-U6
for ASSA-cylinder. Attention! ASSA-cylinder and 2 fixing screws M5x8 are not included





PROGRAM	Dimension L
1150	42
1180	32
1190	29,5
2100	36
2400	23
2600	36

Locking set polyamide black with or without profile half cylinder or ASSA-cylinder, fixing material m.s. zinc pl., with seal			
Locking set profile half cylinder according to DIN 18252, brass nickel plated with 3 keys			
keyed different	1089-U5	keyed alike 110319 N	1089-U6
for 40 mm Profile half cylinder (A=30 mm) to be supplied by the customer			2100-U11
Locking set profile half cylinder with round cylinder zinc die with stainless steel cap and dust cap. Each cylinder has one silver steel key with polyamide GF grip black.			
keyed different	1109-U50	keyed EK333	1109-U51
Locking set profile half cylinder with push button, round cylinder zinc die chrome plated. Each cylinder has one silver steel key with polyamide GF grip black.			
keyed different	1109-U52	keyed alike 2233X	1109-U53
Locking set profile half cylinder with insert zinc die chrome plated			
Square 6	1109-U18	Double bit 3	1109-U34
Square 7	1109-U19	Double bit 5	1109-U35
Square 8	1109-U20	Hexagon female 10	1109-U27
Square 8 slotted	1109-U21	Square female 6	1109-U28
Triangular 6,5 CNOMO	1109-U22	Square female 8	1109-U29
Triangular 7	1109-U23	Daimler Benz	1109-U30
Triangular 8	1109-U24	Slot 1,2 x 3	1109-U31
Triangular 9	1109-U25	Slot 2 x 4	1109-U32
Triangular 10	1109-U26	Crown type	1109-U33
		Eastern Europe Ø 13	1109-U58
Locking set for ASSA-cylinder is provided by the customer (without seal)			
			2100-U6

Further parts see page
– Key 12B-120

Program 1107
– Swinghandle 3A-420

Program 1150
– Swinghandle 1151 3C-420
3C-440

Program 1180
– Swinghandle 3E-120
up to 3E-520

Program 1190
– Lifthandle 3F-120

Program 2100
– Swinghandle 3H-320
up to 3H-420

Program 2400
– Swinghandle 3K-220

Program 2600
– Swinghandle 3L-120

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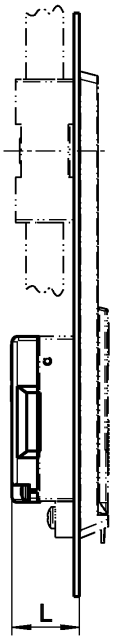
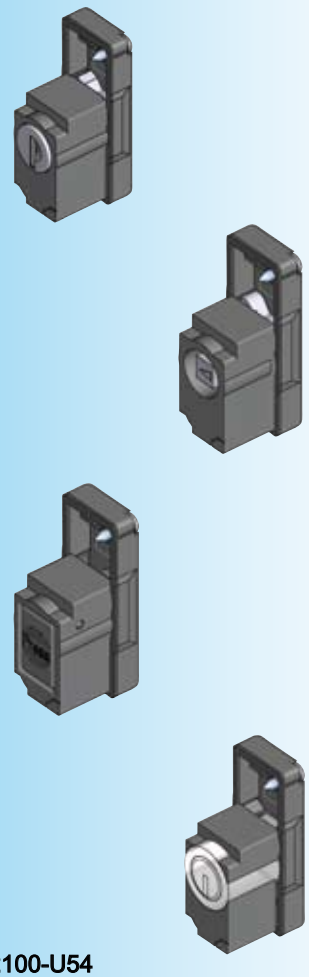
Locking set

PROGRAM 1107, 1150, 1180, 2100, 2400, 2600

All round cylinders and inserts are spring loaded



PROGRAM . . .	Dimension L
1150	31,5
1180	21,5
2100	25
2400	20
2600	36



2100-U54
Prepared for KABA cylinder.
Attention! KABA-cylinder and 2 counter sunk screws M2,3x8 are not included!

Locking set polyamide black with round cylinder or insert, fixing material m.s. zinc plated, with seal			
Locking set round cylinder zinc die with stainless steel cap and dust cap. Each cylinder has one silver steel key with polyamide GF grip black.			
keyed EK333	2100-U48	keyed different	2100-U49
Assembling set for KABA cylinder type 1036 (cylinder from customer)			2100-U54
Locking set insert zinc die chrome plated			
Square 6	2100-U32	Hexagon female 10	2100-U41
Square 7	2100-U33	Square female 6	2100-U42
Square 8	2100-U34	Square female 8	2100-U43
Square 8 slotted	2100-U35	Daimler Benz	2100-U44
Triangular 6,5 CNOMO	2100-U36	FIAT version	2100-U53
Triangular 7	2100-U37	Slot 1,2 x 3	2100-U45
Triangular 8	2100-U38	Slot 2 x 4	2100-U46
Triangular 9	2100-U39	Crown type	2100-U47
Triangular 10	2100-U40	Eastern Europe Ø 13	2100-U58
Double bit 3	2100-U50	Push button	2100-U57
Double bit 5	2100-U51		

Further parts see page
– Key 12B-120

Program 1107
– Swinghandle 3A-420

Program 1150
– Swinghandle 1151 3C-420
3C-440

Program 1180
– Swinghandle 1185 3E-520

Program 2100
– Swinghandle 3H-320
up to 3H-420

Program 2400
– Swinghandle 3K-220

Program 2600
– Swinghandle 3L-120

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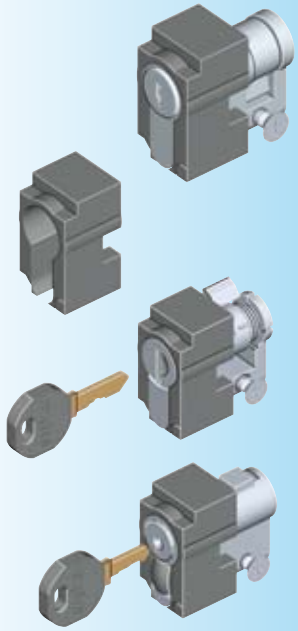
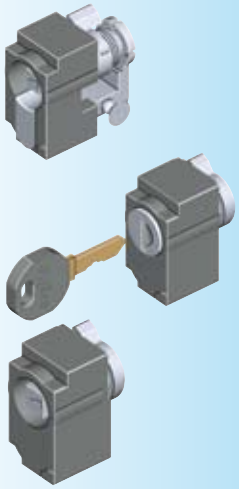
Locking set

PROGRAM 2400

All round cylinders and inserts are spring loaded



1109-B25 and 1109-B26.
In the unlocked position the handle operates by pressing the push button



Locking set polyamide GF black, fixing material m.s. zinc plated			
Profile half cylinder acc. to DIN 18 252 brass nickel plated with 3 keys		**Round cylinder zinc die with stainless steel cap and dust cap. Each cylinder has one silver steel key with polyamide GF grip black.**	
keyed different	2100-B9	keyed EK 333	2100-B30
keyed 110319	2100-B11	keyed different	2100-B31
(Master key system on request)		**Inserts: Chrome plated zinc alloy**	
Profile half cylinder (from the customer)		Square 6	2100-B14
for 40 mm profile half cylinder (A=30 mm) to be supplied by the customer	2100-06-AA	Square 7	2100-B15
Profile half cylinder with round cylinder zinc die with stainless steel cap and dust cap. Each cylinder has one silver steel key with polyamide GF grip black.		Square 8	2100-B16
		Square 8 slotted	2100-B17
keyed different	1109-B24	Triangular 6,5 CNOMO	2100-B18
keyed EK 333	1109-B16	Triangular 7	2100-B19
Profile half cylinder with push button, round cylinder zinc die chrome plated. Each cylinder has one silver steel key with polyamide GF grip black.		Triangular 8	2100-B20
		Triangular 9	2100-B21
keyed different	1109-B25	Triangular 10	2100-B22
keyed alike 2233X	1109-B26	Double bit 3	2100-B32
Inserts zinc die chrome plated		Double bit 5	2100-B33
Square 6	1109-B17	Hexagon female 10	2100-B23
Square 7	1109-B5	Square female 6	2100-B24
Square 8	1109-B6	Square female 8	2100-B25
Square 8 slotted	1109-B18	Daimler Benz	2100-B26
Triangular 6,5 CNOMO	1109-B7	FIAT version	2100-B34
Triangular 7	1109-B8	Slot 1,2 x 3	2100-B27
Triangular 8	1109-B9	Slot 2 x 4	2100-B28
Triangular 9	1109-B19	Crown type	2100-B29
Triangular 10	1109-B20	Eastern Europe Ø 13	2100-B36
Double bit 3	1109-B14	Push button	2100-U56
Double bit 5	1109-B15		
Hexagon female 10	1109-B10		
Square female 6	1109-B21		
Square female 8	1109-B22		
Daimler Benz	1109-B11		
Slot 1,2 x 3	1109-B12		
Slot 2 x 4	1109-B4		
Crown type	1109-B13		
Eastern Europe Ø 13	1109-B23		

Further parts see page
– Key 12B-120
Program 2400
– Swinghandle 3K-120

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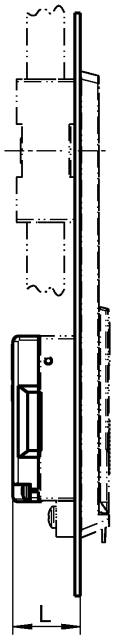
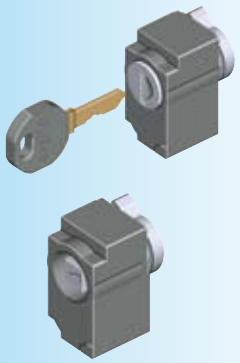
Locking set

PROGRAM 1180, 1190, 2400

All round cylinders and inserts are spring loaded



PROGRAM	Dimension L
1180	21,5
1190	29,5
2400	20



Locking set polyamide GF black, fixing material m.s. zinc plated	
Round cylinder zinc die with stainless steel cap and dust cap. Each cylinder has one silver steel key with polyamide GF grip black.	
keyed EK 333	2100-B30
keyed different	2100-B31
Inserts: Zinc die chrome plated	
Square 6	2100-B14
Square 7	2100-B15
Square 8	2100-B16
Square 8 slotted	2100-B17
Triangular 6,5 CNOMO	2100-B18
Triangular 7	2100-B19
Triangular 8	2100-B20
Triangular 9	2100-B21
Triangular 10	2100-B22
Double bit 3	2100-B32
Double bit 5	2100-B33
Hexagon female 10	2100-B23
Square female 6	2100-B24
Square female 8	2100-B25
Daimler Benz	2100-B26
FIAT version	2100-B34
Slot 1,2 x 3	2100-B27
Slot 2 x 4	2100-B28
Crown type	2100-B29
Eastern Europe Ø 13	2100-B36
Push button	2100-U56

Further parts see page
– Key 12B-120
Program 1180
– Swinghandle 1180 up to 3E-120 3E-320
Program 1190
– Swinghandle 3F-120
Program 2400
– Swinghandle 3K-220

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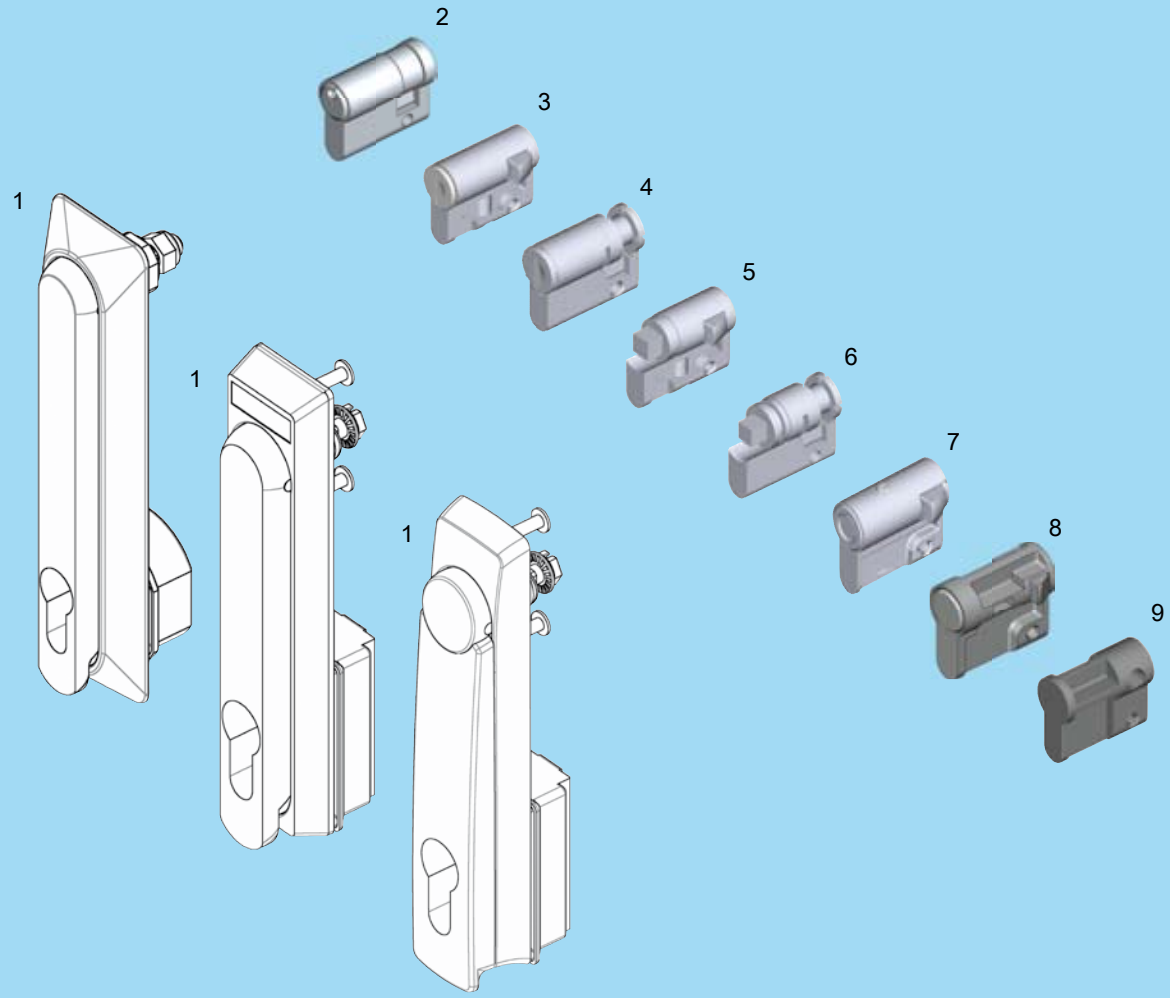
Notes:

Locking set
profile half cylinder

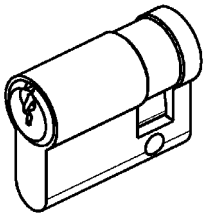


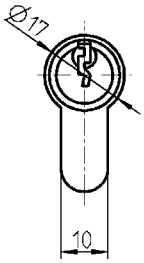
1 Swing handle Program 1107, 1125, 1150, 1225, 1190, 1317, 1325
2 Profile half cylinder DIN 18252
3 Profile half cylinder with spring loaded round cylinder
4 Profile half cylinder with round cylinder
5 Profile half cylinder with spring loaded insert
6 Profile half cylinder with insert
7 Profile half cylinder with spring loaded radial pin-push cylinder
8 Profile half cylinder with push button
9 Blind plug

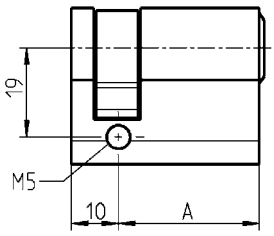
Profile half cylinder

PROGRAM 1107, 1125, 1150, 1225, 1317, 1325

Profile half cylinder according to DIN 18252 (EN 1303)

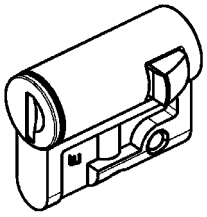


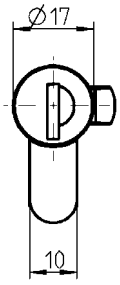


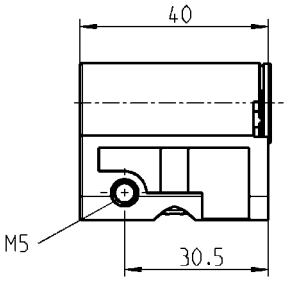


Profile half cylinder according to DIN 18 252 brass nickel plated with 3 keys		
keyed different	A = 30	1089-U1
keyed 110319 N	A = 30	1089-U2
(Master key system on request)		

EMKA profile half cylinder







EMKA profile half cylinder with round cylinder zinc die with stainless steel cap and dust cap, one key made of nickel silver per round cylinder with grip polyamide GF black.	
keyed different	1109-U1-N
keyed EK 333	1109-U2-N
EMKA profile half cylinder with insert zinc die chrome plated, locking catch of slam type.	
Square 6	1109-U4-N
Square 7	1109-U5-N
Square 8	1109-U6-N
Square 8 slotted	1109-U7-N
Triangular 6,5 CNOMO	1109-U17-N
Triangular 7	1109-U8-N
Triangular 8	1109-U9-N
Double bit 3	1109-U10-N
Double bit 5	1109-U11-N
Hexagon female 8	1109-U12-N
Hexagon female 10	1109-U13-N
Square female 8	1109-U55-N
Slot 2 x 4	1109-U14-N
Daimler Benz	1109-U15-N
Eastern Europe Ø 13	1109-U54-N

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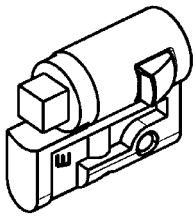
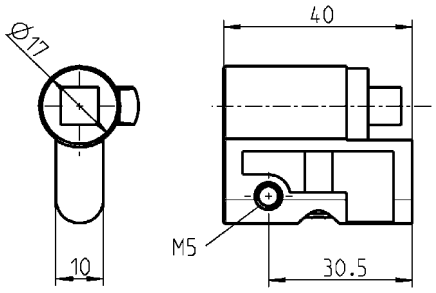
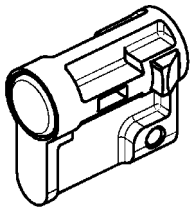
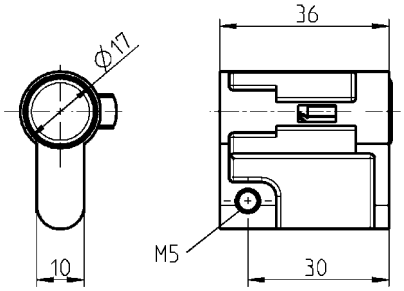
EMKA profile half cylinder with insert



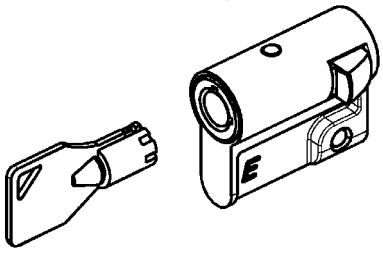


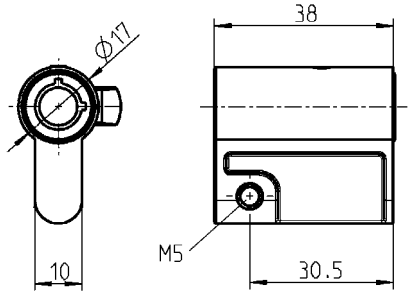
Push button-profile half cylinder



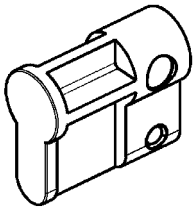


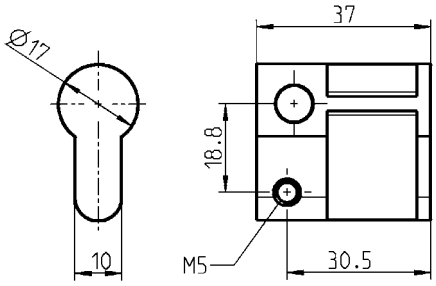
Radial pin-push half cylinder

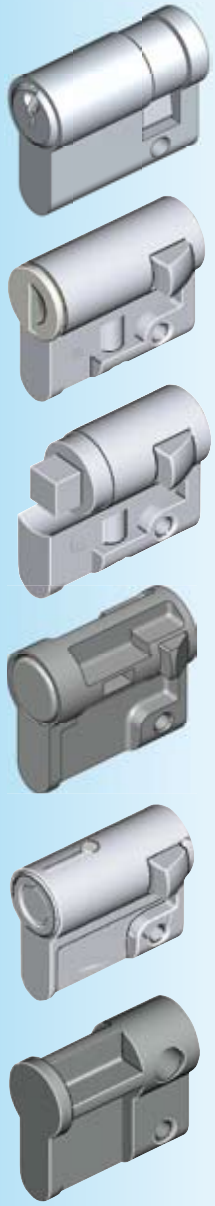




Blind plug







Push button profile half cylinder polyamide GF black	
	1109-U59
Radial pin-push cylinder zinc die Chrome plated, spring loaded	
keyed 20001	1109-U60
keyed different	1109-U61
Spare key 20001	1108-U52
Spare key keyed different	1108-U52-V
Blind plug polyamide black, spring loaded ball m.s. blacked	
with spring loaded ball	1109-U3
without spring loaded ball	1109-09-AA

Further parts see page
– Key 12B-120
– Spare key 12B-140
– Locking set 3XC-120

Program 1107
– Swinghandle 3A-120 up to 3A-320

Program 1125
– Swinghandle 3B-220, 3B-420

Program 1150
– Swinghandle 1153 3C-320
Swinghandle 1154 3C-220, 3C-260

Program 1190
– Swing handle 3F-330

Program 1225
– Swinghandle 3G-220

Program 1317
– Swinghandle 3AB-120, 3AB-140

Program 1325
– Swinghandle 3BA-220

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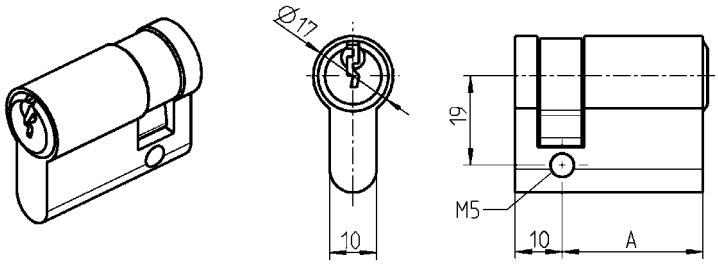
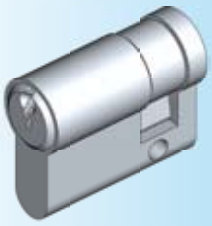
Profile half cylinder

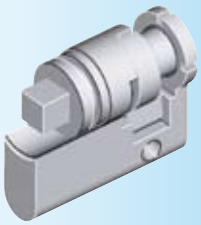
PROGRAM 1107, 1125, 1225, 1317

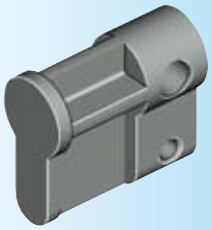
Profile half cylinder according to DIN 18 252 (EN 1303)



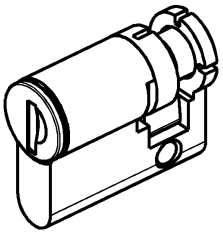
Profile half cylinder acc. to DIN 18 252 brass nickel plated with 3 keys; Catch can be set at every 45°		
keyed different	A = 30	1089-U1
keyed 110319 N	A = 30	1089-U2
(Master key system on request)		



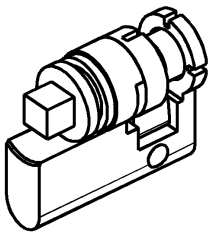




EMKA profile cylinder with round cylinder 360° turn

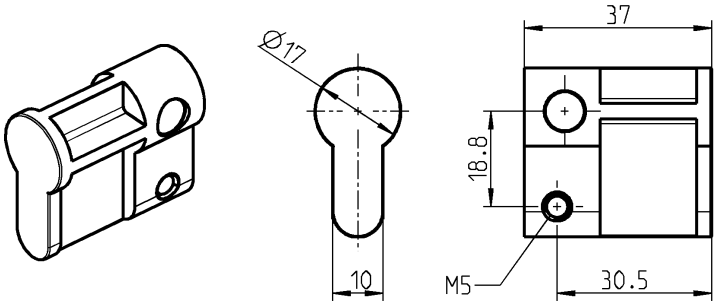


EMKA profile half cylinder with insert 360° turn



EMKA profile half cylinder with round cylinder zinc die with stainless steel cap and shutter with one key silver steel with grip polyamide GF black, turn 360°.	
keyed different or keyed EK 333	on request
EMKA profile half cylinder with insert zinc die chrome pl., rotates 360°.	
Inserts, e.g. square, triangular, double bit, slotted and more	on request

Blind plug



Blind plug polyamide GF black	
	1109-09-AA

Note:
For the swinghandles 1107-U22 (3A-360) and 1225-U60 (3G-320) only the profile half cylinders 1089-U1 or 1089-U2 can be used

Further parts see page
– Key 12B-120
– Spare key 12B-140
Program 1107
– Swinghandle 3A-360
Program 1125
– Swinghandle 3B-320
Program 1225
– Swinghandle 3G-320
Program 1317
– Swinghandle 3AB-160

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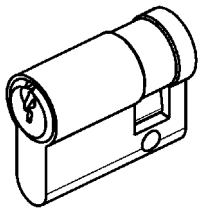
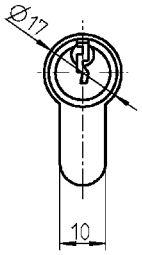
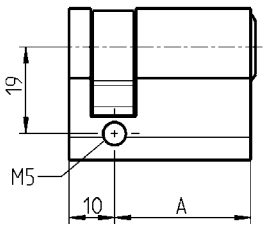
Profile half cylinder

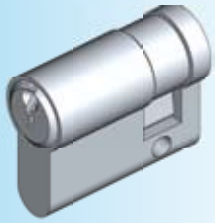
PROGRAM 1150, 1190

Profile cylinder according to DIN 18252 (EN 1303)



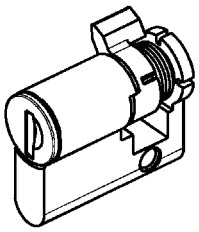


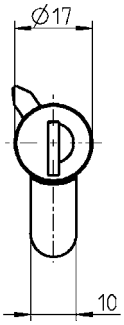


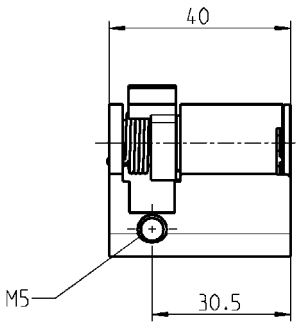


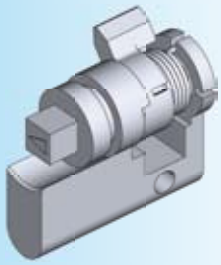
Profile half cylinder according to DIN 18 252 brass nickel plated with 3 keys Cam can be turned every 45°		
keyed different	A = 30	1089-U1
keyed 110319 N	A = 30	1089-U2
(Available as master key system)		

EMKA profile half cylinder









EMKA profile half cylinder with round cylinder zinc die with stainless steel cap and dust cap, key only removable in locked position, spring loaded return of catch into locked position. Each round cylinder has one silver steel key with polyamide grip GF black.	
keyed different	1109-U50-01
keyed EK 333	1109-U51-01
EMKA profile half cylinder with insert zinc die chrome plated, spring loaded return of catch into locked position.	
Square 6	1109-U18-01
Square 7	1109-U19-01
Square 8	1109-U20-01
Square 8 slotted	1109-U21-01
Triangular 6,5 CNOMO	1109-U22-01
Triangular 7	1109-U23-01
Triangular 8	1109-U24-01
Triangular 9	1109-U25-01
Triangular 10	1109-U26-01
Double bit 3	1109-U34-01
Double bit 5	1109-U35-01
Hexagon female 10	1109-U27-01
Square female 6	1109-U28-01
Square female 8	1109-U29-01
Daimler Benz	1109-U30-01
Slot 1,2 x 3	1109-U31-01
Slot 2 x 4	1109-U32-01
Crown type	1109-U33-01
Eastern Europe Ø 13	1109-U58-01

Further parts see page
– Key 12B-120
– Spare key 12B-140
Program 1150
– Swinghandle 1154 3C-280
Program 1190
– Swinghandle 3F-430

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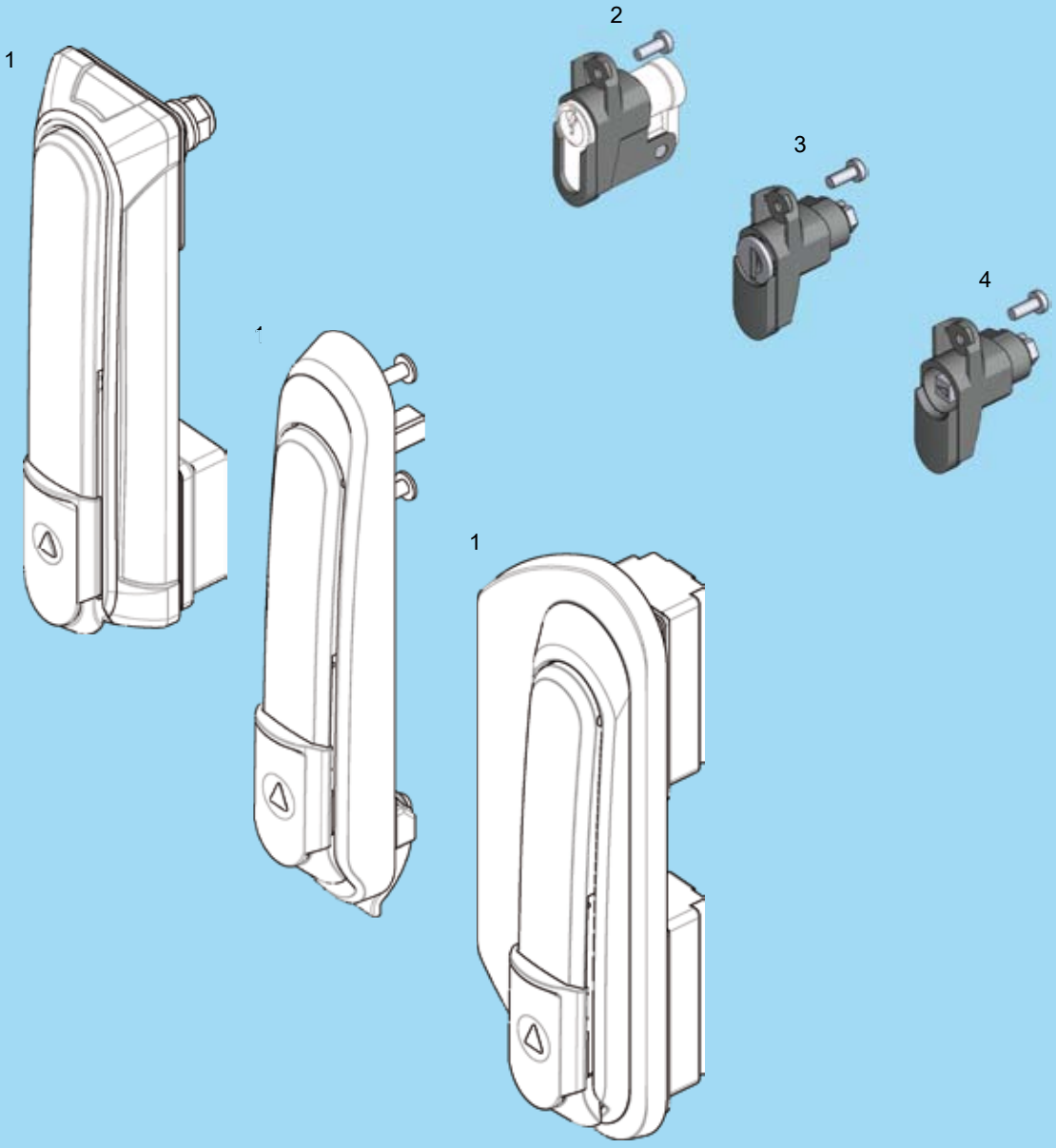
Notes:

Locking sets



1 Swing handle Program 1317, 1325
2 Locking set for profile half cylinder DIN 18252
3 Locking set with round cylinder
4 Locking set with insert

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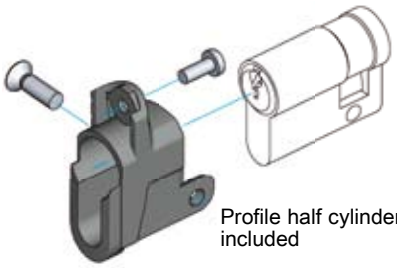
New locking set series

PROGRAM 1317, 1325



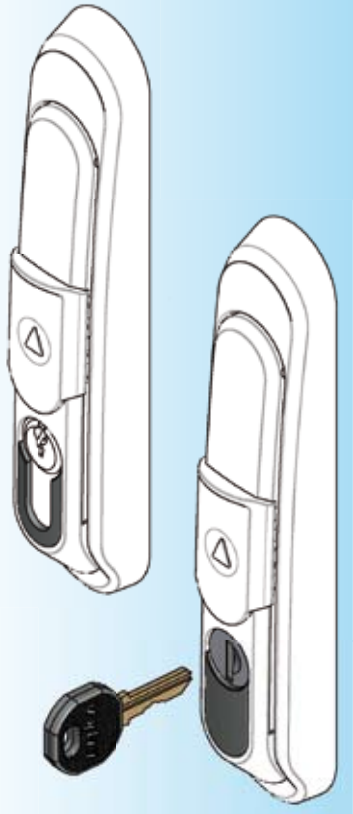
Profile half cylinder not included

(1) (In case of profile half cylinder the catch has to be set at 90°)

Locking set polyamide GF VO black; screws m.s. zinc plated	
for 40 mm profile half cylinder (A = 30 mm) (1)	1109-U101

Locking set polyamide GF VO black; round cylinder GD-Zn with stainless steel cap and shutter; screws m.s. zinc plated. Each round cylinder has one nickel silver key with polyamide grip GF black.	
keyed EK 333	1109-U103
keyed different	1109-U104
Assembly of swinghandle and locking set on request	
	1109-990

Locking set polyamide GF V0 black; insert zinc die Chrome plated, screws m.s. zinc plated	
Square 6	1109-U105
Square 7	1109-U106
Square 8	1109-U107
Square 8 slotted	1109-U108
Triangular 6.5 CNOMO	1109-U109
Triangular 7	1109-U110
Triangular 8	1109-U111
Triangular 9	1109-U112
Triangular 10	1109-U113
Double bit 3	1109-U114
Double bit 5	1109-U115
Hexagon female 10	1109-U116
Square female 6	1109-U117
Square female 8	1109-U118
Daimler Benz	1109-U119
Slot 1.2 x 3	1109-U120
Slot 2 x 4	1109-U121
Crown type	1109-U122
Eastern Europe Ø 13 half-round	1109-U123
Assembly of swinghandle and locking set on request	
	1109-990



Further parts see page

– Profile half cylinder (Blind plug without spring loaded ball not usable) 3XB-120

– Key 12B-120
– Spare key 12B-140

Program 1317
– Swinghandle 3AB-140

Program 1325
– Swinghandle 3BA-220
3BA-320

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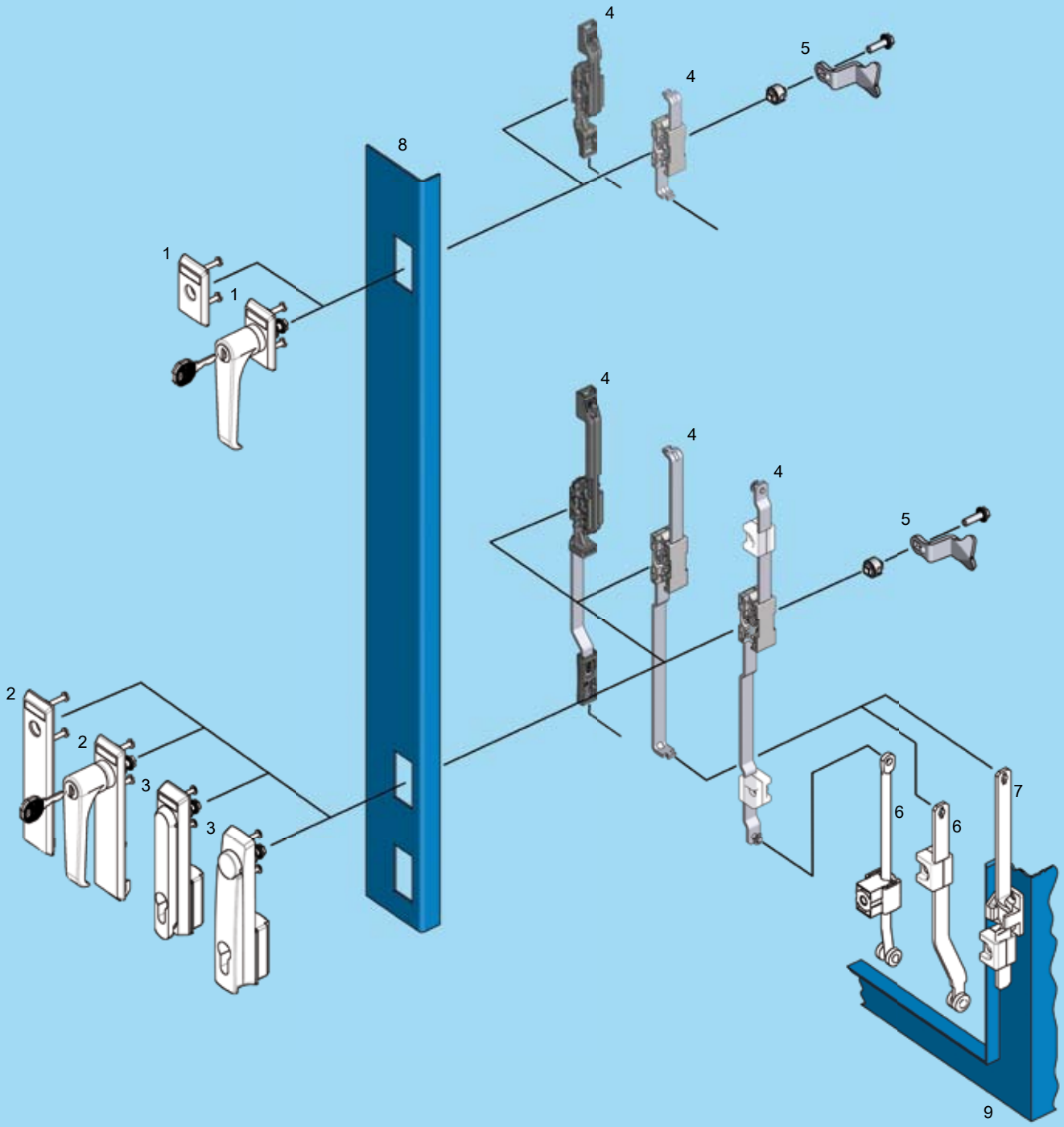
Rod control
Program 1125, 1150, 1225, 1325, 2100, 3000



1	Escutcheon short	**Program 1125, 1225**
2	Escutcheon long	**Program 1125, 1225, 1325, 2100**
3	Swinghandle	**Program 1125, 1150, 1225, 1325, 2100, 3000**
4	Rod control	3YA-110 to 3YA-540
5	Cam	3YA-820, 3YA-840
6	Rod (inside the gasketing)	
7	Rod (outside the gasketing)	
8	Door	
9	Cabinet/frame	

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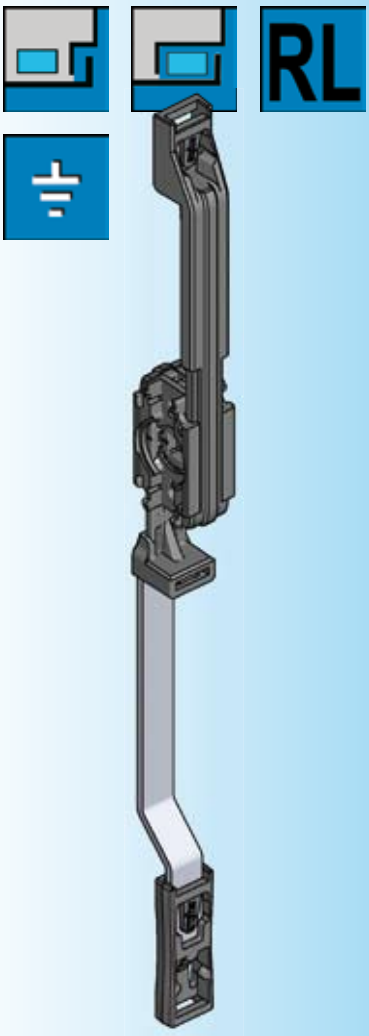
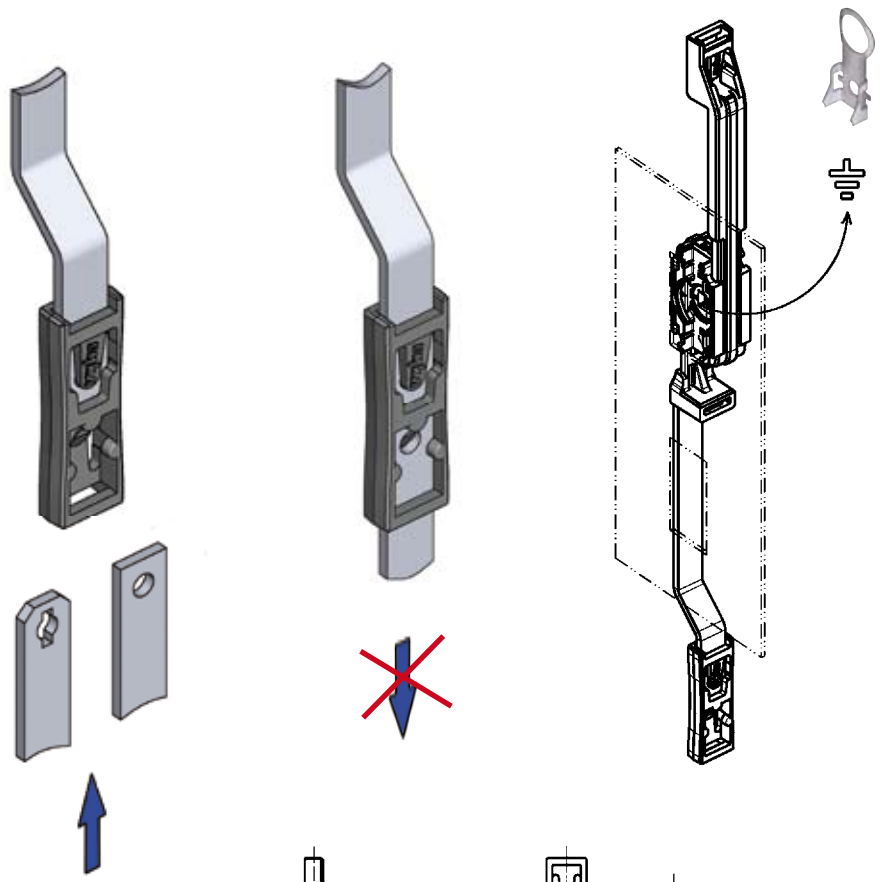
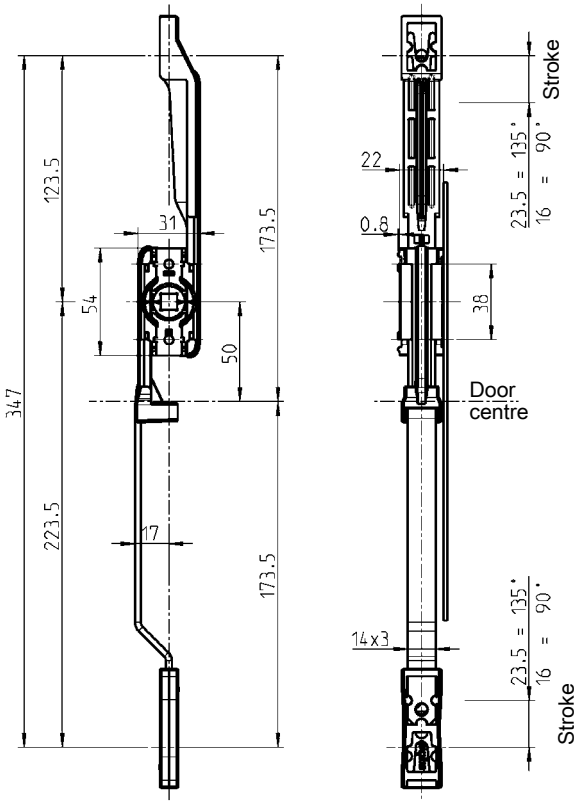
Rod control for flat rods

PROGRAM 1125, 1150, 1225, 1325, 3000



Quick assembly of connection rod





Further parts see page
– Connection rods

outside	3ZA-120
inside (only flat rods possible)	3ZB-120 3ZB-220 3ZB-240
– Earth spring	3YA-720
– Cam	3YA-820
(Swing handle 1325)	3YA-840

Program 1125

– Escutcheon long	3B-120 3B-180
– Swinghandle	3B-220 3B-420

Program 1150

– Swinghandle 1150	3C-160 3C-720
to	3C-750
– Swinghandle 1153	3C-320

Program 1225

– Escutcheon long	3G-120 3G-180
– Swinghandle	3G-220 3G-420

Program 1325

– Escutcheon	3BA-120
– Swinghandle	3BA-220

Program 3000

– Swinghandle	3N-120

Rod control made of high performance plastics

1121-U26-K

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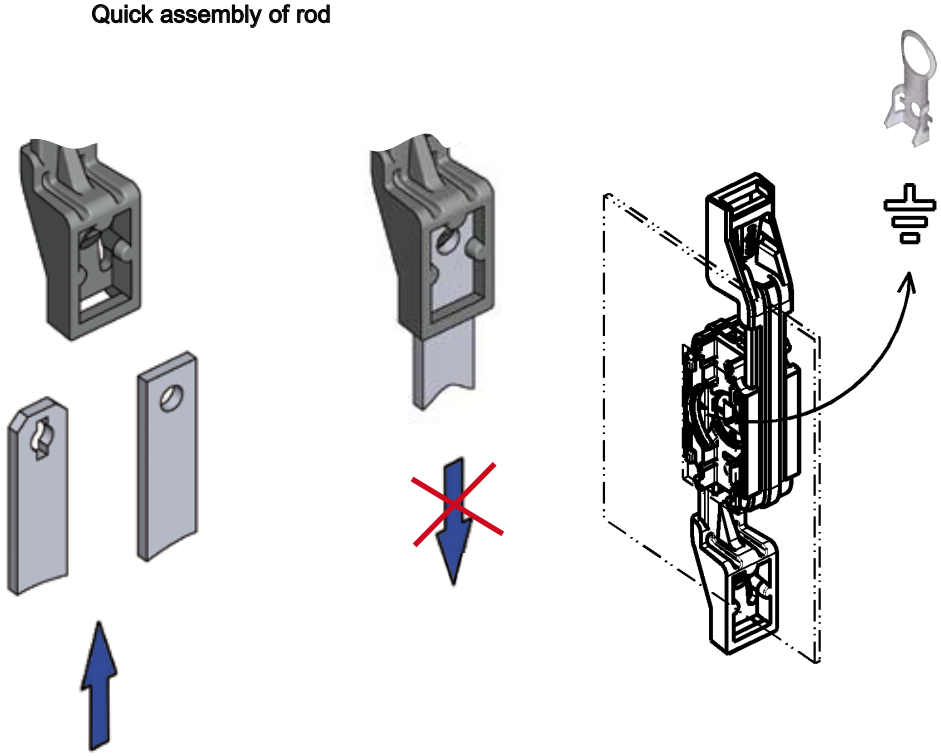
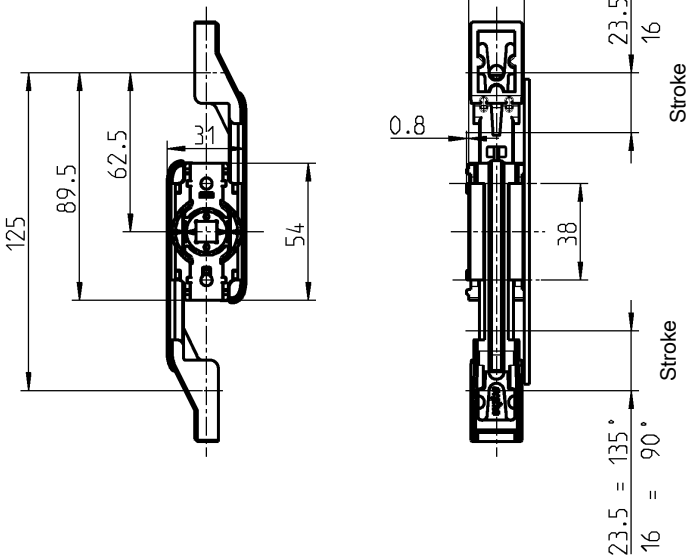
Rod control for flat rods

PROGRAM 1125, 1225

Quick assembly of rod





Further parts see page

– Rods

inside (only flat rods)	3ZB-120
	3ZB-220
	3ZB-240
– Earth spring	3YA-720
– Cam	3YA-820

Program 1125

– Escutcheon short	3B-120
	3B-180

Program 1225

– Escutcheon short	3G-120
	3G-180

Rod control of high-quality plastic combination

1121-U1-K

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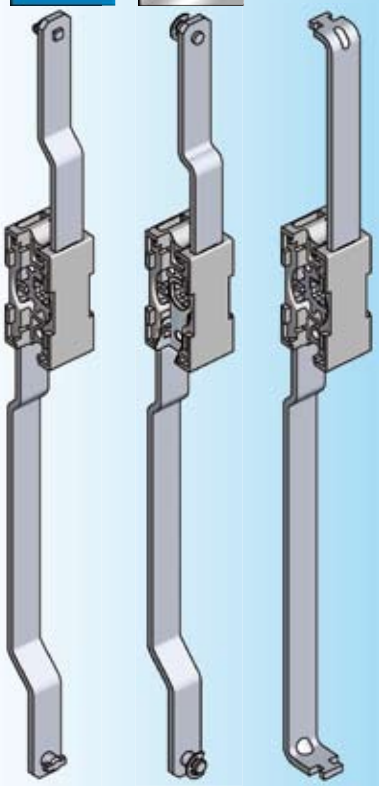
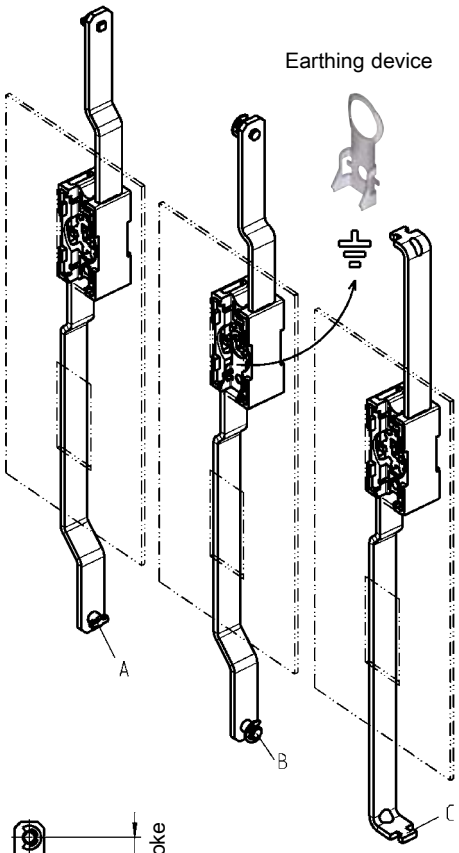
Rod control for flat rods

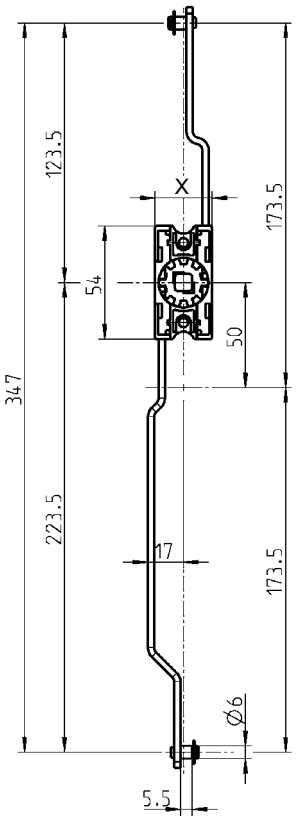
PROGRAM 1125, 1150, 1225, 1325, 3000

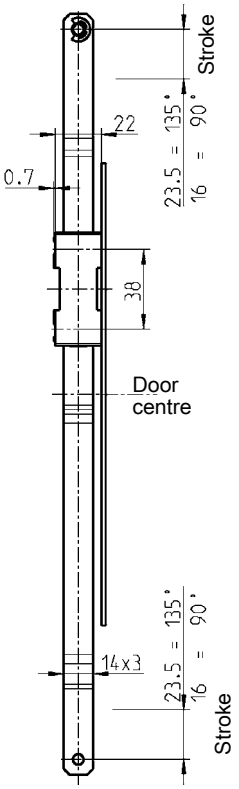
EDELSTAHL Rostfrei STAINLESS STEEL





X = 27 mm zinc die and polyamide
29 mm AISI





Further parts see page

– Rods

outside	3ZA-120
inside (only flat rods)	3ZB-120
	3ZB-220
	3ZB-240
– Earthing device	3YA-720
– Cam	3YA-820
(Swing handle 1325)	3YA-840

Program 1125

– Escutcheon long	3B-120
	3B-180
– Swinghandle	3B-220
	3B-420

Program 1150

– Swinghandle 1150	3C-160
	3C-720
up to	3C-750
– Swinghandle 1153	3C-320

Program 1225

– Escutcheon long	3G-120
	3G-180
– Swinghandle	3G-220
	3G-420

Program 1325

– Escutcheon	3BA-120
– Swinghandle	3BA-220

Program 3000

– Swinghandle	3N-120

Rod control: material on choice		Version		
Rod control box	**Rod**	**A**	**B**	**C**
Zinc die	m.s. zinc plated	1121-U125-C	1121-U26-C	1121-U85-C
polyamide black	AISI 304	–	1121-U178-C	–
polyamide black	aluminium	–	1121-U38-C	1121-U86-C
AISI 316	AISI 304	–	1121-U139	–

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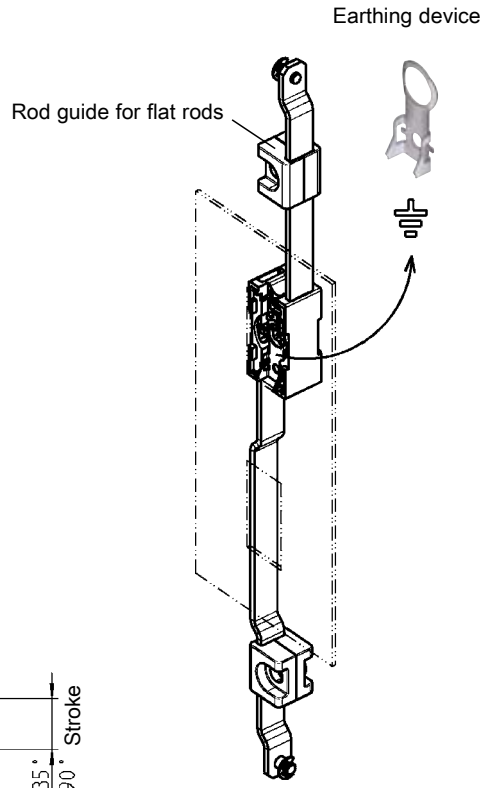
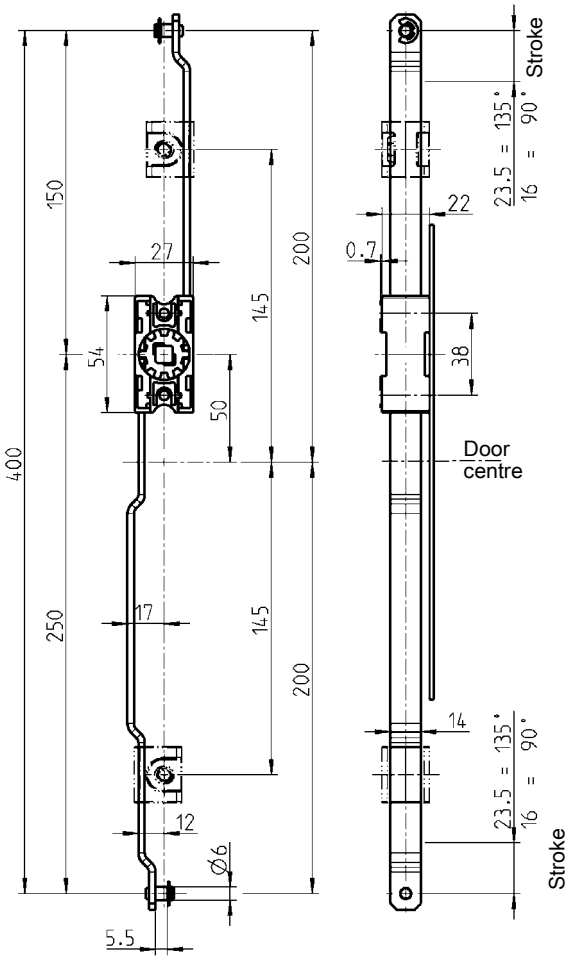
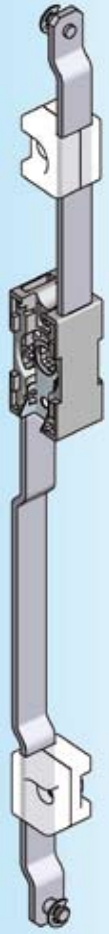
Rod control for round rods

PROGRAM 1125, 1150, 1225, 1325, 3000







Further parts see page

– Rods	
inside	3ZB-120
– Rod guide	3ZC-120
up to	3ZC-170
– Earthing device	3YA-720
– Cam	3YA-820
(Swing handle 1325)	3YA-840

Program 1125

– Escutcheon long	3B-120
	3B-180
– Swinghandle	3B-220
	3B-420

Program 1150

– Swinghandle 1150	3C-160
	3C-720
up to	3C-750
– Swinghandle 1153	3C-320

Program 1225

– Escutcheon long	3G-120
	3G-180
– Swinghandle	3G-220
	3G-420

Program 1325

– Escutcheon	3BA-120
– Swinghandle	3BA-220

Program 3000

– Swinghandle 1150	3N-120

Rod control material on choice

Rod control box	Rod	
Zinc die	m.s. zinc plated	1121-U29-C
polyamide black	aluminium	1121-U39-C

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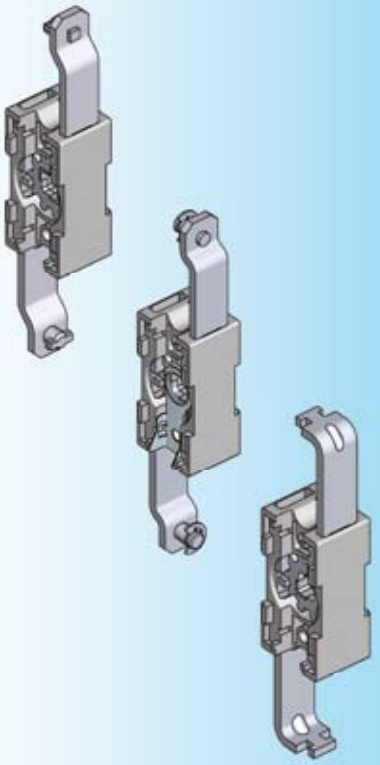
Rod control

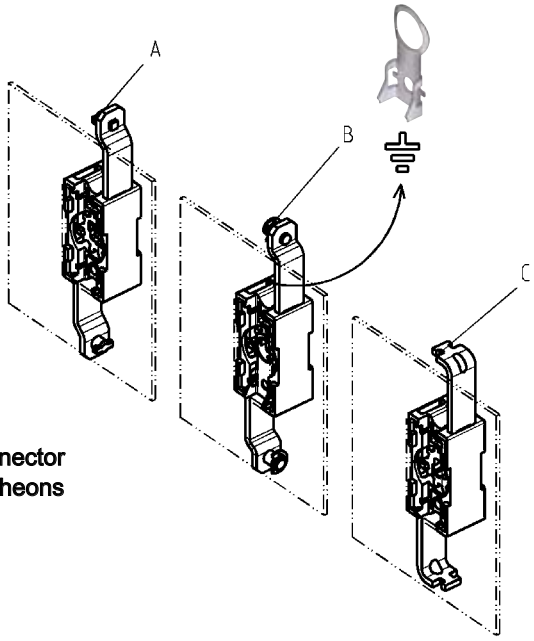
PROGRAM 1125, 1225

EDELSTAHL Rostfrei STAINLESS STEEL

INOX AISI 3..

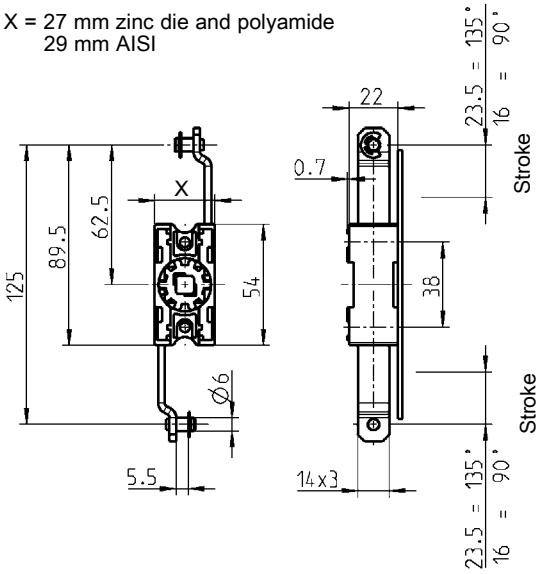


Earthing device



Rod control for short escutcheons Version B in combination with connector (3YA-180) suitable for long escutcheons and swinghandles

X = 27 mm zinc die and polyamide
29 mm AISI



Further parts see page

– Rods
inside 3ZB-120
3ZB-220
3ZB-240
– Bridge 3YA-180
– Earthing device 3YA-720
– Cam 3YA-820

Program 1125
– Escutcheon short 3B-120
3B-180

Program 1225
– Escutcheon short 3G-120
3G-180
– Swinghandle small version 3G-520

Rod control with two rods: Material on choice		Version		
Rod control box	**Rod**	**A**	**B**	**C**
zinc die	m.s. zinc plated	1121-U124-C	1121-U1-C	1121-U153-C
polyamide black	AISI 304	–	1121-U177-C	–
polyamide black	aluminium	–	1121-U37-C	1121-U154-C
AISI 316	AISI 304	–	1121-U138	–
Rod control with one rod				
Rod control box	**Rod**	**A**	**B**	**C**
polyamide black	aluminium	–	1121-U61-C	–
Rod control without rods, with swing stopper aluminium, turn 90°				
Rod control box	**Rod**	**A**	**B**	**C**
polyamide black	–	–	1121-U60-C	–

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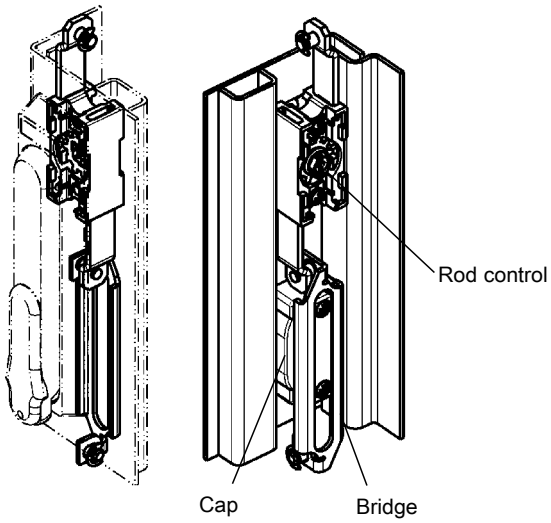
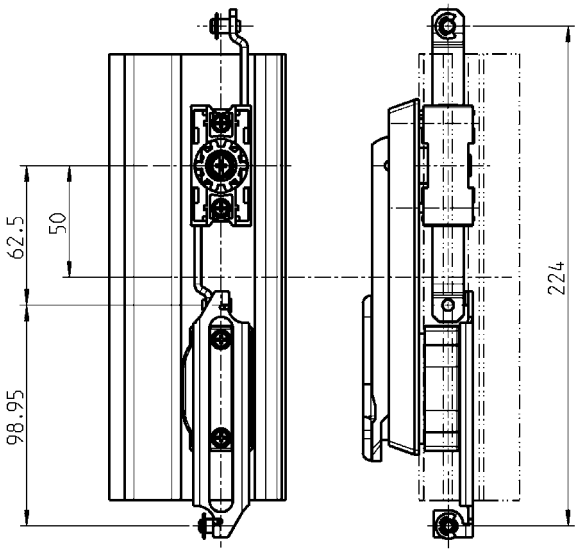
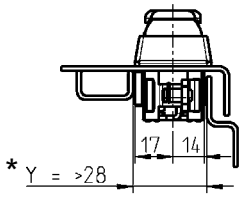
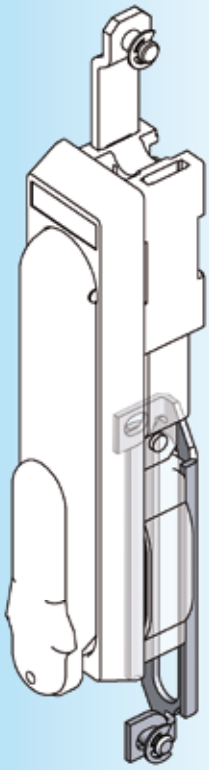
Connector for smaller width

PROGRAM 1125, 1225, 1325









By using the connector in combination with a rod control 3YA-160) version B, less width is required. In case of mounting the long escutcheon or the swing handles, each with cap, the rod length above and below is the same.

***** In case of a smaller dimension Y rear cap with flat seal (without PUR-foamed seal) has to be ordered separately on request.

Further parts see page
– Rods
inside 3ZB-120
3ZB-220
3ZB-240
– Rod control (Ausführung B) 3YA-160

Program 1125
– Escutcheon long 3B-120
3B-180
– Swinghandle 3B-220
3B-420

Program 1225
– Escutcheon long 3G-120
3G-180
– Swinghandle 3G-220
3G-420

Program 1325
– Escutcheon 3BA-120
– Swinghandle 3BA-220

Connector, rivet pin m.s. zinc plated, circlips spring steel zinc plated

1121-U65

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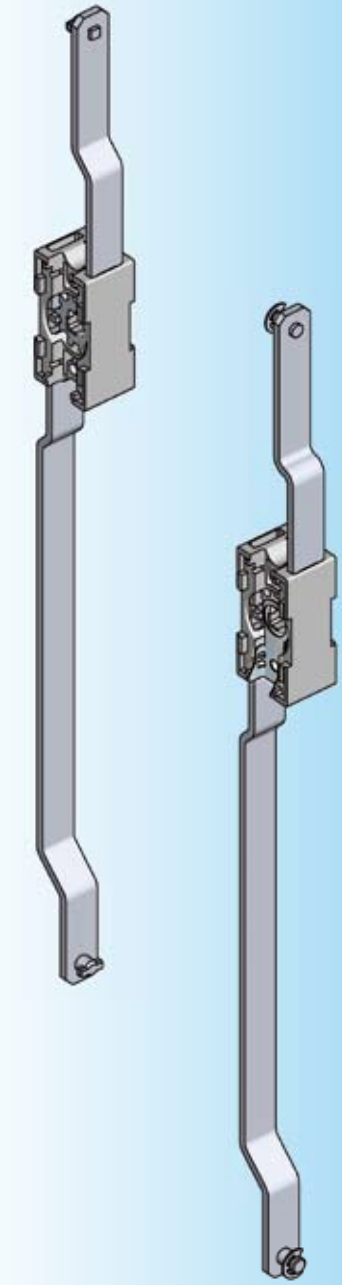
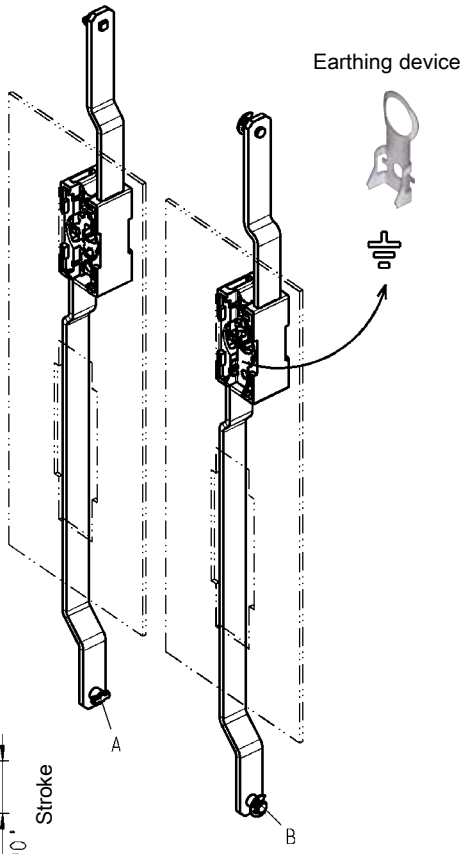
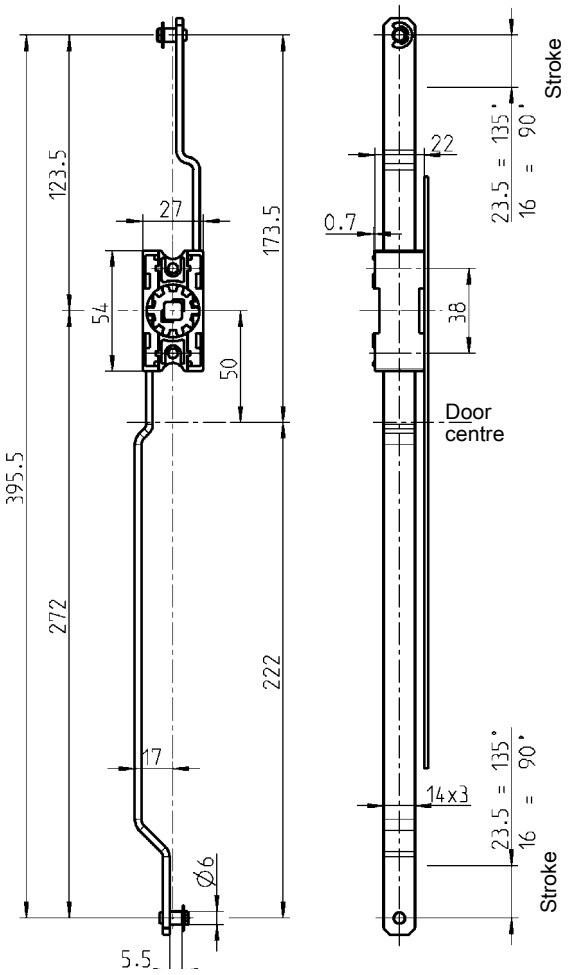
Rod control for flat rods

PROGRAM 1125







Further parts see page
– Rods
inside 3ZB-120
3ZB-220
3ZB-240
– Earthing device 3YA-720
– Cam 3YA-820

Program 1125
– Swinghandle 3B-320

Rod control: Material on choice		Version	
Rod control box	**Rod**	**A**	**B**
Zinc die	m.s. zinc plated	1121-U126-C	1121-U51-C
polyamide black	aluminium	–	1121-U53-C

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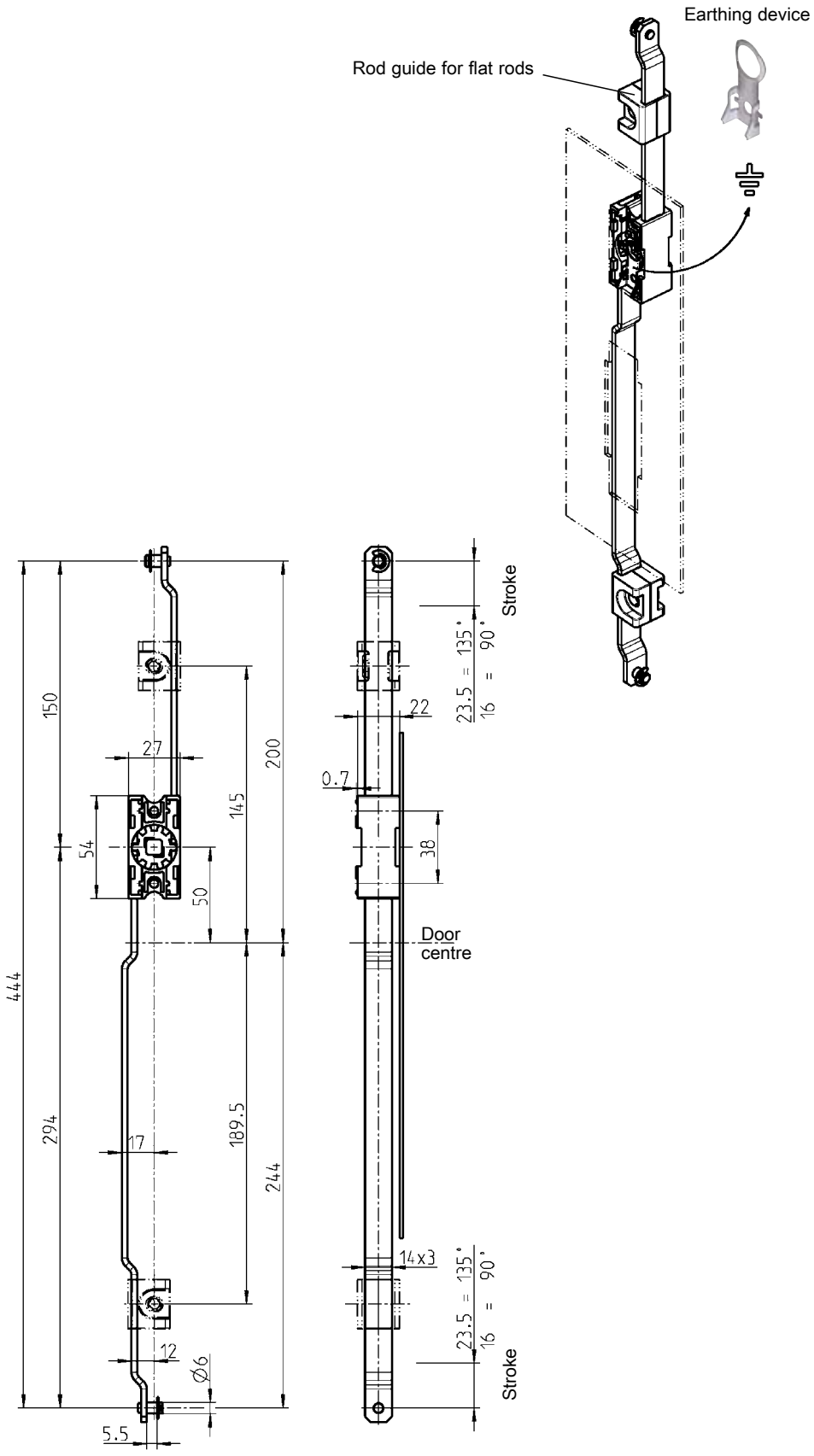
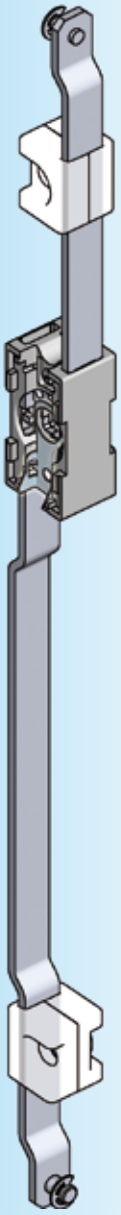
Rod control for round rods

PROGRAM 1125





Further parts see page

– Rods	
inside	3ZB-120
– Rod guide	3ZC-120 to 3ZC-170
– Earthing device	3YA-720
– Cam	3YA-820

Program 1125

– Swinghandle	3B-320

Rod control zinc die; rods m.s. zinc plated

1121-U52-C

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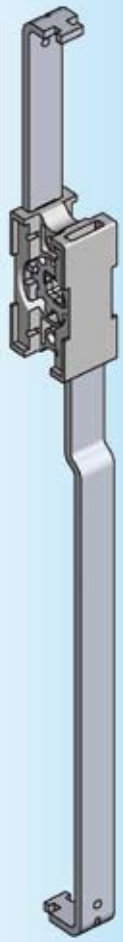
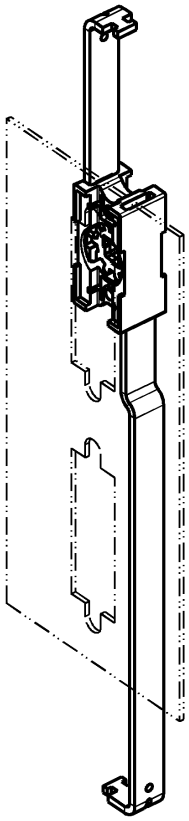
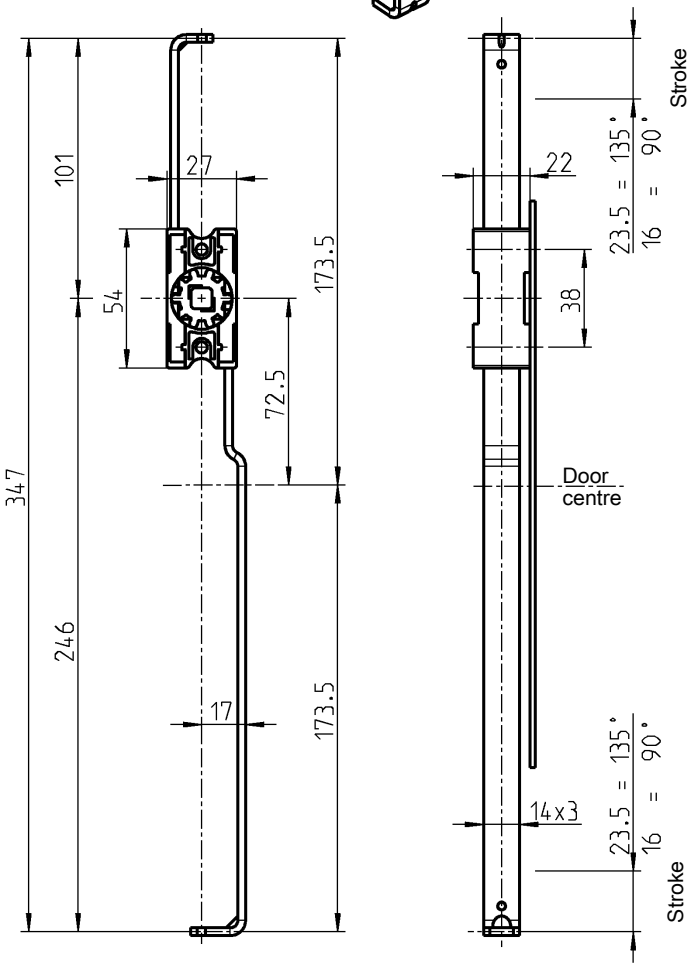
Rod control for flat rods

PROGRAM 1150







Further parts see page

– Rods

outside	3ZA-120 3ZA-320
inside	3ZB-120 3ZB-220 3ZB-240
– Cam	3YA-820

Program 1150

– Swing handle 1151	3C-440

Rod control material on choice	
Zinc die, Rods m.s. zinc plated	2121-U28-C
Polyamide black, rods aluminium	2121-U29-C

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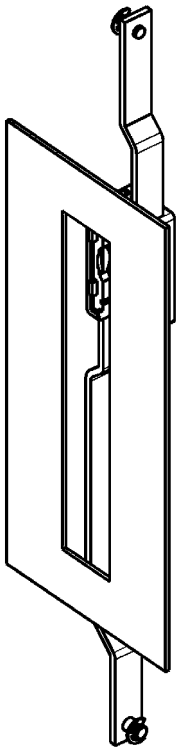
Stainless steel rod control for flat rods

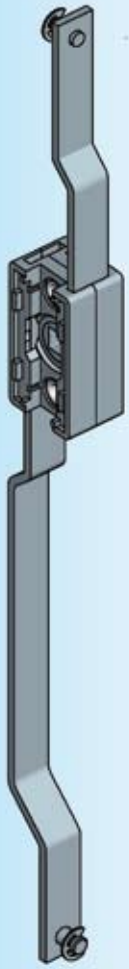
PROGRAM 1150

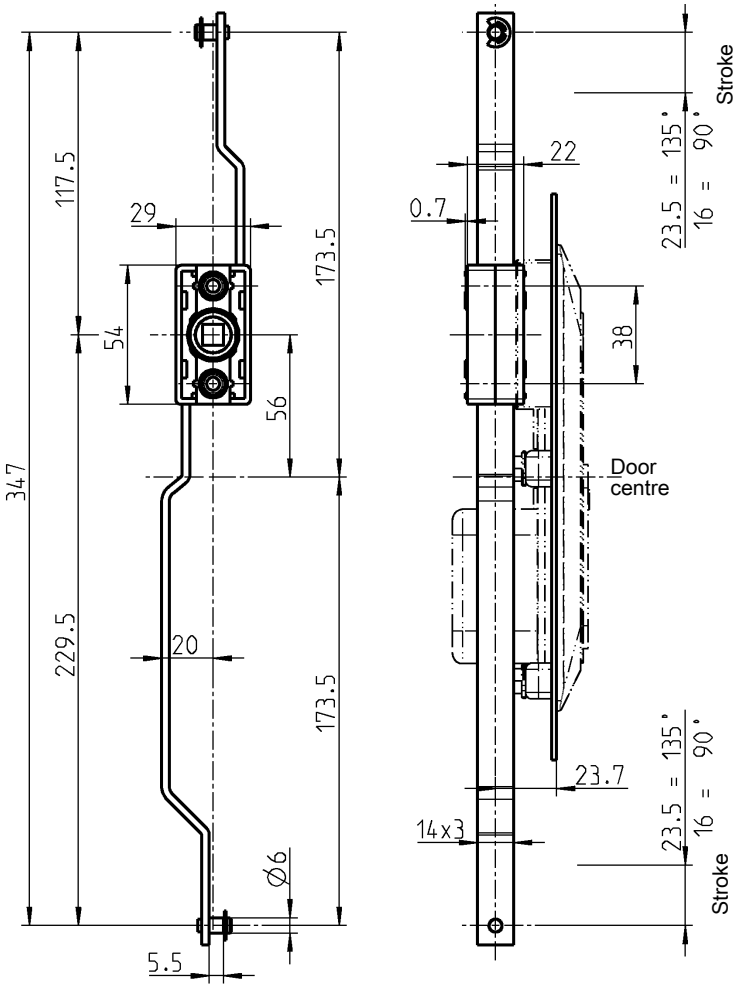
EDELSTAHL Rostfrei STAINLESS STEEL

RL

INOX AISI 3..







Further parts see page
– Rods
inside on request

Program 1150
– Swinghandle 1154
with RC2 3C-260

Rod control box AISI 316, rods AISI 304

1121-U140

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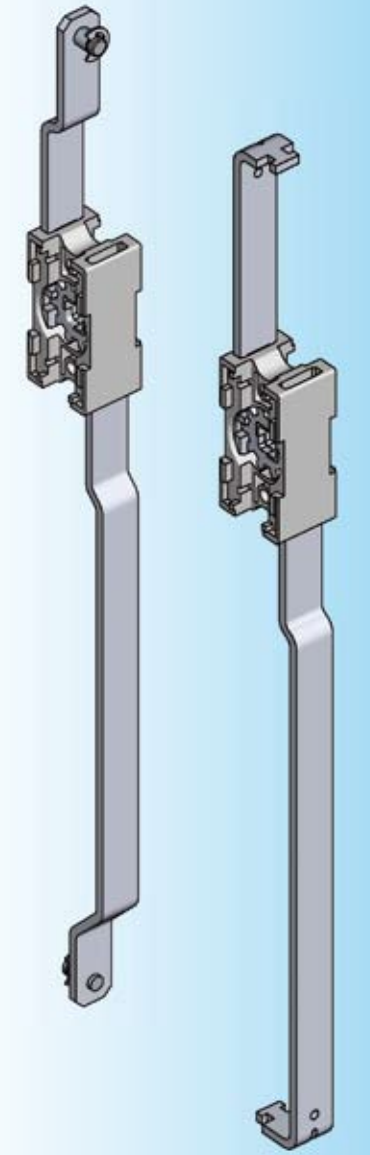
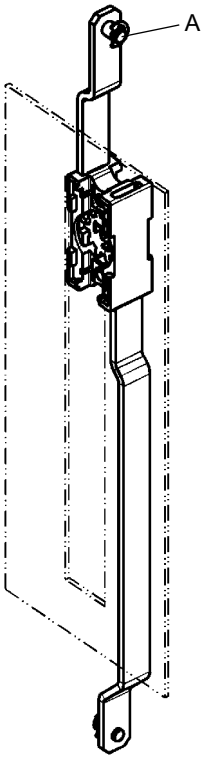
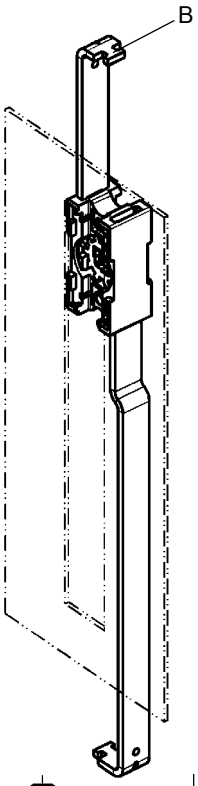
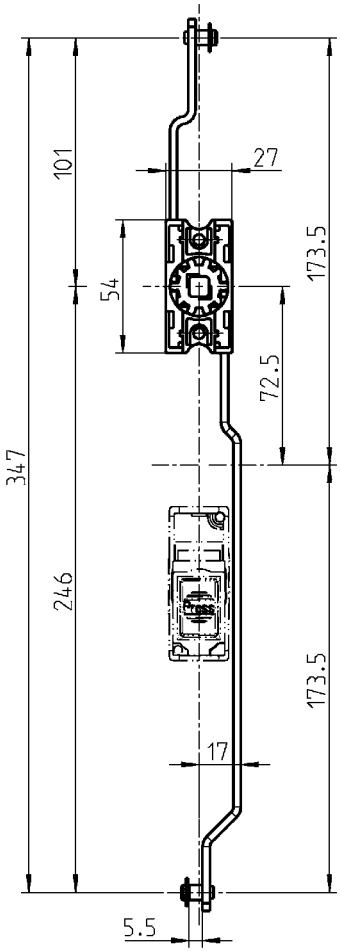
Rod control for flat rods

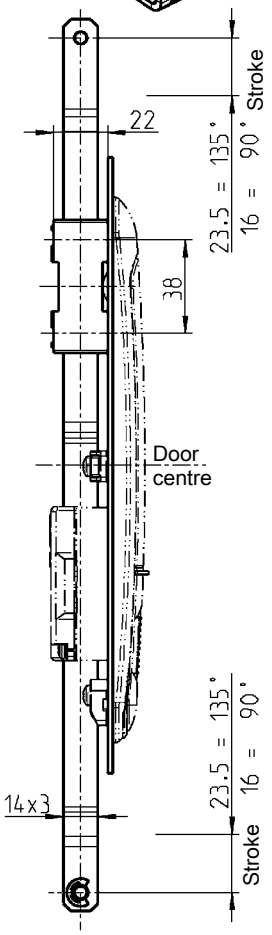
PROGRAM 1180











Further parts see page

– Rods

outside	3ZA-120 3ZA-320
inside	3ZB-120 3ZB-220 3ZB-240
– Cam	3YA-820

Program 1180

– Swinghandle 1185	3E-520 3E-540

Rod control zinc die, rods m.s. zinc plated	
Version A	1121-U181-C
Version B	1121-U180-C

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Rod control for flat rods

PROGRAM 2100

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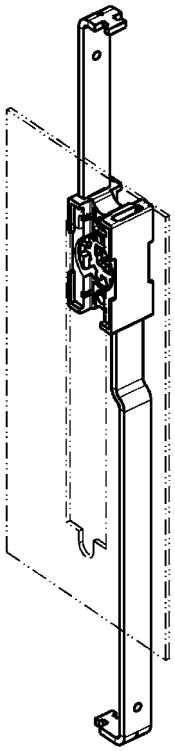

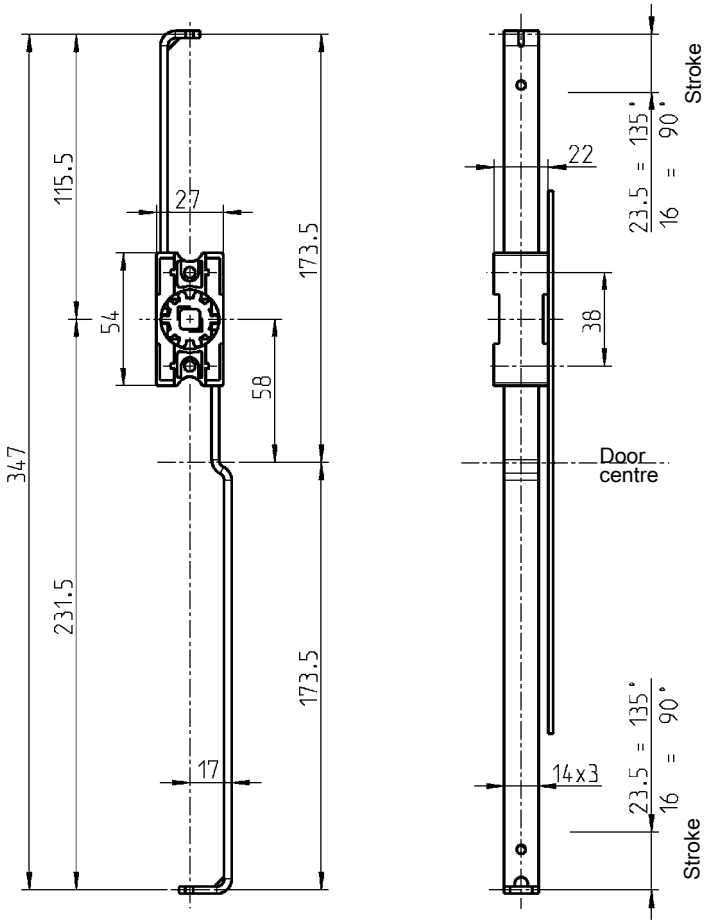

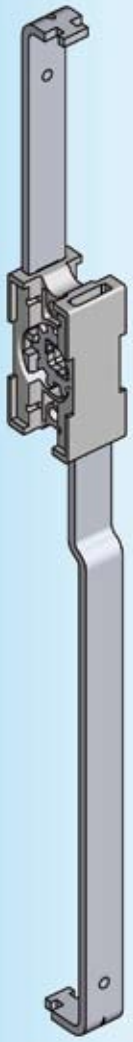

Further parts see page

– Rods

outside	3ZA-120 3ZA-320
inside	3ZB-120 3ZB-220 3ZB-240

– Cam 3YA-820

Program 2100

– Escutcheon	3H-120 3H-220
– Swinghandle	3H-320 up to 3H-420

Rod control material on choice	
Zinc die, rod m.s. zinc plated	2121-U26-C
Polyamide black, rods aluminium	2121-U27-C

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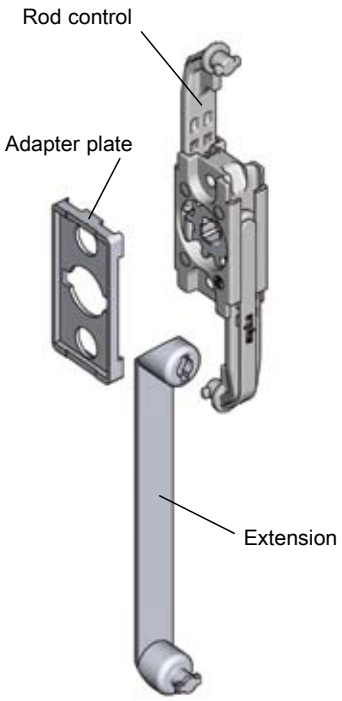
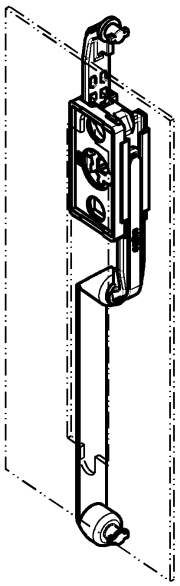
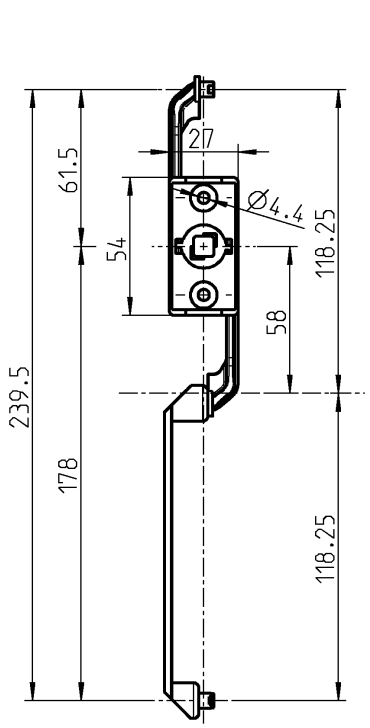
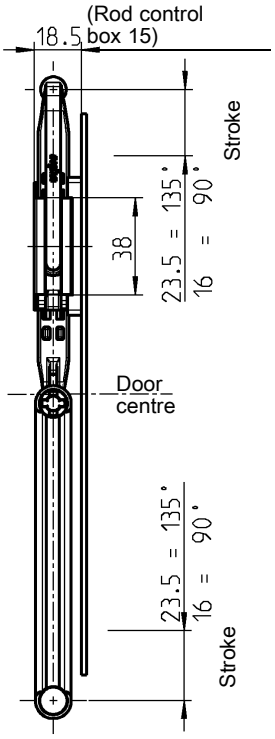
Rod control for flat rods

PROGRAM 2100









Further parts see page
– Rods
inside 3ZB-120
3ZB-220
3ZB-240
– Cam 3YA-820

Program 2100
– Escutcheon 3H-120
3H-220
– Swinghandle 3H-320
up to 3H-420

Rod control zinc die	
	2200-U1-C
Adapter plate zinc die zinc plated	
	2200-05
Extension zinc die zinc plated	
	2200-06

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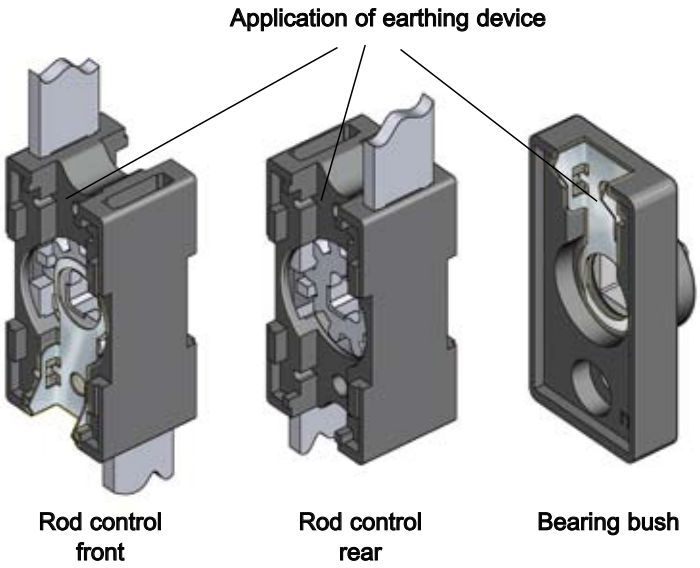
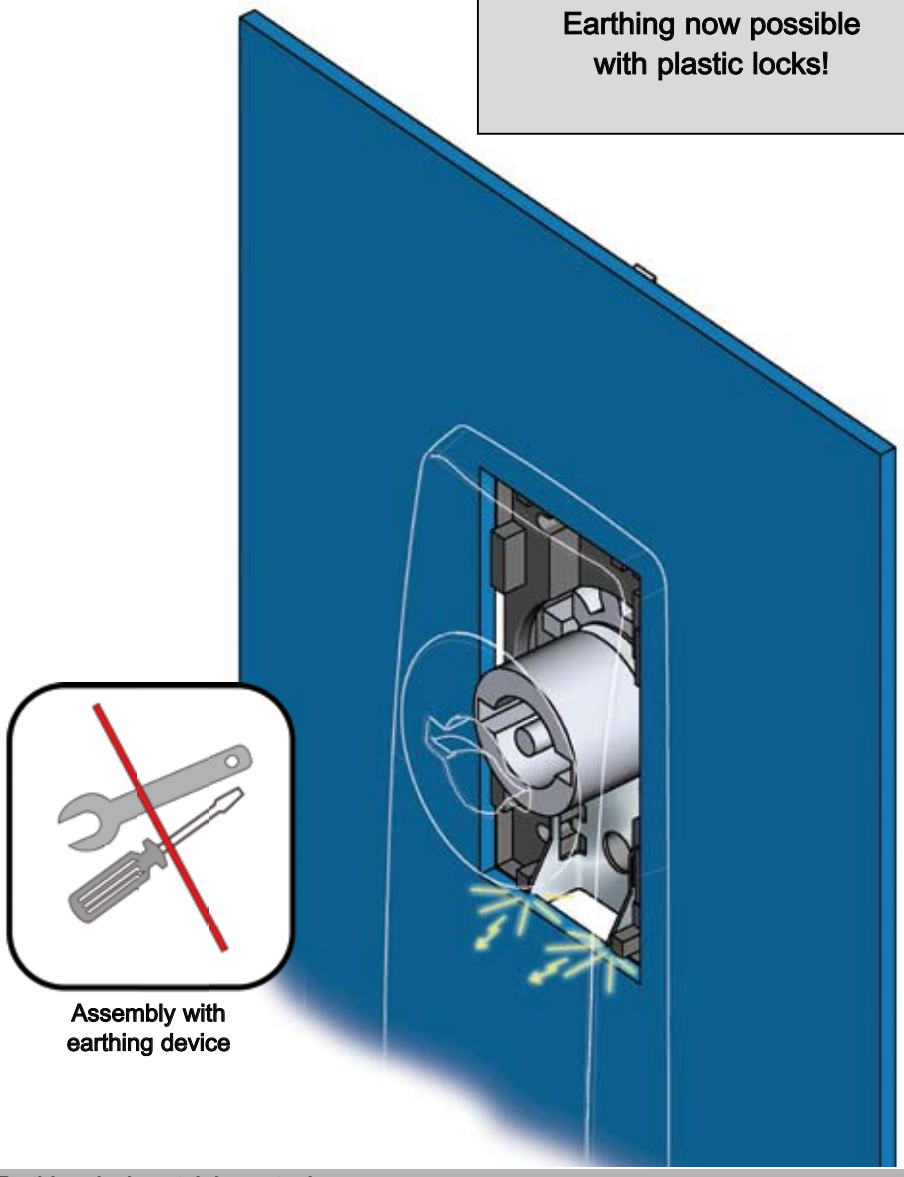
Earthing device for rod control and bearing bush

PROGRAM 1125, 1150, 1225, 1325, 3000



Earthing now possible with plastic locks!



The earthing device passed the test in accordance to DIN EN 60439-1/8.2.4.1. The resistance is max. 0,032 Ohm.

Attention:

The earthing device can be used regardless of the material of the rod control!

The earthing device will not change the assembly!

The earthing device can be assembled to the rod control or bearing bush without a tool.

The mechanical figures are unchanged!

Earthing will be achieved upon assembly of the escutcheon or the swinghandle!

Further parts see page

– Rod control 3YA-110 up to 3YA-240
– Bearing bush 3YB-120 (for Ts 1.0 to 2.0)

Earthing device stainless steel

1121-117

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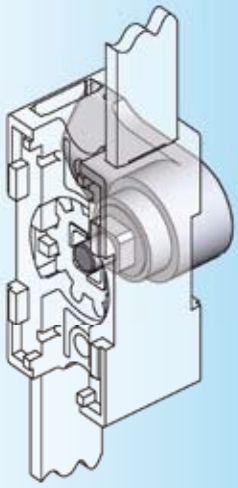
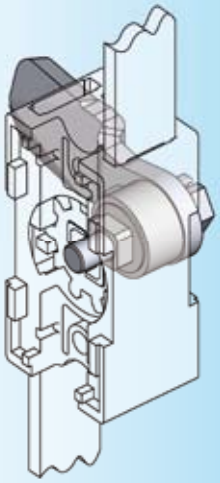
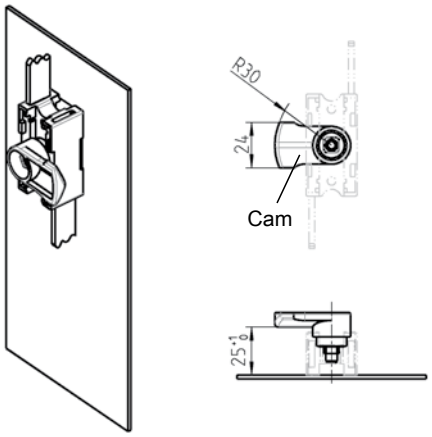
Cam in zinc die and steel

PROGRAM 1125, 1150, 1225, 1325, 2100, 3000



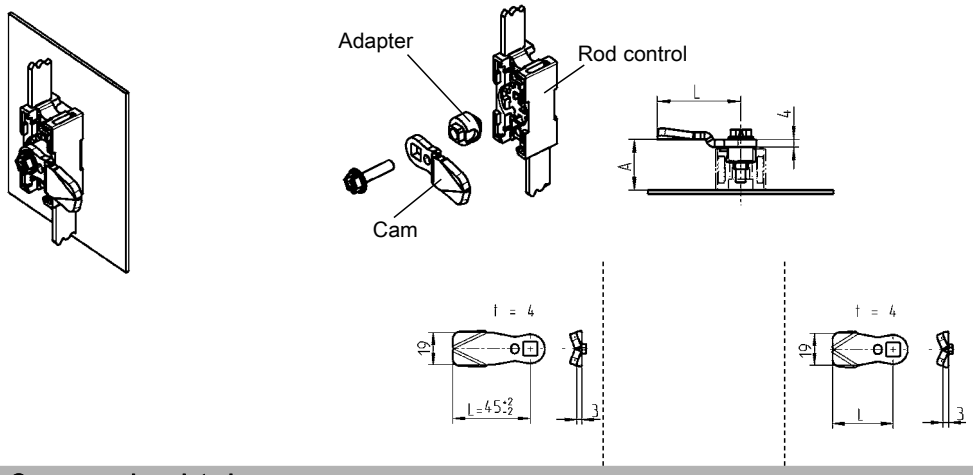


Zinc die cam



Cam zinc die zinc plated, with screw m.s. zinc plated	
	1121-U25

M.s. cam (only usable with adapter)



Cam m.s. zinc plated					
A in mm			A	L	
23		1000-17	23	35	1000-5046
25		1000-16	25	35	1000-5161
27		1000-15	27	35	1000-5119
29		1000-14	33	35	1000-5164
30	Attention:	1000-27			
31	These A dimen-	1000-50			
33	sions	1000-13			
35	only apply	1000-28			
37	with a rod	1000-26			
39	control	1000-12			
40		1000-11			
41		1000-51			
43		1000-52			
45		1000-25			
47		1000-53			
49		1000-54			
50		1000-10			
52		1000-55			
55		1000-56			

Cams with other A and L dimensions

Adapter zinc die, screw m.s. zinc plated
1121-U40

Note:
The ramp increases the compression distance of the lock by 4 mm.

Program 1325:
Works only with escutcheon.
Combination with swing handle see page 3YA-840.

Further parts see page
– Ramp 1C-170

– Rod control 3YA-110 up to 3YA-540

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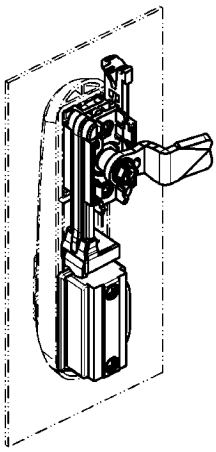
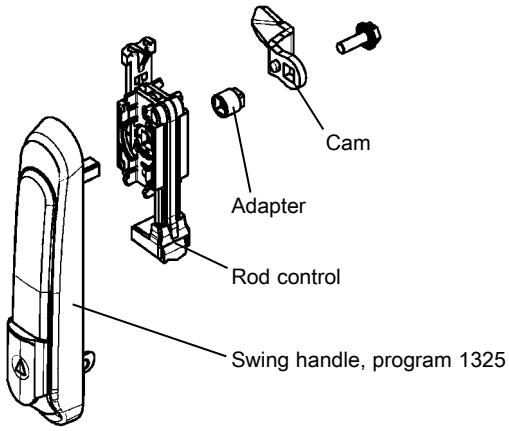
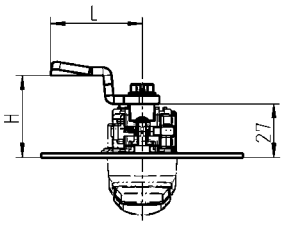
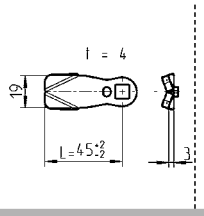
Cam for rod control

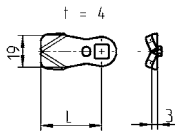
PROGRAM 1325

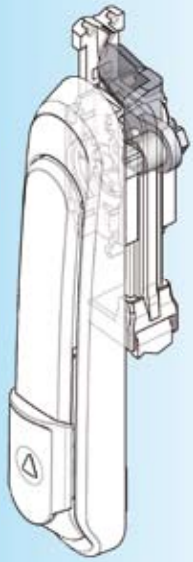












Cam m.s. zinc plated					
H			H	L	
27		1000-17	27	35	1000-5046
29		1000-16	29	35	1000-5161
31		1000-15	31	35	1000-5119
33		1000-14	37	35	1000-5164
34	Attention:	1000-27			
35	These H dimen-	1000-50			
37	sions	1000-13			
39	only apply with a	1000-28			
41	rod control	1000-26	Cam with other A and L dimensions		
43		1000-12			
44		1000-11			
45		1000-51			
47		1000-52			
49		1000-25			
51		1000-53			
53		1000-54			
54		1000-10			
56		1000-55			
59		1000-56			
Adapter AISI 316 L, screw m.s. zinc plated					
		1121-U188			

Note:
The ramp increases the compression distance of the lock by 4 mm.

Program 1325
Works only with swing handle.
Combination with escutcheon
see page 3YA-820.

Further parts see page
– Ramp 1C-170

– Rod control 3YA-110
3YA-120
3YA-140

Program 1325
– Swinghandle 3BA-220

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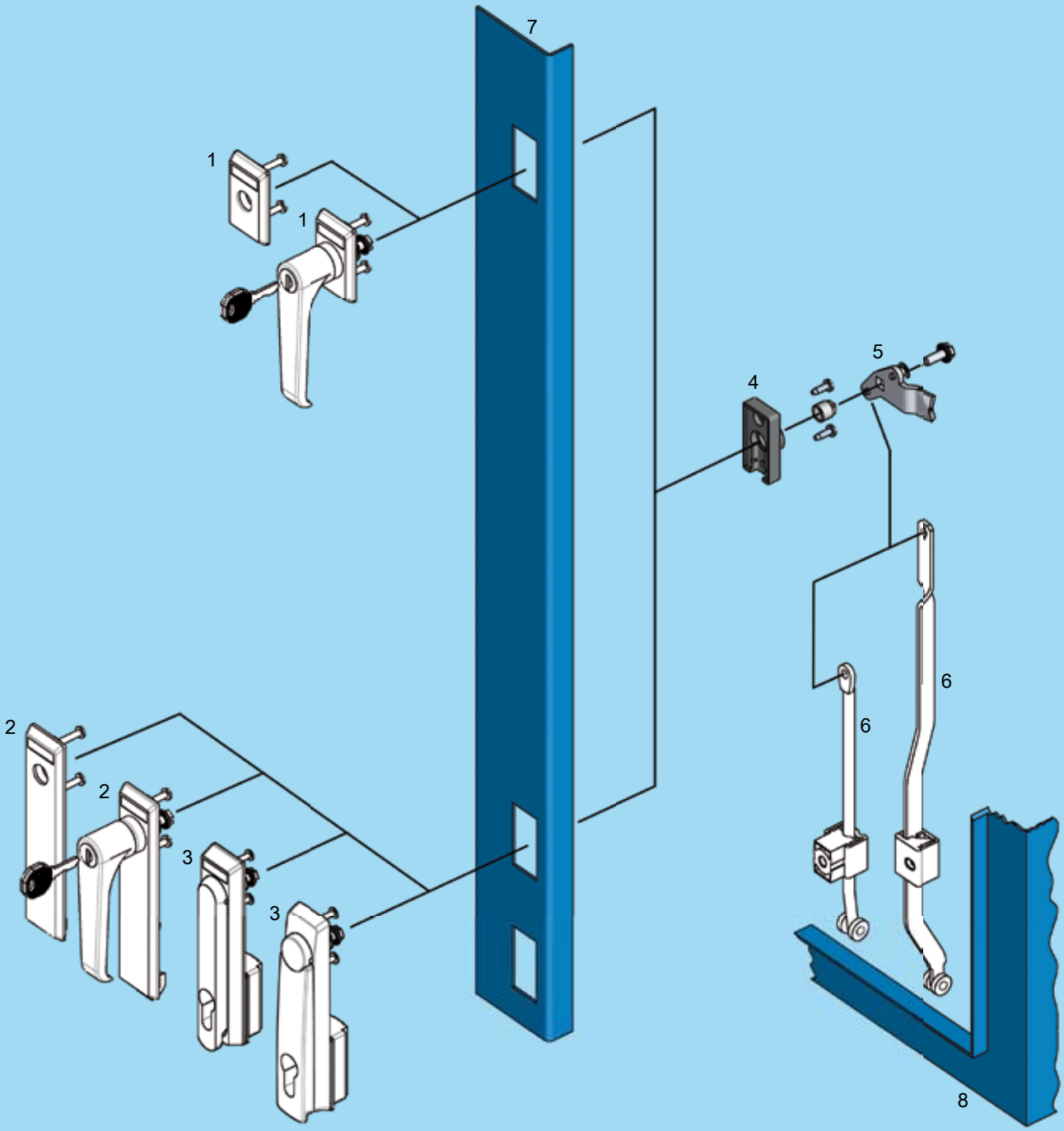
Notes:

Bearing bush with cam
Program 1125, 1225, 1325, 2100, 3000



1 Escutcheon short
2 Escutcheon long
3 Swinghandle
4 Bearing bush
5 Cam
6 Rod (inside the gasketing)
7 Door
8 Cabinet/frame

Program 1125, 1225
Program 1125, 1225, 1325, 2100
Program 1125, 1225, 2100, 3000
3YB-120, 3YB-140
3YB-420, 3YB-440, 3YB-460

3YB-100

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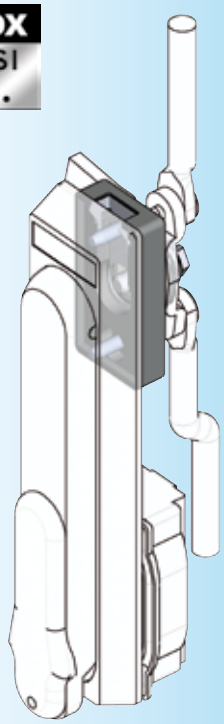
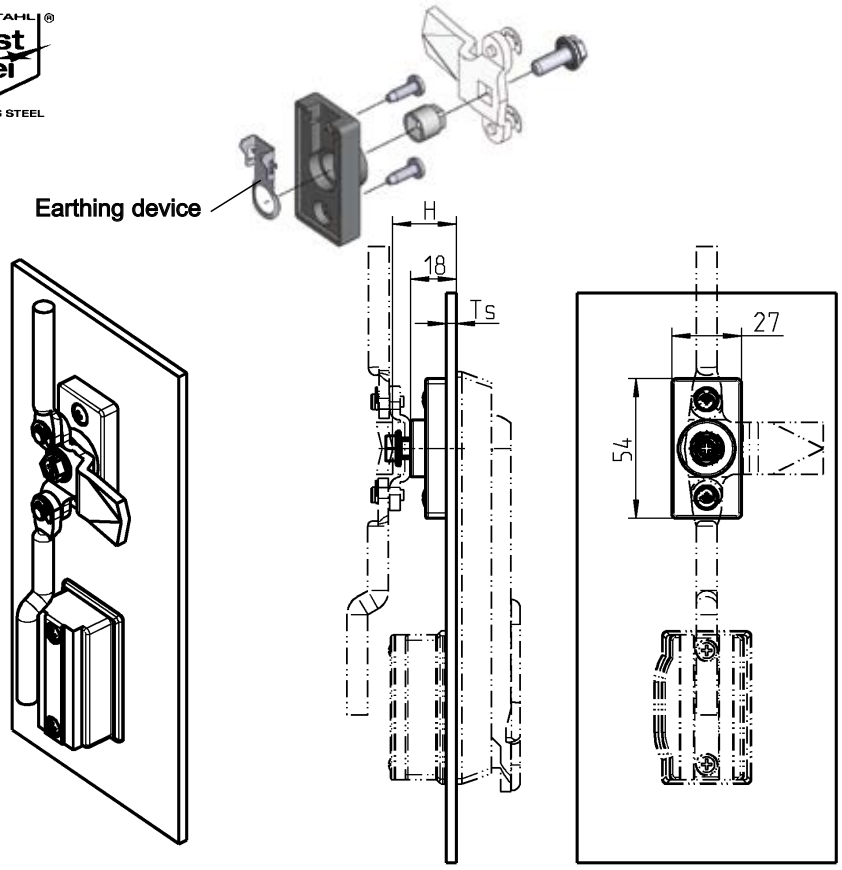
Bearing bush Ts 1,0 – 12,0 mm

PROGRAM 1125, 1225, 1325, 3000





Attention: Escutcheons and swinghandles assembled with rear cap can not be used with standard rods!
Special rods on request!

Note:
Earthing device can be used with bearing bushes for Ts = 1,0, 1,5 and 2,0!
(not suited for Program 3000)

Adapter and fixing material for Program 3000
see catalogue page 3N-120

Further parts see page

– Cam for bearing bush without stopper 3YB-420
– Cam for bearing bush with stopper 3YB-440
– Rod control for cam 3YB-460
– Earthing device 3YA-720 (not suited for Program 3000)

Program 1125
– Escutcheon 3B-120, 3B-180
– Swinghandle 3B-220, 3B-420

Program 1225
– Escutcheon 3G-120, 3G-180
– Swinghandle 3G-220, 3G-420, 3G-520

Program 1325
– Escutcheon 3BA-120

Program 3000
– Swinghandle 3N-120

Bearing bush Polyamide black	door gauge	without stopper	Escutcheon LH swinghandle RH with stopper	Escutcheon RH Swinghandle LH with stopper
	1,0	1125-81-010	1125-83-010	1125-84-010
	1,5	1125-81-015	1125-83-015	1125-84-015
	2,0	1125-81-020	1125-83-020	1125-84-020
	2,5	1125-81-025	1125-83-025	1125-84-025
	3,0	1125-81-030	1125-83-030	1125-84-030
	4,0	1125-81-040	1125-83-040	1125-84-040
	5,0	1125-81-050	1125-83-050	1125-84-050
	6,0	1125-81-060	1125-83-060	1125-84-060
	8,0	1125-81-080	on request	on request
	10,0	1125-81-100	on request	on request
	11,0	1125-81-110	on request	on request
	12,0	1125-81-120	–	–
Bearing bush AISI 316				
	2,0	1125-81-020PH	–	–

Order extra: (not suitable for program 3000, see note)
adapter AISI 316L, fixing material m.s. zinc plated or stainless steel

Program 1125, 1225, 1325		Ts 1,0 – 3,0	Ts 4,0 – 6,0	Ts 8,0 – 12,0
m.s.	Swinghandle	1125-U284	1125-U284	1125-U285
m.s.	Escutcheon	1125-U286	1125-U287	1125-U288
AISI	Swinghandle	1125-U284-PH	–	–
AISI	Escutcheon	1125-U286-PH	–	–

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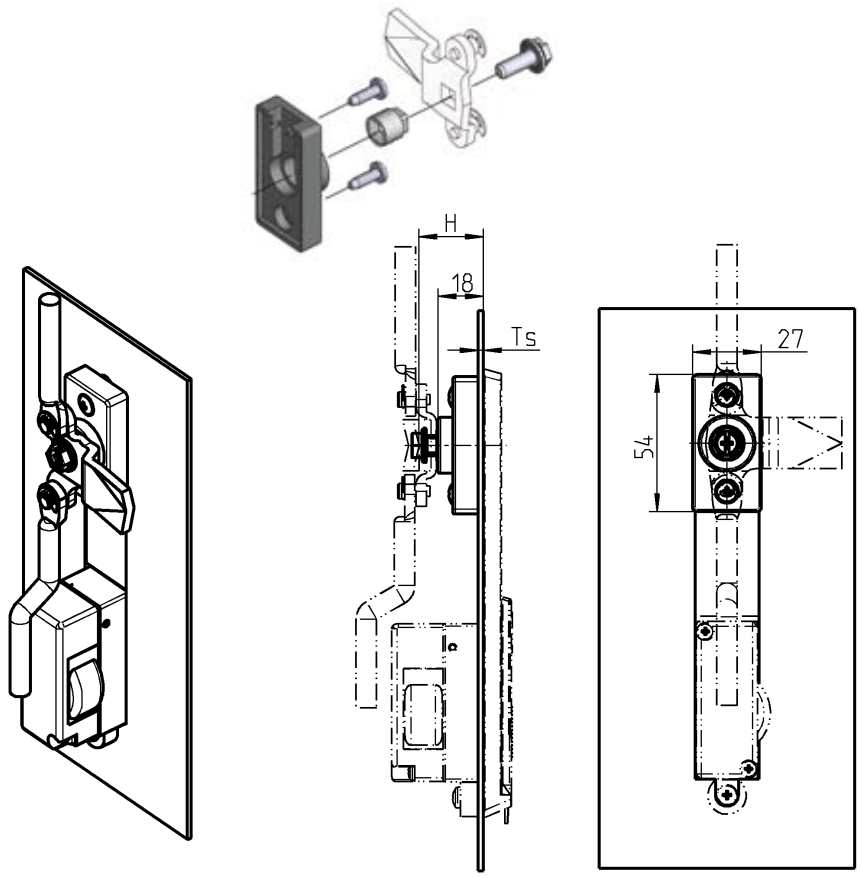
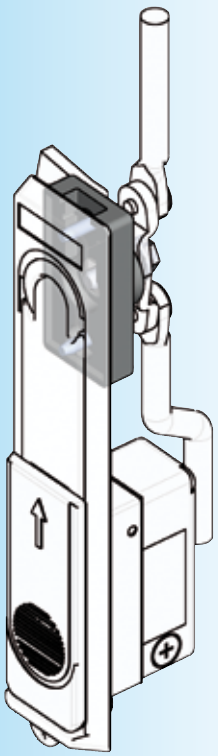
Bearing bush Ts 1,0 – 12,0 mm

PROGRAM 2100





Attention: Swinghandles can not be used with standard rods!
Special rods on request!

Bearing bush Polyamide black

door gauge	without stopper	Escutcheon LH swinghandle RH with stopper	Escutcheon RH Swinghandle LH with stopper
1,0	1125-81-010	1125-83-010	1125-84-010
1,5	1125-81-015	1125-83-015	1125-84-015
2,0	1125-81-020	1125-83-020	1125-84-020
2,5	1125-81-025	1125-83-025	1125-84-025
3,0	1125-81-030	1125-83-030	1125-84-030
4,0	1125-81-040	1125-83-040	1125-84-040
5,0	1125-81-050	1125-83-050	1125-84-050
6,0	1125-81-060	1125-83-060	1125-84-060
8,0	1125-81-080	on request	on request
10,0	1125-81-100	on request	on request
11,0	1125-81-110	on request	on request
12,0	1125-81-120	–	–

Order extra:
adapter AISI 316L, fixing material m.s. zinc plated

for Ts 1,0 - 12,0	1125-U286

Further parts see page
– Cam for bearing bush without stopper 3YB-420
– Cam for bearing bush with stopper 3YB-440
– Rod control for cam 3YB-460

Program 2100
– Escutcheon 3H-120 up to 3H-220
– Swinghandle 3H-320 up to 3H-420

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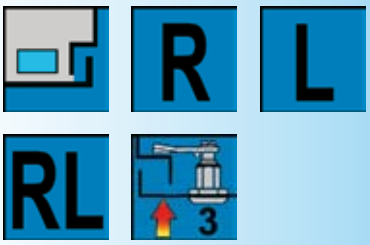
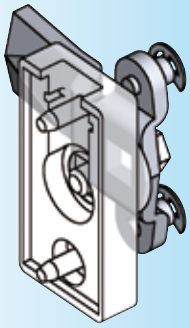
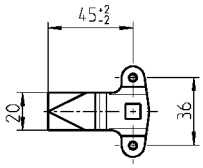
Cams for bearing bush without stopper

PROGRAM 1125, 1225, 1325, 2100, 3000

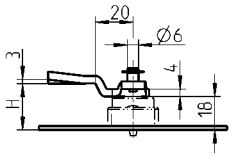




Cam with rivet pins
Stroke 18 mm

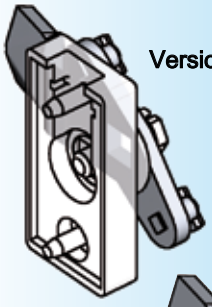


Note:
The ramp increases the compression distance of the lock by 4 mm.

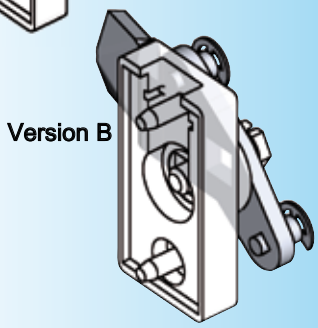


Cam m.s. zinc plated						
H		H		H		
18	1107-U119	30	1107-U124	42	1107-U131	
20	1107-U120	32	1107-U125	44	1107-U132	
22	1107-U5	34	1107-U126	45	1107-U133	
24	1107-U121	35	1107-U127	47	1107-U134	
25	1107-U122	36	1107-U128	50	1107-U135	
26	1107-U123	38	1107-U129			
28	1107-U6	40	1107-U130			
2-point rod control m.s. zinc plated						
						1107-U88

Further parts see page
– Ramp 1C-170
– Rod
inside 3ZB-120
– Bearing bush 3YB-120
3YB-140

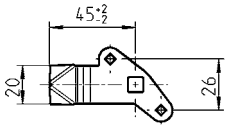


Version A

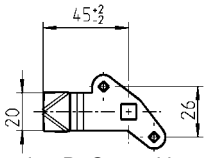


Version B

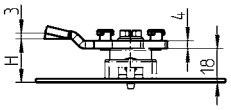
cam with rivet pins
Stroke 26 mm

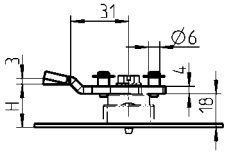


Version A: Cam with T rivets



Version B: Cam with round rivets





Note:
The ramp increases the compression distance of the lock by 4 mm.

Version A: Cam m.s. zinc plated					
H	RH	LH	H	RH	LH
23	1000-U544-23	1000-U545-23	31	1000-U544-31	1000-U545-31
25	1000-U544-25	1000-U545-25	35	1000-U544-35	1000-U545-35
27	1000-U544-27	1000-U545-27	38	1000-U544-38	1000-U545-38
29	1000-U544-29	1000-U545-29			
2-point rod control m.s. zinc plated					
					1000-U632

Further parts see page
– Ramp 1C-170

Program 1125, 1225, 1325, 3000
– Rod
inside 3ZB-420
– Bearing bush 3YB-120

Program 2100
– Rod
inside 3ZB-820
– Bearing bush 3YB-140

Version B: Cam m.s. zinc plated					
H	RH	LH	H	RH	LH
23	1000-U661-23	1000-U662-23	31	1000-U661-31	1000-U662-31
25	1000-U661-25	1000-U662-25	35	1000-U661-35	1000-U662-35
27	1000-U661-27	1000-U662-27	38	1000-U661-38	1000-U662-38
29	1000-U661-29	1000-U662-29	40	1000-U661-40	1000-U662-40
2-point rod control m.s. zinc plated					
					1000-U663

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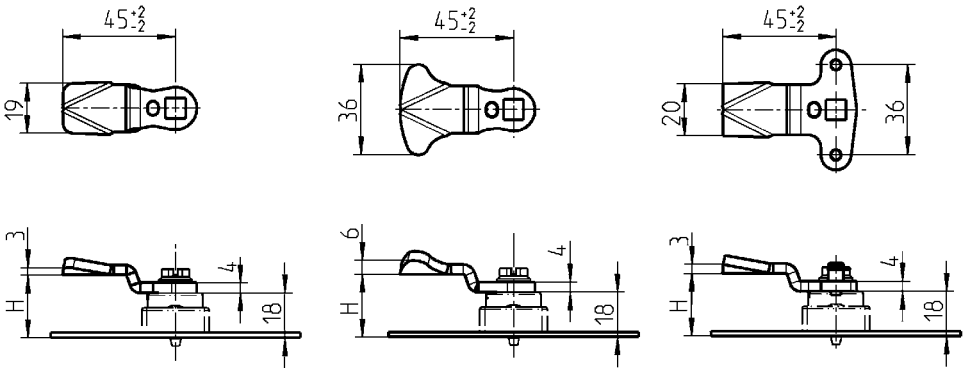
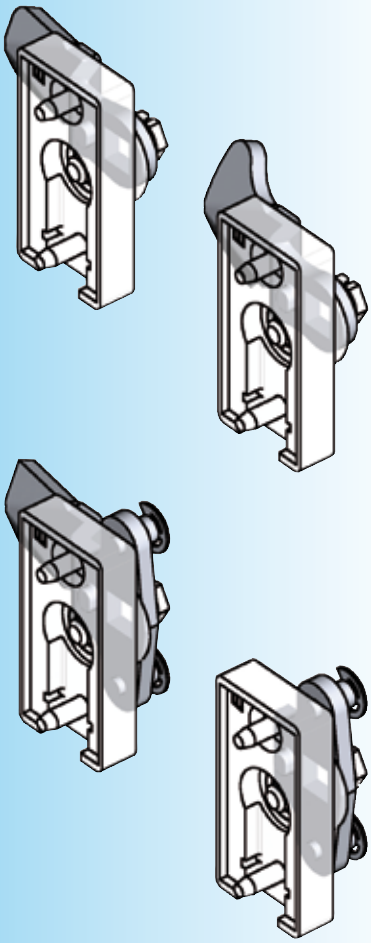
Cams for bearing bush with stopper

PROGRAM 1125, 1225, 1325, 2100, 3000

Cam with rivet pins
Stroke 18 mm

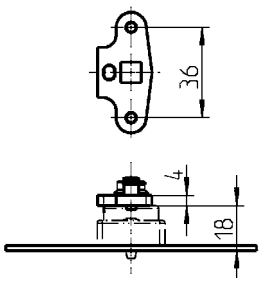


Cam m.s. zinc pl.		Cam m.s. zinc pl.		Cam m.s. zinc pl.	
H		H		H	
18	1000-17	18	1000-293	18	1000-U26
20	1000-16	20	1000-294	20	1000-U27
22	1000-15	22	1000-295	22	1000-U28
24	1000-14	24	1000-296	24	1000-U29
25	1000-27	25	1000-297	25	1000-U30
26	1000-50	26	1000-298	26	1000-U31
28	1000-13	28	1000-299	28	1000-U32
30	1000-28	30	1000-300	30	1000-U33
32	1000-26	32	1000-301	32	1000-U34
34	1000-12	34	1000-302	34	1000-U35
35	1000-11	35	1000-303	35	1000-U36
36	1000-51	36	1000-304	36	1000-U37
38	1000-52	38	1000-305	38	1000-U38
40	1000-25	40	1000-306	40	1000-U39
42	1000-53	42	1000-307	42	1000-U40
44	1000-54	44	1000-308	44	1000-U41
45	1000-10	45	1000-309	45	1000-U42
47	1000-55	47	1000-310	47	1000-U43
50	1000-56	50	1000-311	50	1000-U44



Note:
The ramp increases the compression distance of the lock by 4 mm.

Cam with rivet pins
Stroke 18 mm



2-point rod control m.s. zinc plated	
	1000-U167

Further parts see page

– Ramp	1C-170
– Rod	
inside	3ZB-120
– Bearing bush	3YB-120
	3YB-140

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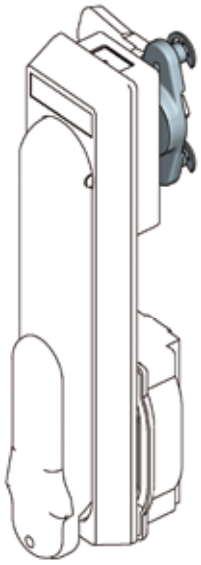
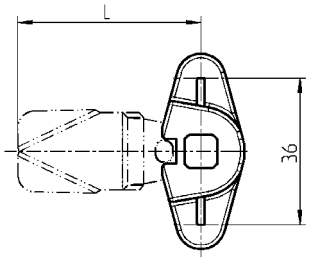
Rod control for cam

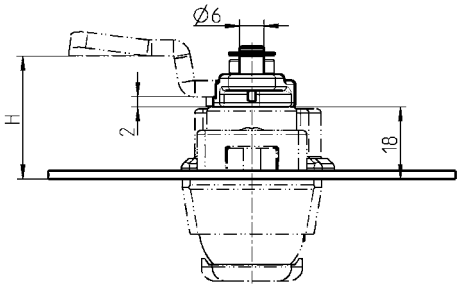
PROGRAM 1125, 1225, 1325, 2100, 3000

EDELSTAHL Rostfrei STAINLESS STEEL



Stroke 18 mm





Attention:
By using the rod control the H-dimension of the cam increases by 2 mm

Note:
The ramp increases the compression distance of the lock by 4 mm.

Further parts see page

– Cam (GH=18)	1C-120
– Ramp	1C-170
– Rod	
inside	3ZB-120
– Bearing bush	3YB-120 3YB-140

Rod control zinc die, zinc plated, circlip m.s. zinc plated	
	1107-U246
Rod control AISI 316	
	1107-U246-PH

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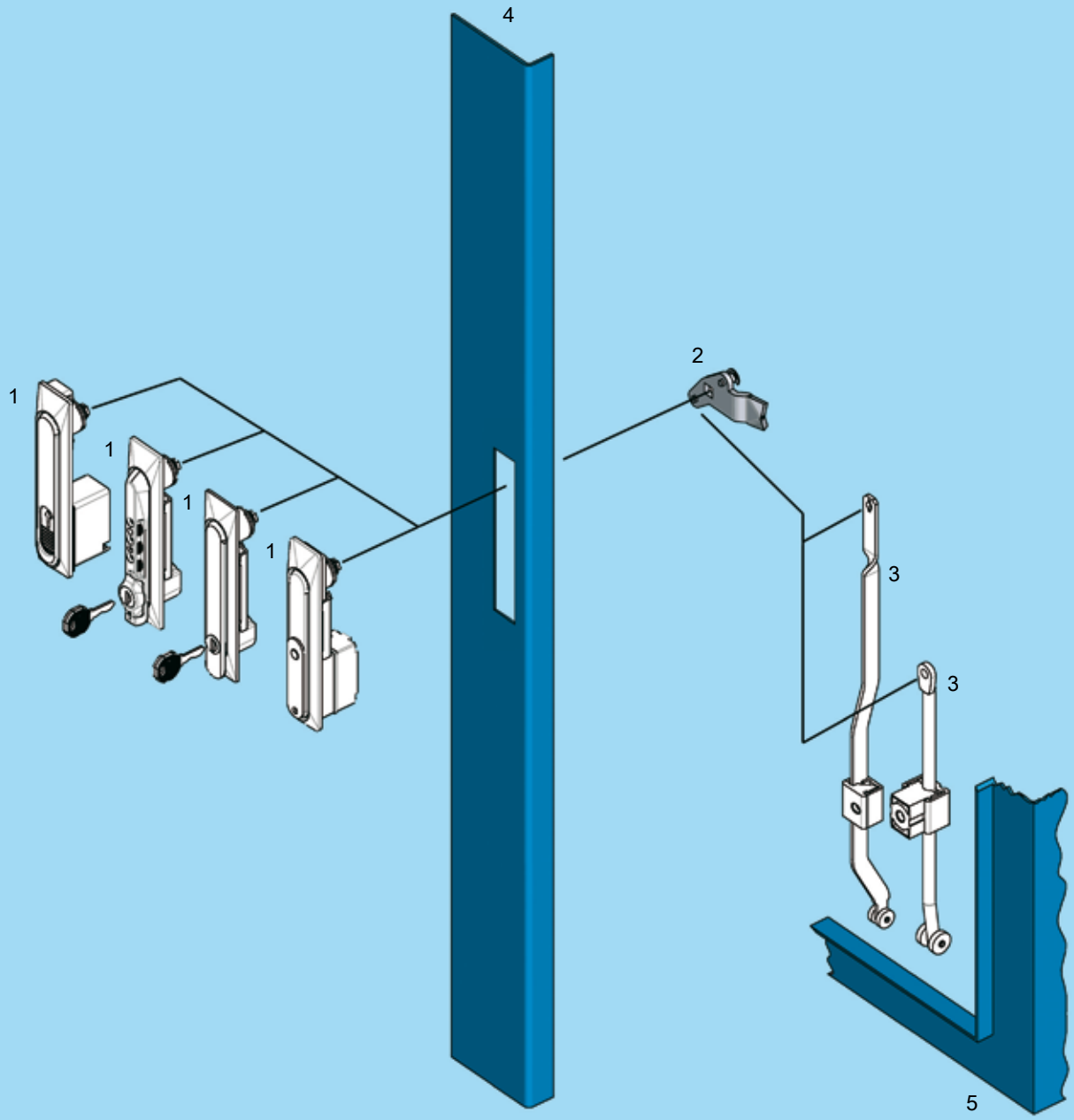
Cam
Program 1091, 1107, 1125



1 Swinghandle
2 Cam
3 Rod (inside the gasketing)
4 Door
5 Cabinet/frame

Program 1107, 1125, 1150, 1180, 1225, 1317, 1325
3YC-120, 3YC-140, 3YC-180

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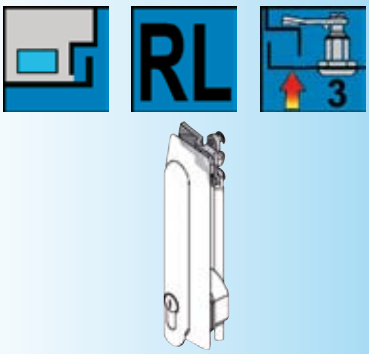
Cam

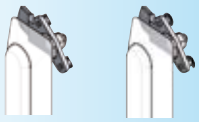
PROGRAM 1107, 1125, 1150, 1180, 1317, 1325



Further parts see page
– Ramp 1C-170

Program 1107, 1317
– Rod
inside from 3ZB-120
– Swing handle 1107 3A-120 to 3A-420
– Swing handle 1317 3AB-120 to 3AB-160

Program 1125
– Rod on request
– Swinghandle (Version B) 3B-320



Further parts see page
– Ramp 1C-170

Program 1107, 1317
– Rod
inside 3ZB-320
– Swing handle 1107 3A-120 up to 3A-420
– Swing handle 1317 3AB-120 up to 3AB-160

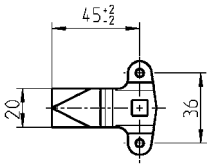
Program 1125
– Rod
inside 3ZB-440
– Swinghandle (Version B) 3B-320

Program 1150
– Rod
inside for swinghandle (3C-140, 3C-620 to 3C-750) 3ZB-520
inside for swinghandle (3C-160, 3C-220, 3C-260 to 3C-320) 3ZB-540
– Swinghandle 3C-140 up to 3C-320, 3C-620 up to 3C-750

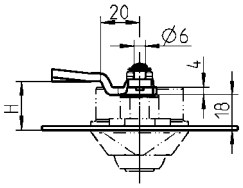
Program 1180
– Rod
inside 3ZB-620
– Swinghandle 1185 3E-520, 3E-450

Program 1325
– Rod
inside 3ZB-420
– Swinghandle 3BA-220

Cam with rivet pins
Stroke 18 mm

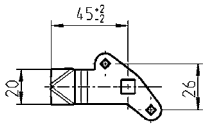


Attention:
Not suitable for program 1150!

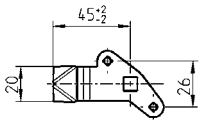


Cam m.s. zinc plated							
H		H		H		H	
4	1107-U112	18	1107-U119	30	1107-U124	42	1107-U131
6	1107-U113	20	1107-U120	32	1107-U125	44	1107-U132
8	1107-U114	22	1107-U5	34	1107-U126	45	1107-U133
10	1107-U115	24	1107-U121	35	1107-U127	47	1107-U134
13	1107-U116	25	1107-U122	36	1107-U128	50	1107-U135
14	1107-U117	26	1107-U123	38	1107-U129		
16	1107-U118	28	1107-U6	40	1107-U130		
2-point rod control, m.s. zinc pl.							
							1107-U88

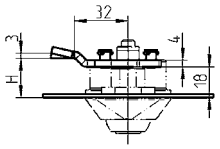
Cam with rivet pins
Stroke 26 mm

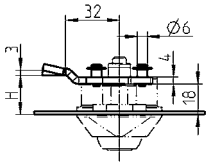


Version A: Cam with T rivets



Version B: Cam with round rivets





Version A: Cam m.s. zinc plated					
H	RH	LH	H	RH	LH
23	1000-U544-23	1000-U545-23	31	1000-U544-31	1000-U545-31
25	1000-U544-25	1000-U545-25	35	1000-U544-35	1000-U545-35
27	1000-U544-27	1000-U545-27	38	1000-U544-38	1000-U545-38
29	1000-U544-29	1000-U545-29			
2-point rod control, m.s. zinc pl.					
					1000-U632
Version B: Cam m.s. zinc plated					
H	RH	LH	H	RH	LH
23	1000-U661-23	1000-U662-23	31	1000-U661-31	1000-U662-31
25	1000-U661-25	1000-U662-25	35	1000-U661-35	1000-U662-35
27	1000-U661-27	1000-U662-27	38	1000-U661-38	1000-U662-38
29	1000-U661-29	1000-U662-29	40	1000-U661-40	1000-U662-40
Rod control m.s. zinc plated					
					1000-U663

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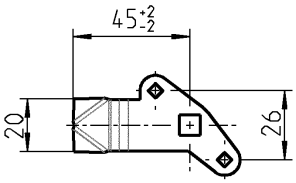
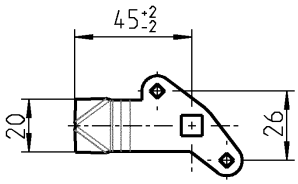
Cam

PROGRAM 1125, 1150, 1180, 1225

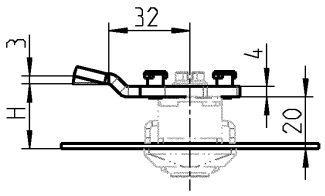
Cam with rivet pins
Stroke 26 mm
Program 1150, 1180

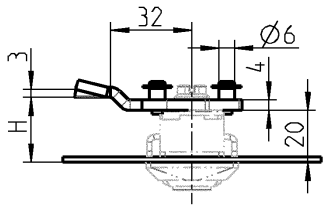


Version A: Cam with T rivets



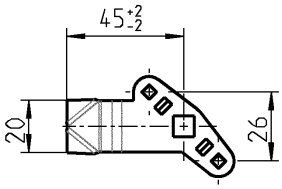
Version B: Cam with round rivets

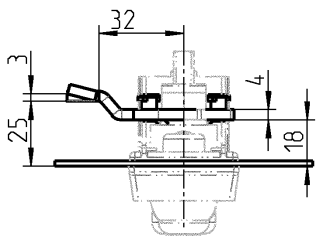




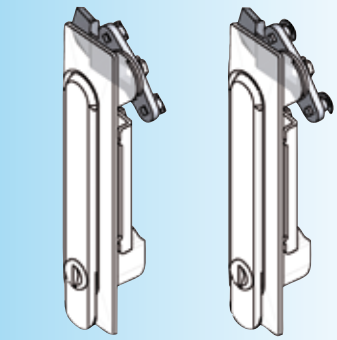
Version A: Cam m.s. zinc plated					
H	**RH**	**LH**	**H**	**RH**	**LH**
25	1000-U544-23	1000-U545-23	33	1000-U544-31	1000-U545-31
27	1000-U544-25	1000-U545-25	37	1000-U544-35	1000-U545-35
29	1000-U544-27	1000-U545-27	40	1000-U544-38	1000-U545-38
31	1000-U544-29	1000-U545-29			
2-point rod control, m.s. zinc pl.					
					1000-U632
Version B: Cam m.s. zinc plated					
H	**RH**	**LH**	**H**	**RH**	**LH**
25	1000-U661-23	1000-U662-23	33	1000-U661-31	1000-U662-31
27	1000-U661-25	1000-U662-25	37	1000-U661-35	1000-U662-35
29	1000-U661-27	1000-U662-27	40	1000-U661-38	1000-U662-38
31	1000-U661-29	1000-U662-29	42	1000-U661-40	1000-U662-40
Rod control m.s. zinc plated					
					1000-U663

Cam with rivet pins
Stroke 26 mm
Program 1125, 1225





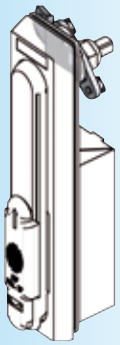
Version B: Cam m.s. zinc plated		
H	**RH**	**LH**
25	1107-U242-25	1107-U243-25



Further parts see page
– Ramp 1C-170

Program 1150
– Rod
inside for swinghandle 1150 (3C-120) 3ZB-520
inside for swinghandle 1151 (3C-420) 3ZB-540
– Swinghandle 1150 3C-120
– Swinghandle 1151 3C-420

Program 1180
– Rod
inside 3ZB-620
– Swinghandle 1180 3E-320



Further parts see page
– Ramp 1C-170

Program 1125
– Rod
inside 3ZB-440
– Swinghandle (Version C) 3B-320

Program 1225
– Rod
inside 3ZB-720
– Swinghandle 3G-320

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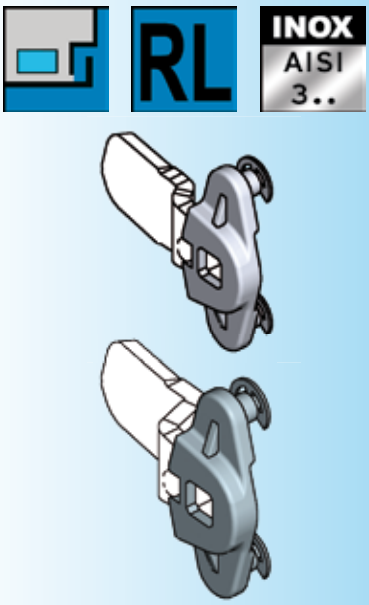
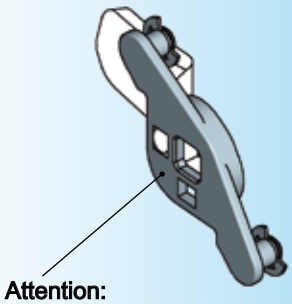
Rod control for cam

PROGRAM 1091, 1107, 1125, 1150, 1317, 1325



Attention:
By using the rod control the H-dimension of the cam increases by 2 mm



Attention:
Use only rod with eye!

Further parts see page

– Cam (GH=18)	1C-120
– Ramp	1C-170
– Rod	
inside (see note)	3ZB-120

Program 1091

– Heavy duty latch	10A-640

Program 1107, 1317

– Swing handle 1107	3A-120
up to	3A-420
– Swing handle 1317	3AB-120
to	3AB-160

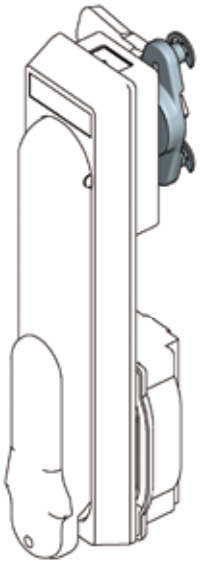
Program 1125, 1325

– Swing handle 1125 (version B)	3B-320
– Swing handle 1325	3BA-220

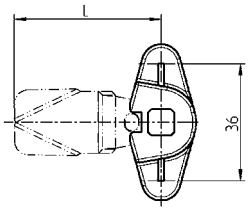
Program 1150

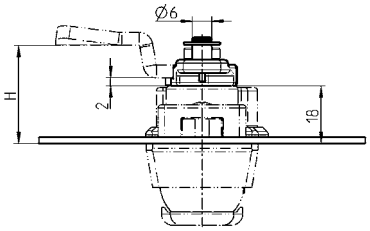
– Swinghandle 1154	3C-220
– Swinghandle 1154 with WK2	3C-260

EDELSTAHL Rostfrei STAINLESS STEEL



Stroke 18 mm

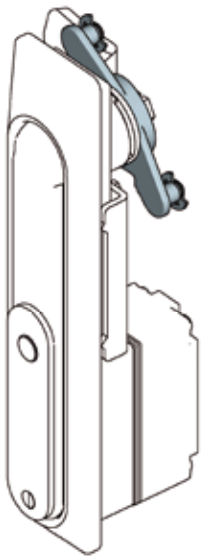




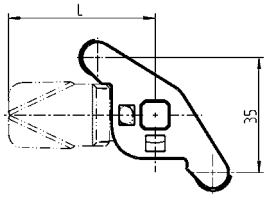
Note:
Rod for rod control combined with swinghandle 1125 double cylinder Version B and swinghandle 1154 with WK 2 on request only!

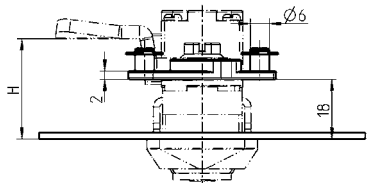
Rod control zinc die, zinc plated, circlip m.s. zinc plated	
	1107-U246
Rod control AISI 316	
	1107-U246-PH

EDELSTAHL Rostfrei STAINLESS STEEL



Stroke 35 mm





Note:
Rod for rod control combined with swinghandle 1125 double cylinder Version B and swinghandle 1154 with WK 2 on request only!

Rod control AISI 316	
	1150-U57

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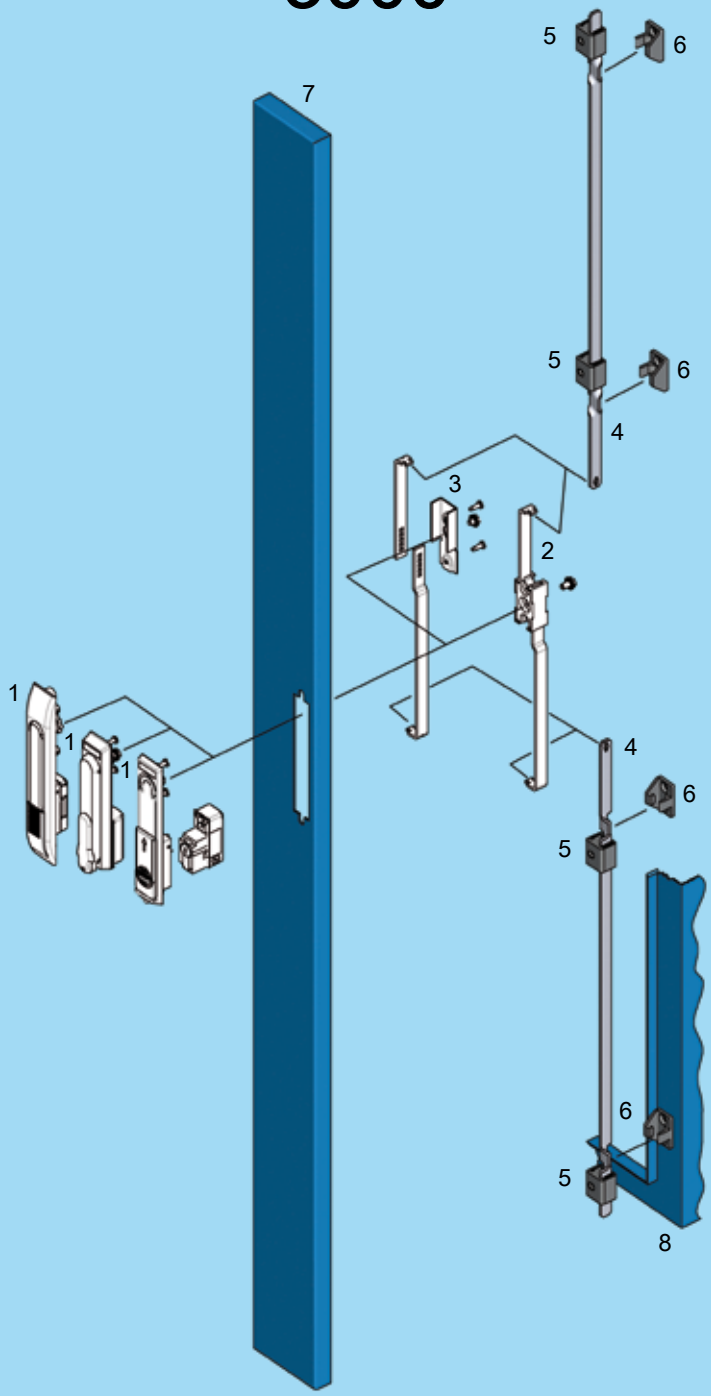
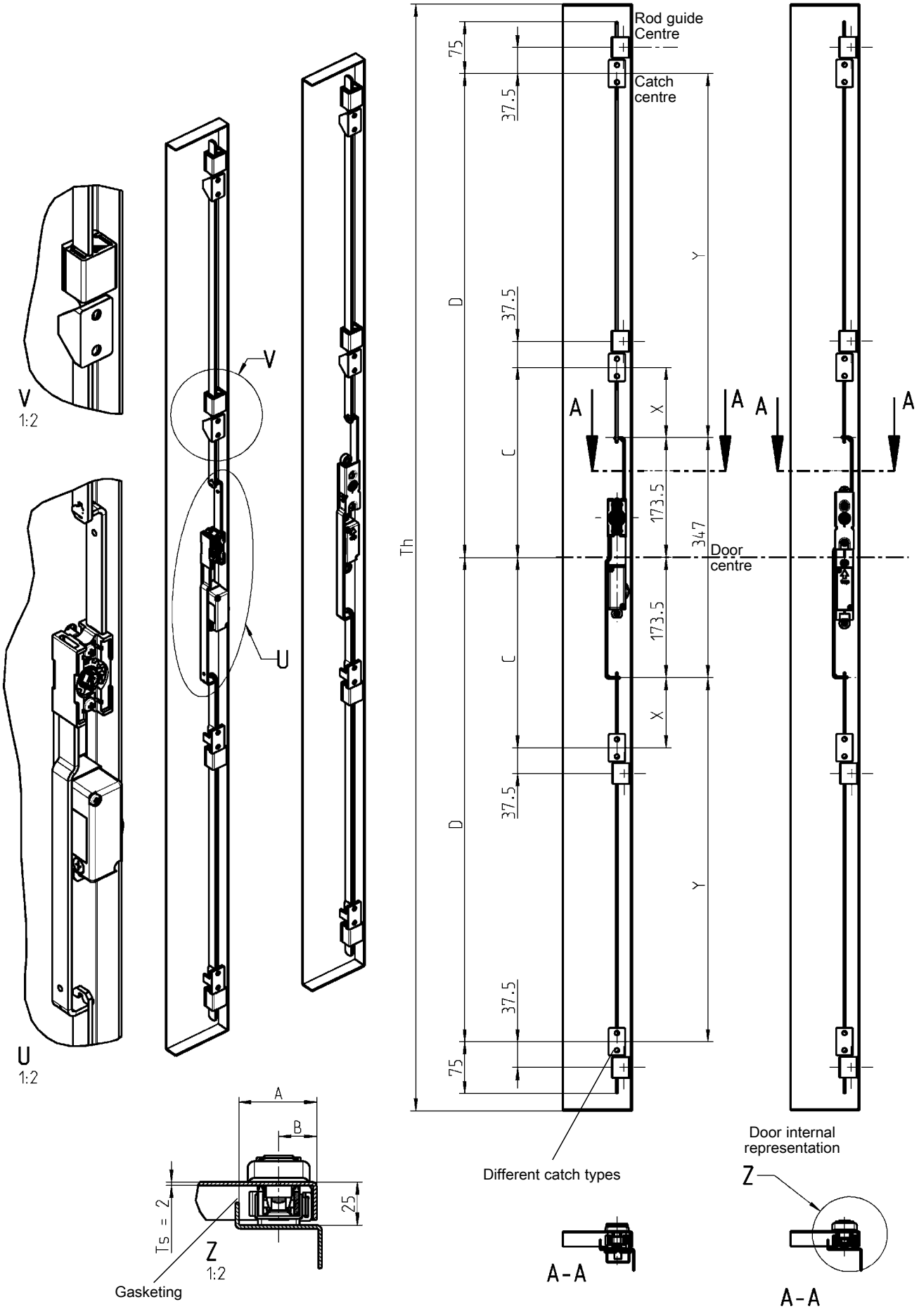
Rod and lock rod outside the gasketing
Program 1125, 1150, 1160, 1180, 1190, 1225, 1325, 2100, 2300, 2400, 2600, 3000



1 Swinghandle and escutcheon program 1125, 1150, 1160, 1180, 1190, 1225, 1325, 2100, 2300,2400, 2600, 3000
2 Rod control
3 Rod control
4 Rod for rod control / rod gear (outside the gasketing)
5 Rod guide
6 Catches
7 Door
8 Housing/frame

Rods

PROGRAM 1125, 1150, 1160, 1180, 1190, 1225, 1325, 2100, 3000



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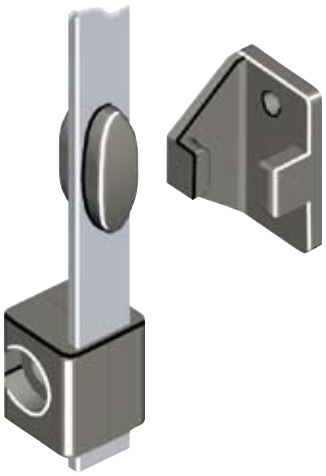
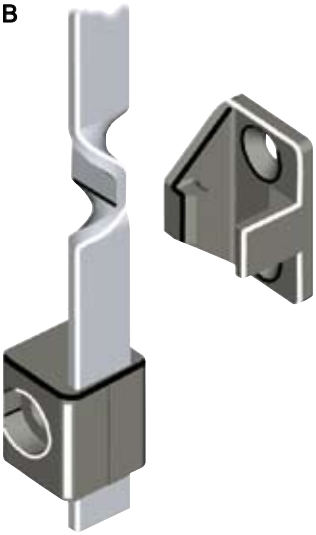
4 different locking systems

A



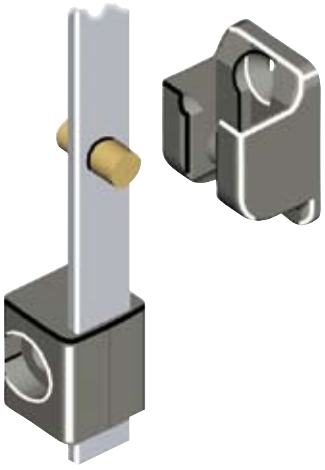
Rod with locking slider
see catalogue page 3ZA-220

B



Twisted rod
see catalogue page 3ZA-220

C



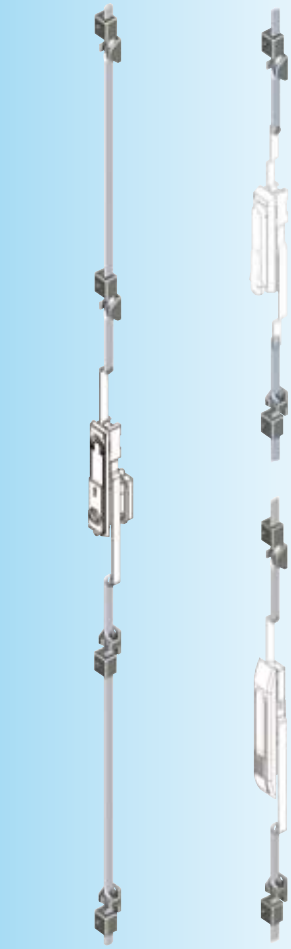
Rod with double rollers
see catalogue page 3ZA-260

D

Rod with cut-out
see catalogue page 3ZA-260

Attention:
Suitable for use with the 90° turn - see catalogue page 3ZA-1120

PROGRAM	Dimension A	Dimension B
1125	45	23
1150	45	22
1160	45	22
1180	45	22
1190	42	20
1225	45	23
1325	45	23
2100	45	22



Further parts see page

– Rods with turn 3ZA-1120

Program 1160
– Swinghandle and escutcheon 3D-120 3D-140

Program 1180
– Swinghandle and escutcheon 3E-120 3E-140
– Rod control 3YA-480

Program 1190
– Swinghandle 3F-120
– Escutcheon 3F-220

Program 1125, 1150, 1225, 1325, 3000
– Rod control 3YA-110 3YA-120

Program 1150
– Rod control 3YA-420 3YA-440

Program 2100
– Rod control 3YA-520

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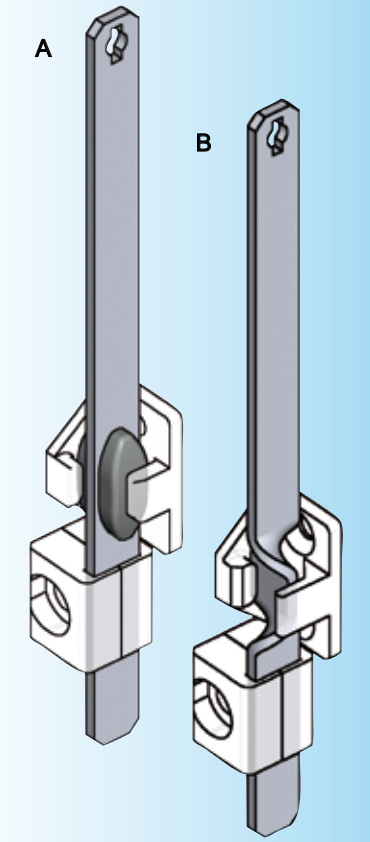
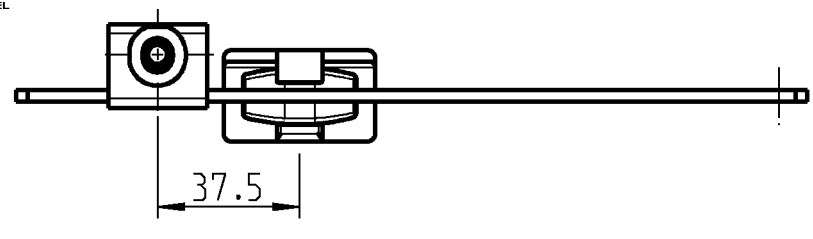
Overview of rods

PROGRAM 1125 - 3000

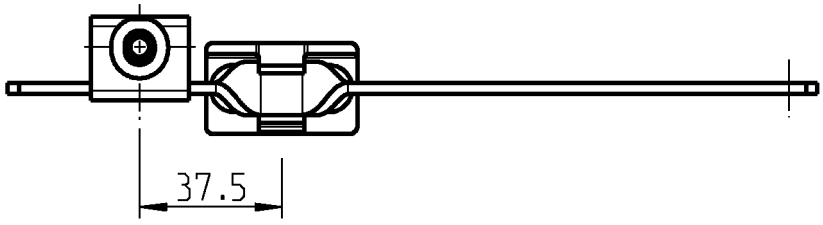


Note:
For dimensions see table on catalogue page 3ZA-120



A

Door height Th	Rods Dim. X	Rods Dim. Y	Locking points (door centre) Dim. C	Locking points (door centre) Dim. D	Rod material as requested; locking slider polyamide GF black Material	Part no.
800-1200	–	126,5	–	300	m.s. alum. AISI 304	1121-U99 1121-U100 1121-U101
1200-1600	–	276,5	–	450	m.s. alum. AISI 304	1121-U105 1121-U106 1121-U107
1600-1900	101,5	526,5	275	700	m.s. alum. AISI 304	1121-U111 1121-U112 1121-U113
1900-2200	101,5	676,5	275	850	m.s. alum. AISI 304	1121-U117 1121-U118 1121-U119



B

Door height Th	Rods Dim. X	Rods Dim. Y	Locking points (door centre) Dim. C	Locking points (door centre) Dim. D	Rod material as requested Material	Part no.
800-1200	–	126,5	–	300	m.s. alum. AISI 304	1121-71-01RA 1121-71-01TA 1121-71-01PC
1200-1600	–	276,5	–	450	m.s. alum. AISI 304	1121-71-03RA 1121-71-03TA 1121-71-03PC
1600-1900	101,5	526,5	275	700	m.s. alum. AISI 304	1121-71-05RA 1121-71-05TA 1121-71-05PC
1900-2200	101,5	676,5	275	850	m.s. alum. AISI 304	1121-71-07RA 1121-71-07TA 1121-71-07PC

Further parts see page
– Catches 3ZA-1220
– Rod guide 3ZC-120 to 3ZC-170

Program 1160
– Swinghandle and escutcheon 3D-120 3D-140

Program 1180
– Swinghandle and escutcheon 3E-120 3E-140
– Rod control 3YA-480

Program 1190
– Swinghandle 3F-120
– Escutcheon 3F-220

Program 1125, 1150, 1225, 1325, 3000
– Rod control 3YA-110 3YA-120

Program 1150
– Rod control 3YA-420 3YA-440

Program 2100
– Rod control 3YA-520

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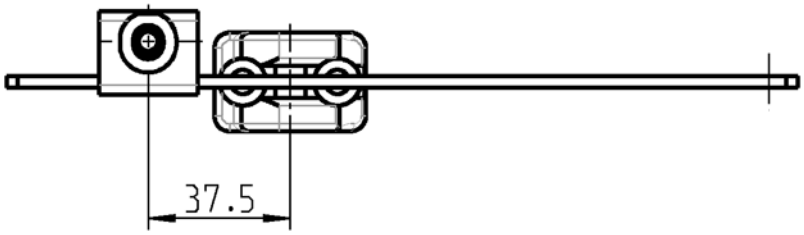
Overview of rods

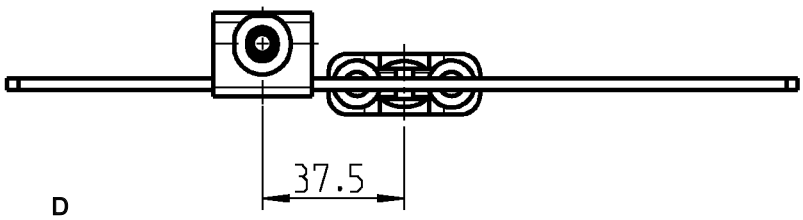
PROGRAM 1125 - 3000

EDELSTAHL Rostfrei STAINLESS STEEL



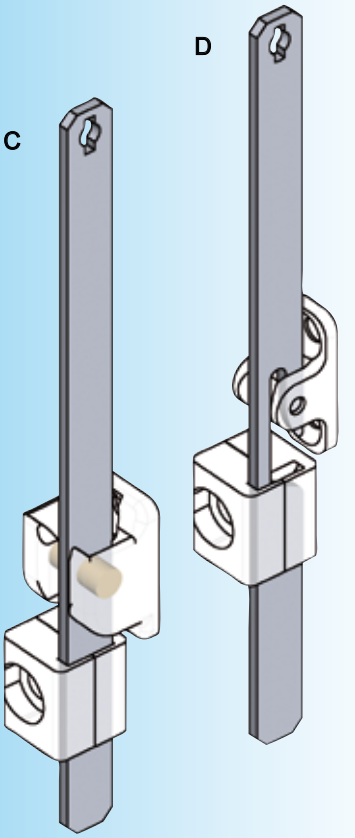
C

Door height Th	Rods Dim. X	Rods Dim. Y	Locking points (door centre) Dim. C	Locking points (door centre) Dim. D	Rod material as requested; double roller brass Material	Part no.
800-1200	–	126,5	–	300	m.s.	1121-U155
					alum.	on request
					AISI 304	on request
1200-1600	–	276,5	–	450	m.s.	1121-U158
					alum.	on request
					AISI 304	on request
1600-1900	101,5	526,5	275	700	m.s.	1121-U161
					alum.	on request
					AISI 304	on request
1900-2200	101,5	676,5	275	850	m.s.	1121-U164
					alum.	on request
					AISI 304	on request



D

Door height Th	Rods Dim. X	Rods Dim. Y	Locking points (door centre) Dim. C	Locking points (door centre) Dim. D	Rod material as requested Material	Part no.
800-1200	–	126,5	–	300	m.s.	1121-68-01RA
					alum.	–
					AISI 304	–
1200-1600	–	276,5	–	450	m.s.	1121-68-03RA
					alum.	–
					AISI 304	–
1600-1900	101,5	526,5	275	700	m.s.	1121-68-05RA
					alum.	–
					AISI 304	–
1900-2200	101,5	676,5	275	850	m.s.	1121-68-07RA
					alum.	–
					AISI 304	–



Note:
For dimensions see table on catalogue page 3ZA-120

Further parts see page
– Catches 3ZA-1220 3ZA-1240
– Rod guide 3ZC-120 to 3ZC-170

Program 1160
– Swinghandle and escutcheon 3D-120 3D-140

Program 1180
– Swinghandle and escutcheon 3E-120 3E-140
– Rod control 3YA-480

Program 1190
– Swinghandle 3F-120
– Escutcheon 3F-220

Program 1125, 1150, 1225, 1325, 3000
– Rod control 3YA-110 3YA-120

Program 1150
– Rod control 3YA-420 3YA-440

Program 2100
– Rod control 3YA-520

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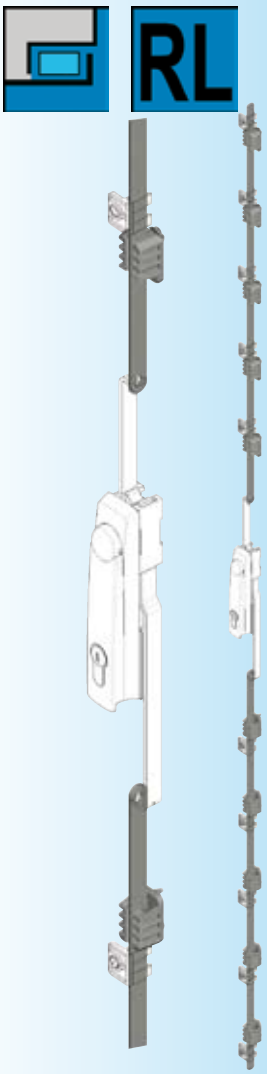
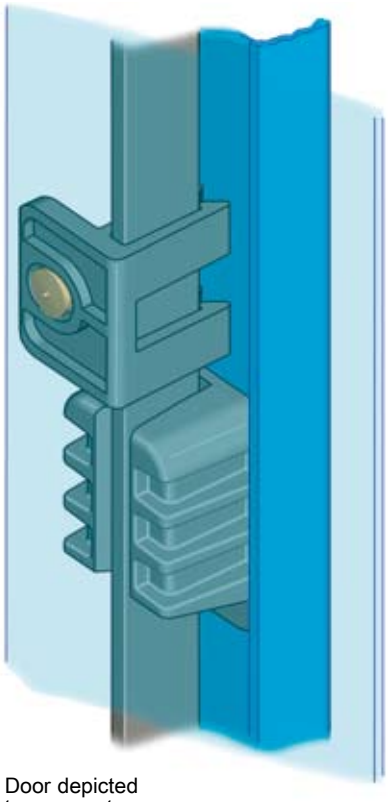
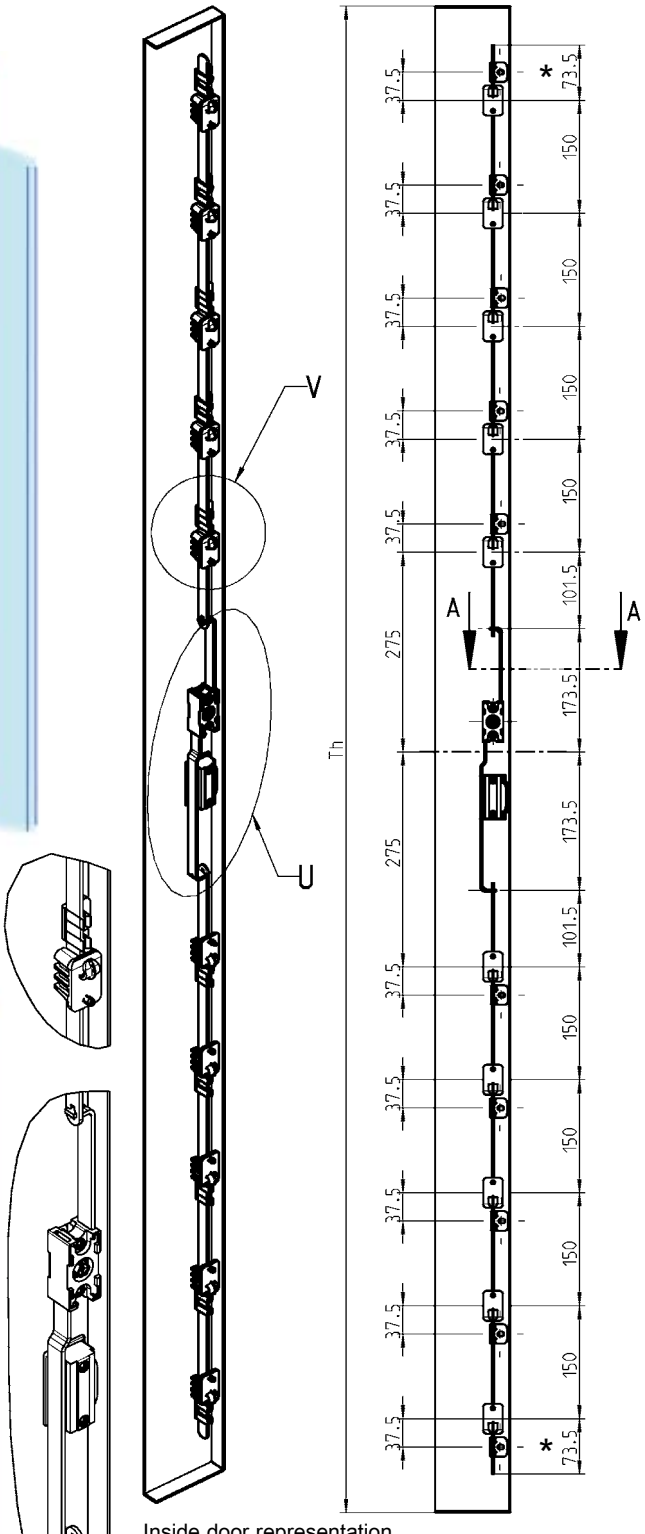
Rod in PA

PROGRAM 1125 - 3000

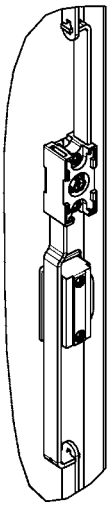


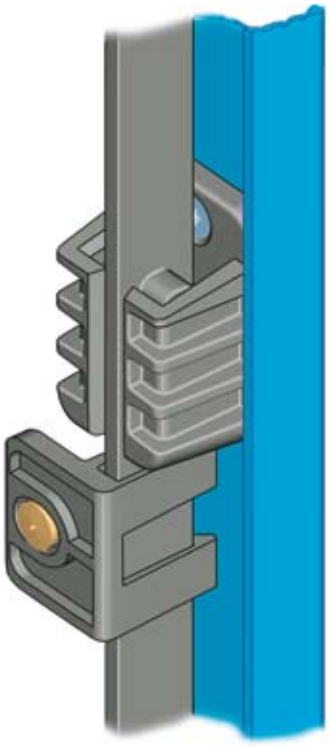


Door depicted transparent



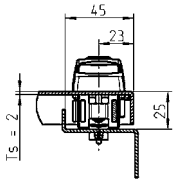
Inside door representation





Depiction without door

* = min length in case of shortened rods



Rod with locking slider see catalogue page 3ZA-340

Further parts see page

– Catches	3ZA-340
– Rod guide	3ZC-120 to 3ZC-170
Program 1160	
– Swinghandle and escutcheon	3D-120 3D-140
Program 1180	
– Swinghandle and escutcheon	3E-120 3E-140
– Rod control	3YA-320
Program 1190	
– Swinghandle	3F-120
– Escutcheon	3F-220
Program 1125, 1150, 1225, 1325, 3000	
– Rod control	3YA-120
Program 1150	
– Rod control	3YA-420 3YA-440
Program 2100	
– Rod control	3YA-520

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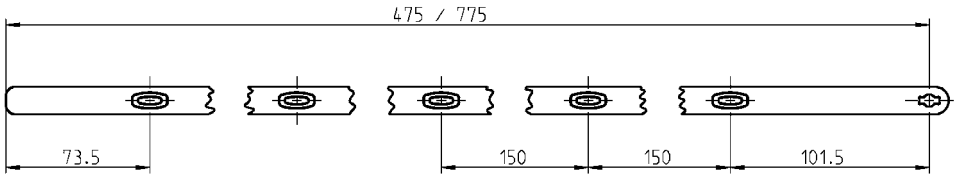
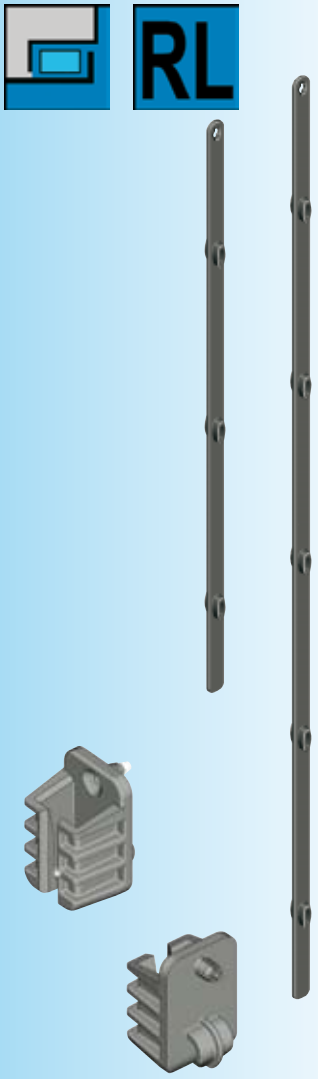
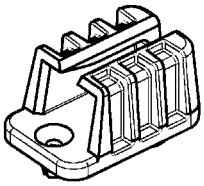
Rods, Catches

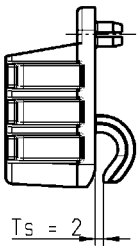
PROGRAM 1125 - 3000

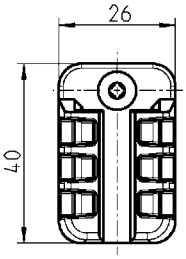


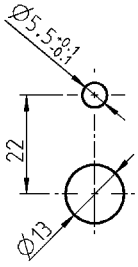


Rod with locking slider polyamide black			
Door height Th	**Locking points**	**Rod length**	* = Rod has to be shortened!
800-1300	2-3	475 *	1121-115
1300-1600	3	475	1121-115
1600-1900	4-5	775 *	1121-115-01
1900-2200	5	775	1121-115-01









Cut out

Catch polyamide black	
for counter sunk screw Ø 3,5 x 13	1121-116-01
Counter sunk screw 3,5 x 13	
	000104

Further parts see page
– Rod guide 3ZC-120 to 3ZC-170

Program 1160
– Swinghandle and escutcheon 3D-120, 3D-140

Program 1180
– Swinghandle and escutcheon 3E-120, 3E-140
– Rod control 3YA-320

Program 1190
– Swinghandle 3F-120
– Escutcheon 3F-220

Program 1125, 1150, 1225, 1325, 3000
– Rod control 3YA-120

Program 1150
– Rod control 3YA-420, 3YA-440

Program 2100
– Rod control 3YA-520

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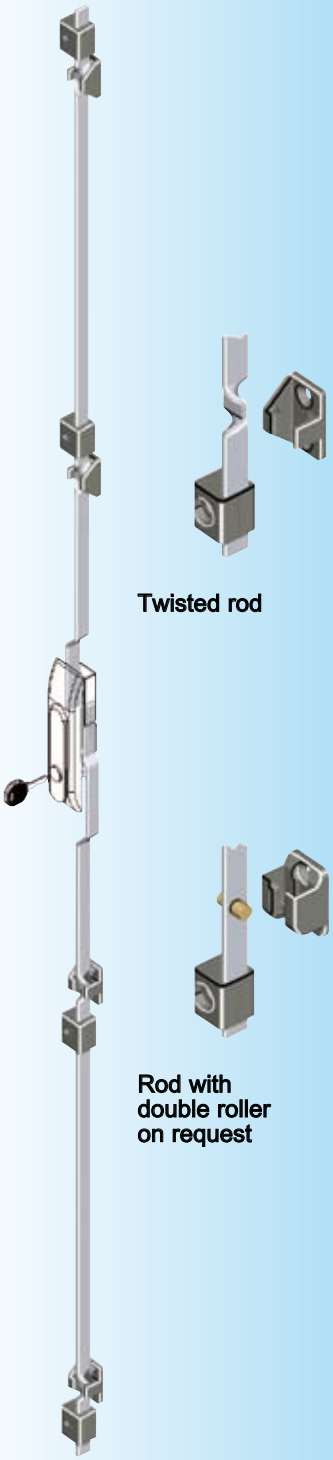
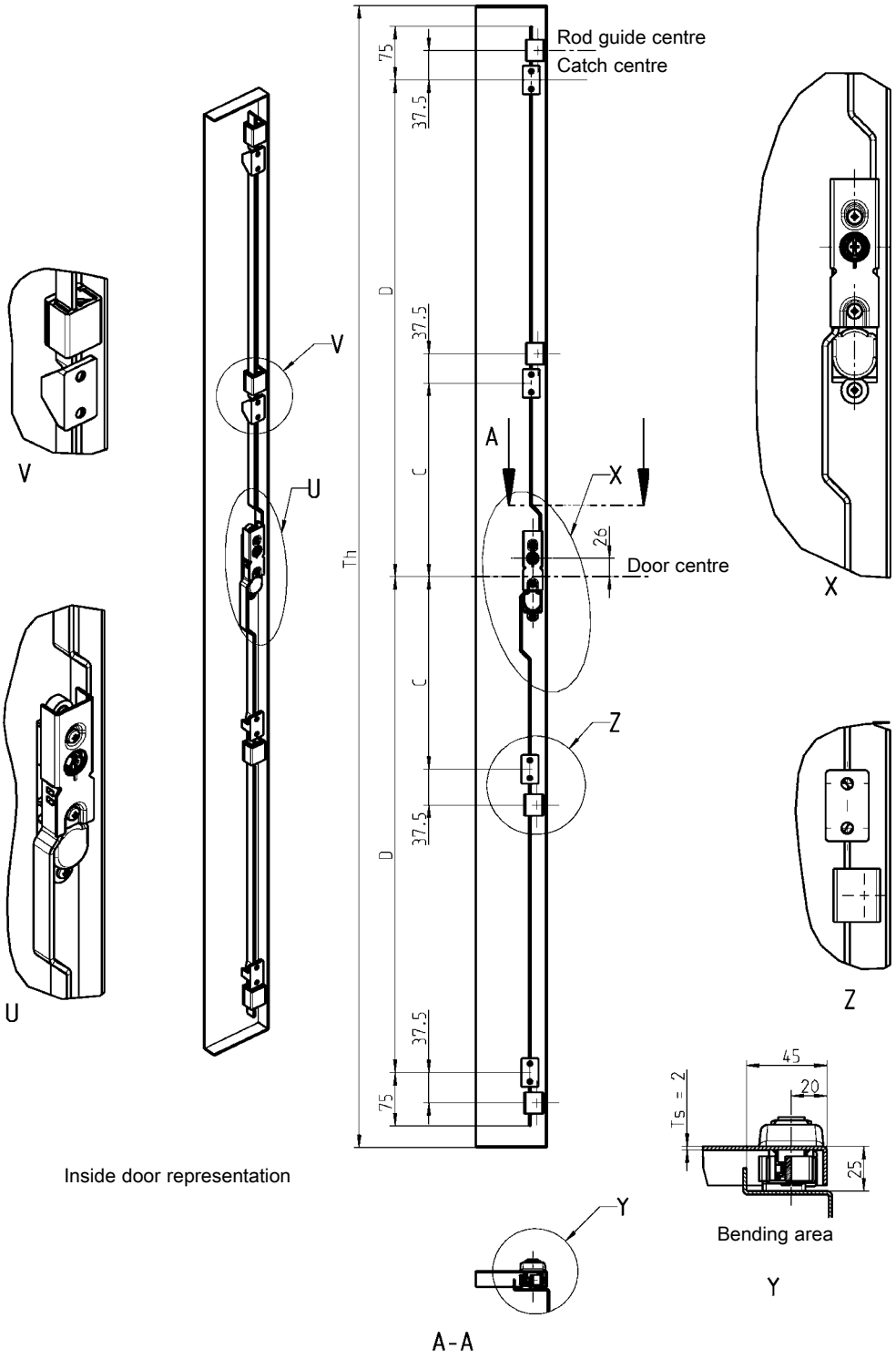
Twisted rod

PROGRAM 1160



Twisted rod

Rod with double roller on request



Door height	Locking points (door centre)		Part no. Rods Upper rod		Part no. Rods Lower rod	
Th	Dim. C	Dim. D	m.s. zinc pl.	alum.	m.s. zinc pl.	alum.
800-1200	–	300	1160-08-01RA	on request	1160-09-01RA	on request
1200-1600	–	450	1160-08-03RA	on request	1160-09-03RA	on request
1600-1900	275	700	1160-08-05RA	on request	1160-09-05RA	on request
1900-2200	275	850	1160-08-07RA	on request	1160-09-07RA	on request

Further parts see page

– Catches	3ZA-1220
– Rod guide	3ZC-120 to 3ZC-170

Program 1160

– Swinghandle and escutcheon	3D-220

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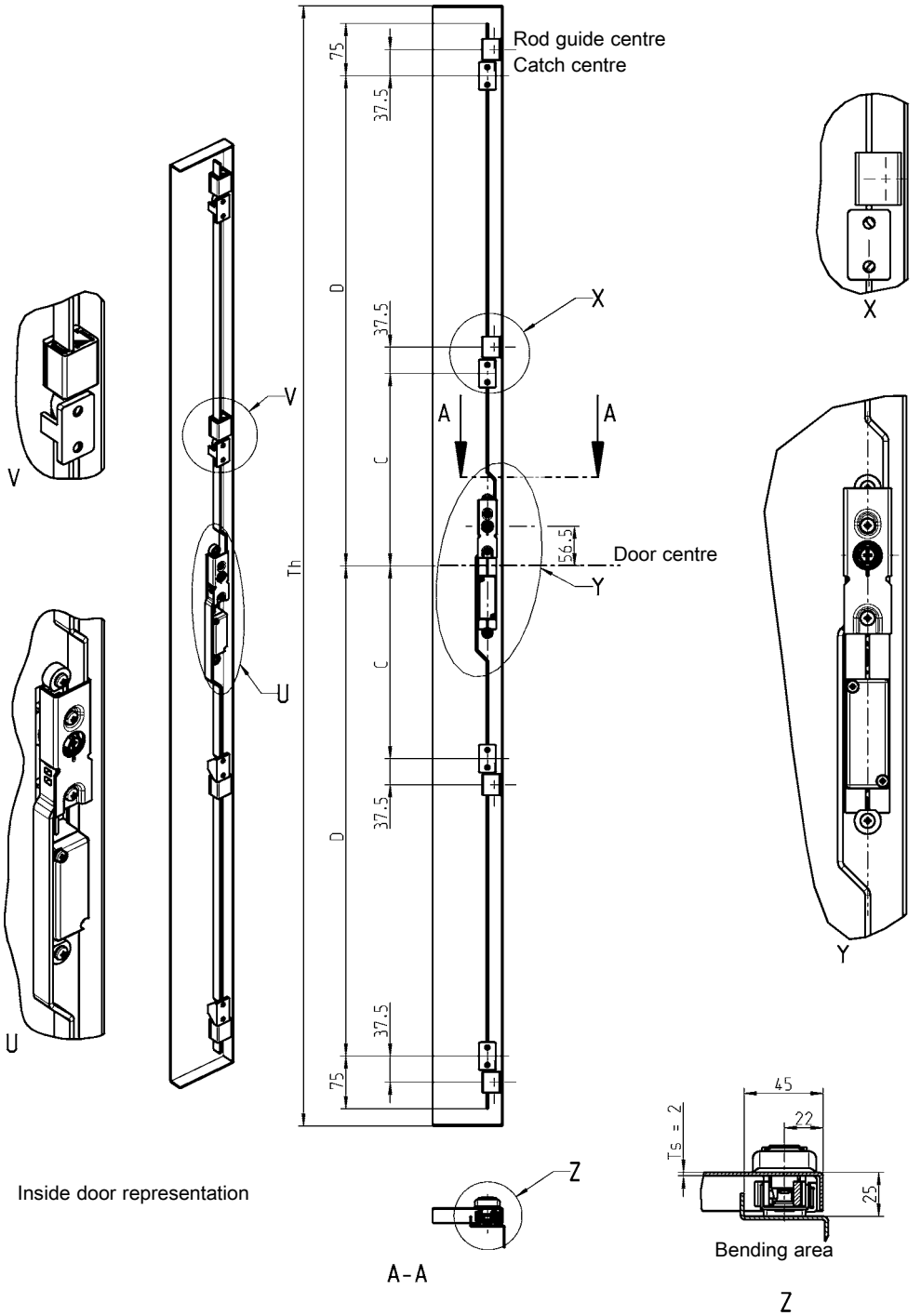
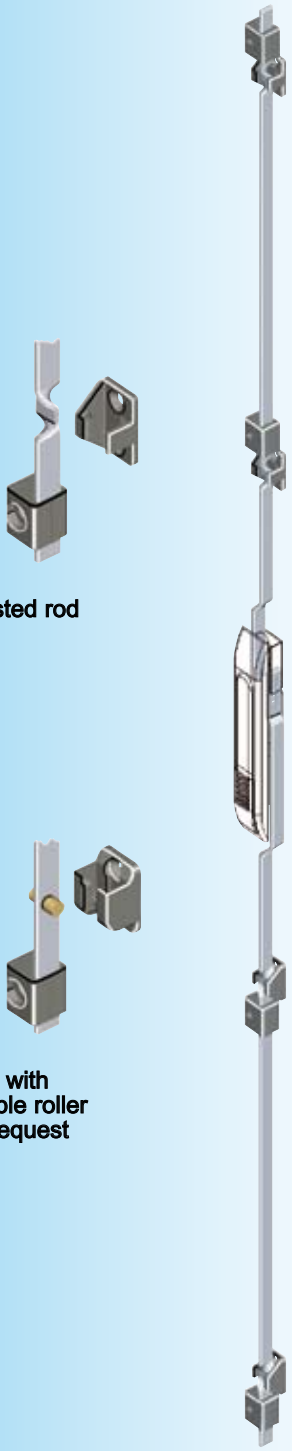
Twisted rod

PROGRAM 1180



Inside door representation



Twisted rod

Rod with double roller on request

Door height	Locking points (door centre)		Part no. Rods Upper rod		Part no. Rods Lower rod	
Th	Dim. C	Dim. D	m.s. zinc pl.	alum.	m.s. zinc pl.	alum.
800-1200	–	300	1180-08-01RA	on request	1180-09-01RA	on request
1200-1600	–	450	1180-08-03RA	on request	1180-09-03RA	on request
1600-1900	275	700	1180-08-05RA	on request	1180-09-05RA	on request
1900-2200	275	850	1180-08-07RA	on request	1180-09-07RA	on request

Further parts see page

– Catches	3ZA-1220
– Rod guide	3ZC-120 to 3ZC-170

Program 1180

– Swinghandle and escutcheon	3E-220

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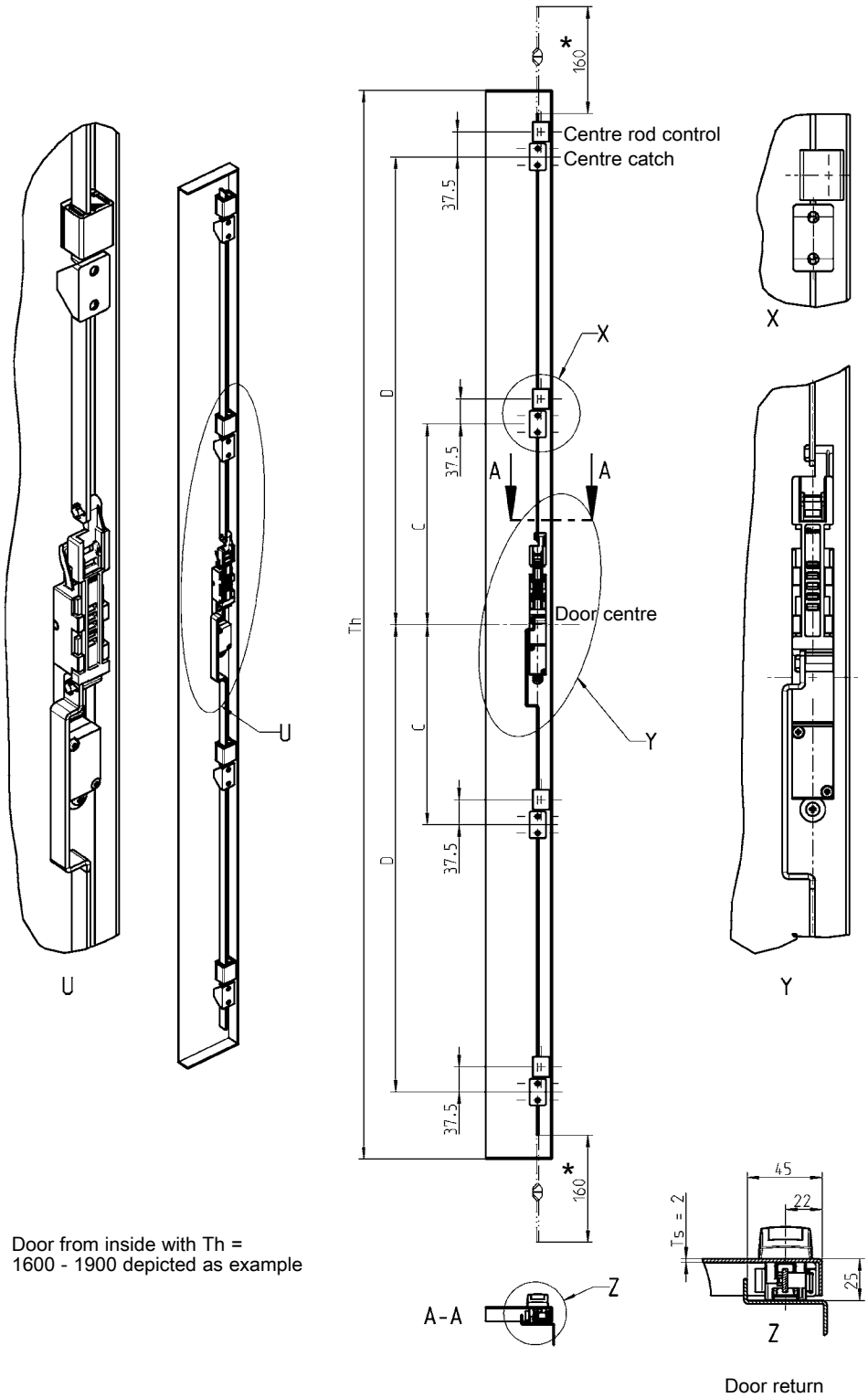
Notes:

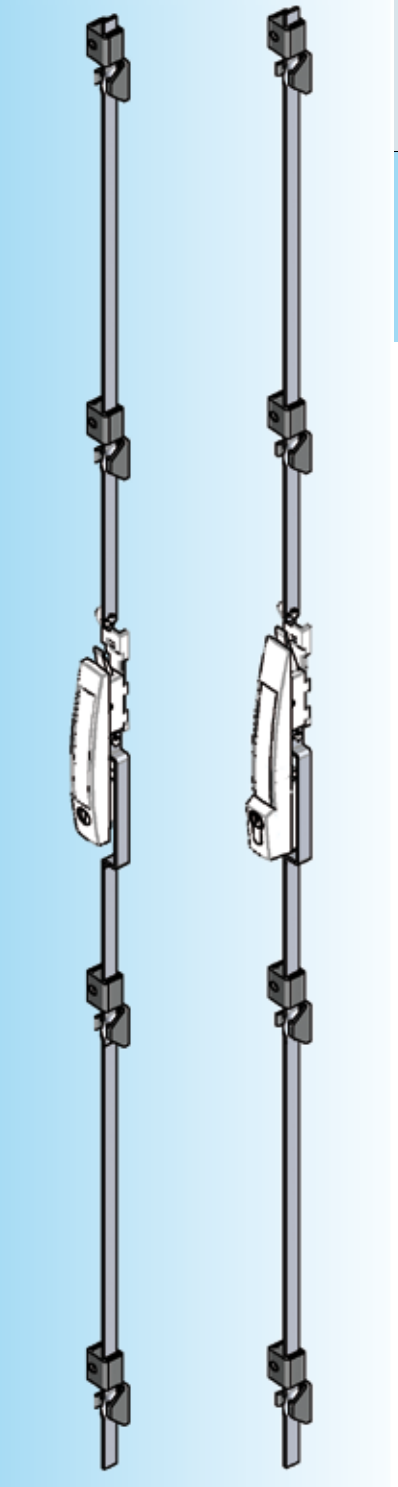
Rods twisted

PROGRAM 1190



Door from inside with Th = 1600 - 1900 depicted as example

Door return



Door height Th	Locking points (centre door) Dim. C	Dim. D	Item no. rod m.s. zinc plated	A1	Item no. rod m.s. zinc plated	A1
800-1200	–	300	1190-25-01JB*	1190-25-01TA*	1190-25-02JB*	1190-25-02TA*
1200-1600	–	450	1190-25-01JB	1190-25-01TA	1190-25-02JB	1190-25-02TA
1600-1900	300	700	1190-27-01JB*	1190-27-01TA*	1190-27-02JB*	1190-27-02TA*
1900-2200	300	850	1190-27-01JB	1190-27-01TA	1190-27-02JB	1190-27-02TA

* Flat rod has to be cut

Further parts see page
– Catch 3ZA-1220
– Rod control 3ZC-120 to 3ZC-170

Program 1190
– Swinghandle 3F-320, 3F-330

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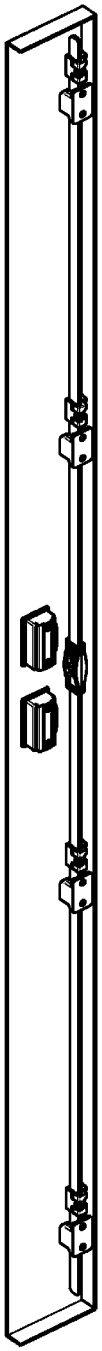
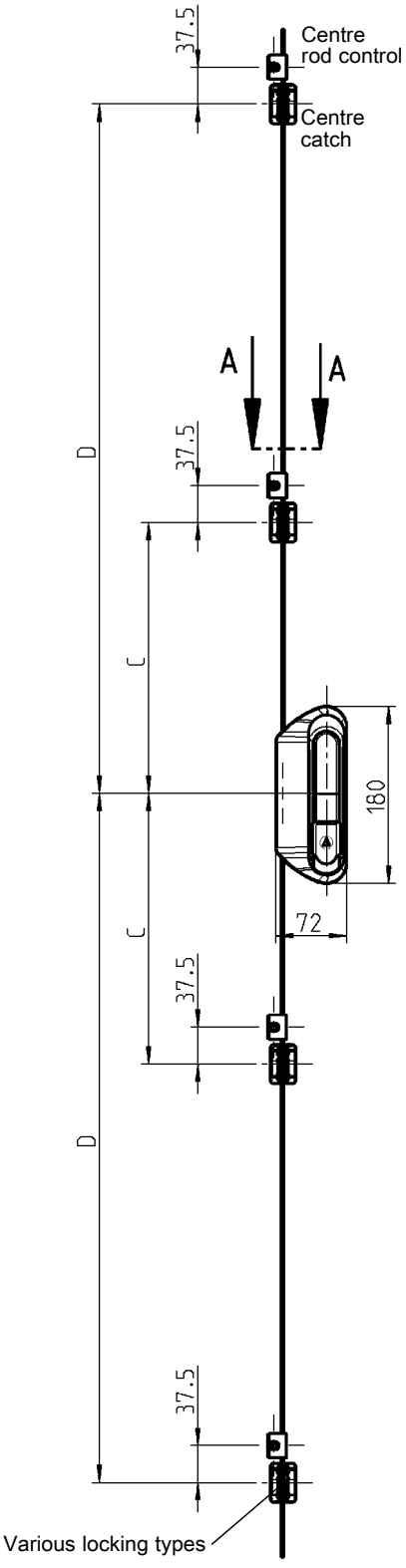
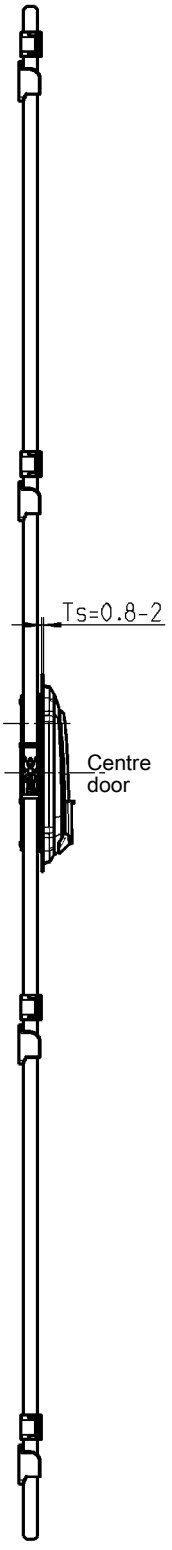
Rods for narrow door return

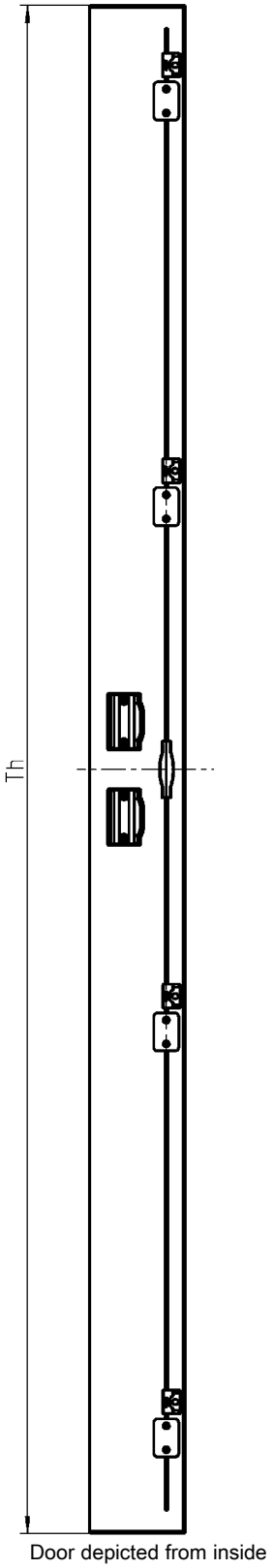
PROGRAM 1325



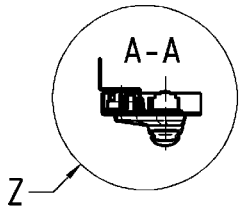


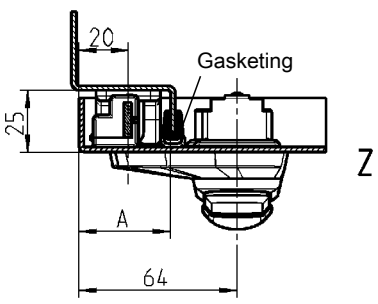
depicted without door





Door depicted from inside





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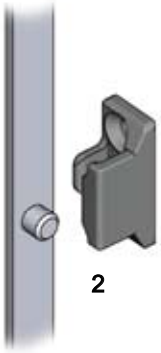
Locking types

Rod with cut out



Rod with single roller

Rod with double roller

Locking type	Dim. A	Item	Page	Item no.
1	33	Catch	3ZA-1220	1121-U76
		Rod control	3ZC-120 3ZC-140	1121-89-11 1121-106
		Rod with cut out	see below	
		Hinge	* see bottom right corner	
2	33	Catch	3ZA-920	2600-12
		Rod control	3ZC-120 3ZC-140	1121-89-11 1121-106
		Rod with single roller	see below	
		Hinge	* see bottom right corner	
3	37	Catch	3ZA-1220	1121-18-02
		Rod guide	3ZC-120 3ZC-140	1121-89-11 1121-106
		Rod with double roller	see below	
		Hinge	* see bottom right corner	

Door height	Locking Points (centre door)		Rod	
Th	Dim. C	Dim. D	Locking type	Item no.
800-1200	–	300	1	on request
			2	on request
			3	on request
1200-1600	–	450	1	on request
			2	on request
			3	on request
1600-1900	275	700	1	on request
			2	on request
			3	on request
1900-2200	275	850	1	on request
			2	on request
			3	on request

* Fixing of hinge with countersunk screws

Further parts see page

Hinge suitable for the locking types 1, 2 and 3
- 125° hinge 4A-136
- 180° hinge (bottom) 4A-140
- 180° hinge 4A-145

also suitable for locking type 3
- 180° hinge (26 mm door return) 4A-170
- 180° hinge (26 mm door return) 4A-210

Program 1325
- Swing handle for narrow door return 3BA-320

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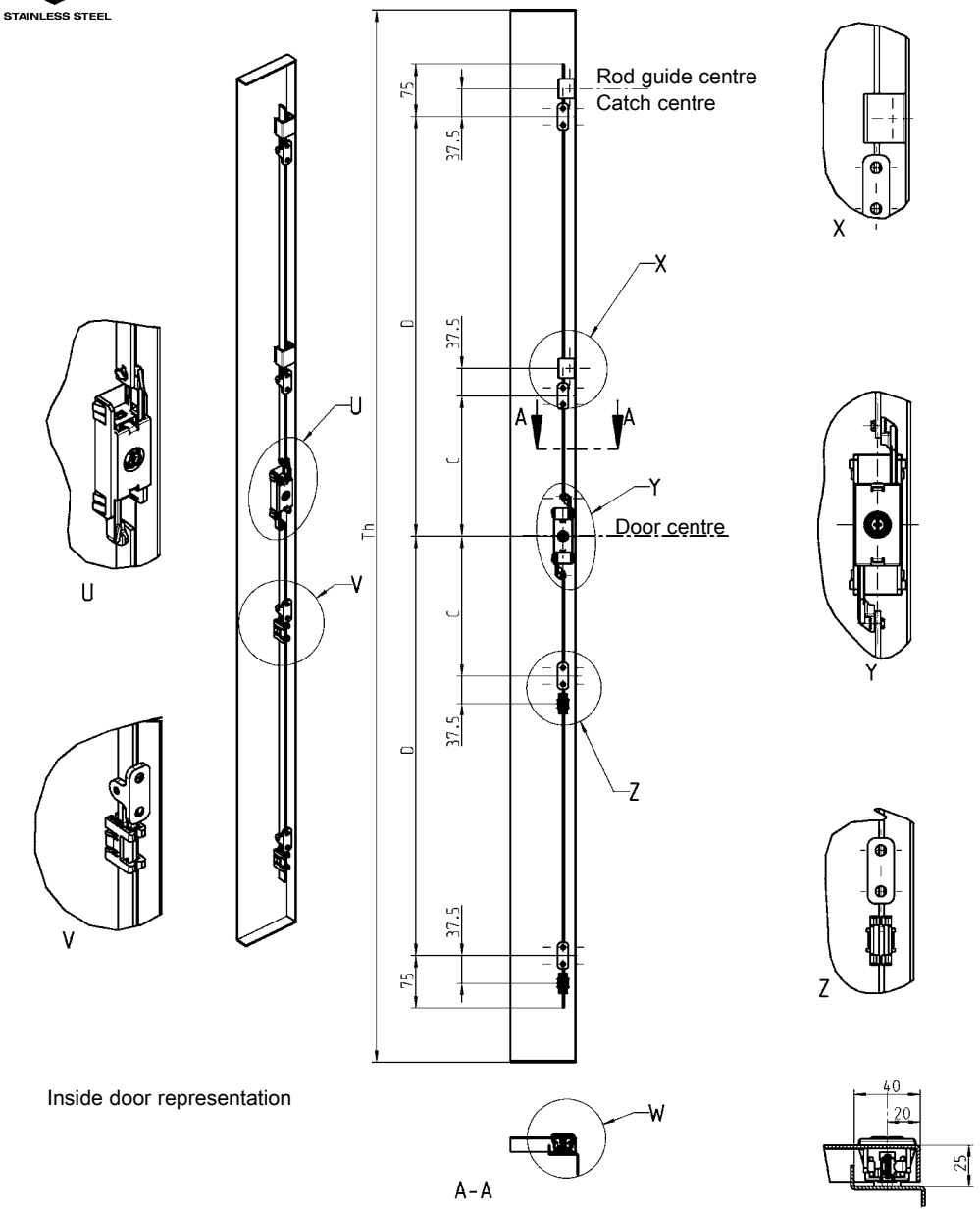
Rods with cut out

PROGRAM 2300

EDELSTAHL Rost frei® STAINLESS STEEL

Rod with cut out



Inside door representation

Door height	Locking points (door centre)		Part no. Rods Upper and Lower	
Th	Dim. C	Dim. D	m.s. zinc pl.	AISI 304
800-1200	–	300	2300-06-11RA	on request
1200-1600	–	450	2300-06-13RA	on request
1600-1900	275	700	2300-06-15RA	on request
1900-2200	275	850	2300-06-17RA	on request

Further parts see page
– Catches 3ZA-1220
– Rod guide 3ZC-120 to 3ZC-170

Program 2300
– Escutcheon 3J-120

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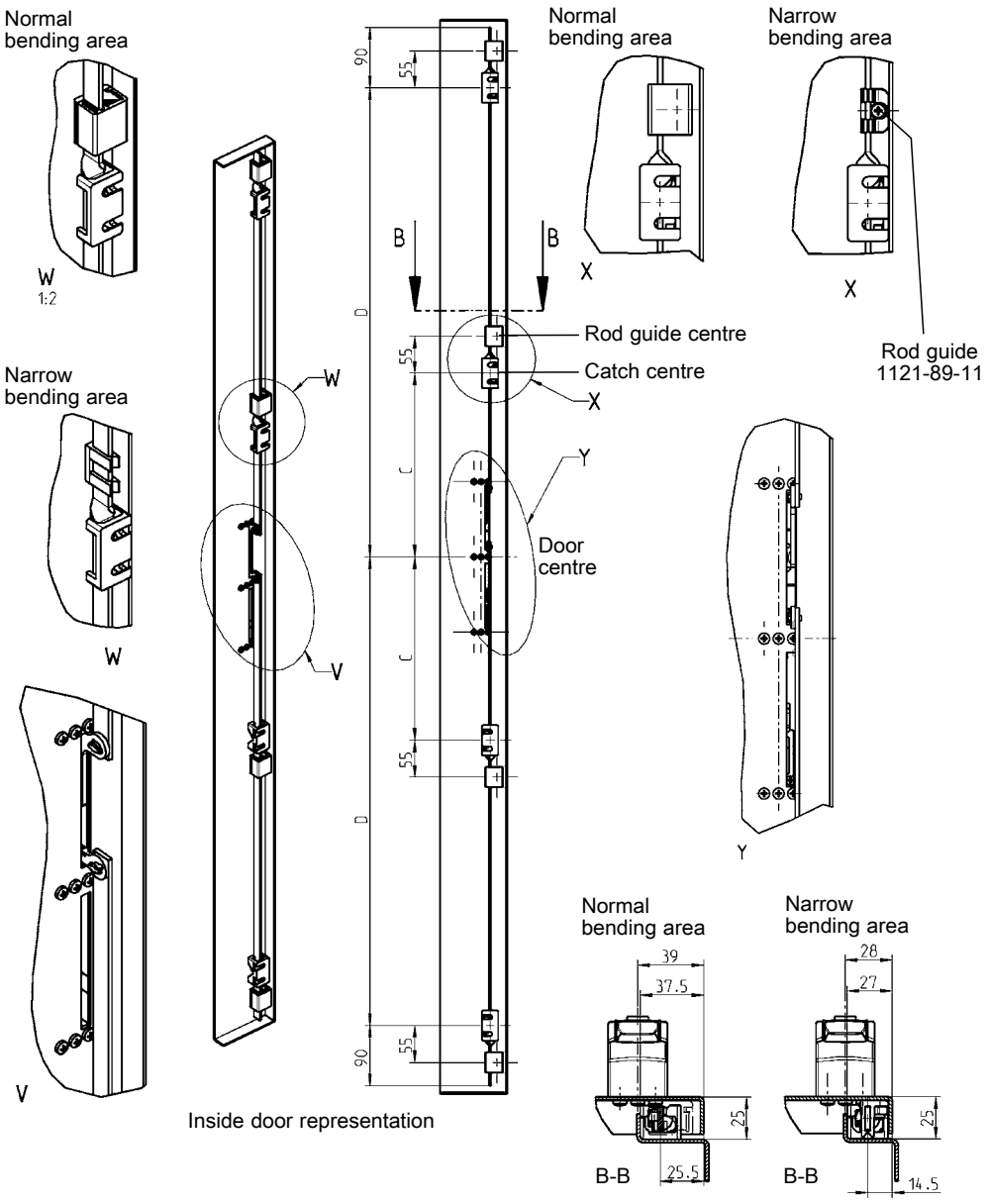
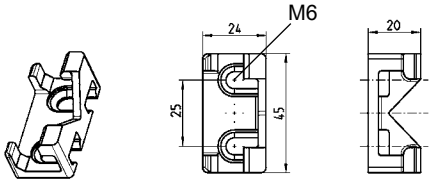
Twisted rod

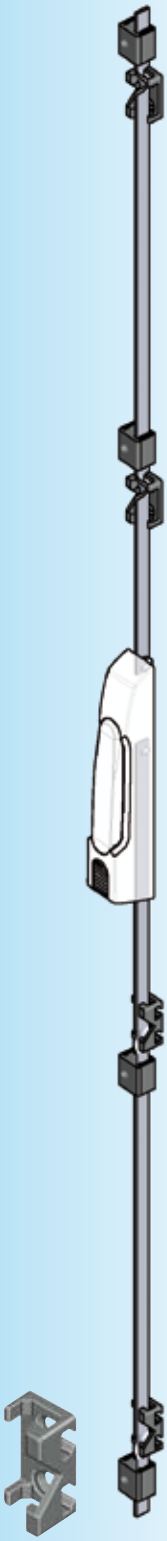
PROGRAM 2400



Door height	Locking points (door centre)		Part no. Rod	
			upper	lower
Th	Dim. C	Dim. D	of steel	of steel
800-1200	–	300	2400-U5-01	2400-U5-02
1200-1600	–	450	2400-U5-03	2400-U5-04
1600-1900	275	700	2400-U5-05	2400-U5-06
1900-2200	275	850	2400-U5-07	2400-U5-08



Catch zinc die black powder coated	
	2400-12



Further parts see page
– Rod guide 3ZC-120 to 3ZC-170

Program 2400
– Swinghandle 3K-120

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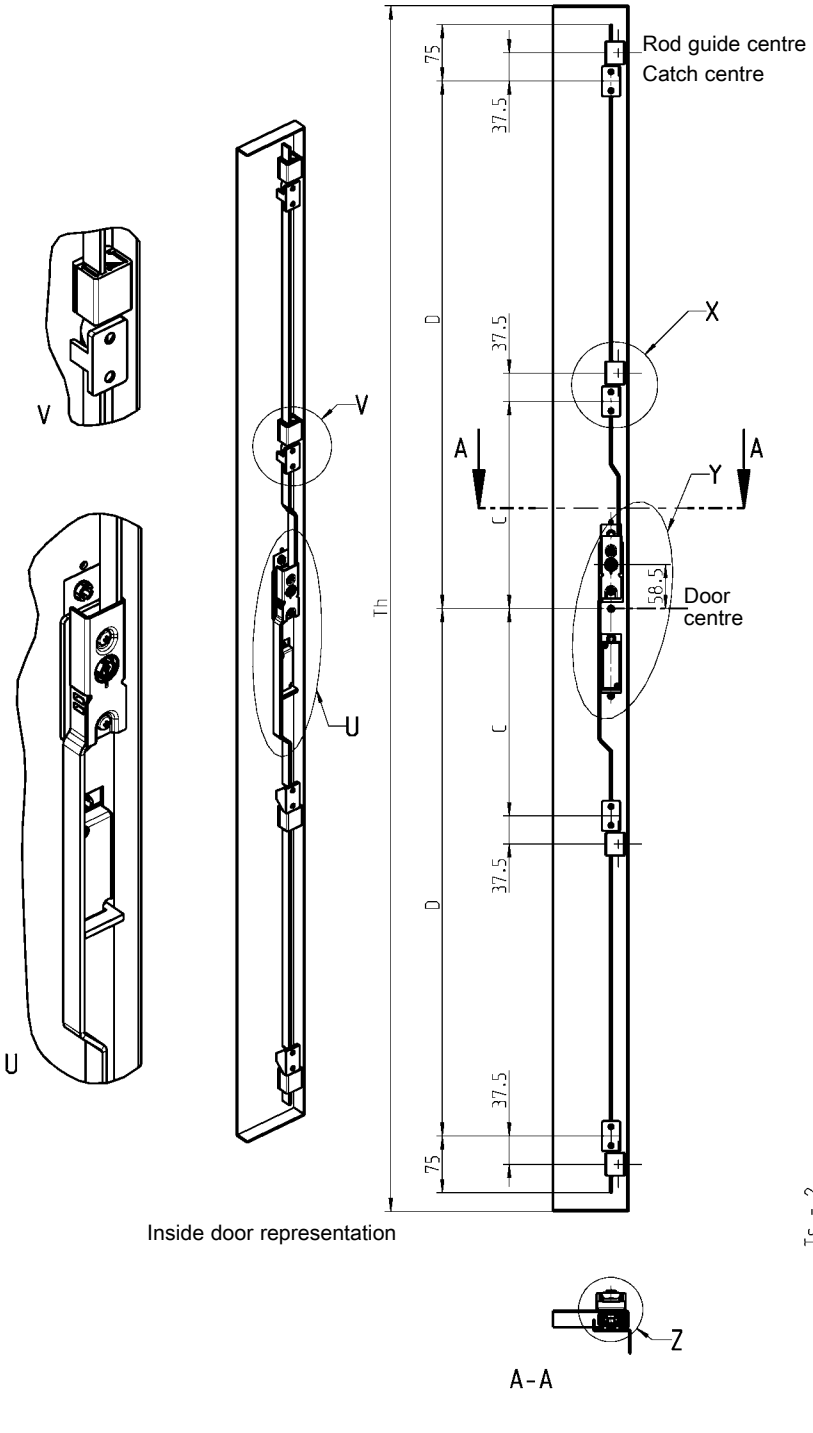
Twisted rod

PROGRAM 2400

RL



Door height	Locking points (door centre)		Part No. Rods Upper rod		Part No. Rods Lower rod	
Th	Dim. C	Dim. D	m.s. zinc pl.	alum.	m.s. zinc pl.	alum.
800-1200	–	300	2400-19-01RA	on request	2400-18-01RA	on request
1200-1600	–	450	2400-19-03RA	on request	2400-18-03RA	on request
1600-1900	275	700	2400-19-05RA	on request	2400-18-05RA	on request
1900-2200	275	850	2400-19-07RA	on request	2400-18-07RA	on request

Further parts see page

– Catches	3ZA-1220
– Rod guide	3ZC-120 to 3ZC-170

Program 2400

– Escutcheon	3K-220

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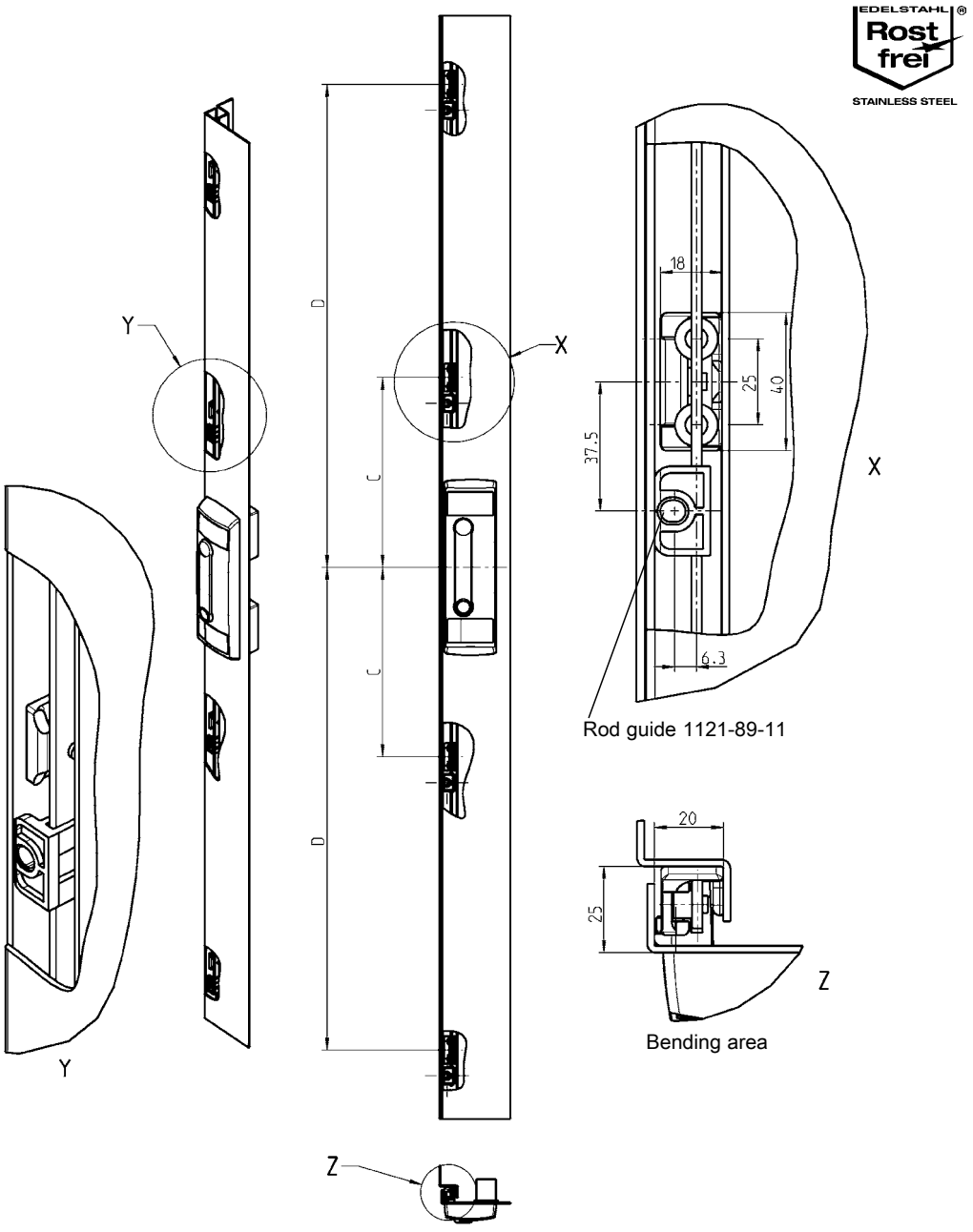
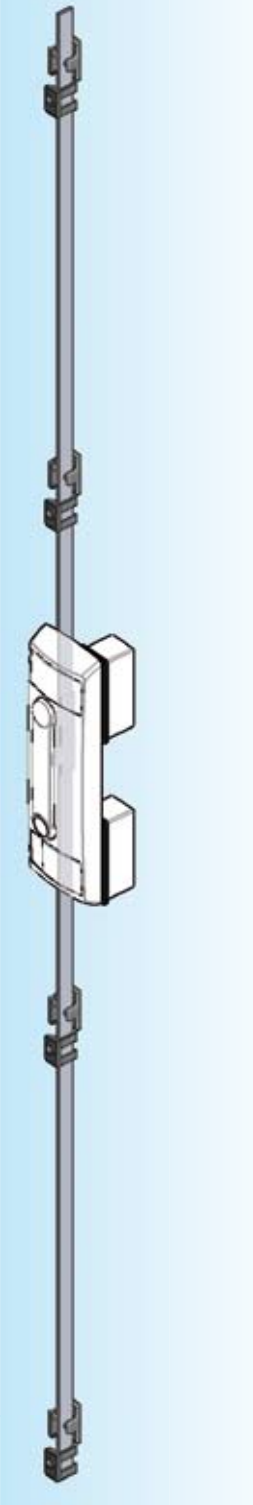
Rod with roller

PROGRAM 2600





Catch zinc die black powder coated				
				2600-12
Rods m.s. zinc plated with roller (alu and AISI 304 on request)				
Door height	**Locking points (door centre)**		**Part No. Rod Upper rod**	**Part No. Rod Lower rod**
Th	**Dim. C**	**Dim. D**	**m.s.**	**m.s.**
800-1200	–	300	2600-U10-LI	–
one continuous rod			2600-U10-RE	–
1200-1600	–	450	2600-U11-01LI	2600-U11-02LI
two-piece rod			2600-U11-01RE	2600-U11-02RE
1600-1900	275	700	2600-U12-01LI	2600-U12-02LI
two-piece rod			2600-U12-01RE	2600-U12-02RE
1900-2200	275	850	2600-U13-01LI	2600-U13-02LI
two-piece rod			2600-U13-01RE	2600-U13-02RE

Further parts see page
– Rod guide 3ZC-120
(please only use 1121-89-11)

Program 2600
– Swinghandle 3L-120

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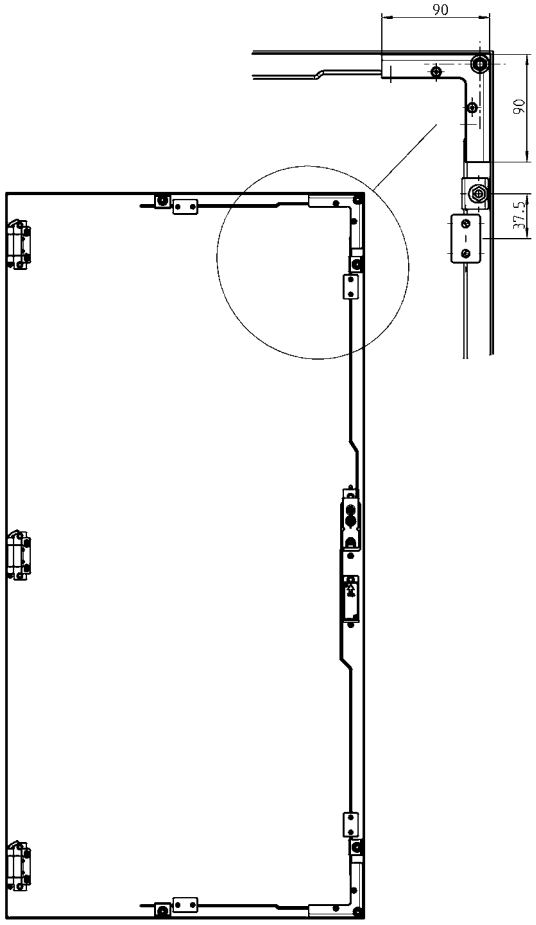
Notes:

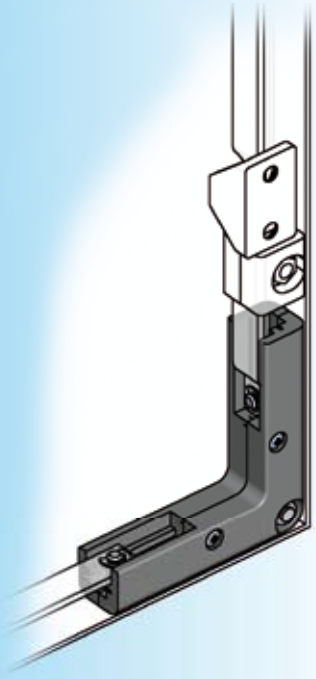
90° turn for rods

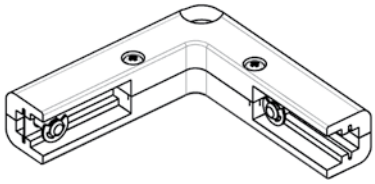
PROGRAM 1125 - 3000

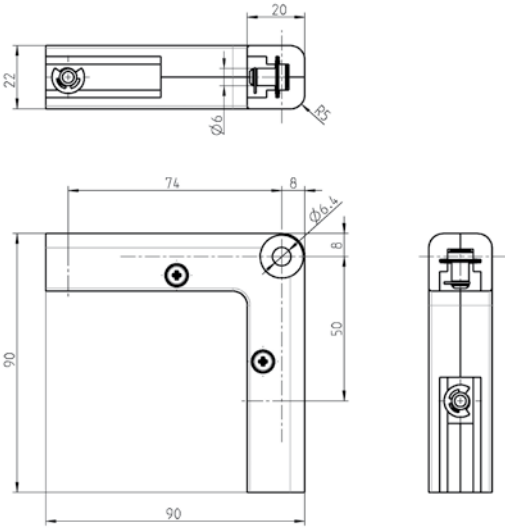
Door pictured transparent



Inside door representation







Rods suitable for the programs 1125, 1150, 1160, 1180, 1190, 1225, 1325, 2100, 2300, 2400, 2600 and 3000 as requested individually

Further parts see page
– Rods without 90° turn 3ZA-120

90° turn polyamide black, drive spring steel zinc plated	
for weld stud M6x20	1121-U170

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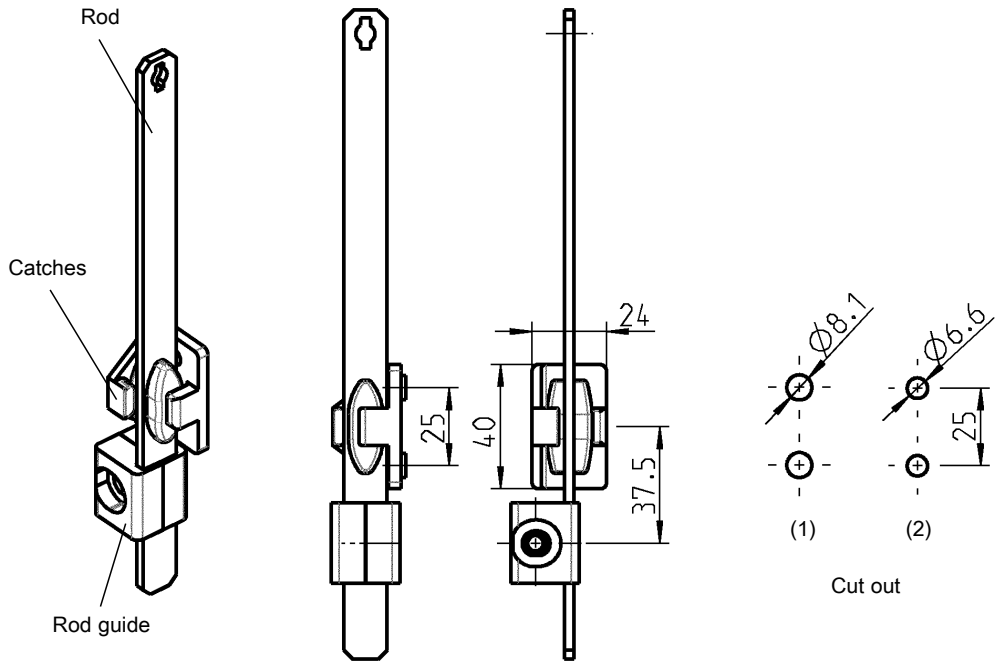
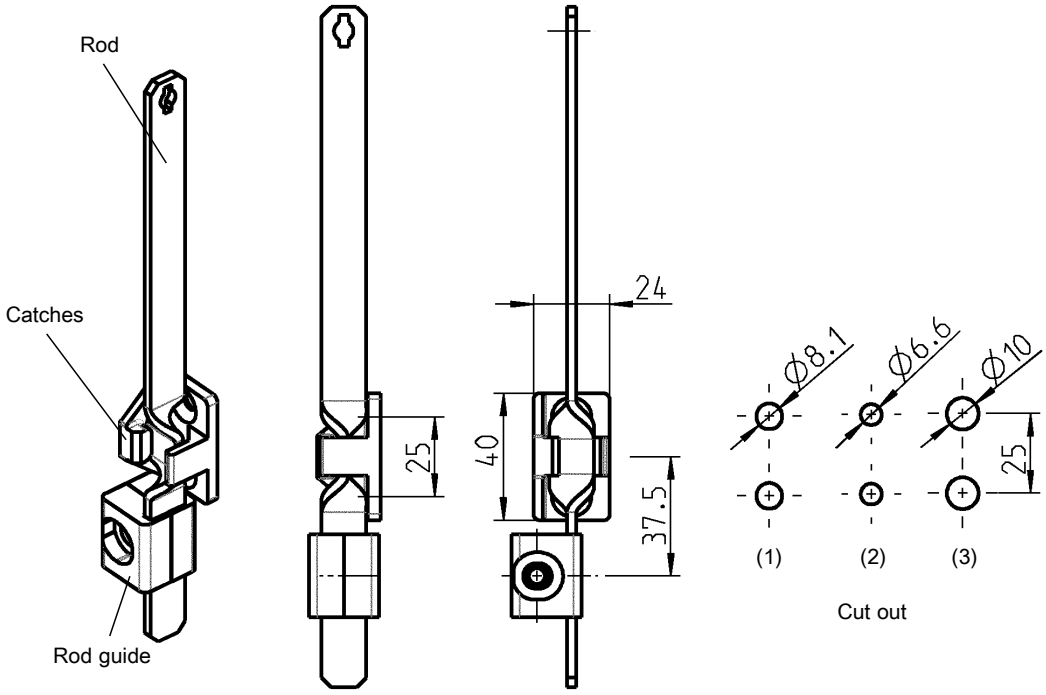
Catches

PROGRAM 1125, 1150, 1160, 1180, 1225, 1325, 2100, 2300, 2400, 2600, 3000



Catch interchangeable with hinge 120°, catalogue page 4A-190 or hinge 180° catalogue page 4A-210

Catch zinc die black powder coated for rod with locking slider		
with M6 female thread	(1)	1121-54-P
for counter sunk srew (2D-nut applicable)	(2)	1121-53-P



Catch interchangeable with hinge 120°,catalogue page 4A-190 or hinge catalogue page 4A-210

Catch zinc die black powder coated for twisted rod		
with M6 female thread	(1)	1121-70-01
for counter sunk screw M6 (2D-nut applicable)	(2)	1121-70
with clamping pin, polyamide black, Ts = 2,0	(3)	1121-U137
with M10 outside threat, nut m.s. zinc plated	(3)	1121-U152
Catch polyamide 66 GF 50 black for twisted rod		
for counter sunk screw M6 (2D-nut applicable)	(2)	1121-70-04SK

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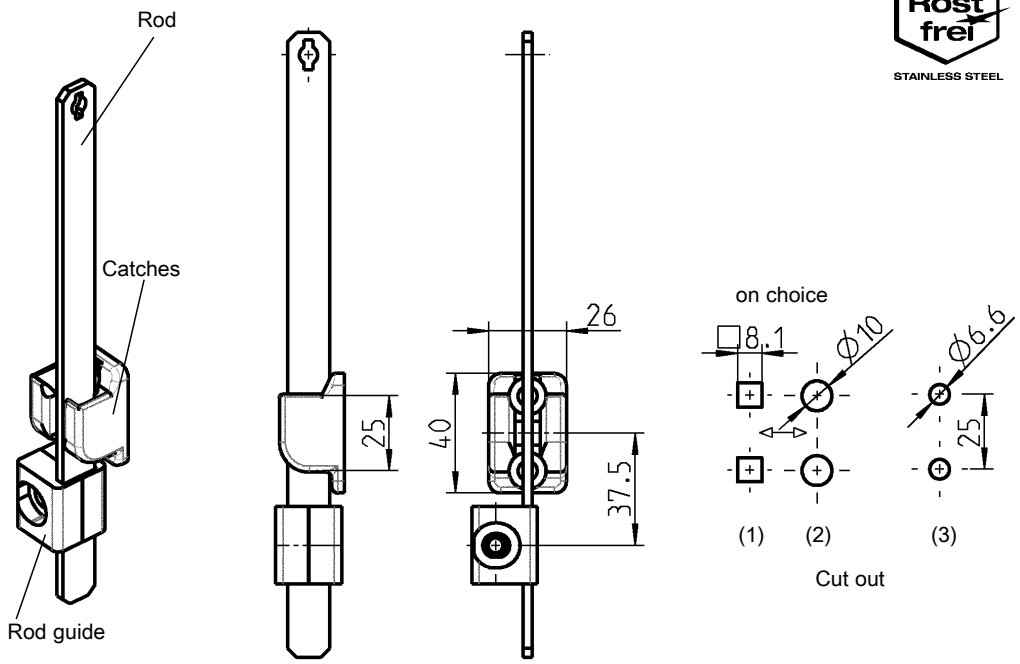
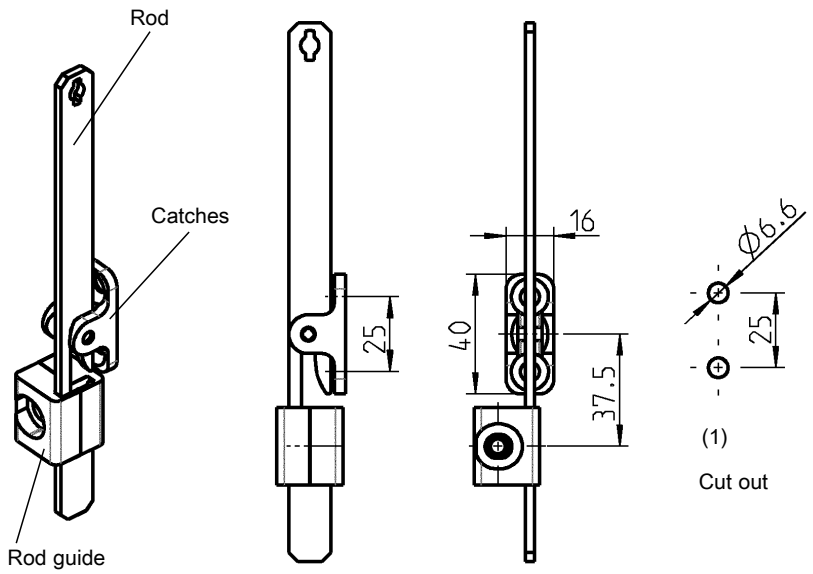


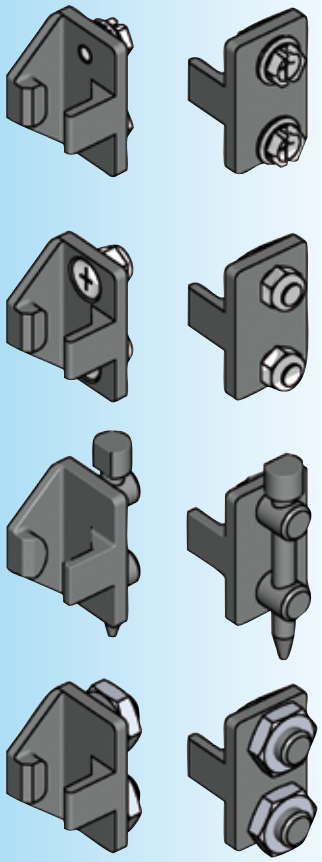
Catch zinc die black powder coated for rod with double roller		
with M6 female thread	(1) (2)	1121-18-01
for counter sunk screw M6 (2D-nut applicable)	(3)	1121-18-02
Catch AISI 316 for rod with double roller		
for counter sunk screw M6 (2D-nut applicable)	(3)	1121-18-02PH



Catch interchangeable with hinge 120° catalogue page 4A-190 or hinge 180° catalogue page 4A-210

Catch zinc die black powder coated for rod with cut out		
for countersunk screw small head M6 (2D nut usable)	(1)	1121-U76

4 different fixing possibilities



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

Further parts see page
– 2D-nut 12E-120

Program 1125, 1150, 1160, 1180, 1190, 1225, 1325, 2100, 3000
– Rods 3ZA-120

Program 1160
– Rod locks 3ZA-420

Program 1180
– Lock rods 3ZA-520

Program 1190
– Rods 3ZA-560

Program 2300
– Rods 3ZA-620

Program 2400
– Rods 3ZA-720
3ZA-820

Program 2600
– Rods 3ZA-920

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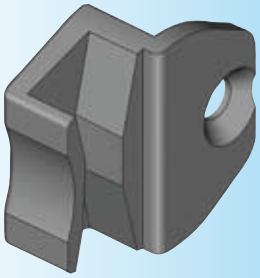
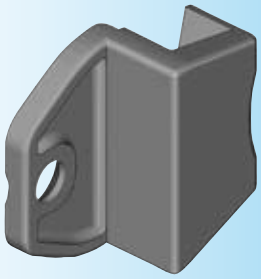
®Catch for rod with double roller or single roller

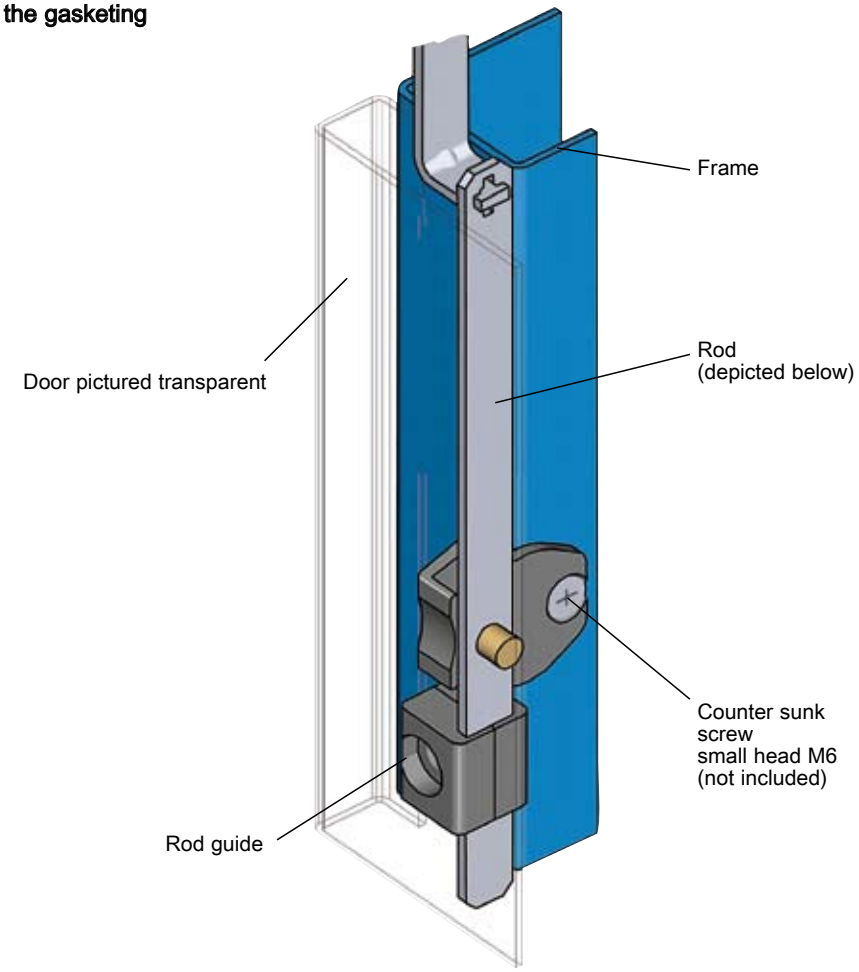
PROGRAM 1125 - 3000

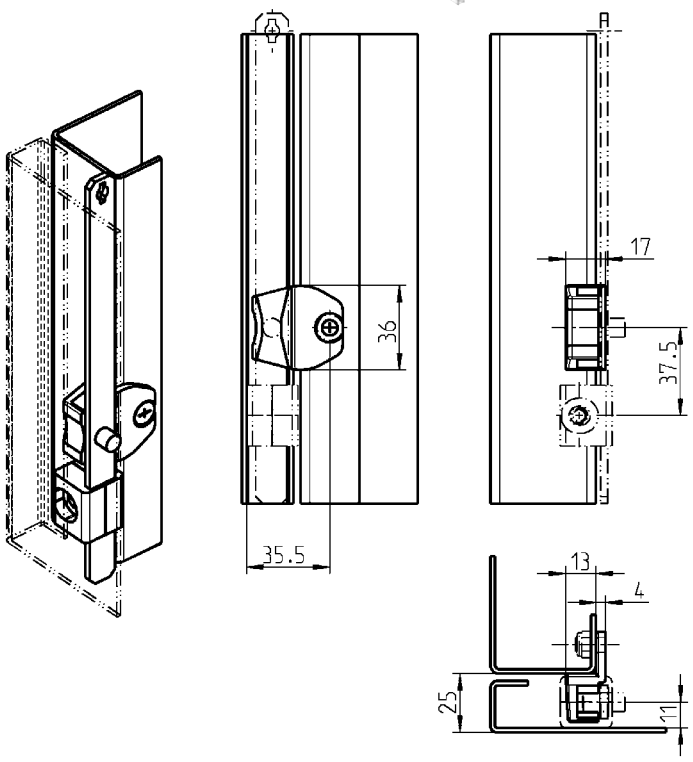
RL





Lateral fixing to the frame inside the gasketing





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

Further parts see page

Program 1125, 1150, 1160, 1180, 1190,1225, 1325, 2100, 3000
– Rods 3ZA-260

Catch zinc die black powder coated

1121-108-AA

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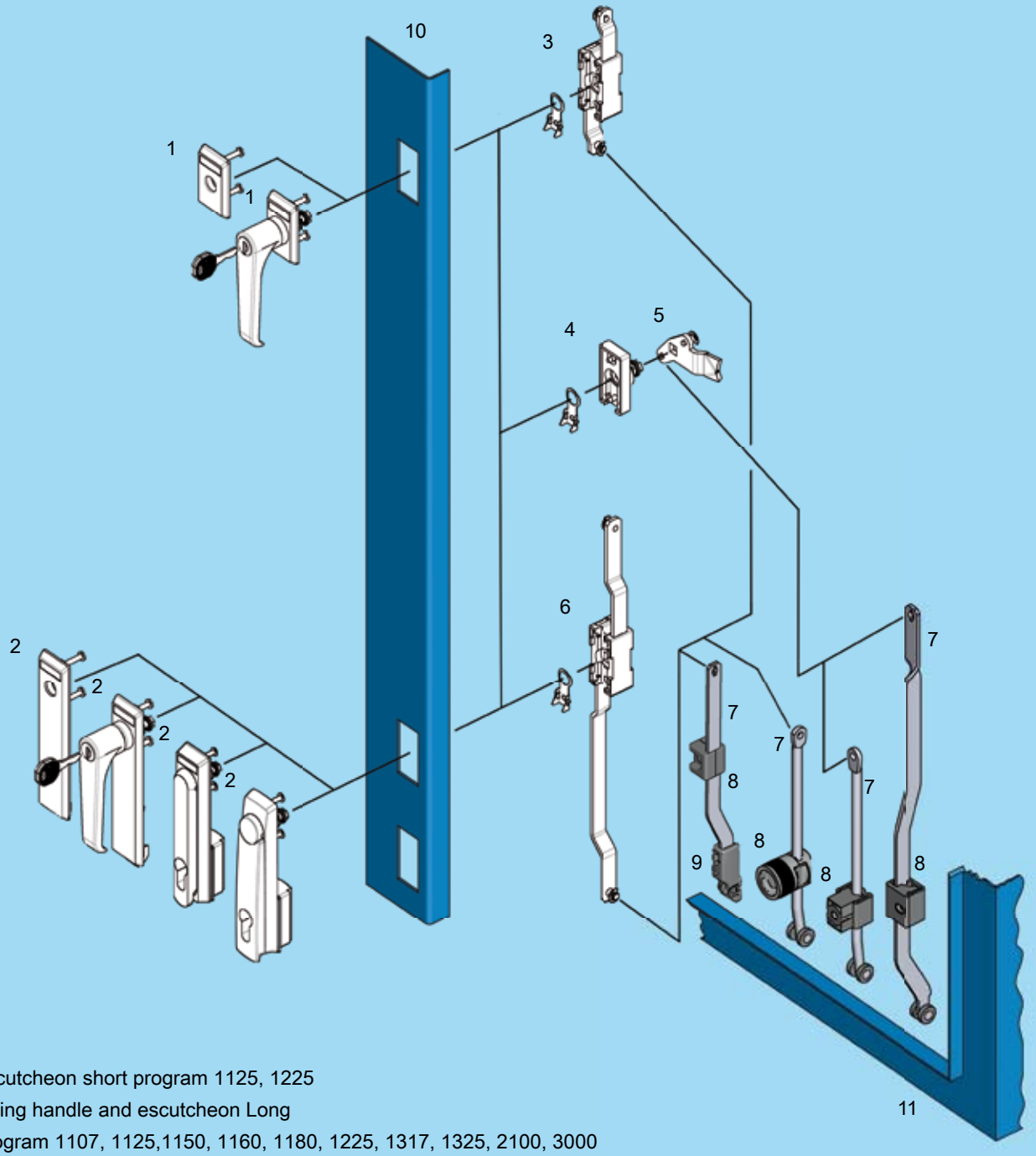
Rod within the gasketing



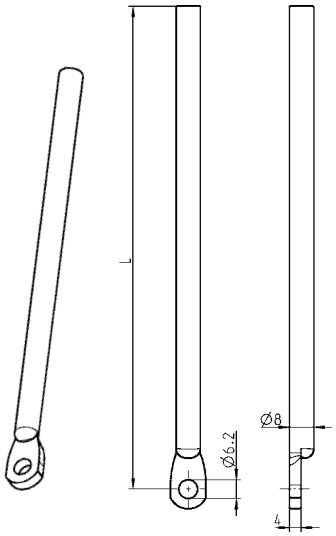
1 Escutcheon short program 1125, 1225
2 Swing handle and escutcheon Long
Program 1107, 1125,1150, 1160, 1180, 1225, 1317, 1325, 2100, 3000
3 Rod control
4 Bearing bush
5 Cam
6 Rod control
7 Rod (inside the gasketing)
8 Rod guide
9 Roller shoe
10 Door
11 Cabinet/frame

Rods

PROGRAM 1107, 1125, 1150, 1180, 1225, 1317, 1325, 2100, 2300, 3000

Application:
Program 1125, 1150, 1225, 1325, 3000
– Rod control 3YA-140
(Version B) 3YA-160
3YA-180
3YA-240

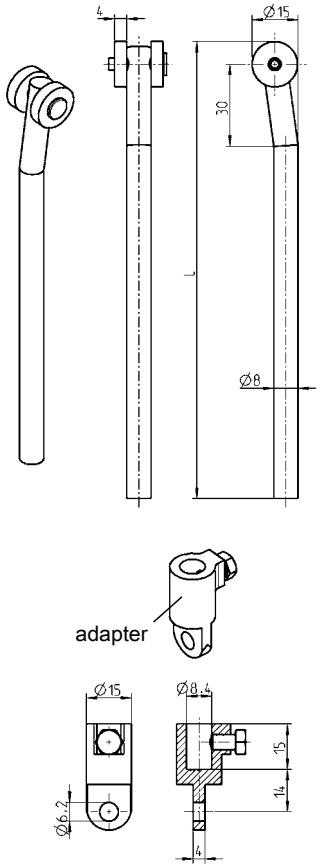
Program 1107, 1125, 1180, 1225, 1317, 1325, 2100, 3000
– Cam 3YB-420
3YB-440
3YC-120



Round rod with eye m.s. zinc pl.	
L in mm	
400	1000-33
500	1000-34
600	1000-35
700	1000-36
800	1000-37
900	1000-38
1000	1000-39
1100	1000-114
1200	1000-115

Application:
Program 1125, 1150, 1225, 1325, 3000
– Rod control 3YA-140
(Version B) 3YA-160
3YA-180
3YA-240

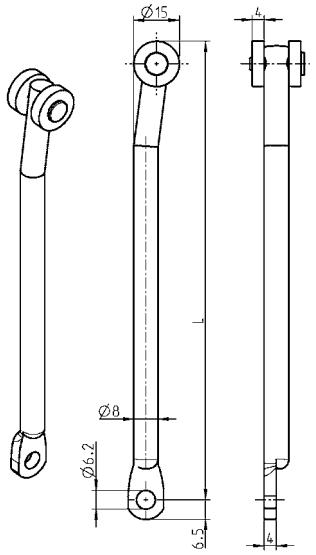
Program 1107, 1125, 1180, 1225, 1317, 1325, 2100, 3000
– Cam 3YB-420
3YB-440
3YC-120



Round rod m.s. zinc plated or AISI 304 with roller polyamide black		
L in mm	m.s. zinc pl.	AISI 304
600	1049-U3	1049-U12
700	1049-U4	1049-U13
800	1049-U5	1049-U14
900	1049-U6	1049-U15
1000	1049-U7	1049-U16
1100	1049-U8	1049-U17
1200	1049-U9	–
adapter	zinc die, m.s. zinc plated	AISI 303
	1000-U49	1000-U141

Application:
Program 1125, 1150, 1225, 1325, 3000
– Rod control 3YA-140
(Version B) 3YA-160
3YA-180
3YA-240

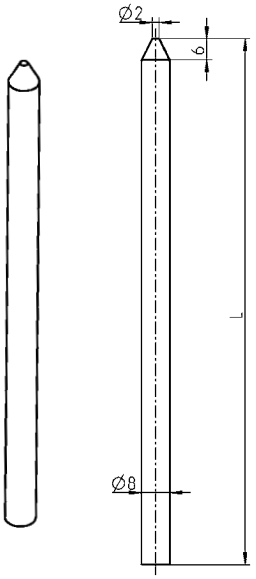
Program 1107, 1125, 1180, 1225, 1317, 1325, 2100, 3000
– Cam 3YB-420
3YB-440
3YC-120

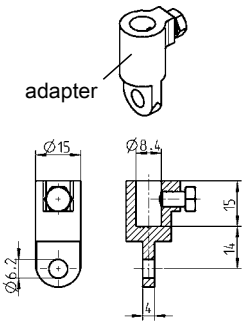


Round rod with eye, material on choice, rollers polyamide black
m.s. zinc plated for rod control
1121-U30-L mm
(1121-U30-01 to -08 see price list)
m.s. zinc plated for cam (Eye turned by 90°)
1000-U144-L mm
(1000-U144-01 to -17 see price list)
AISI 304 for cam (Eye turned by 90°)
1000-U538-L mm
(1000-U538-01 to -09 see price list)

Application:
Program 1125, 1150, 1225, 1325, 3000
– Rod control 3YA-140
(Version B) 3YA-160
3YA-180
3YA-240

Program 1107, 1125, 1180, 1225, 1317, 1325, 2100, 3000
– Cam 3YB-420
3YB-440
3YC-120





Round rod with pointed end, m.s. zinc plated
1049-19-L mm
(1049-19-01 to -17 see price list)
Adapter zinc die m.s. zinc plated
1000-U49

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EDELSTAHL Rost frei STAINLESS STEEL

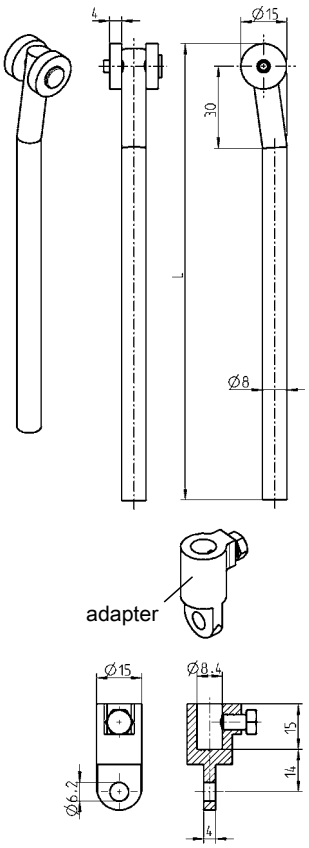
Minimum order quantity: 200 pieces
Lower quantities on request!

L ≤ 1200

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

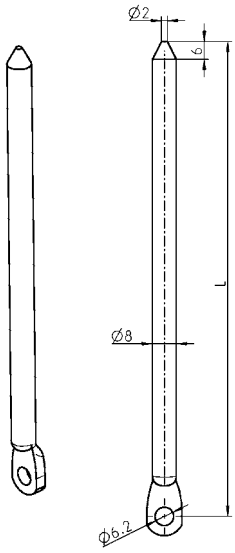
Application:
Program 1125, 1150, 1225, 1325, 3000
– Rod control 3YA-140
(Version B) 3YA-160
3YA-180
3YA-240

Program 1107, 1125, 1180, 1225, 1317, 1325, 2100, 3000
– Cam 3YB-420
3YB-440
3YC-120

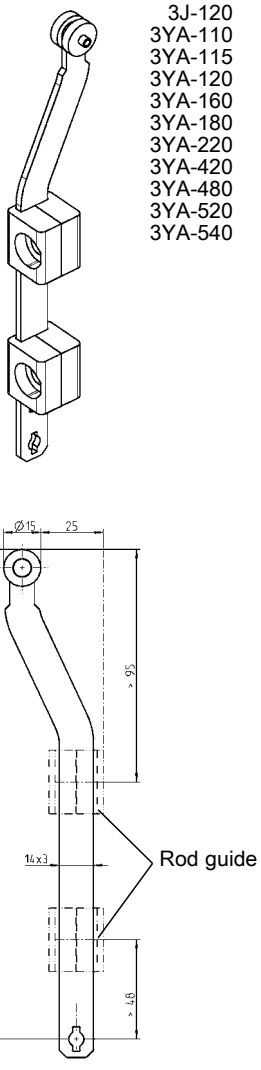


Use:
Program 1125, 1150, 1225, 1325, 3000
– Rod control 3YA-140
(Version B) 3YA-160
3YA-180
3YA-240

Program 1107, 1125, 1180, 1225, 1317, 1325, 2100, 3000
– Cam 3YB-420
3YB-440
3YC-120



Application:
Program 1125, 1150, 1160, 1180, 1225, 1325, 2100, 2300, 3000
– Rod control 3D-120
3D-140
3E-120
3E-140
3J-120
3YA-110
3YA-115
3YA-120
3YA-160
3YA-180
3YA-220
3YA-420
3YA-480
3YA-520
3YA-540



Round rod m.s.zinc plated, with rollers polyamide black
1049-U18-L mm
(1049-U18-01 to -17 see price list)
Adapter zinc die zinc pl.
1000-U49

Round rod with eye and pointed end, m.s. zinc plated
1000-211-L mm
(1000-211-01 to -17 see price list)

Flat rod m.s. zinc pl. with rollers polyamide black
1121-U28-L mm
(1121-U28-01 to -08 see price list)
Flat rod without hole L = 1007.5
1121-U148

Further parts see page
Rod guide
for flat rod 3ZC-120
up to 3ZC-170
for round rod 3ZC-210
3ZC-220

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Connection rod with shoe

PROGRAM 1107 - 3000

EDELSTAHL Rostfrei STAINLESS STEEL

Minimum quantity: 200 pieces
Smaller quantities on request!

L ≤ 1200

Order sample:
PO no. of the connection rod m.s. zinc plated for shoe with a length of 1034 mm = 1000-XXX-L 1034

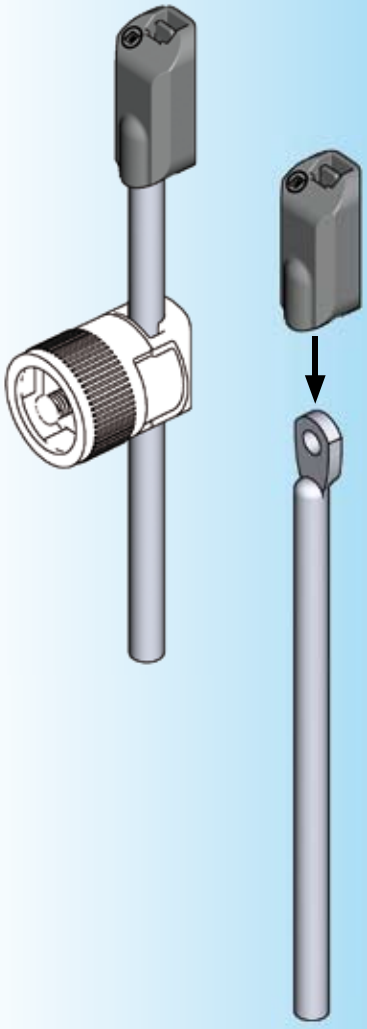
Calculation of rod length L

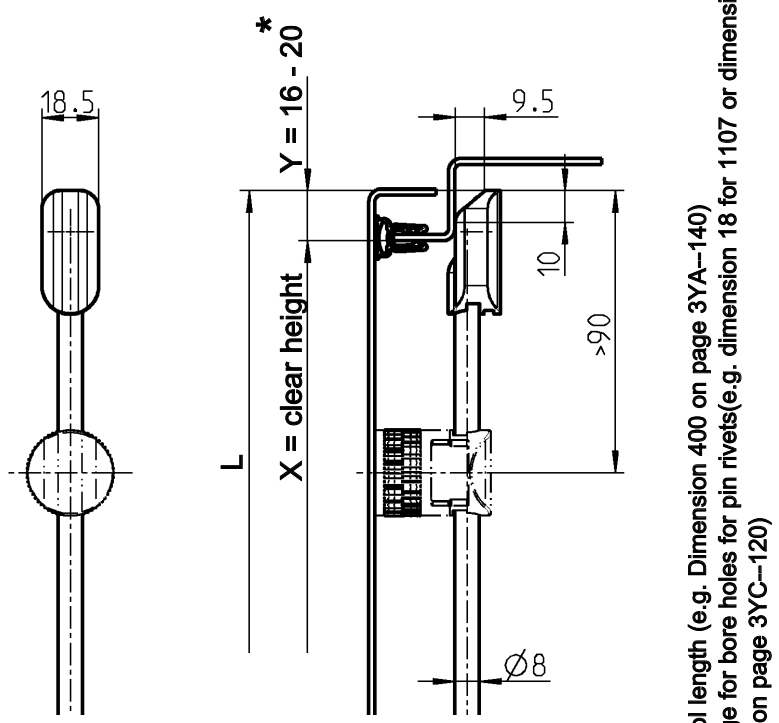
$$L = \frac{X - Z}{2} + Y$$

Application: program 1107, 1125, 1150, 1180, 1225, 1317, 1325, 2100, 3000

- rod control	3YA-140; 3YA-160; 3YA-180; 3YA-240
- cams	3YB-420; 3YB-440; 3YB-460; 3YC-120; 3YC-140; 3YC-180

* Dimension Y depending on type of gasketing





Z = rod control length (e.g. Dimension 400 on page 3YA–140)
Z = cam gauge for bore holes for pin rivets(e.g. dimension 18 for 1107 or dimension 26 for 1000 on page 3YC–120)

Please indicate dimension L in the order

Round rod connection to rod control or cam and material as requested		
	m.s. zinc plated	AISI 304
	on request	on request
Shoe Polyamide GF black		
		1000-526-AA

Further parts see page
– Rod guide 3ZC-210 3ZC-220

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Connection rod with shoe

PROGRAM 1125 - 3000

Minimum quantity: 200 pcs.
Smaller quantities on request!

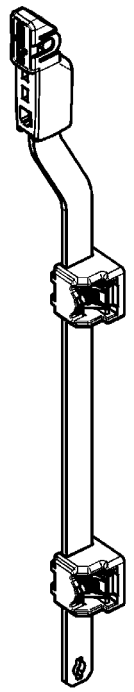
EDELSTAHL Rostfrei STAINLESS STEEL

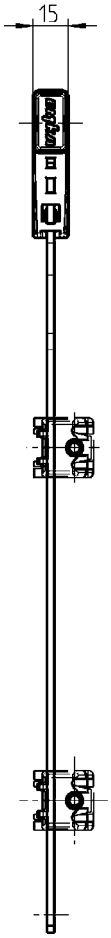
L ≤ 1200
Order sample:
PO no. of connection rod m.s. zinc plated with shoe complete at a length of 1034 mm = 1121-U187-L 1034

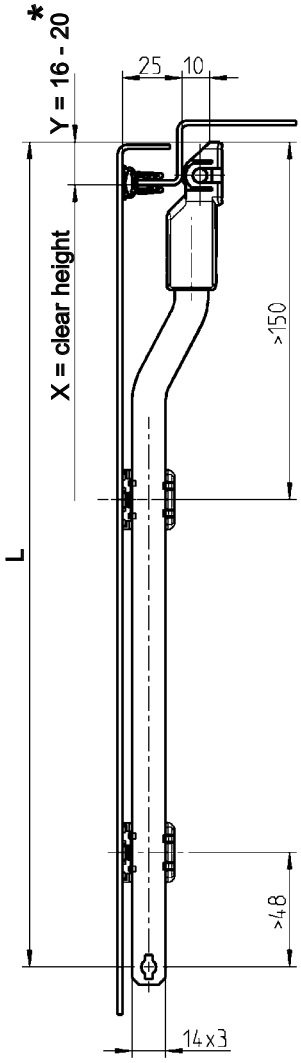
Calculation of rod length L

$$L = \frac{X - Z}{2} + Y$$

Application: Program 1125, 1150, 1160, 1180, 1225, 1325, 2100, 2300, 3000
- rod control 3D-120; 3D-140; 3E-140; 3J-120; 3YA-110, 3YA-115, 3YA-120; 3YA-160, 3YA-180; 3YA-220; 3YA-420; 3YA-480, 3YA-520; 3YA-540



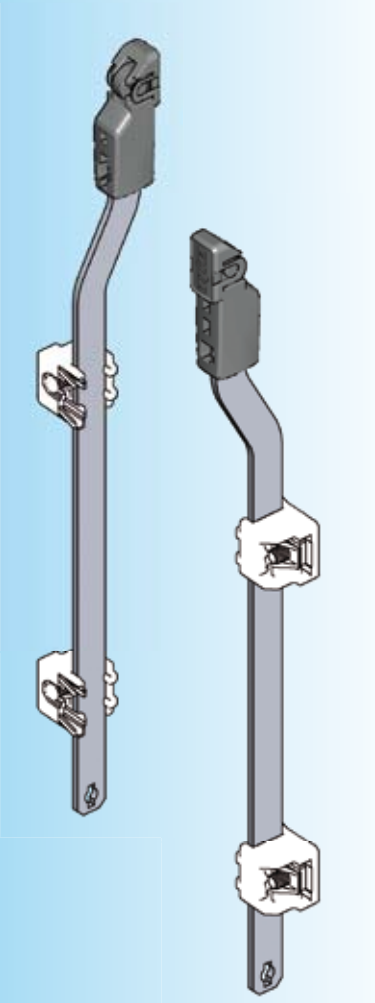




Z = rod control length (e.g. Dimension 347 on page 3YA–120)

Indicate dimension L when ordering

* Dimension Y depending on type of gasketing



Connection rod with shoe pre-assembled		
	m.s. zinc plated	**AISI 304**
	1121-U187-L mm	on request
	(1121-U187-01 to -08 see price list	
Connection rod without bore holes with shoe pre-assembled flat rod without bore holes material as requested, shoe polyamide GF black, roller polyamide black		
	m.s. zinc plated	**AISI 304**
L + 7.5 = 1007.5	1121-U189	on request

Further parts see page
– Rod guide 3ZC-120 to 3ZC-170

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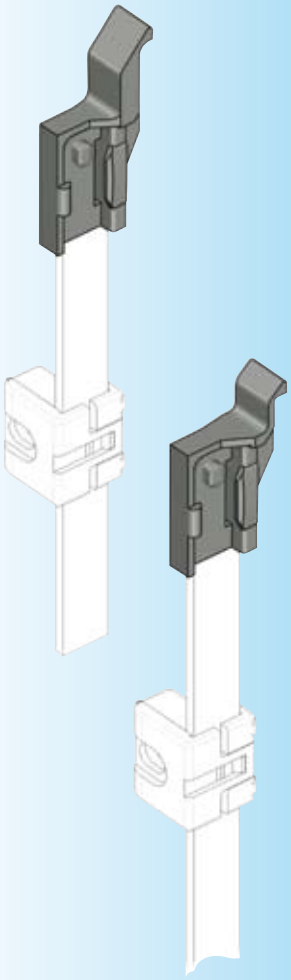
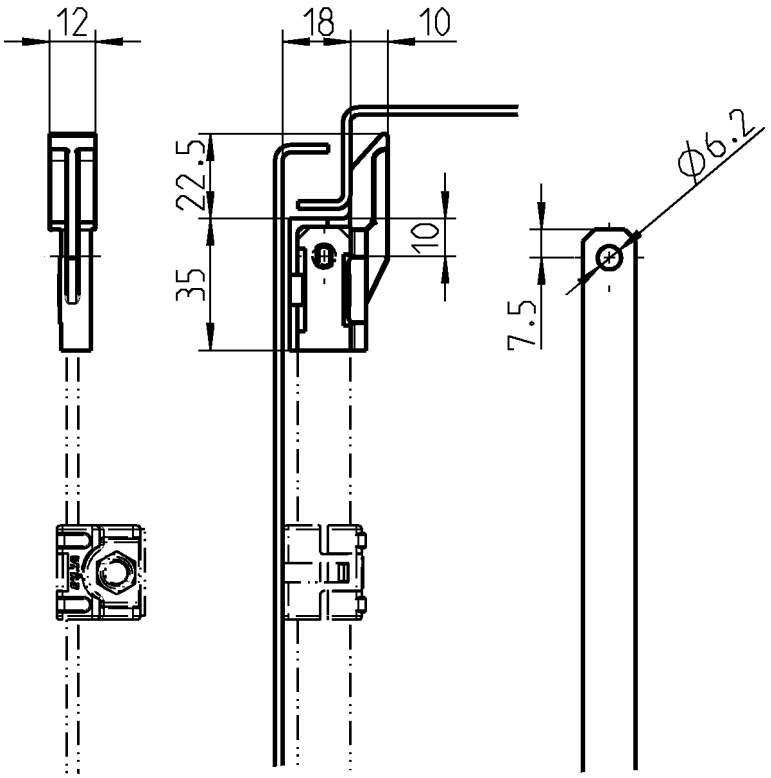
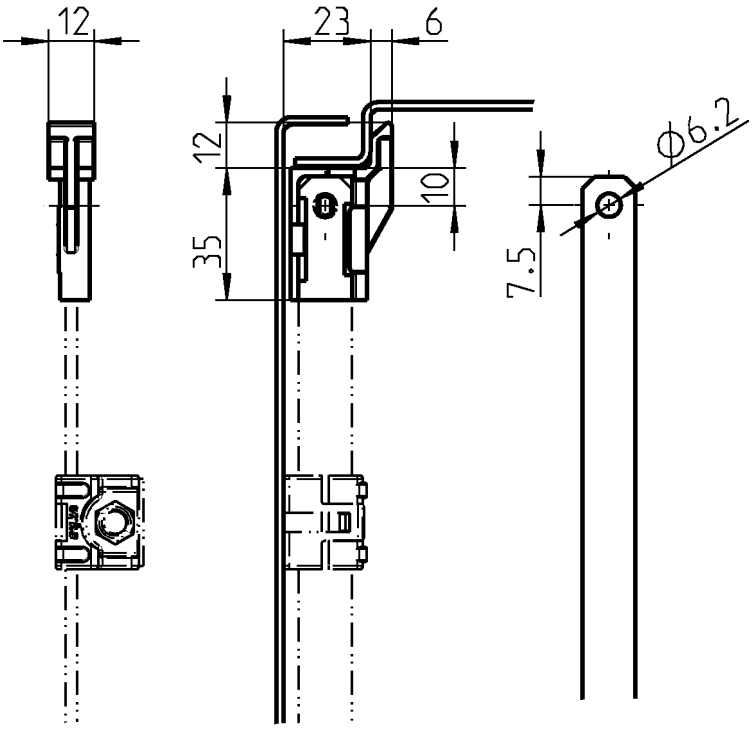
Shoe for flat rod

PROGRAM 1125 - 3000





Shoe polyamide black	
long version	1121-112



Shoe polyamide black	
short version	1121-113

Further parts see page

– Rod guide for flat rods 3ZC-120 up to 3ZC-170

– Rod on request

Program 1125, 1150, 1160, 1180, 1225, 2100, 2300, 3000

– Rod control 3D-120, 3D-140, 3E-120, 3E-140, 3J-120, 3YA-110, 3YA-115, 3YA-120, 3YA-160, 3YA-180, 3YA-220, 3YA-420, 3YA-480, 3YA-520, 3YA-540

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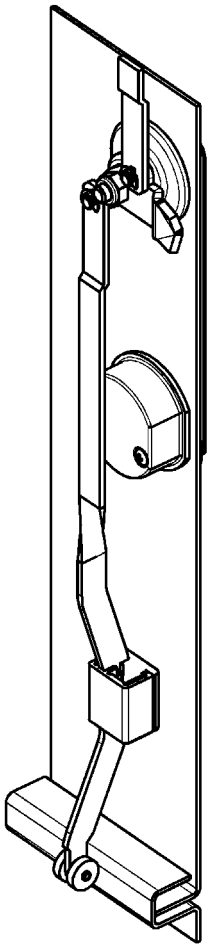
Rod for cam stroke 26 mm

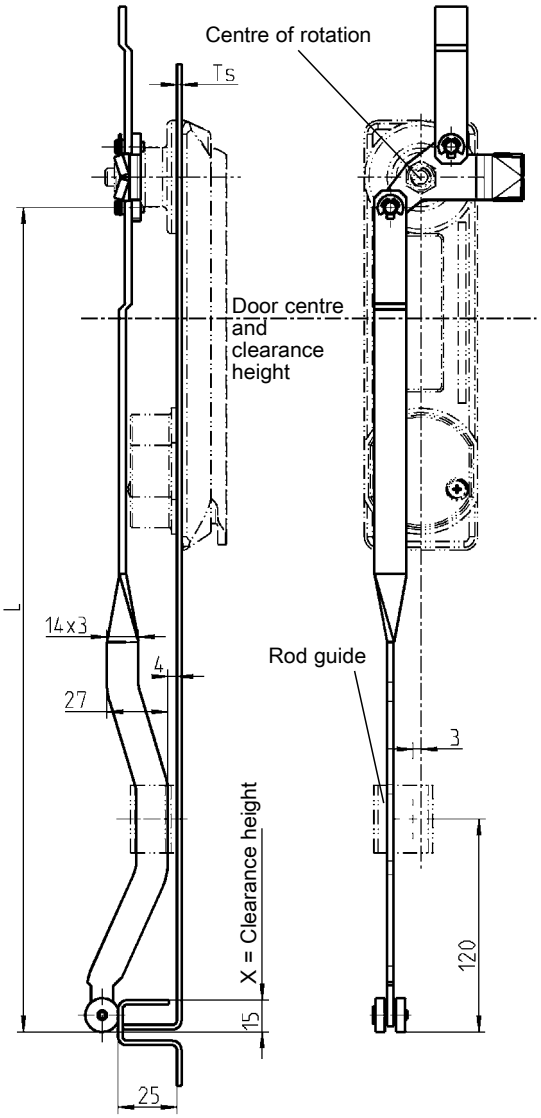
PROGRAM 1107, 1317

Minimum order quantity: 200 pieces

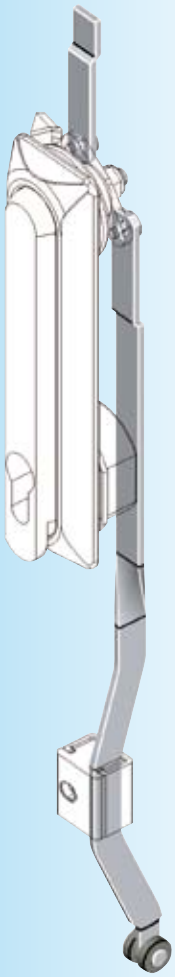
Lower quantities on request

How to find dim. L		Swinghandle long	Swinghandle short
Upper rod	$L = \frac{X}{2}$	– 63	- 50,5
Lower rod	$L = \frac{X}{2}$	+ 67	+ 54,5
Centre of rotation on door centre, upper and lower rods are the same length	$L = \frac{X}{2} + 2$		





Ts = 2
other door gauges on request



Note:
Swinghandle with cut-out
Hole distance
130 mm = long
105 mm = short

Further parts see page
– Rod guide 3ZC-120 up to 3ZC-170

Program 1107, 1317
– Cam with stroke 26 3YC-120

Flat rod m.s. zinc pl. with rollers polyamide black	
	1121-U144-L mm
	(1121-U144-01 to -08 see price list)

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Connection rod for cam with stroke 26 mm

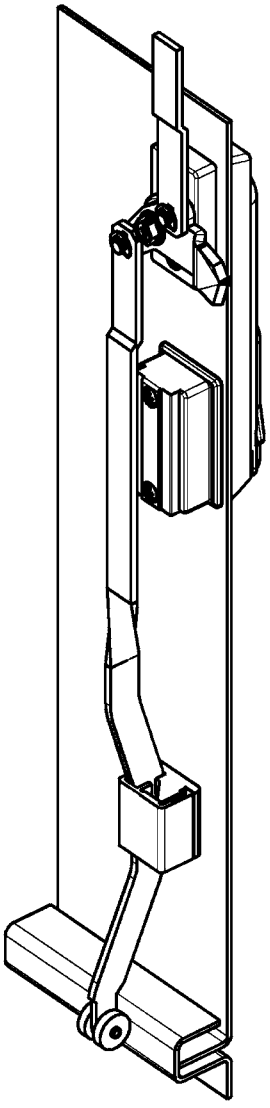
PROGRAM 1125, 1225, 1325, 3000

RL

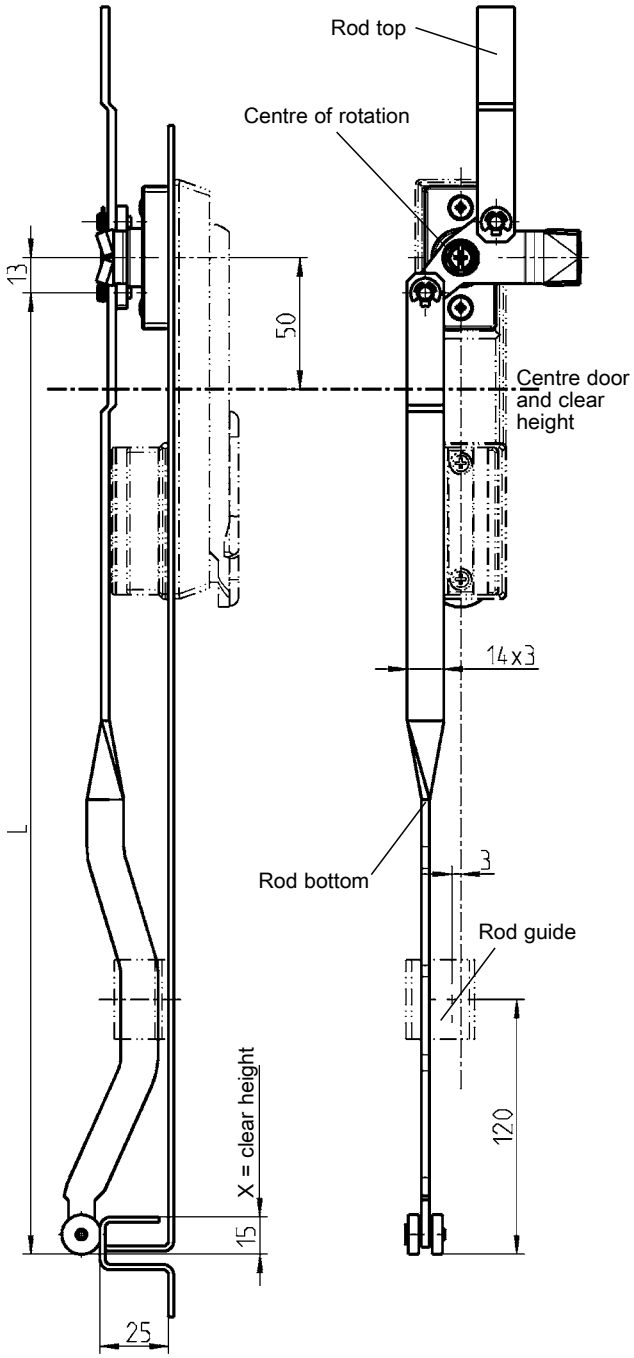
Minimum quantity: 200 pcs.
Smaller quantities on request

Calculation of rod length L

Connection rod top	L=	$\frac{X}{2}$	– 48
Connection rod bottom	L=	$\frac{X}{2}$	+ 52
Centre of rotation door centre top and bottom same rod length	L=	$\frac{X}{2}$	+2



Ts = 2
other door thicknesses
on request



Flat rod m.s. zinc plated ramp rollers polyamide black

	1121-U144-L mm
	(1121-U144-01 bis -08 see price list)

Further parts see page
– Rod guide 3ZC-120 to 3ZC-170
Program 1125, 1225, 1325, 3000
– Cam with stroke 26 3YB-420

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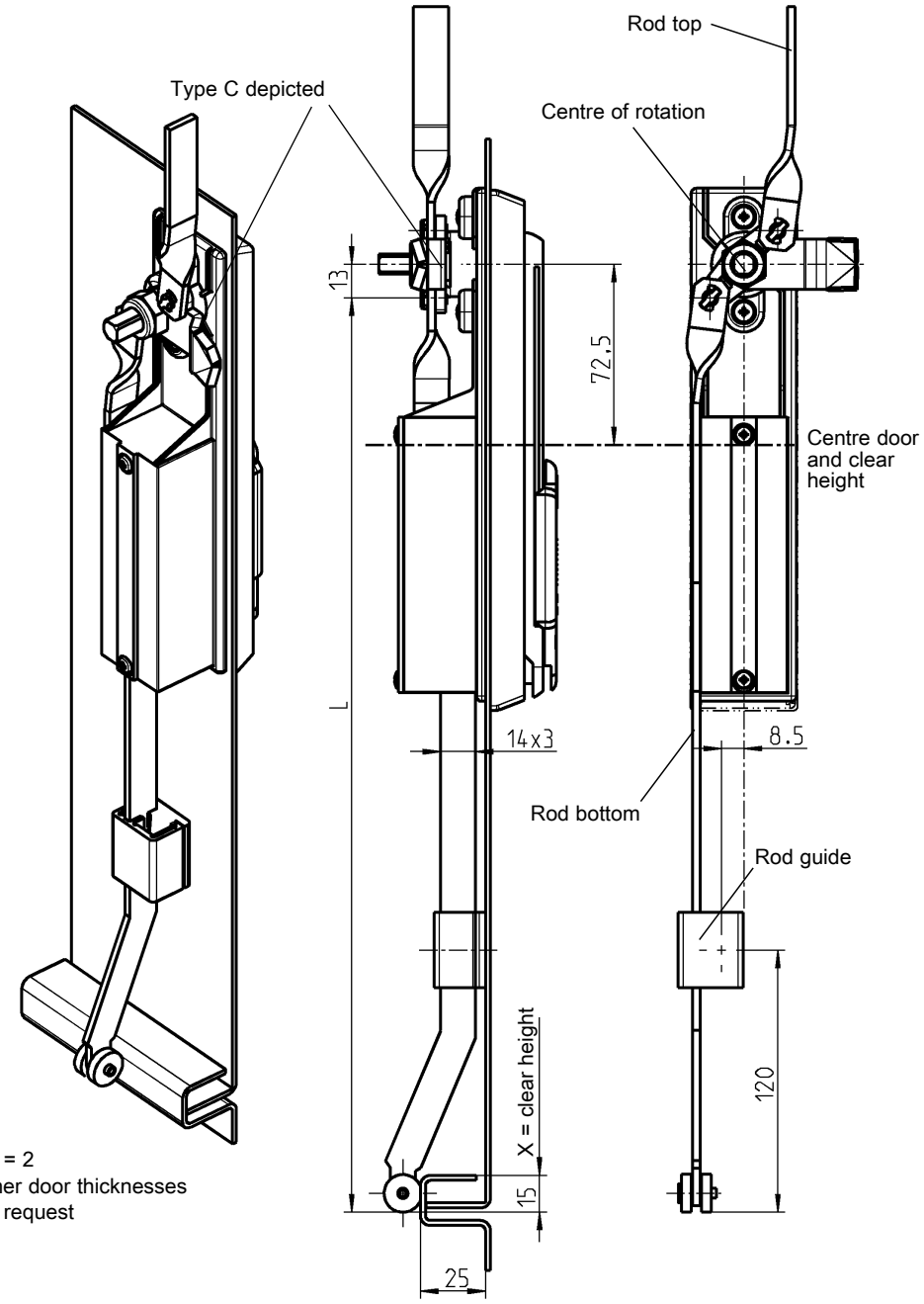
Connection rod for cam with stroke 26 mm

PROGRAM 1125

Minimum quantity: 200 pcs.
Smaller quantities on request

Calculation of rod length L

Connection rod top	$L = \frac{X}{2}$	– 70,5
Connection rod bottom	$L = \frac{X}{2}$	+ 74.5
Centre of rotation door centre top and bottom same rod length	$L = \frac{X}{2}$	+ 2



Ts = 2
other door thicknesses on request

Further parts see page
– Rod guide 3ZC-120 to 3ZC-170

Program 1125
– Cam with stroke 26 3YC-120 3YC-140

Flat rod m.s. zinc plated, ramp rollers polyamide black		
left	1121-U146-L mm	(1121-U146-01 to -08)
right (depicted)	1121-U147-L mm	(1121-U147-01 bis -08)
		see price list

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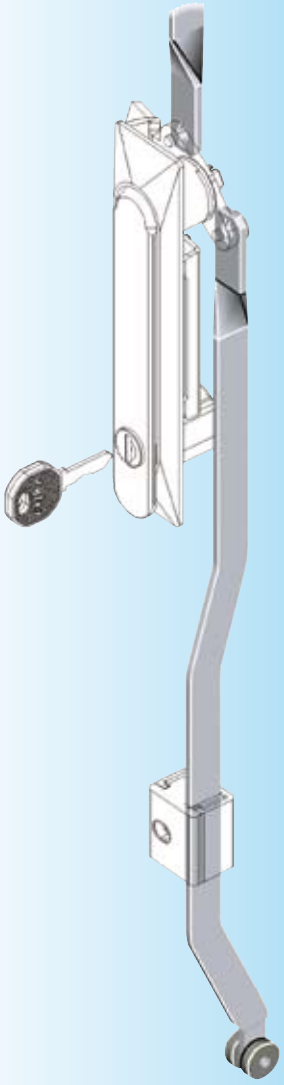
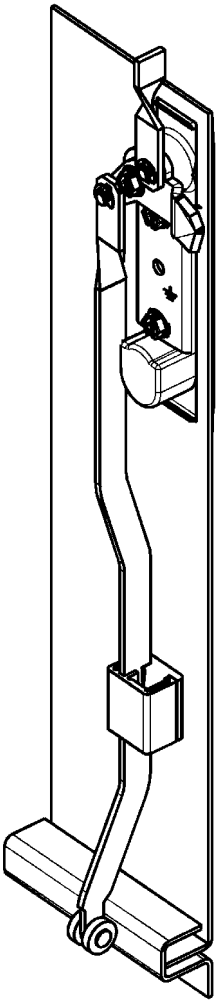
Connection rod for cam with stroke 26 mm

PROGRAM 1150

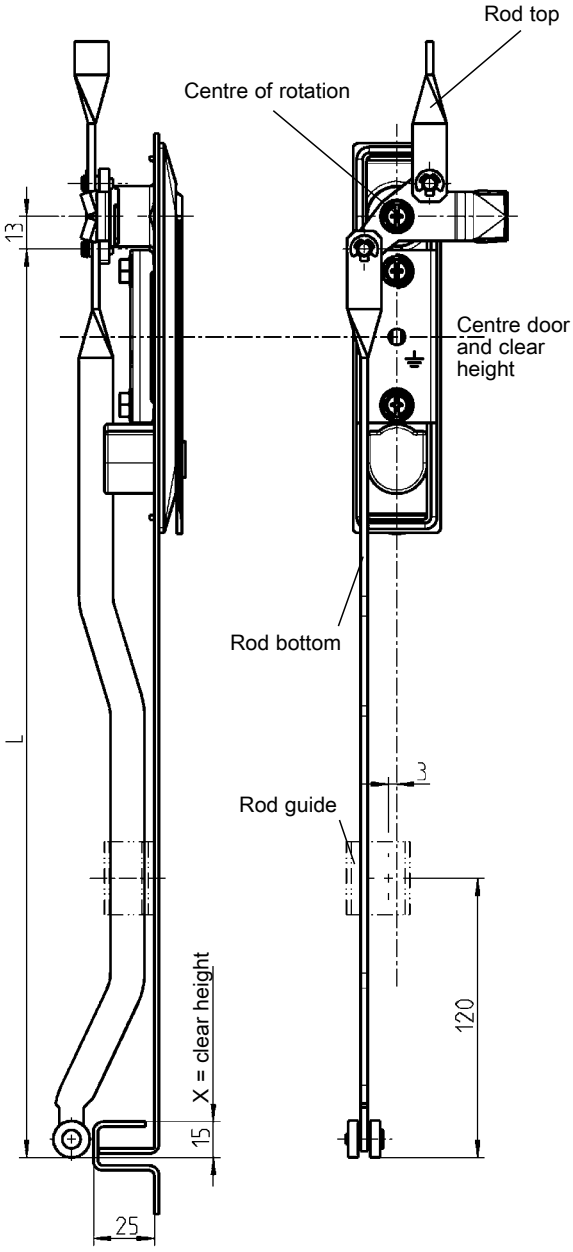


Minimum quantity: 200 pcs.
Smaller quantities on request

Calculation of rod length L:	Version	Swing handle see note A	B
Connection rod top	$L = \frac{X}{2}$	– 28	- 48
Connection rod bottom	$L = \frac{X}{2}$	+ 32	+ 52
Centre of rotation door centre top and bottom same rod length	$L = \frac{X}{2}$ + 2		



Ts = 2
other door thicknesses on request



Note:
Calculation of connection rod version A or B suitable for
– Swing handle 1150 3C-120 = A
3C-120 = B
– Swing handle 1150 3C-140 = B
– Swing handle 1155 3C-620 = B

Further parts see page
– Rod control 3ZC-120 to 3ZC-170

Program 1150
– Cam with stroke 26 3YC-120 3YC-140

Flat rod m.s. zinc plated, ramp rollers polyamide black

	1121-U145-L mm
	(1121-U145-01 to -08 see price list)

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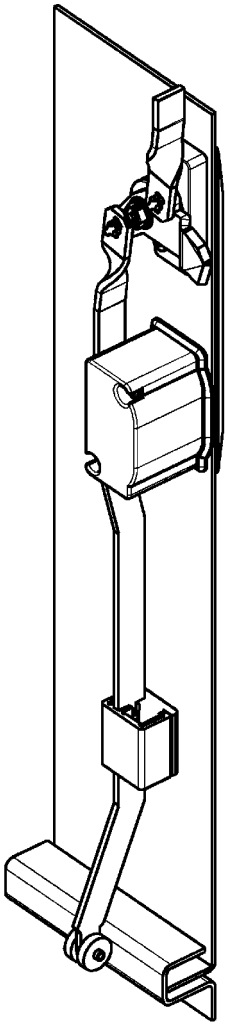
Connection rod for cam with stroke 26 mm

PROGRAM 1150

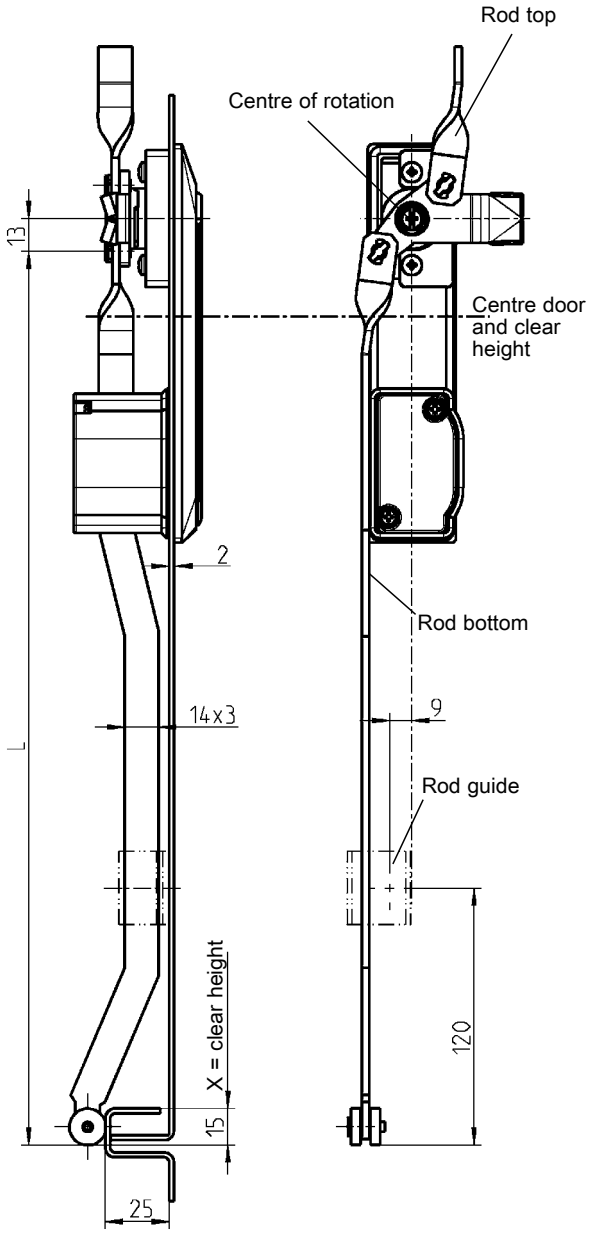
EMKA ® Beschlagteile

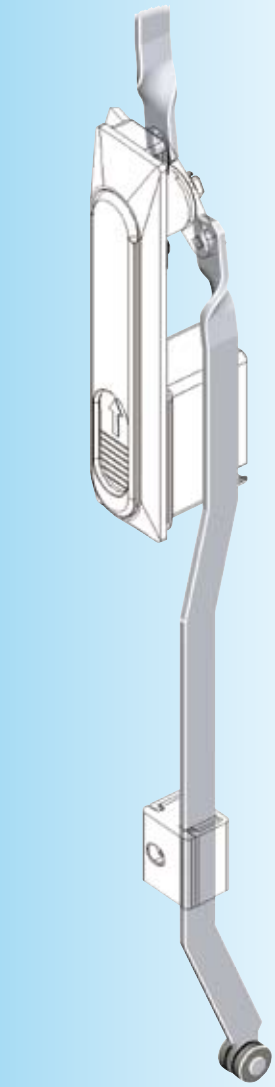
Minimum quantity: 200 pcs.
Smaller quantities on request

Calculation of rod length L:	Version	Swing handle see note A	B	C
Connection rod top	$L = \frac{X}{2}$	– 48	– 54	– 70,5
Connection rod bottom	$L = \frac{X}{2}$	+ 52	+ 58	+74.5
Centre of Rotation door centre top and bottom same rod length	$L = \frac{X}{2} + 2$			



Ts = 2
other door thicknesses
on request





Note:
Calculation of the connection rod type A or B suitable for
– Swing handle 1154 3C-220 = A
– Swing handle 1153 3C-320 = A
– Swing handle 1154 3C-260 = B
– Swing handle 1154 3C-280 = C
– Swing handle 1151 3C-420 = C

Further parts see page
– Rod control 3ZC-120 to 3ZC-170

Program 1150
– Cam with stroke 26 3YC-120 3YC-140

Flat rod m.s. zinc plated, ramp rollers polyamide black		
left	1121-U146-L mm	(1121-U146-01 to -08)
right (depicted)	1121-U147-L mm	(1121-U147-01 to -08)
		see price list

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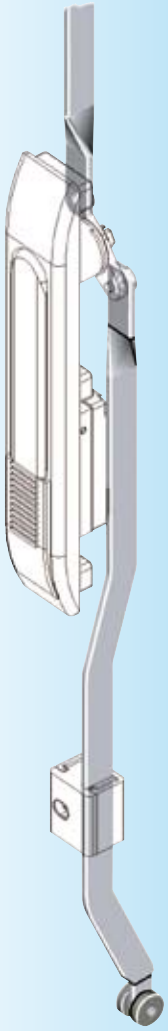
Beschlagteile

Connection rod for cam with stroke 26 mm

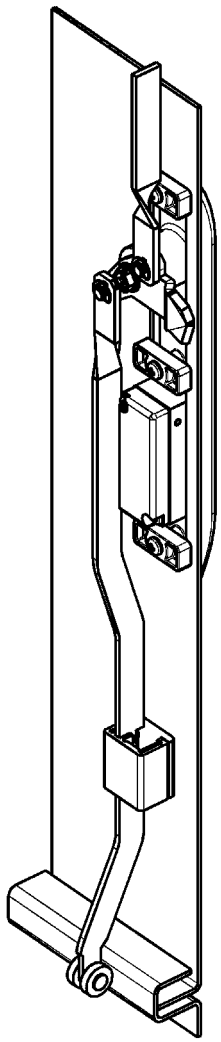
PROGRAM 1180

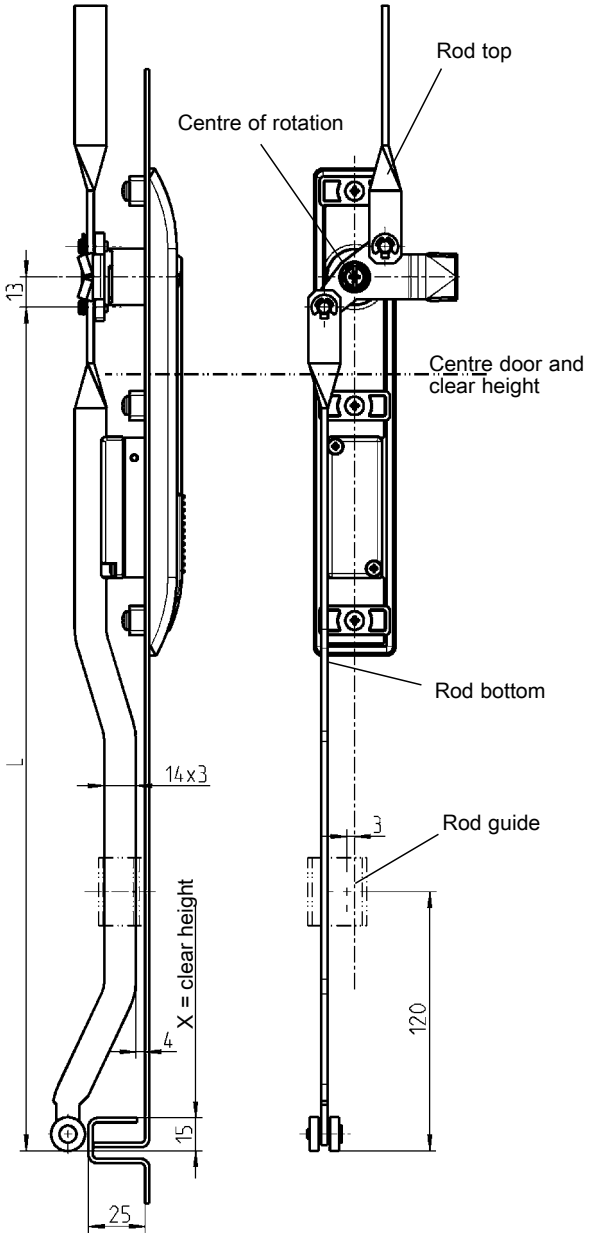
RL



Minimum quantity: 200 pcs.
Smaller quantities on request

Calculation of rod length L:	Version	Swing handle see note A	B
Connection rod top	$L = \frac{X}{2}$	– 55	– 70,5
Connection rod bottom	$L = \frac{X}{2}$	+ 59	+ 74.5
Centre of rotation door centre top and bottom same rod length	$L = \frac{X}{2}$ + 2		





Ts = 2
other door thicknesses on request

Note:
Calculation of connection rod version A or B suitable for
– Swing handle 1180 3E-320 = A
– Swing handle 1185 3E-520 = B

Further parts see page
– Rod control 3ZC-120 to 3ZC-170

Program 1180
– Cam with stroke 26 3YC-120 3YC-140

Flat rod m.s. zinc plated, ramp rollers polyamide black

	1121-U145-L mm
	(1121-U145-01 to -08 see price list)

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Connection rod for cam with stroke 26 mm

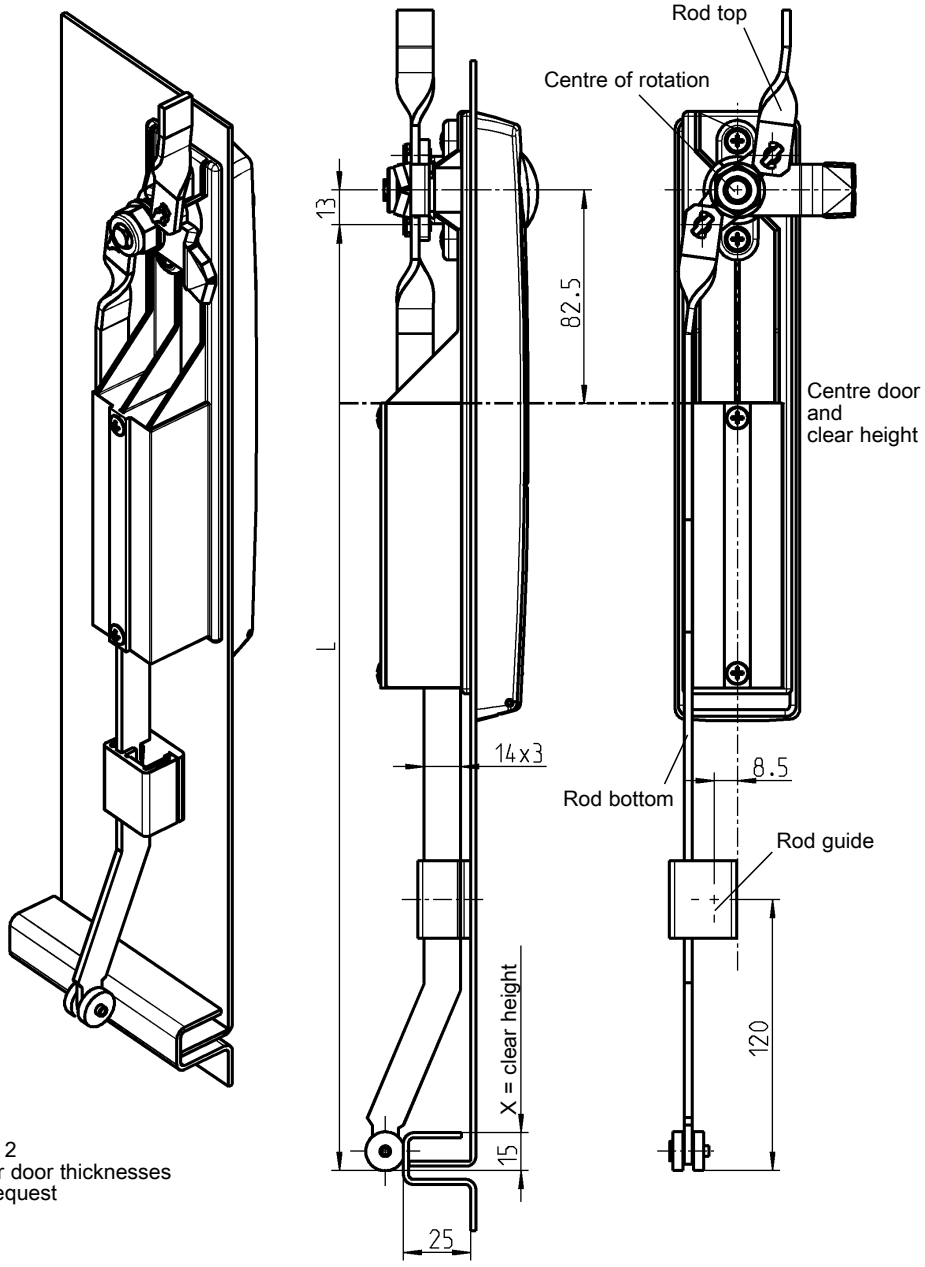
PROGRAM 1225

R L

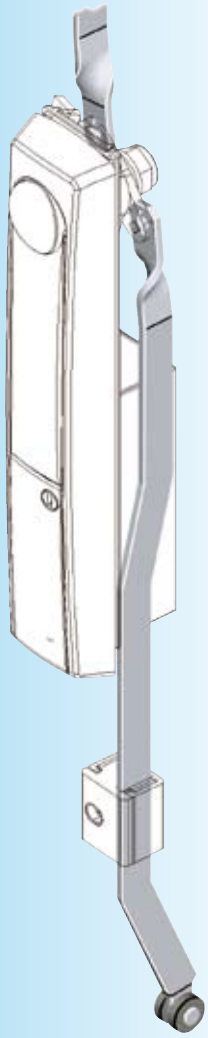
Minimum quantity: 200 pcs.
Smaller quantities on request

Calculation of rod length L

Connection rod top	L=	$\frac{X}{2}$	– 80,5
Connection rod bottom	L=	$\frac{X}{2}$	+ 84.5
Centre of rotation door centre top and bottom same rod length	L=	$\frac{X}{2}$	+ 2



Ts = 2
other door thicknesses
on request



Flat rod m.s. zinc plated, ramp rollers polyamide black		
left	1121-U146-L mm	(1121-U146-01 to -08)
right (depicted)	1121-U147-L mm	(1121-U147-01 to -08)
		see price list

Further parts see page
– Rod control 3ZC-120 to 3ZC-170

Program 1225
– Cam with stroke 26 3YC-140

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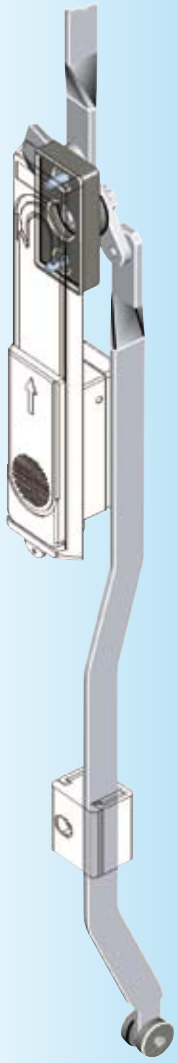
Beschlagteile

Rods for cams with stroke 26 mm

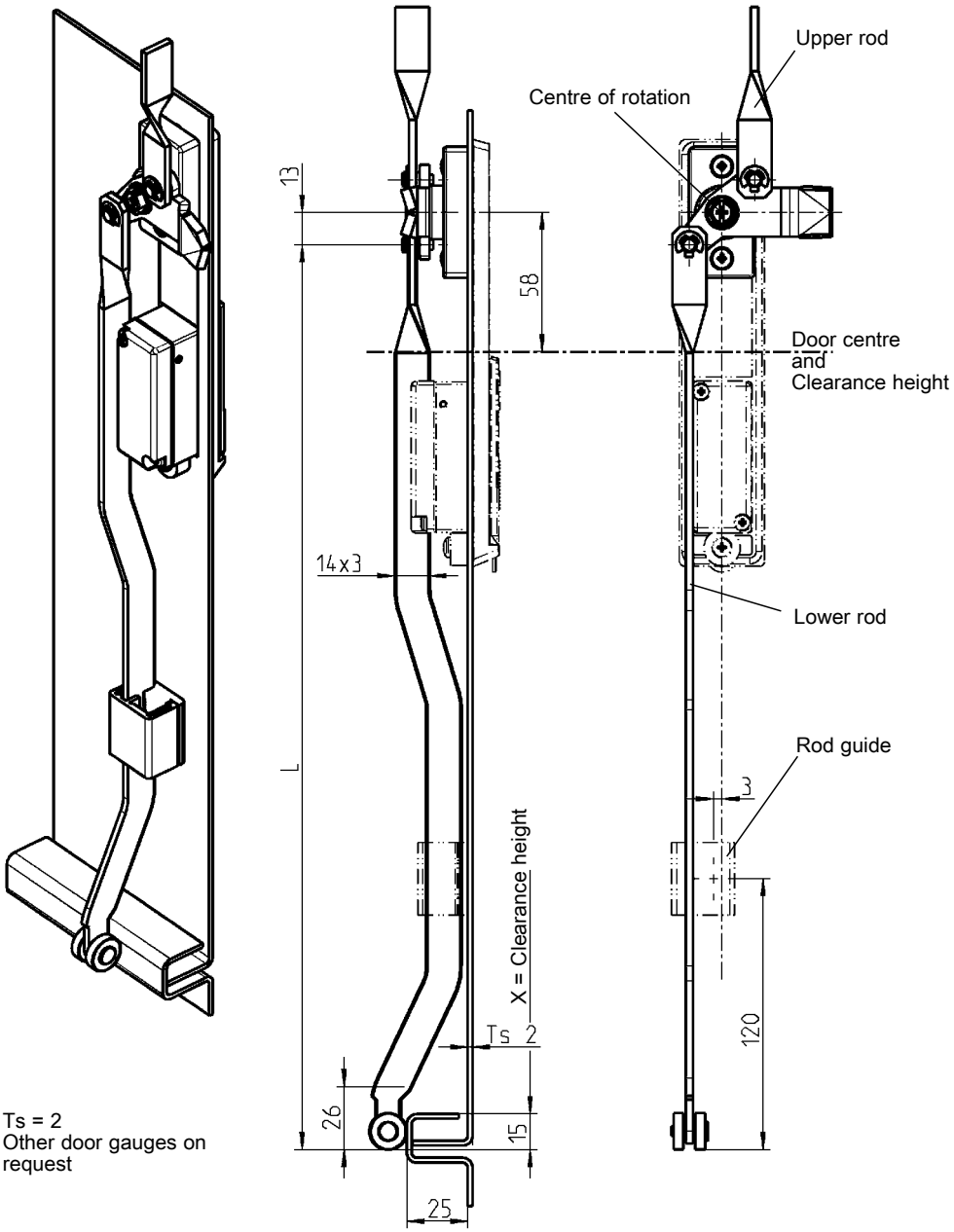
PROGRAM 2100

RL



Minimum order quantity: 200 pieces
Lower quantities on request

How to find dim. L		
Upper rod	$L = \frac{X}{2}$	– 56
Lower rod	$L = \frac{X}{2}$	+ 60
Centre of rotation on door centre, upper and lower rods are the same length	$L = \frac{X}{2}$	+ 2



Ts = 2
Other door gauges on request

Further parts see page
– Rod guide 3ZC-120 up to 3ZC-170

Program 2100
– Cam with stroke 26 3YB-420

Flat rod m.s. zinc pl. with rollers polyamide black	
	1121-U145-L mm
	(1121-U145-01 to -08 see price list)

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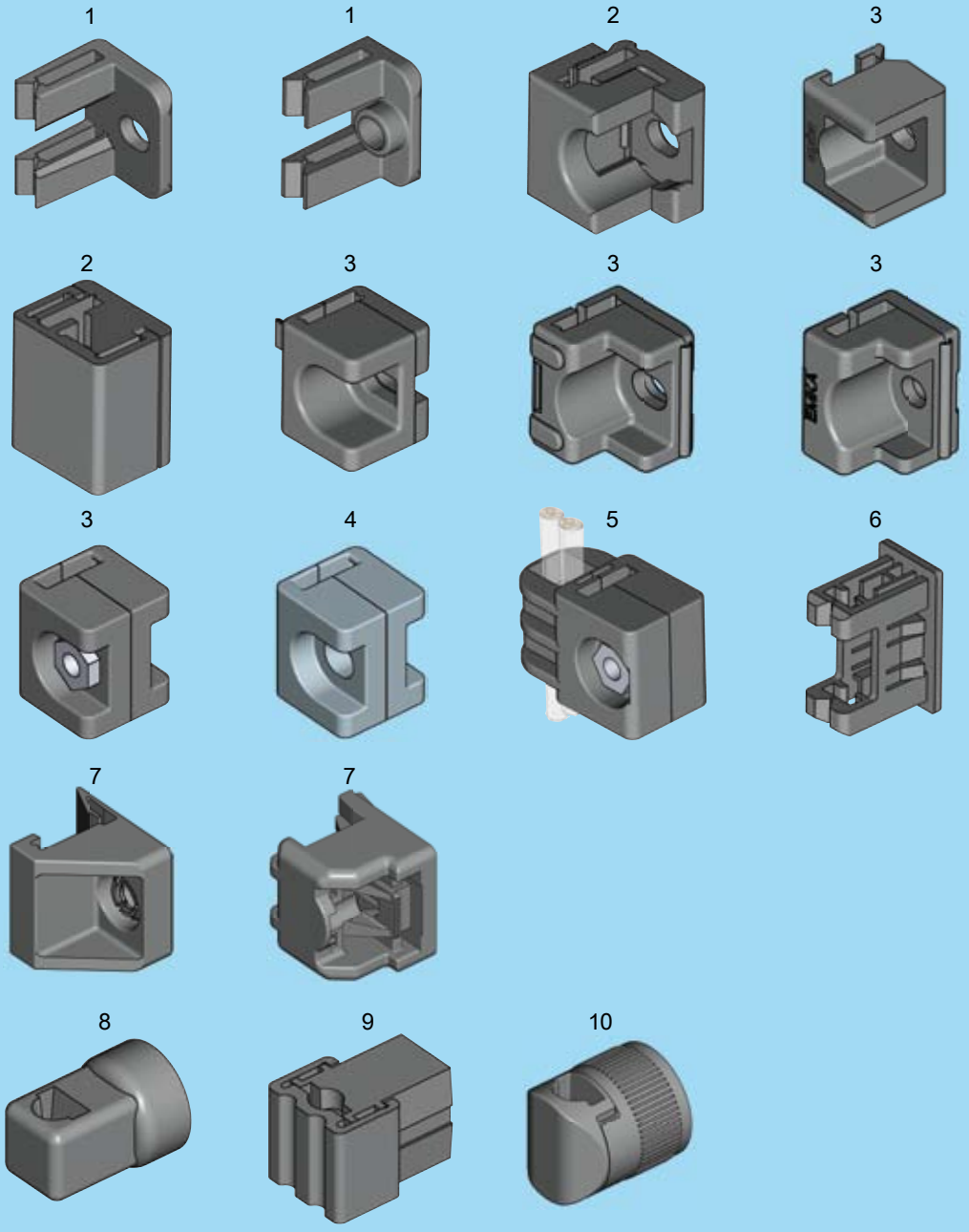
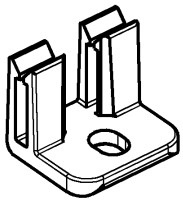
Rod guide
Program 1107, 1125, 1150, 1160, 1180, 1190, 1225, 1317, 1325, 2100, 2300, 2400, 2600, 3000

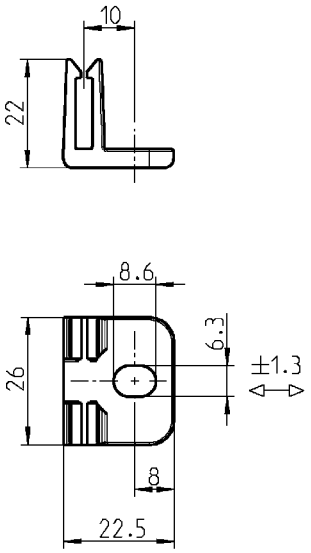


1 for flat rod 3 x 14, flat rod will clip in
2 for flat rod 3 x 14, cover will clip in
3 for flat rod 3 x 14, rod guide can be pre-assembled on rod
4 for flat rod 3 x 14, rod guide stainless steel
5 for flat rod 3 x 14 and cable, rod guide can be pre-assembled on rod
6 for flat rod 3 x 14, rod guide and flat rod will clip in
7 for flat rod 3 x 14, rod guide clipped on and flat rod clipped in
8 for round rod Ø 8
9 for round rod Ø 8, bottom part of rod guide is pre-assembled
10 for round rod Ø 8, rod guide is slipped on and tightened

Rod guide for flat rod 3 x 14

PROGRAM 1107 - 3000

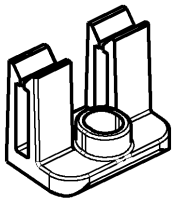


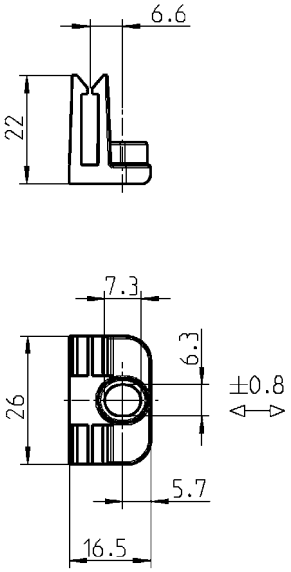


Flat rod will clip in!

Rod guide polyamide black for weld stud M6x12

1121-89



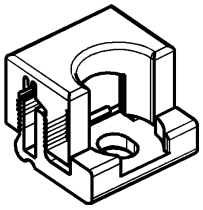


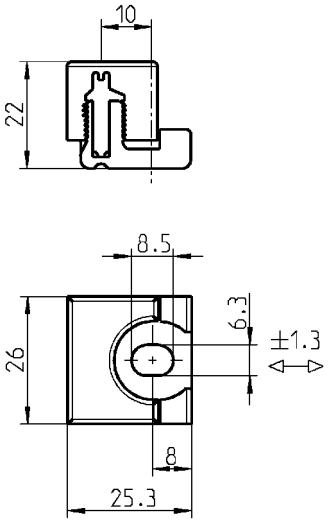
Flat rod will clip in!

For narrow bending area!

Rod guide polyamide black for rivet nut Ø 6x8-M4 and oval head screw DIN 7045 M4x6

1121-89-11



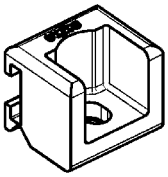


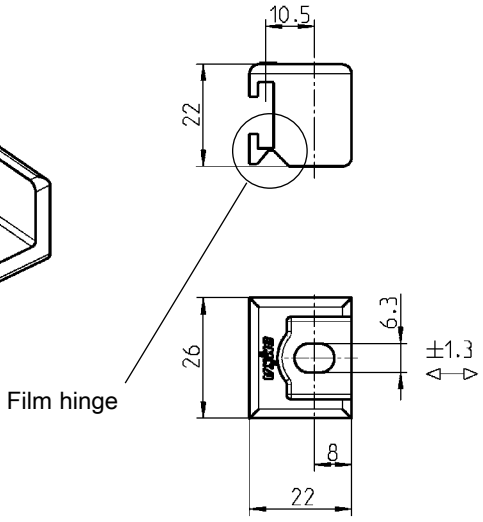
Pre-assembling of the lower part possible!

Cover will be clipped on!

Rod guide polyamide black for weld stud M6x12

1121-U91





Rod guide can be pre-assembled on ´ the flat rod!

Rod guide polyamide black for weld stud M6x10, M6x12 or M6x16

1121-19

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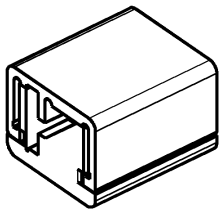
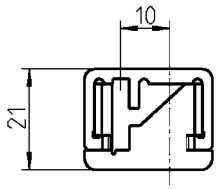
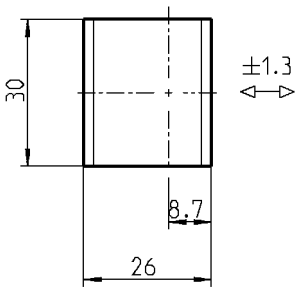




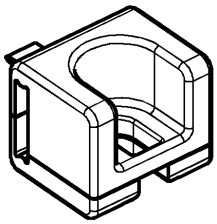


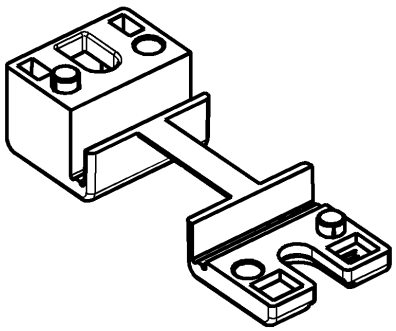
Pre-assembling of the lower part possible!

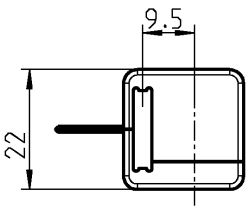
Cover will be clipped on!

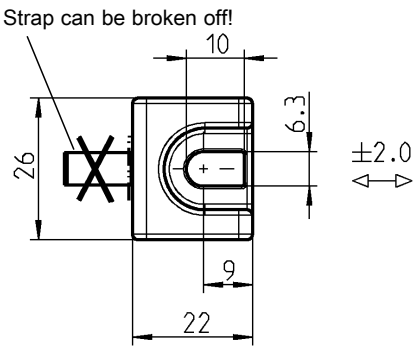
Rod guide polyamide black for weld stud M6x12

1121-U151









Rod guide can be pre-assembled on rod!

Rod guide polyamide black for weld stud M6x16 or M6x20

1121-19-N

Further parts see page

Program 1107; 1317
– Rods 3ZB-320

Program 1125; 1225; 1325
– Rods 3ZA-120
up to 3ZA-340
3ZB-120
up to 3ZB-220
3ZB-420
(only for 1125) 3ZB-440
(only for 1225) 3ZB-720

Program 1150
– Rods 3ZA-120
up to 3ZA-340
3ZB-120
up to 3ZB-220
3ZB-520
3ZB-540

Program 1160
– Rods 3ZA-120
up to 3ZA-420
3ZB-120
up to 3ZB-220

Program 1180
– Rods 3ZA-120
up to 3ZA-340
3ZA-520
3ZB-120
up to 3ZB-220
3ZB-620

Program 1190
– Rods 3ZA-120
to 3ZA-340

Program 2100
– Rods 3ZA-120
to 3ZA-340
3ZB-120
to 3ZB-220
3ZB-820

Program 2300
– Rods 3ZA-620
3ZB-120
to 3ZB-220

Program 2400
– Rods 3ZA-720
3ZA-820

Program 2600
– Rods 3ZA-920

Program 3000
– Rods 3ZA-120
to 3ZA-340
3ZB-120
to 3ZB-220

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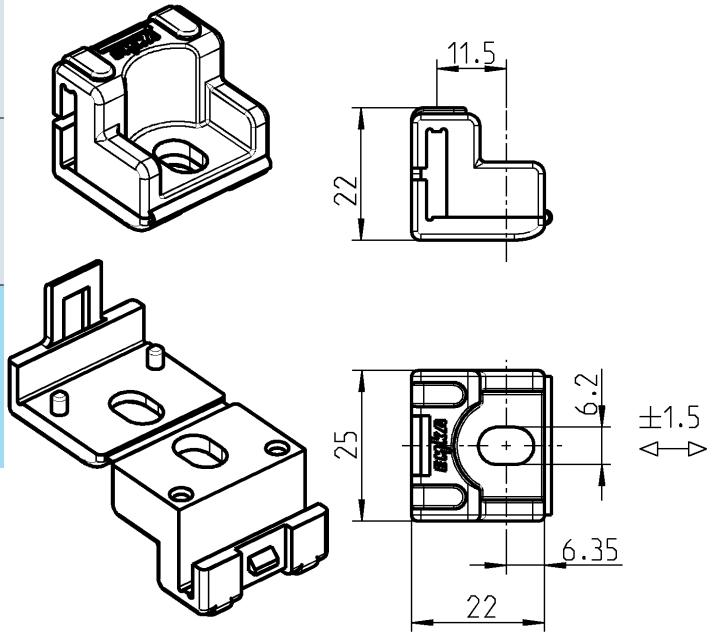
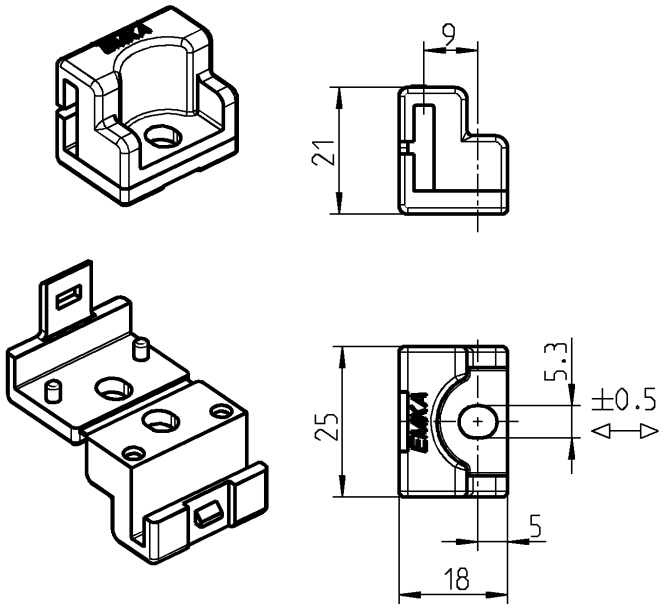
Rod guide for flat rod 3 x 14

PROGRAM 1107, 1125, 1150, 1160, 1180, 1190, 1225, 1325, 2100, 2300 - 3000



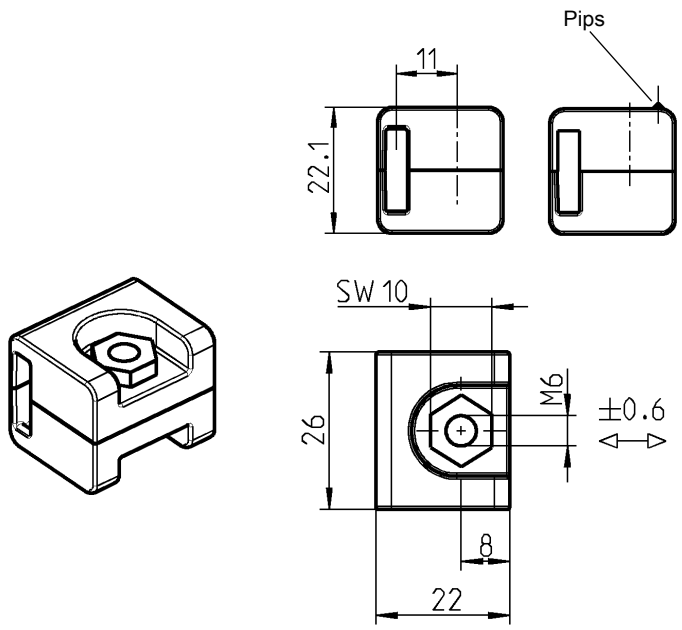
Rod guide can be pre-assembled on rod!



Rod guide can be pre-assembled on flat rod!

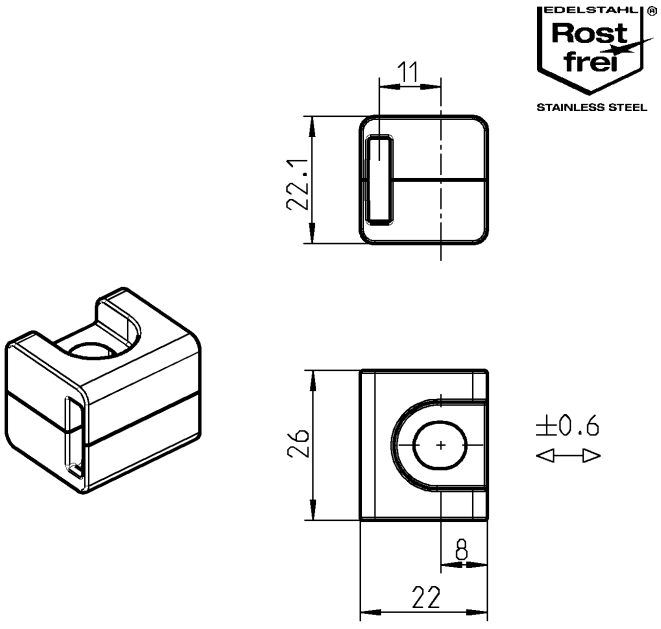
Rod guide polyamide black for weld stud M6x12	1121-109

Rod guide polyamide black for weld stud M5x12	1121-106



Pips avoid “door rattling”

Rod guide can be pre-assembled on rod!



Rod guide polyamide black, safety nut m.s. zinc plated for weld studs or countersunk screw M6x16 or M6x20	
without pips	1121-U71-N
with pips	1121-U74-N

Rod guide AISI 316 for weld stud or countersunk screw M6x20	
	1121-U71-PH

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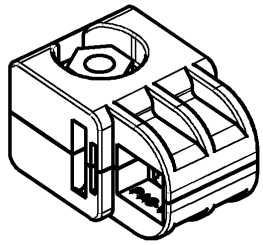
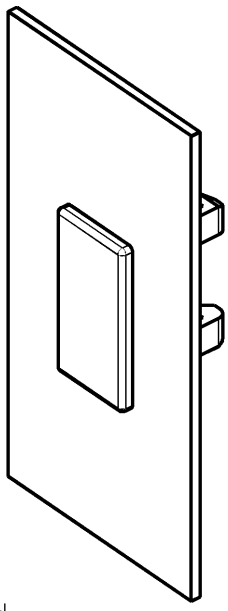
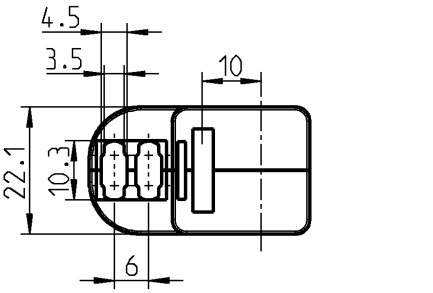
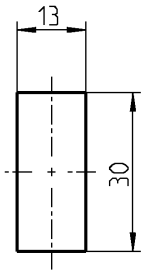
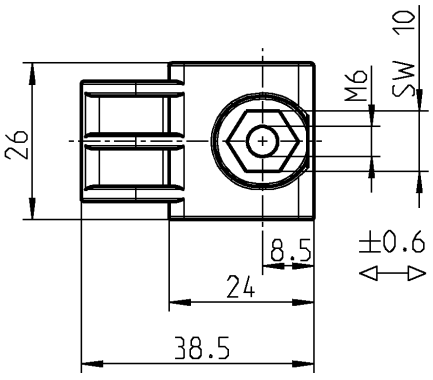


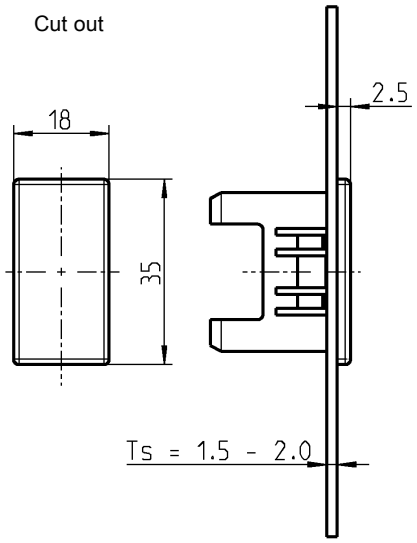






Cut out





Rods with cable guide for different cable diameters.
Depending on the diameter up to 6 cables can be used.

Rod guide can be pre-assembled on flat rod!

Flat rod will clip in!

Rod guide
polyamide black, safety nut m.s. zinc plated
for weld studs or counter sunk screw
M6x16 or M6x20

1121-U87-N

Rod guide
polyamide black

2300-04

Further parts see page

Programm 1107; 1317
– Rods 3ZB-320

Program 1125; 1225; 1325
– Rods 3ZA-120
up to 3ZA-340
3ZB-120
up to 3ZB-220
3ZB-420
(only for 1125) 3ZB-440
(only for 1225) 3ZB-720

Program 1150
– Rods 3ZA-120
up to 3ZA-340
3ZB-120
up to 3ZB-220
3ZB-520
3ZB-540

Program 1160
– Rods 3ZA-120
up to 3ZA-420
3ZB-120
up to 3ZB-220

Program 1180
– Rods 3ZA-120
up to 3ZA-340
3ZA-520
3ZB-120
up to 3ZB-220
3ZB-620

Program 1190
– Rods 3ZA-120
to 3ZA-340

Program 2100
– Rods 3ZA-120
to 3ZA-340
3ZB-120
to 3ZB-220
3ZB-820

Program 2300
– Rods 3ZA-620
3ZB-120
to 3ZB-220

Program 2400
– Rods 3ZA-720
3ZA-820

Program 2600
– Rods 3ZA-920

Program 3000
– Rods 3ZA-120
to 3ZA-340
3ZB-120
to 3ZB-220

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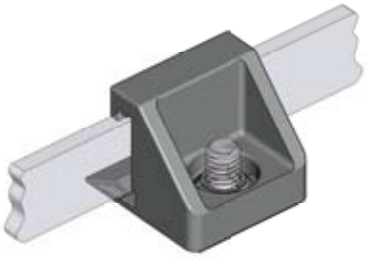
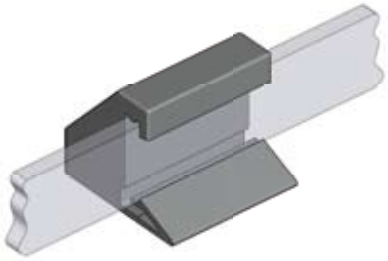
Rod guide clip in for flat rod 3x14

PROGRAM 1107 - 3000

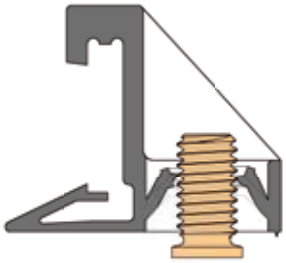
Stripping force: $F_{max.}$ = 350 N
Application force: Typical value F ≈ 135 N

These values refer to thread with surface raw or zinc plated and fat free.

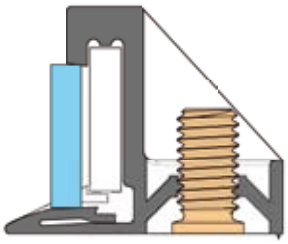




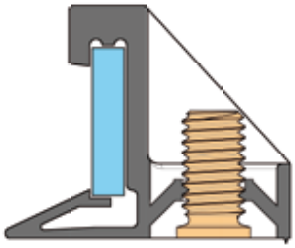
Flat rod and weld stud depicted transparent



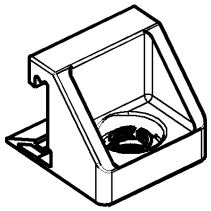
1.
Assembly of rod guide of weld stud

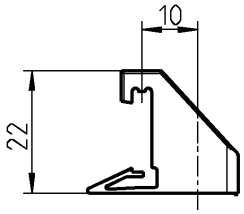


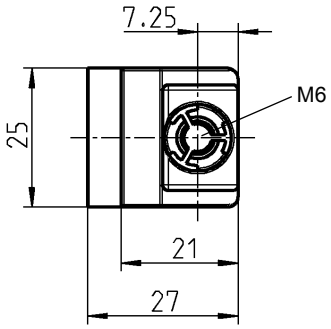
2.
Assembly of flat rod into the rod guide



3.
Rod guide fully assembled







Further parts see page

Programm 1107; 1317
– Connection rods 3ZB-320

Program 1125; 1225; 1325
– Connection rods 3ZA-120 to 3ZA-340, 3ZB-120 to 3ZB-220, 3ZB-420
(only for 1125) 3ZB-440
(only for 1225) 3ZB-720

Program 1150
– Connection rods 3ZA-120 to 3ZA-340, 3ZB-120 to 3ZB-220, 3ZB-520, 3ZB-540

Program 1160
– Connection rods 3ZA-120 to 3ZA-420, 3ZB-120 to 3ZB-220

Program 1180
– Connection rods 3ZA-120 to 3ZA-340, 3ZA-520, 3ZB-120 to 3ZB-220, 3ZB-620

Program 1190
– Connection rods 3ZA-120 to 3ZA-340

Program 2100
– Connection rods 3ZA-120 to 3ZA-340, 3ZB-120 to 3ZB-220, 3ZB-820

Program 2300
– Connection rods 3ZA-620, 3ZB-120 to 3ZB-220

Program 2400
– Connection rods 3ZA-720, 3ZA-820

Program 2600
– Connection rods 3ZA-920

Program 3000
– Connection rods 3ZA-120 to 3ZA-340, 3ZB-120 to 3ZB-220

Rod guide clip in plastic black for weld stud M6x10 or M6x12

1121-127

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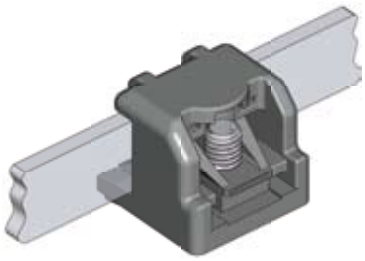
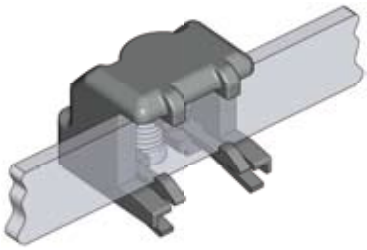
Rod guide clip-in type for flat rod 3x14

PROGRAM 1107 - 3000

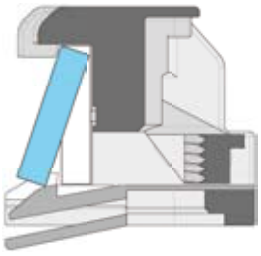
Stripping force: $F_{max.}$ = 650 N
Application force: Typical value F = very low

These values refer to threads with fat-free surface.

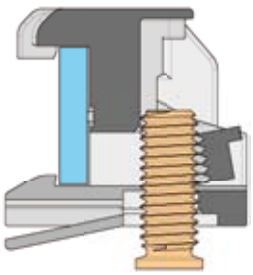




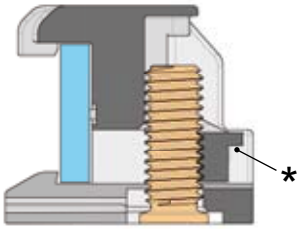
Flat rod and weld stud depicted transparent



1.
Mounting of flat rod into rod guide

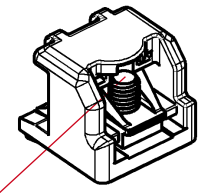


2.
Rod guide can be pre-assembled on weld stud

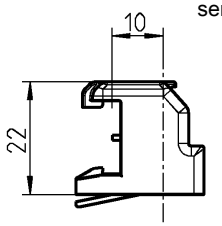


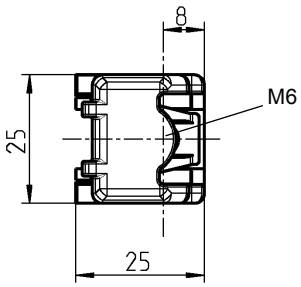
3.
Rod guide pre-assembled

*
Strap has to be lifted for disassembly



ADVANTAGE
The rod guide can also be clipped in in case of powder coated weld studs and still provides a high stripping force!





Rod guide clip-in type polyamide black for weld stud M6x16 or M6x20

1121-135

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Further parts see page

Programm 1107; 1317
– Connection rods 3ZB-320

Program 1125; 1225; 1325
– Connection rods 3ZA-120 to 3ZA-340, 3ZB-120 to 3ZB-220, 3ZB-420
(only for 1125) 3ZB-440
(only for 1225) 3ZB-720

Program 1150
– Connection rods 3ZA-120 to 3ZA-340, 3ZB-120 to 3ZB-220, 3ZB-520, 3ZB-540

Program 1160
– Connection rods 3ZA-120 to 3ZA-420, 3ZB-120 to 3ZB-220

Program 1180
– Connection rods 3ZA-120 to 3ZA-340, 3ZA-520, 3ZB-120 to 3ZB-220, 3ZB-620

Program 1190
– Connection rods 3ZA-120 to 3ZA-340

Program 2100
– Connection rods 3ZA-120 to 3ZA-340, 3ZB-120 to 3ZB-220, 3ZB-820

Program 2300
– Connection rods 3ZA-620, 3ZB-120 to 3ZB-220

Program 2400
– Connection rods 3ZA-720, 3ZA-820

Program 2600
– Connection rods 3ZA-920

Program 3000
– Connection rods 3ZA-120 to 3ZA-340, 3ZB-120 to 3ZB-220

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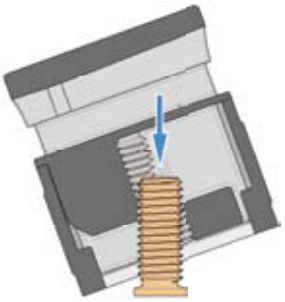
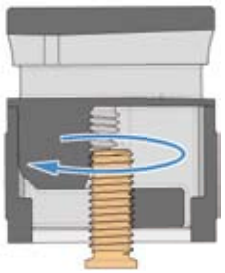
Beschlagteile

®Rod guide quick assembly for round rods 8 mm

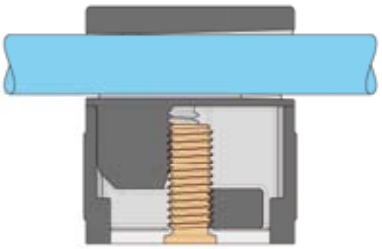
PROGRAM 1107 - 3000



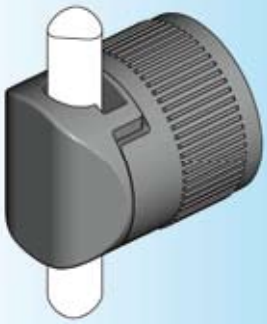
1.
Place the rod guide on weld stud.
(Hereby the time-consuming screwing is reduced considerbly.)

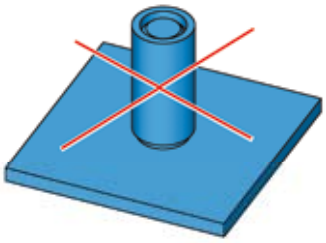
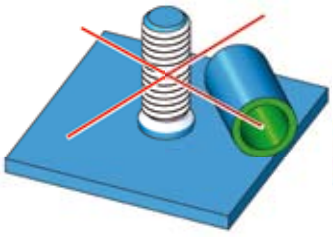


2.
Set the rod guide upright. This makes it snap in place noticeably and audibly; and it can then be secured by only a few rotations.

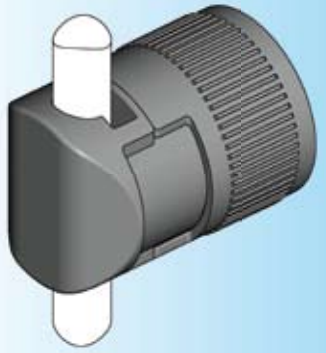


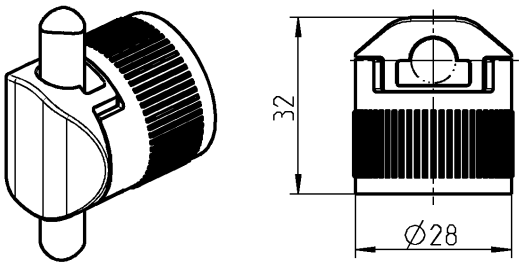
3.
Rod guide is completely mounted.

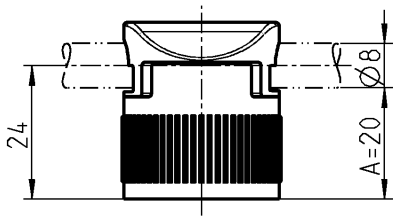


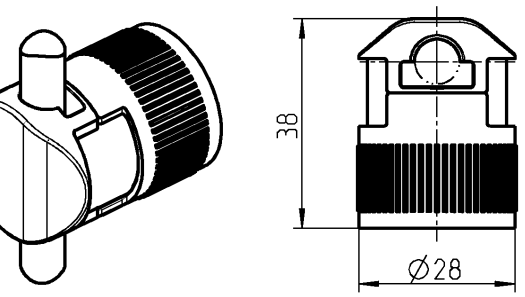
ADVANTAGE
This rod guide is suitable for raw and powder coated weld studs.
The covering of the weld stud before powdering can be omitted, this results in process optimization and cost saving.

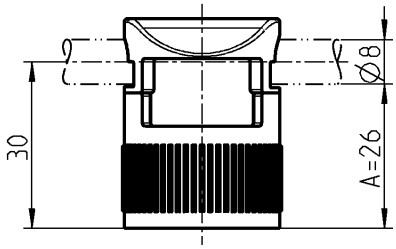






Note:
Rod guide suitable for dimensions of A=20 and A=26





Further parts see page

Program 1107, 1125, 1150, 1180, 1225, 1325, 2100, 3000
– Connection rods 3ZB-120
3ZB-180

Rod guide polyamide GF black		
A	**for weld stud**	
20	M6x16	1001-U47
26	M6x20	

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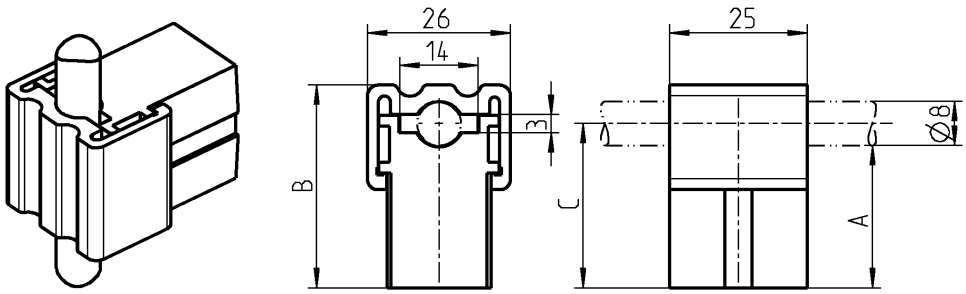
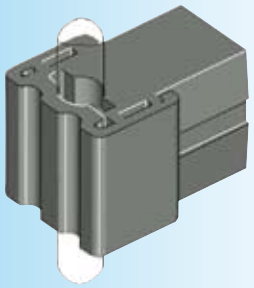
Rod guide for round rods 8 mm

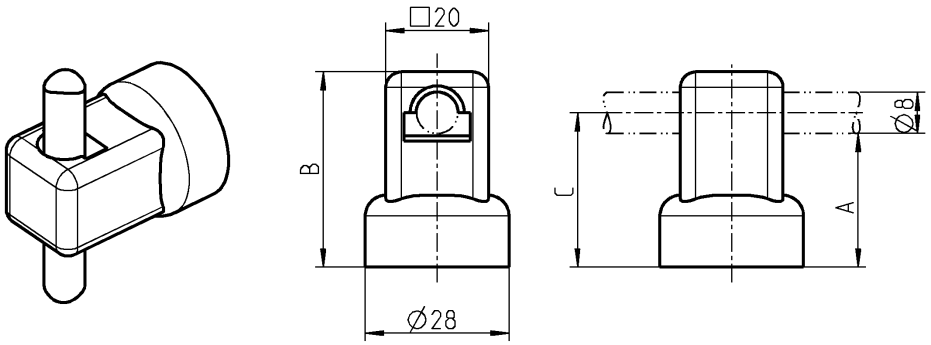
PROGRAM 1107 - 3000

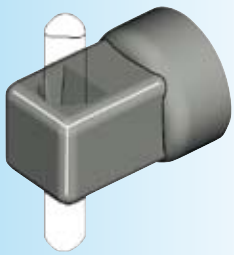




Note:
Rod guide can also be used for horizontal flatrods 3x14

Rod guide polyamide black				
A	**B**	**C**	**for weld stud**	
20	31	24	M6x12-20	1001-U40
26	37	30	M6x12-20	1001-U41





Rod guide polyamide black with flush countersunk cap nut m.s. zinc plated				
A	**B**	**C**	**for weld stud**	
20	32	24	M6x16	1001-U11
26	38	30	M6x20	1001-U12

Further parts see page

Program 1107, 1125, 1150, 1180, 1225, 1325, 2100, 3000
– Connection rods 3ZB-120
3ZB-180

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Hinges for prominent doors (chapter 4A)

4A-120	4A-121	4A-130	4A-133	4A-135	4A-136	4A-137	4A-138	4A-139	4A-140	4A-145	4A-150	4A-160	4A-170	4A-190	4A-210	4A-215
							●	●			●		●		●	●
●	●	●	●	●	●	●			●	●	●	●		●		
					●	●									●	
●	●	●	●	●									●	●		●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
							●	●			●		●	●	●	●
							●	●							●	
120°	135°/180°	120°	120°	120°/135°	125°	115°/135°	180°	180°	180°	180°	180°	180°	180°	120°	180°	180°
	●			●			●		●	●	●	●				
									●							
							●	●	●		●		●	●	●	●
●	●	●		●	●										●	
●		●	●		●	●				●	●	●			●	
●	●	●	●	●	●	●										
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
							●	●	●	●	●	●			●	●
20	20/22	22/26	26	22/25	25	24/26	20	25	16/25	25	20	20	25	25	26	25

Hinges for flush doors and aluminium profiles (chapter 4B)

4B-120	4B-130	4B-140	4B-160	4B-170	4B-190	4B-200	4B-205	4B-207	4B-210	4B-212	4B-213	4B-215	4B-220	4B-230	4B-240	4B-243
			●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●														
●	●	●								●	●				●	●
												2D				
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●			●	●	●	●	●	●	●	●	●	●	●	●
90°	90°	180°	180°	180°	180°	180°/270°	180°	180°	180°	180°	180°	180°	180°	180°	180°	160°
					●	●		●							●	
					●	●	●		●	●	●	●		●	●	●
●	●	●	●	●												
●	●		●		●	●	●		●	●	●		●			
														●		
●	●	●		●												
			●	●	●	●	●	●	●	●	●	●	●	●	●	●
					●			●							●	

Pin hinges (chapter 4C)

4C-120	4C-130															
	●															
●																
●																
●																
●																
	●															

x = variable Note: Hinges should be greased prior to use

4A-220	4A-250	4A-260	4A-280	4A-285	4A-290	4A-295	4A-300	4A-310	4A-450	4A-460	4A-480	Beschlagteile
●	●	●	●	●	●	●	●	●	●	●		Prominent hinge
			●								●	Concealed hinge
●				●	●	●	●				●	Lift-off version
												Restricted lift-off version
●	●	●	●	●	●	●	●	●	●	●	●	For single cabinets
●						●			●	●		For in-line cabinets with single door
●						●			●	●		For in-line cabinets with double door
180°	180°	180°	130°/180°	180°	180°	180°	180°	180°	180°	180°	120°	Opening angle
		●									●	Door cut out
				●								Polyamide
●			●	●		●		●	●	●	●	Zinc die
	●	●	●		●	●	●	●	●	●		Mild steel
	●			●			●					Stainless steel
		●										For pressure-resistant door
		●	●		●	●	●	●				Weld-on hinge
●	●	●	●	●	●	●		●	●	●	●	Screw-on hinge
●												Clamping hinge
20	X	x/12-14	X	X	X	x/18-23,5	X	X	20/25	10/25	25	Door return

4B-245	4B-248	4B-250	4B-255	4B-260	4B-280	4B-290	4B-300	4B-320				
●	●	●	●	●	●	●	●	●				Prominent hinge
												Concealed hinge
												Lift-off version
												Restricted lift-off version
	2D	2D	3D	3D				●				Adjustable 2D/3D
●	●	●	●	●	●	●	●	●				For single cabinets
●	●	●	●	●	●	●	●	●				For in-line cabinets with single door
●												For in-line cabinets with double door
180°	180°	180°	180°	180°	180°	180°	180°	180°				Opening angle
												Door cut out
●							●					Polyamide
	●	●	●	●	●	●	●					Zinc die
												Mild steel
					●			●				Stainless steel
												For aluminium profiles
												Weld-on hinge
●	●	●	●	●	●	●	●	●				Screw-on hinge
												Clamping hinge

												Polyamide
												Mild steel
												Stainless steel
												Weld-on hinge
												Screw-on hinge
												Clip-in hinge

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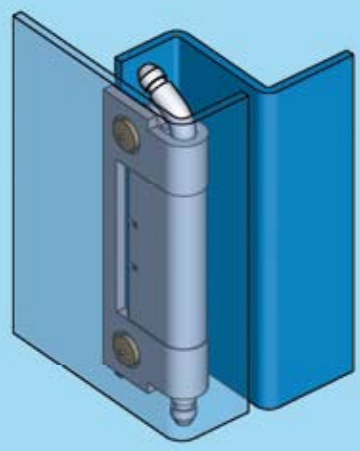
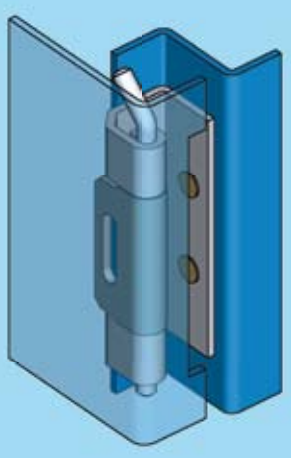
Hinge
for prominent door

1



Door pictured transparent

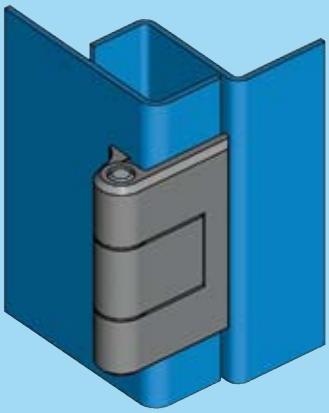
1



Door pictured transparent

2

3



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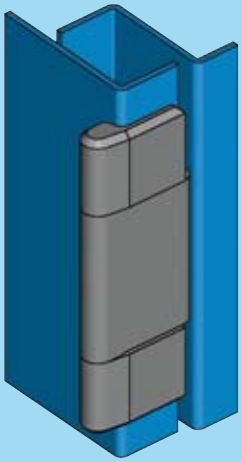

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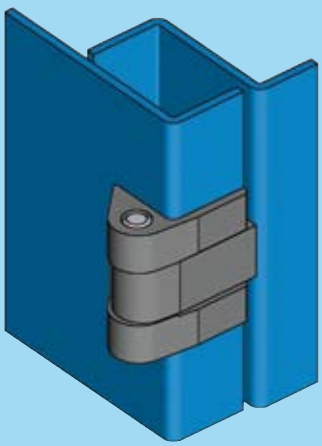

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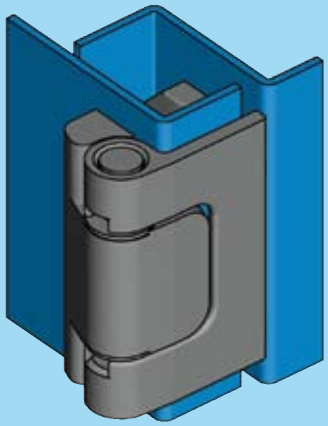

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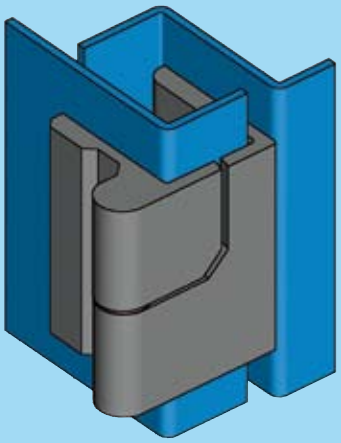

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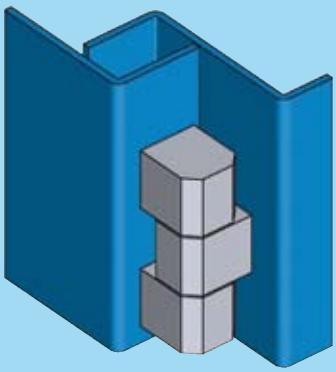

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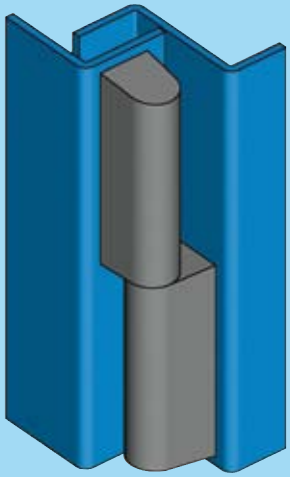

1	120° to 135° concealed hinge	4A-120 up to 4A-135, 4A140 4A-150, 4A-190, 4A-280
2	120° concealed hinge and lift-off version	4A-190
3	180° prominent hinge	4A-138, 4A-150, 4A-160, 4A-450, 4A-460
4	180° prominent hinge and lift-off version	4A-170, 4A-210 up to 4A-220
5	180° prominent hinge	4A-250 up to 4A-280, 4A-310
6	180° prominent hinge and lift-off version	4A-285 up to 4A-300

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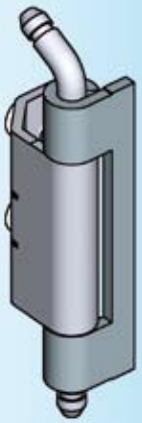
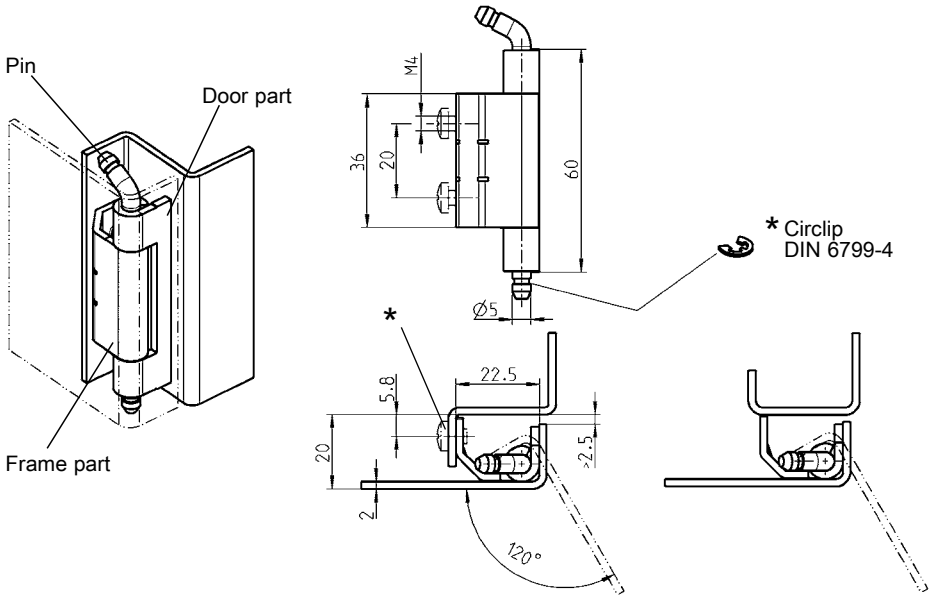
120° hinge

PROGRAM 1069

EDELSTAHL Rost frei STAINLESS STEEL

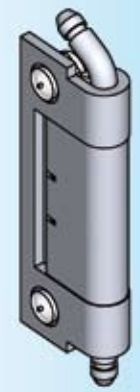
120° hinge
for 20 mm door return

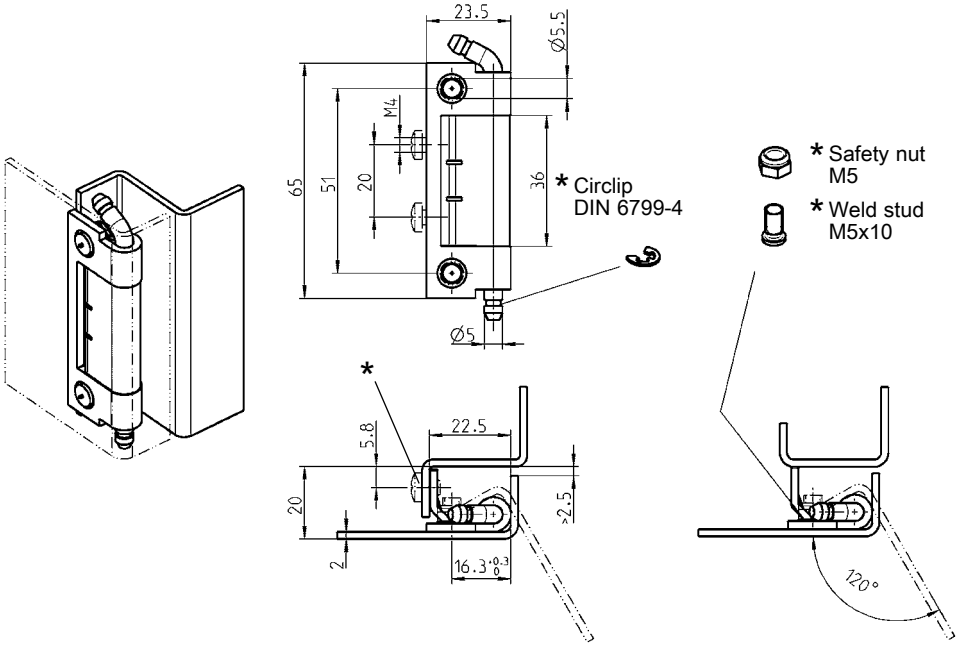




Hinge m.s. zinc pl. or stainl. steel; weld-on part m.s. raw or AISI 304			
screw-on m.s.	1069-U1	weld-on m.s.	1069-U2
screw-on AISI 304	1069-U4	weld-on AISI 304	1069-U3

120° hinge for weld stud fastening
for 20 mm door return





* not included

Further parts see page
– Fixing material 12E-100

Hinge m.s.zinc pl.; screw-on		Hinge m. s. zinc pl; weld-on	
	1069-U6	weld-on part m.s. raw	1069-U5

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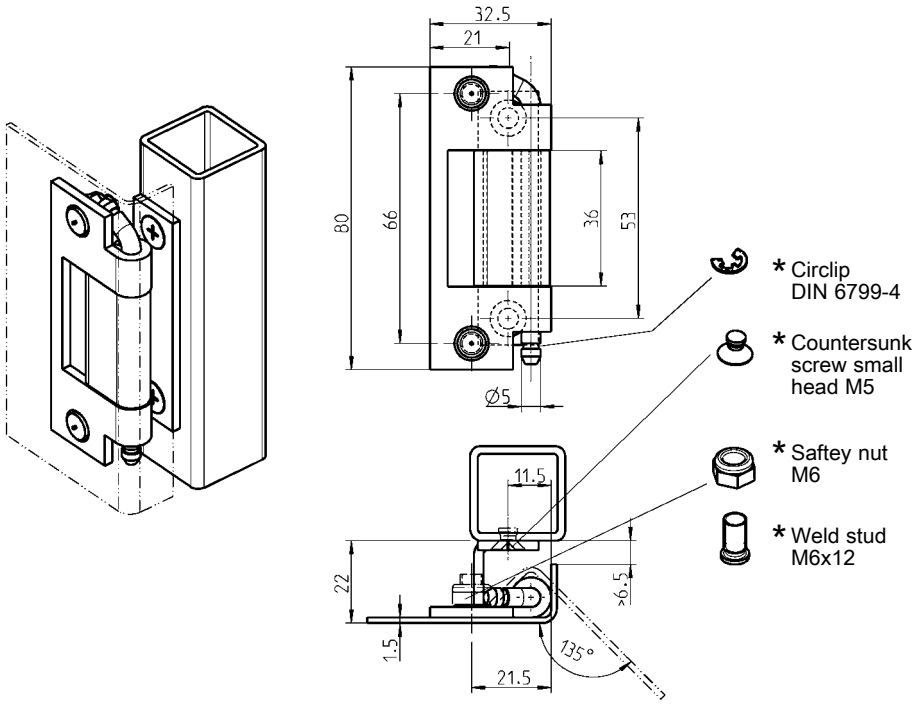
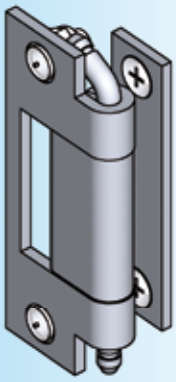
Hinge

PROGRAM 1032, 1110

135° hinge for 22 mm door return



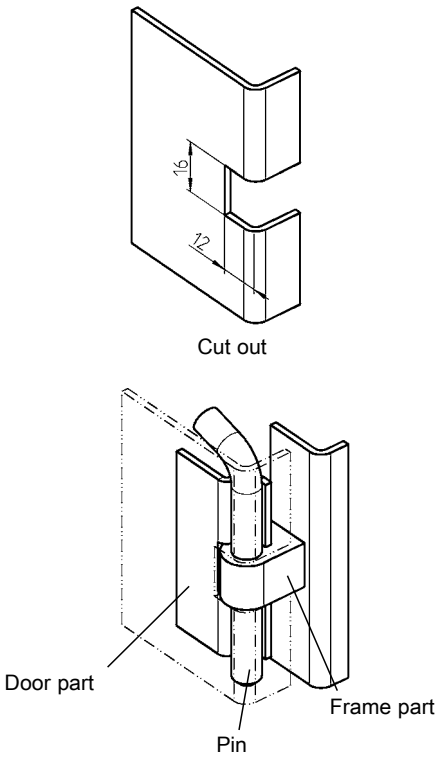


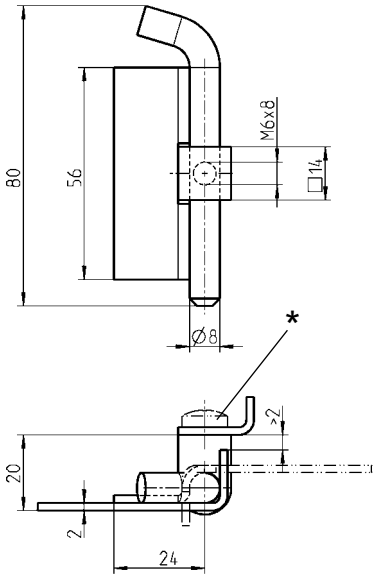
Hinge m.s. zinc pl.

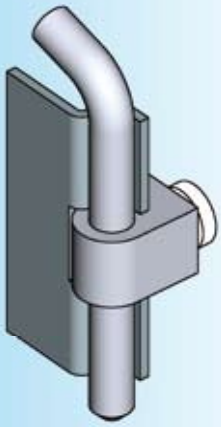
	1032-U6

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

180° hinge for 20 mm door return







* not included

Further parts see page
– Fixing material 12E-100

Hinge m. s. zinc pl.;weld-on parts raw

	1110-U1

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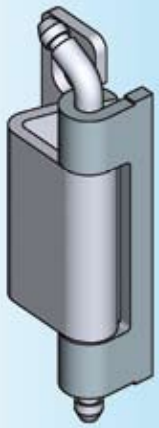
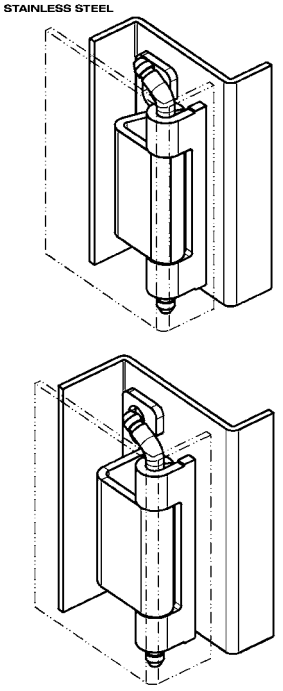
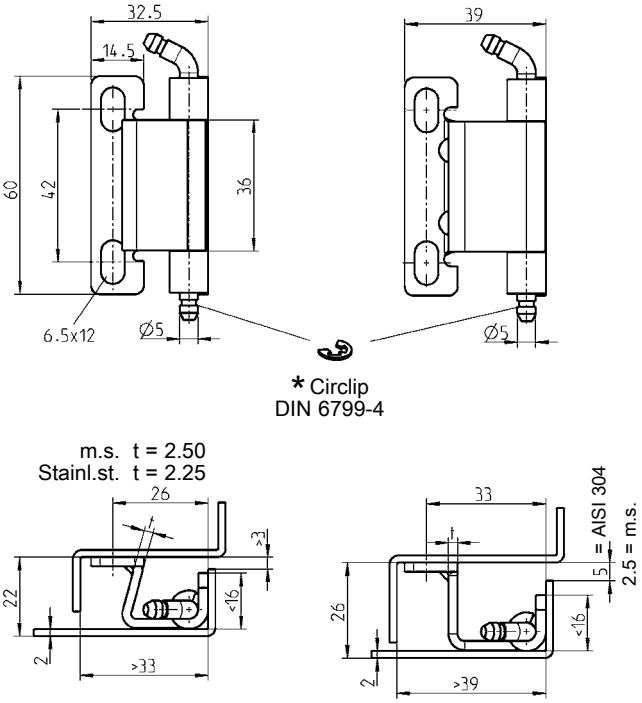
120° hinge

PROGRAM 1032



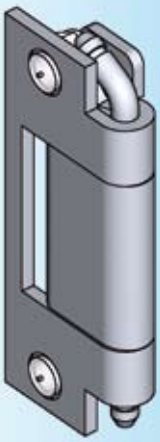
120° hinge for 22 or 26 mm door return

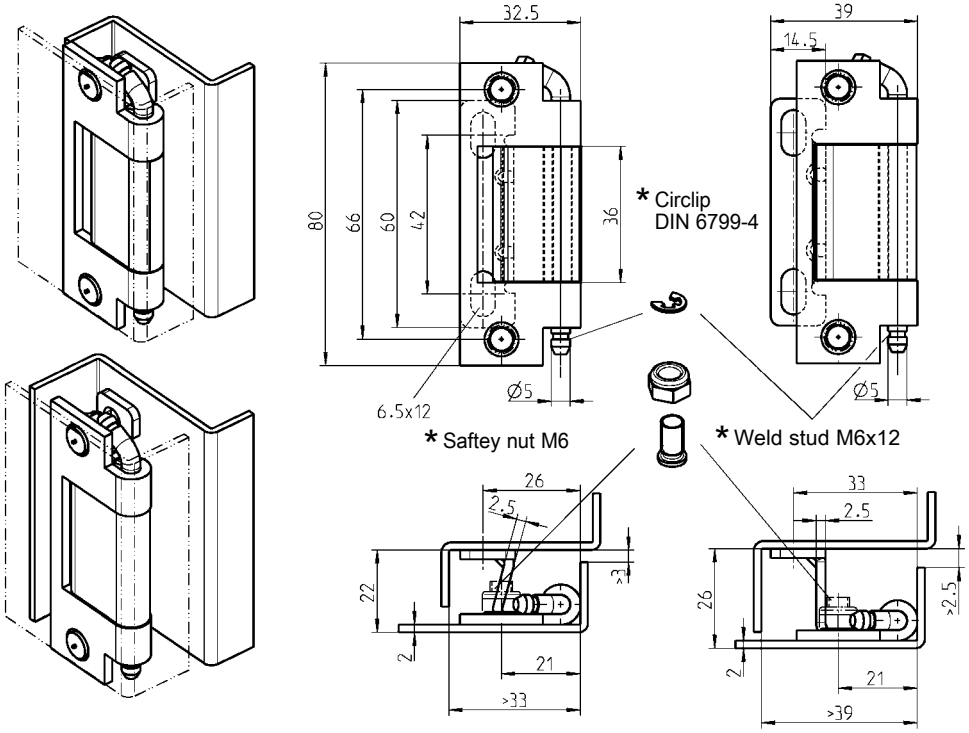




120° hinge m.s. zinc plated or stainless steel; weld-on part m.s. raw or AISI 304			
St (dim. 22)	1032-U1	m.s. (dim. 26)	1031-U1
AISI (Size 22)	1032-U2	AISI (dim. 26)	1031-U2

120° hinge for weld-stud fastening





Hinge m.s. zinc pl.			
(Dim. 22)	1032-U5	(Dim. 26)	1031-U10

* not included

Further parts see page
– Fixing material 12E-100

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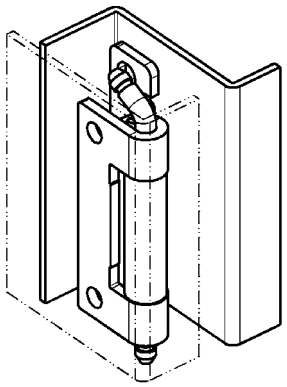
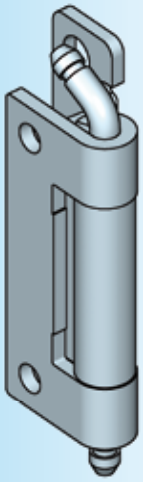
120° hinge

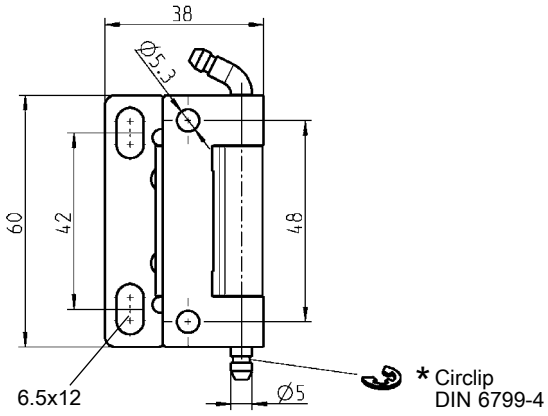
PROGRAM 1031

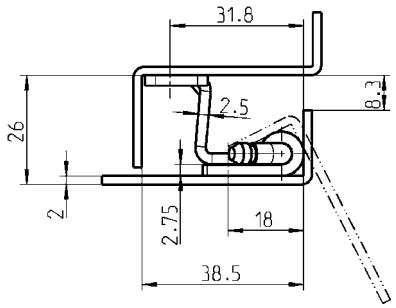
EDELSTAHL Rostfrei STAINLESS STEEL

INOX AISI 3..









* not included

120° hinge AISI 304

1031-U17-PC

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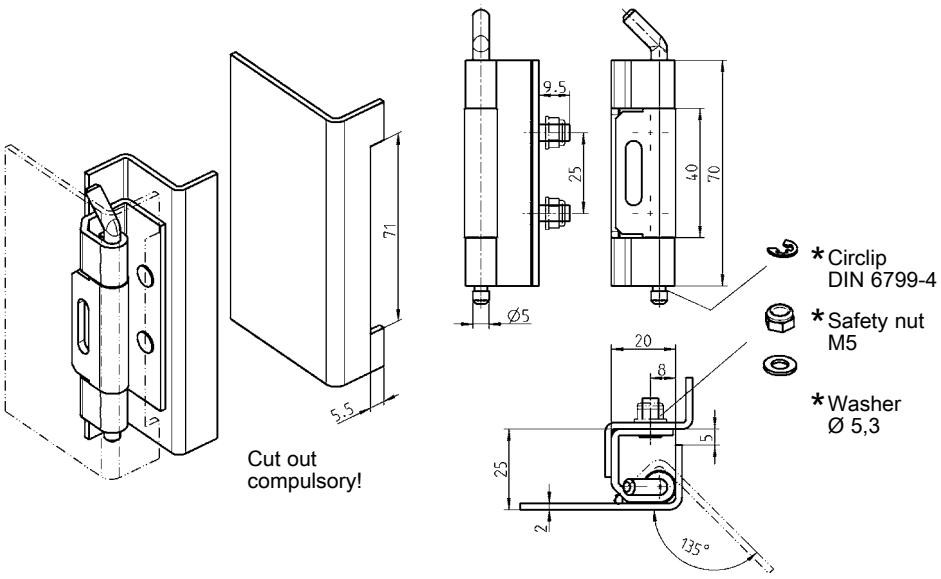
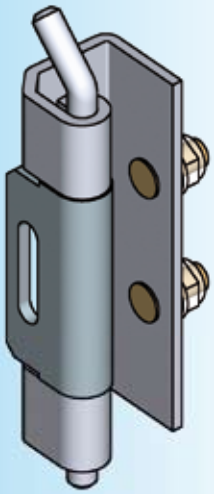
Notes:

Hinge

PROGRAM 1069, 1031

135° hinge for 20/25 mm door return

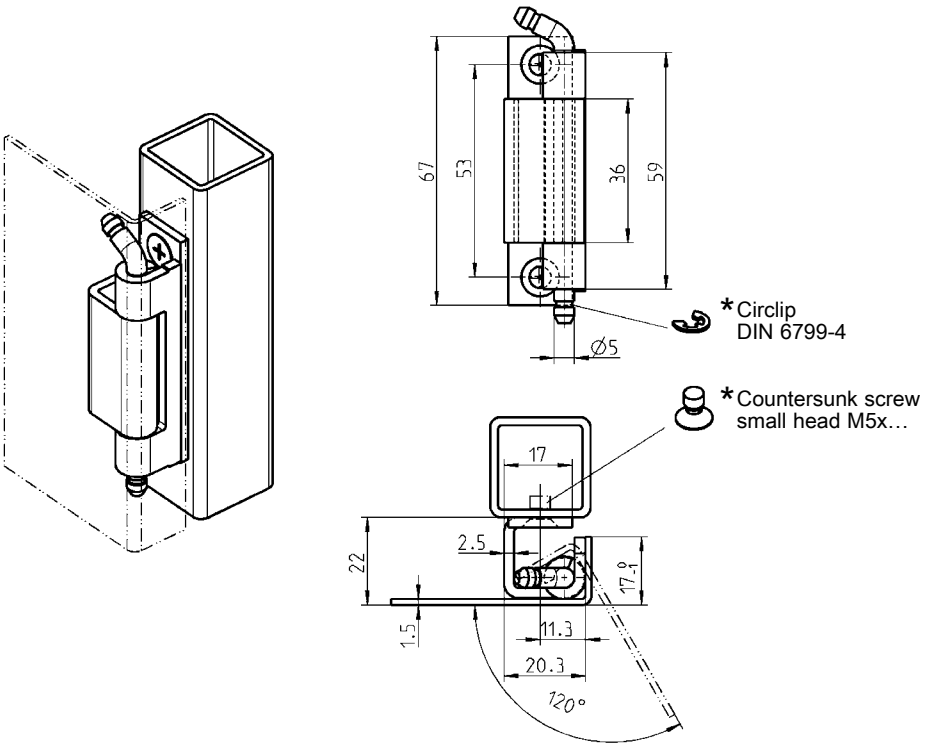


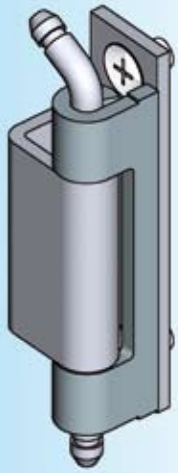


**Frame part m.s. zinc plated with studs M5x12;
door part m.s. raw weld-on version; pin m.s. zinc plated**

1069-U7

120° hinge for 22 mm door return





* not included

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

Further parts see page
– Fixing material 12E-100

120° hinge m.s. zinc plated; weld-on part m.s. raw

1031-U7

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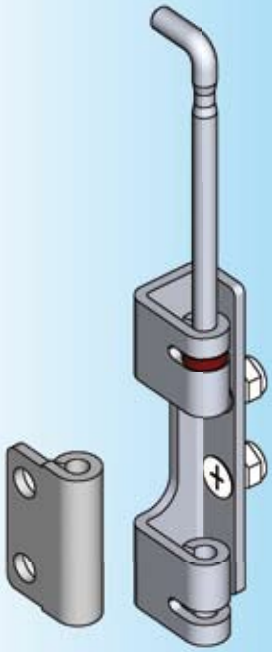
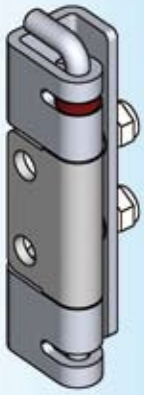
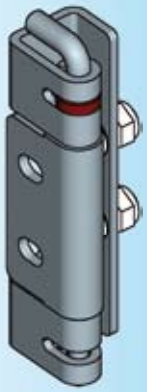
125° hinge with captive pin

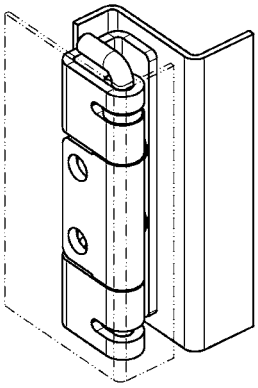
PROGRAM 1031

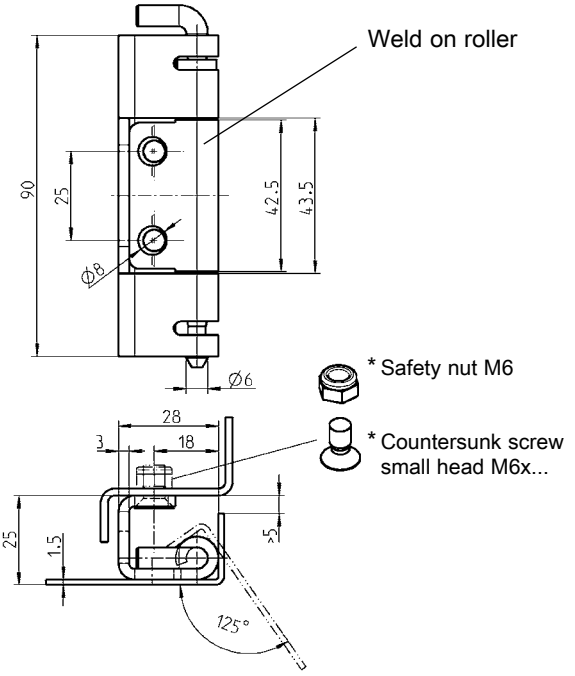






125° hinge for single cabinets
for 25 mm door return

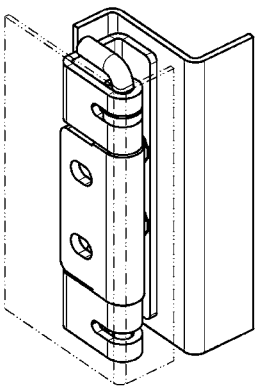


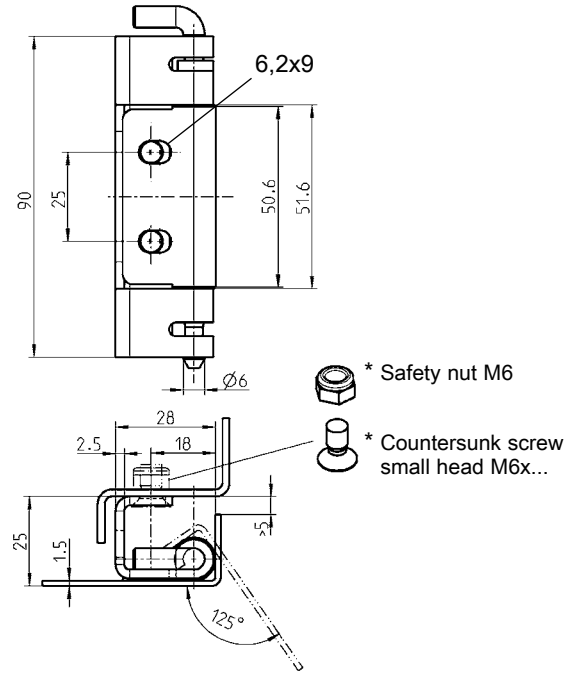


125° hinge m.s. zinc pl.; roller m.s. raw, pin clamping ring POM red	
	1031-U12

EDELSTAHL Rostfrei STAINLESS STEEL

125° hinge for single cabinets
for 25 mm door return





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

* not included

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

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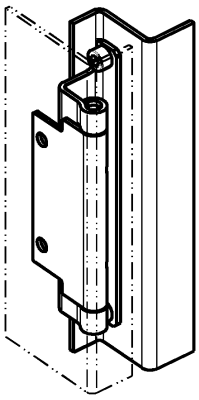
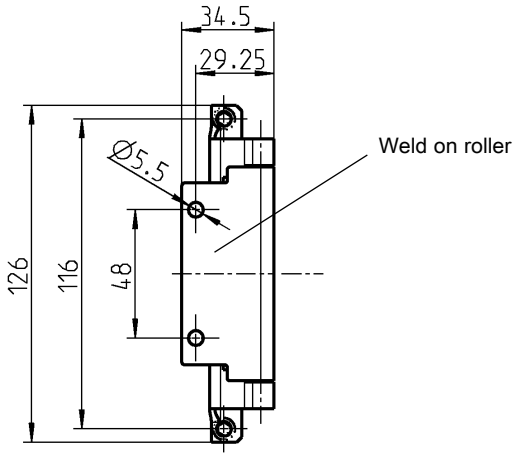
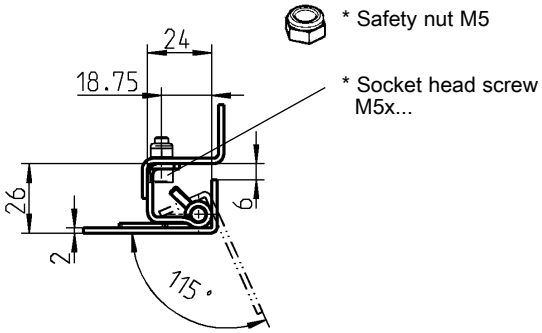
115° and 135° stainless steel hinge with captive pin

PROGRAM 1031

115° hinge for single cabinets
for 26 mm door return

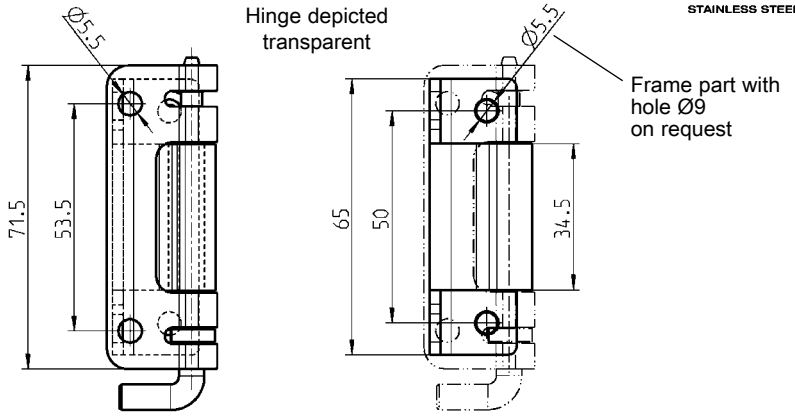


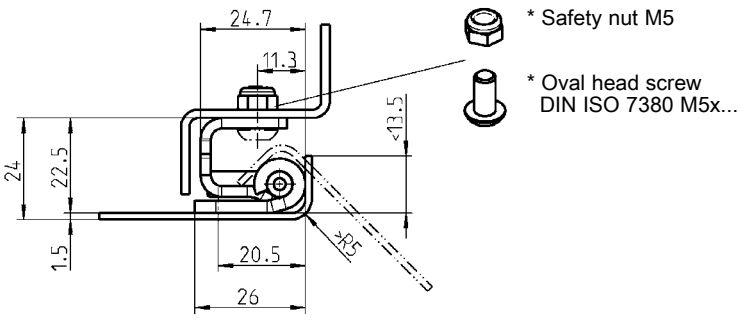




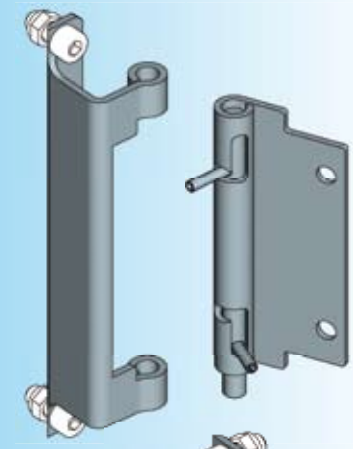
115° hinge AISI 304	
	1031-U14

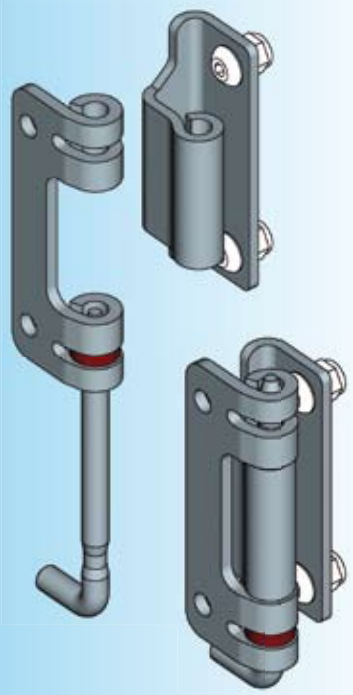
135° hinge for single cabinets
for 24 mm door return





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





* not included

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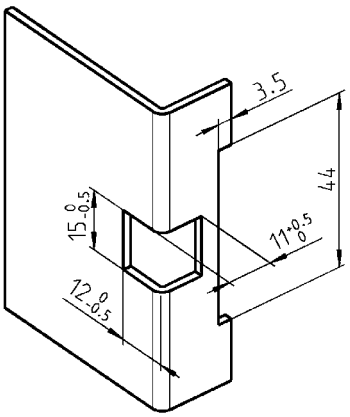
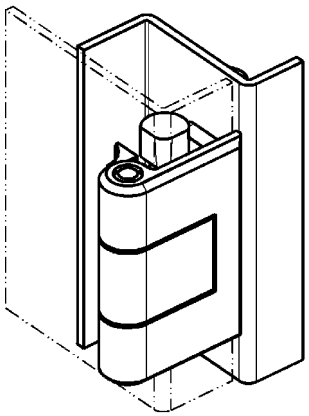
180° hinge
PROGRAM 1110

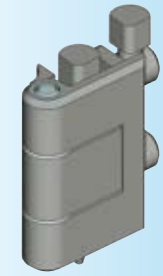
180° hinge for in-line cabinets with double doors
20 mm door return



Cut out



Assembly:
Hinge is fixed by driving in the clamping pin.

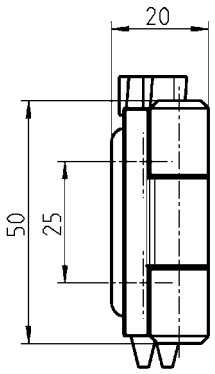


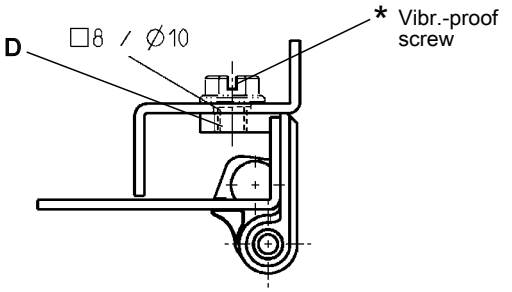
Version A

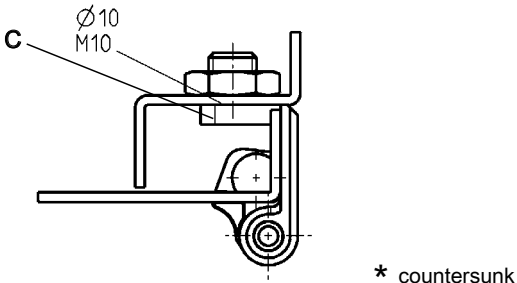
Version B

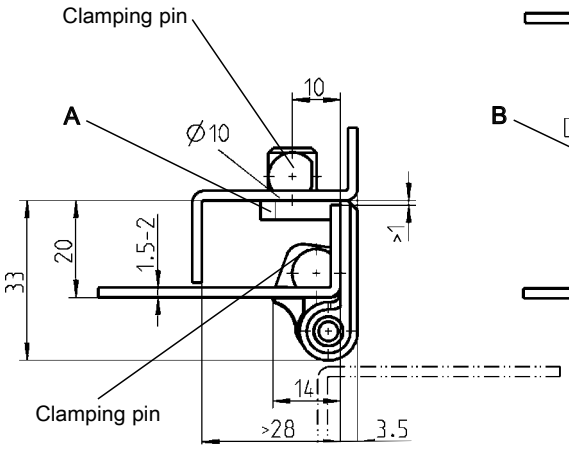
Version C

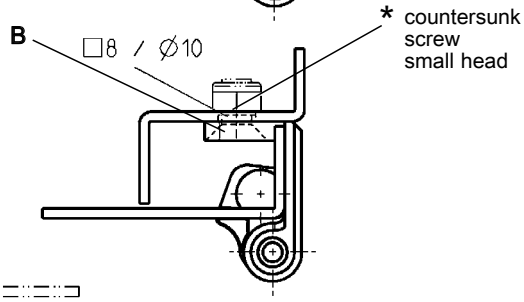
Version D











* not included

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

Further parts see page
– Fixing material 12E-100

Hinge zinc die, black powder-coated; clamping pin Polyamide GF black;	
Version A	1110-U128
Version B	1110-U130
Version C	1110-U129
Version D	1110-U127

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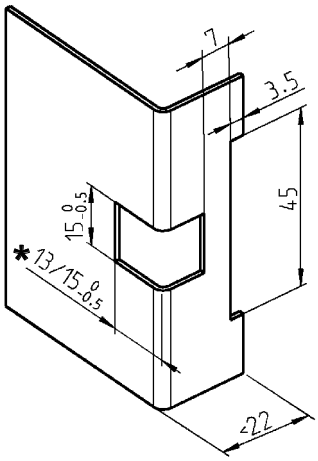
180° hinge

PROGRAM 1110

180° hinge for inline cabinets with double doors



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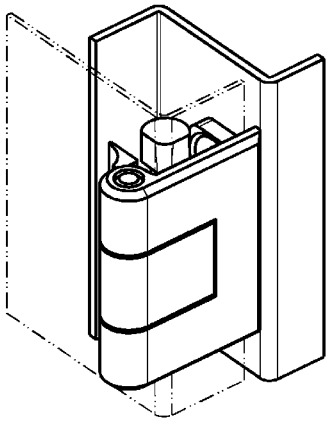
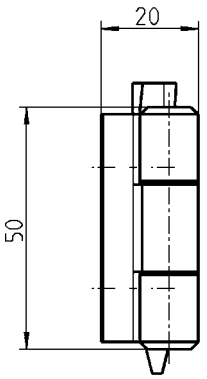
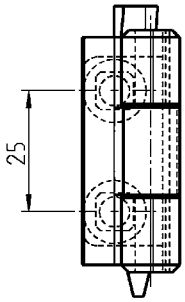


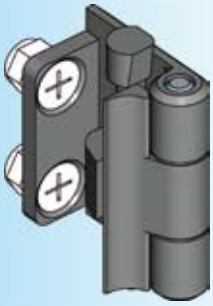
Assembly:
Hinge is fixed by driving in the clamping pin.

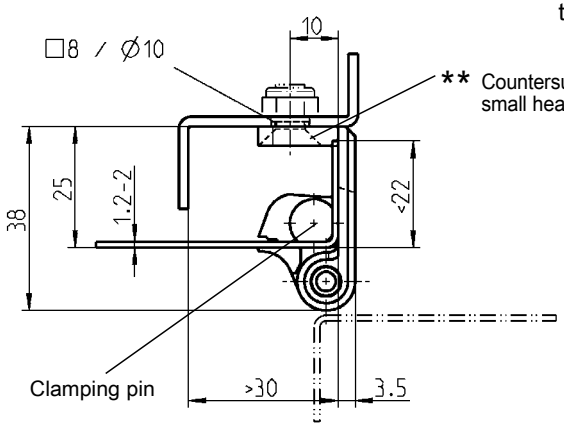
*** Door thickness 1.2-1.5=13 mm**
Door thickness 1.5-2.0=15 mm





Hinge in fig. transparent





** not included

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

Hinge zinc die black powder-coated; clamping pin polyamide GF black;

1110-U140

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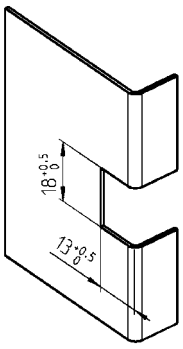
180° hinge
PROGRAM 1110

180° PA hinge for single cabinets with 16 mm door return



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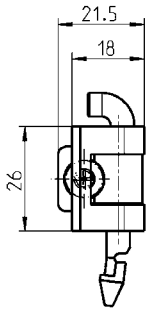
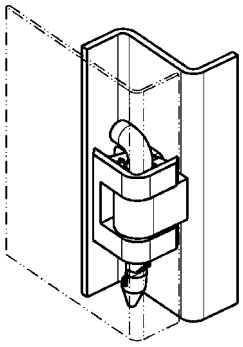
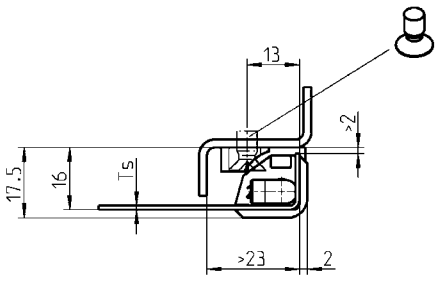


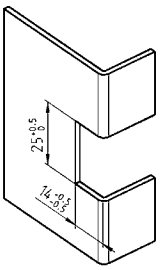
*Countersunk screw smaller head M5x... or rivet Ø 5





180° hinge PA GF black; pin Polyamide black	
Ts 1.0 - 1.25 mm	1110-U23
Ts 1.5 – 2.0 mm	1110-U24

180° hinge for single cabinets for 25 mm door return



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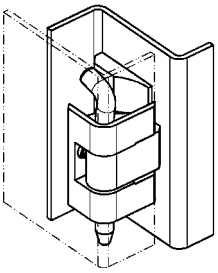
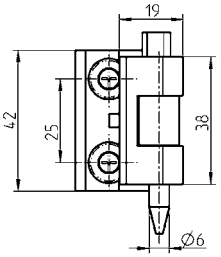
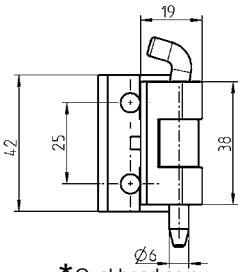
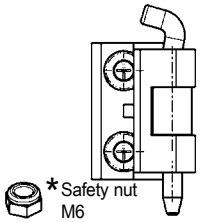


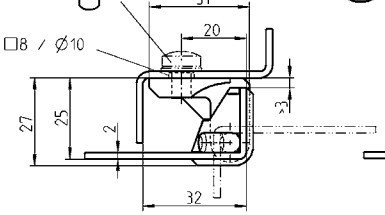





*Safety nut M6

*Oval head screw DIN ISO 7045 M6x...

*Countersunk screw small head M6x...



180° hinge zinc die; pin m.s. zinc pl.	Chrome pl.	black powder coated
Locking screw M6	1110-U20	1110-U22
Countersunk hole M6 (2D nut possible)	1110-U19	1110-U21
180° hinge Polyamide GF black; pin Polyamide black		
Countersunk hole M6 (2D nut possible)		1110-U125

* not included

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

Further parts see page
– 2D nut 12E-120
– Fixing material 12E-100

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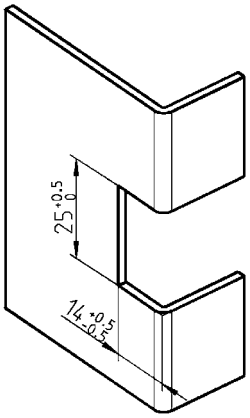
180° hinge

PROGRAM 1110

180° hinge for single cabinets
for 25 mm door return

EDELSTAHL Rostfrei STAINLESS STEEL

INOX AISI 3..



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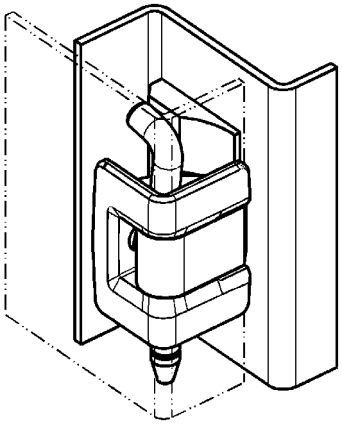

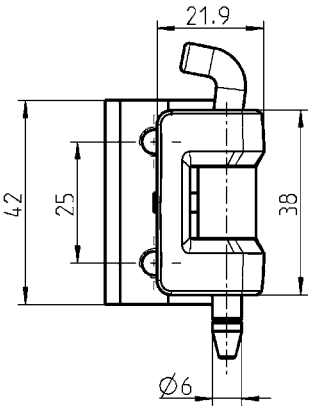

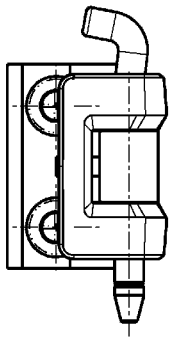

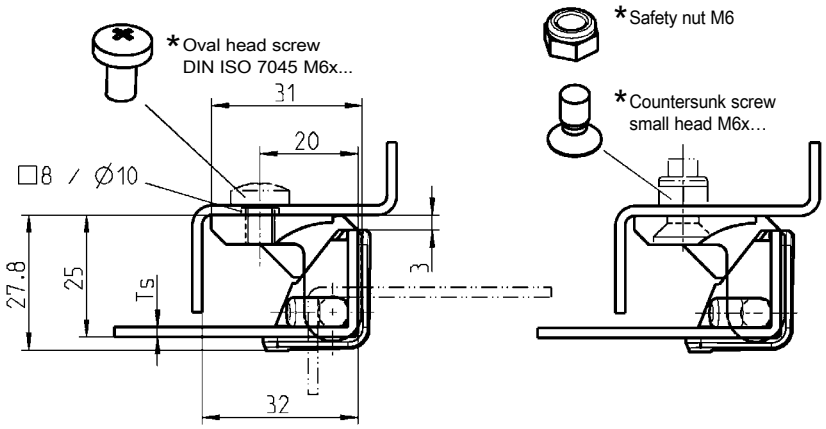

* not included

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

180° hinge AISI 316; pin AISI 303		
	Ts 0.8 - 1.0	**Ts 1.5 - 2.0**
Locking screw M6	1110-U134	1110-U135
Countersunk hole M6 (2D nut possible)	1110-U136	1110-U137

Further parts see page
– 2D nut 12E-120

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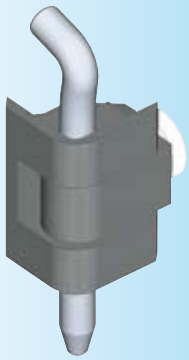
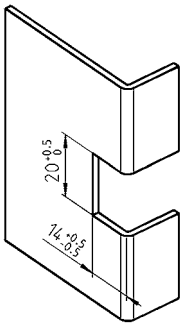
180° hinge

PROGRAM 1110



EDELSTAHL Rostfrei STAINLESS STEEL

180° hinge for single cabinets for 20 mm door return



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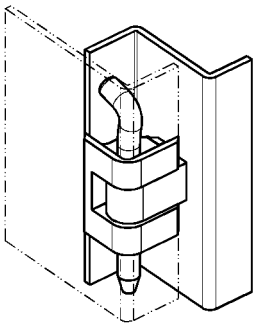
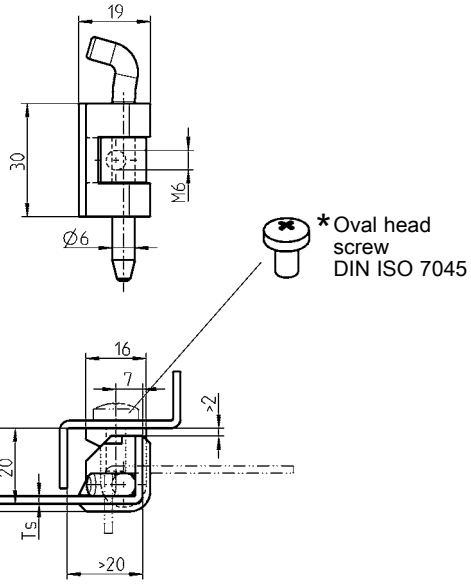


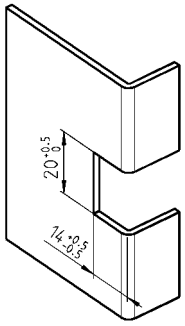


for gasket 25

180° hinge zinc die and pin m.s. zinc pl. or AISI 316 and pin 303		
	Ts 0.8 – 1.0	Ts 1.5 – 2.0
zinc die chrome pl.	–	1110-U2
zinc die black p.c.	–	1110-U3
AISI 316	1110-U51	1110-U50

EDELSTAHL Rostfrei STAINLESS STEEL

180° hinge for in-line cabinets with adjacent door for 20 mm door return



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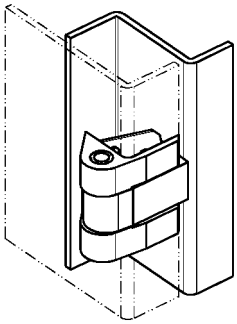

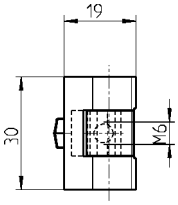

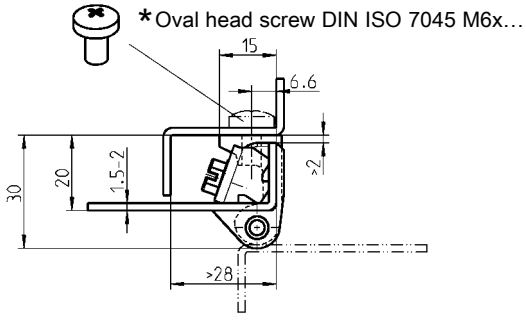

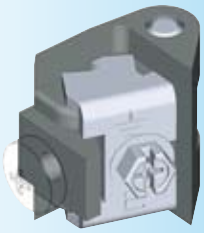

180° hinge zinc die or AISI 316; pin m.s. zinc plated or AISI 304; Fixing material m.s. zinc plated or AISI 303	
chrome plated	1110-U4-N
black powder coated	1110-U5-N
AISI 316	1110-U5-NPH

* not included

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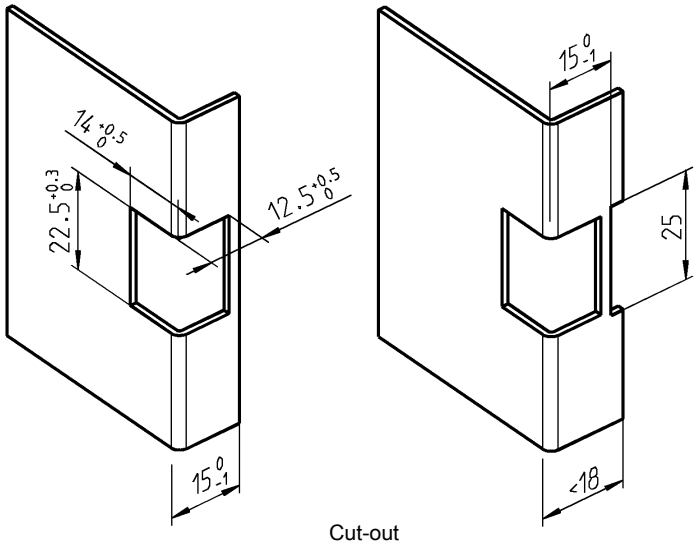
180° hinge stainless steel

PROGRAM 1110

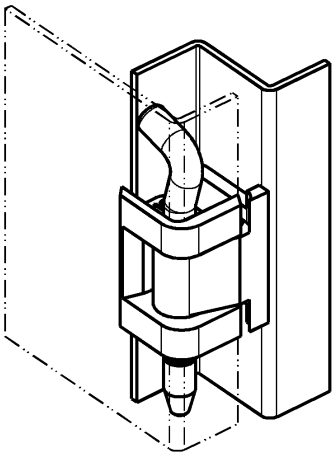
180° hinge for single cabinets for 20 mm door return

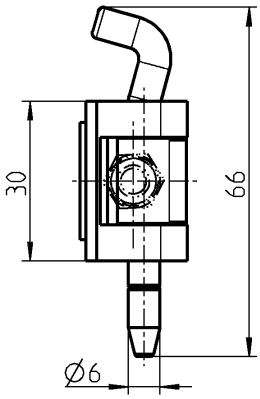
EDELSTAHL Rostfrei STAINLESS STEEL

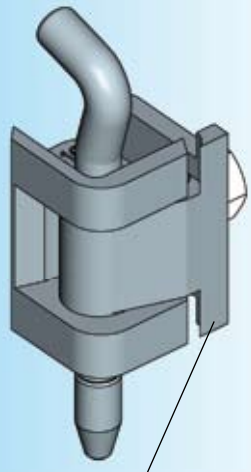
INOX AISI 3..



Cut-out
on choice

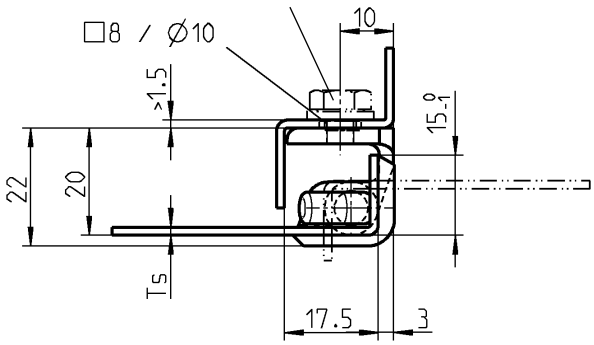






Frame part with
M6-thread and
spigot

* Washer DIN ISO 7089 - 6 and
hexagon screw DIN ISO 4017 M6 x 6
for metal gauge 1.5



180° hinge AISI 316; pin AISI 303	
Ts 1.5	1110-U131
Ts 2.0	1110-U132

* not included

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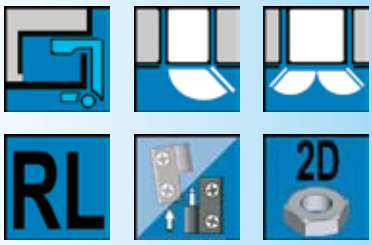
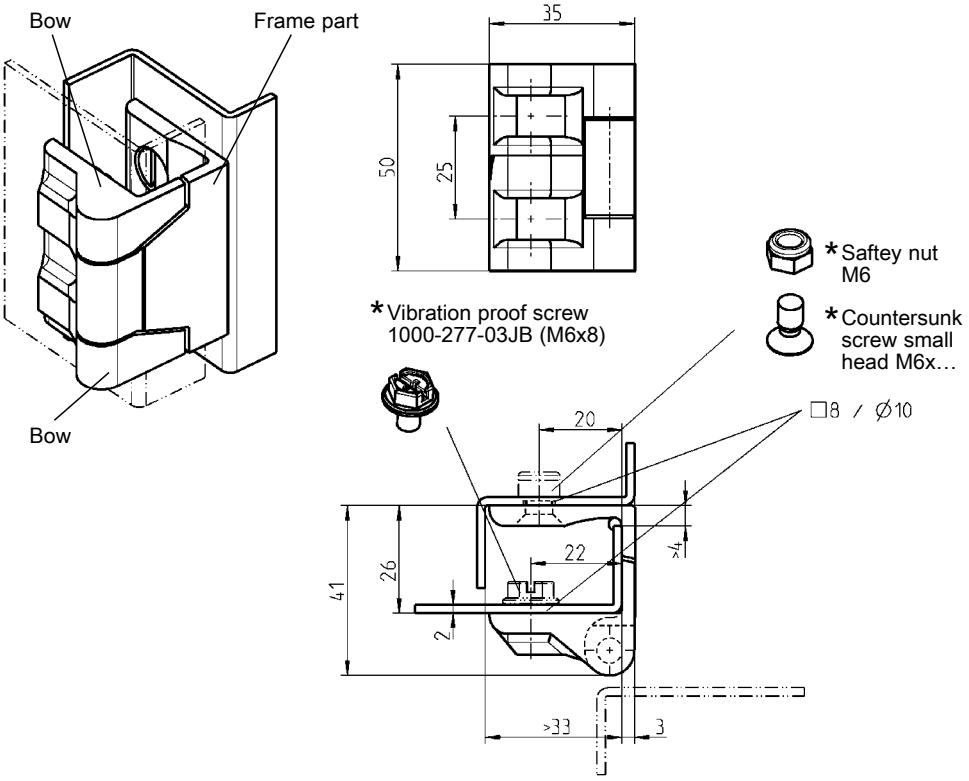
180° hinge

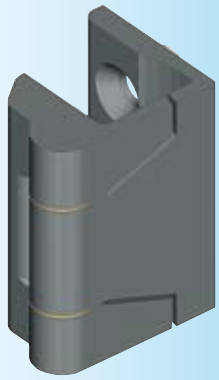
PROGRAM 1110



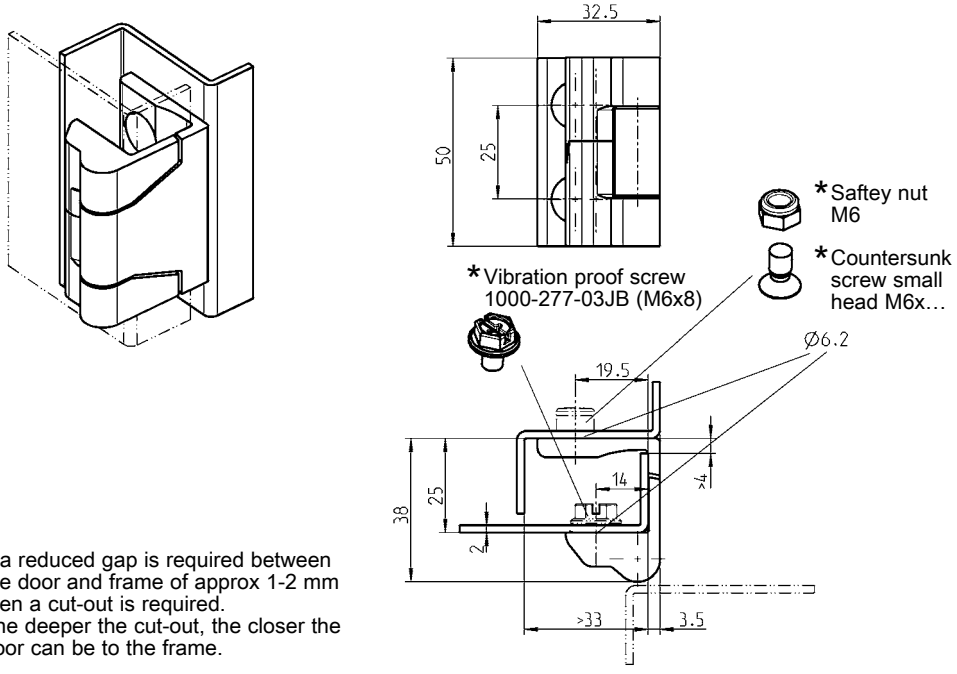
180° hinge for in-line cabinets with single door
135° lift-off version for 25 mm door return



180° hinge zinc die; pins stainless steel and washers brass	
black powder coated	1110-U52
chrome plated	1110-U53



180° hinge for in-line cabinets with single door
lift-off version for 25 mm door return



Note:
Lift-off by removing the lower door part

If a reduced gap is required between the door and frame of approx 1-2 mm then a cut-out is required.
The deeper the cut-out, the closer the door can be to the frame.

180° hinge zinc die black powder coated; hinge pin m.s. zinc plated; washer brass	
	1110-U123

* not included

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

Further parts see page

– 2D-nut 12E-120
– Fixing material 12E-100

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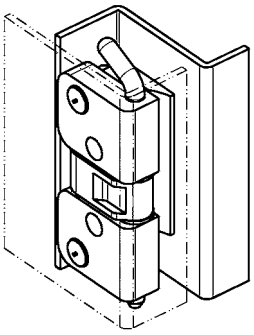
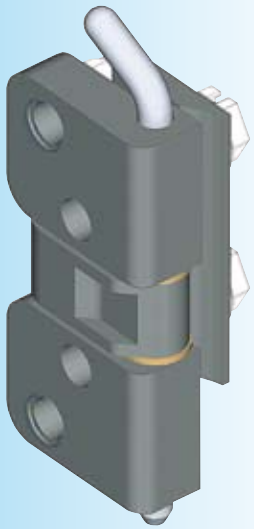
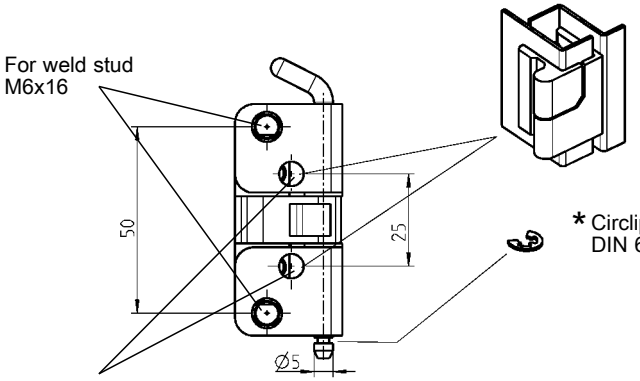
120° hinge

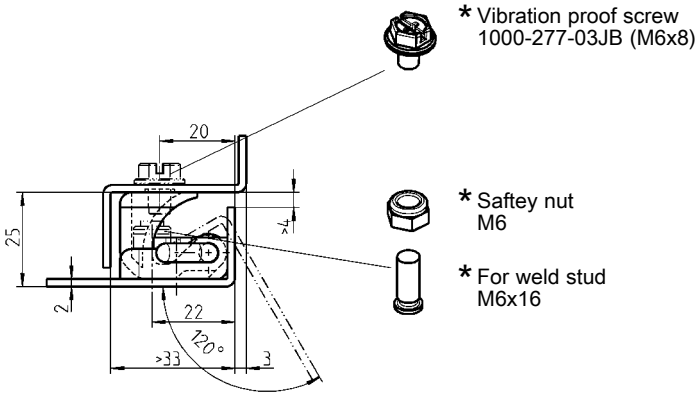
PROGRAM 1110

120° hinge for in-line cabinets with single door
for 25 mm door return









Available on request chrome plated
and with further RAL-colours.

* not included

120° hinge zinc die black powder coated;
pin m.s. zinc plated

1110-U86

Further parts see page
– Fixing material 12E-100

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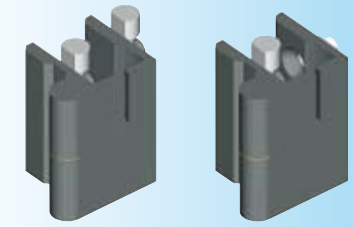
180° hinge

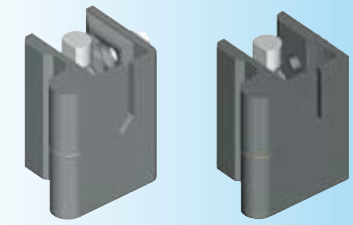
PROGRAM 1110

EDELSTAHL Rostfrei STAINLESS STEEL

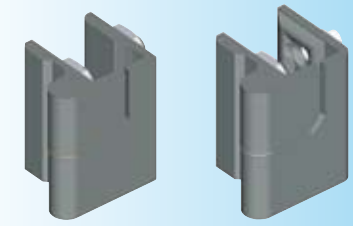
180° hinge for in-line cabinets with adjacent door lift-off upon 70° opening angle for 26 mm door return



Version A+E | Version C+E

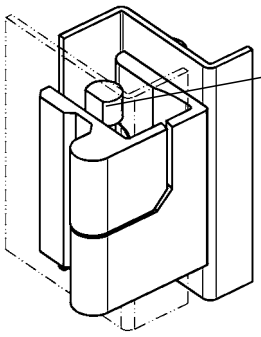


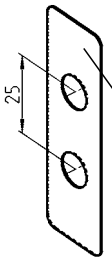
Version C+E | Version D+E



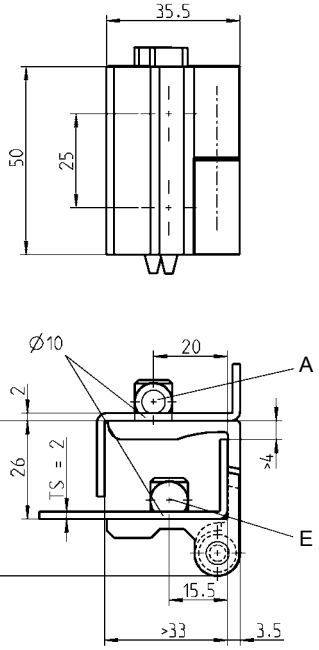
Version B+F | Version C+F

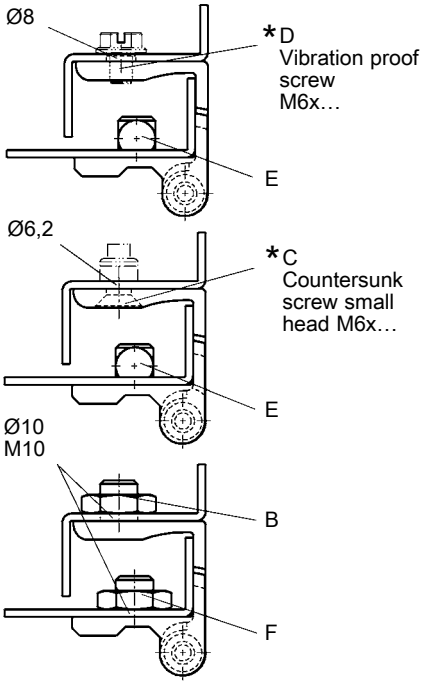
Version for Ts = 2





Spacer plate has to be ordered sep. for different door gauges (one plate per clamping bar)





* not included

** 2D-nut possible

Note:
Detachable from 70 ° viewing angle, but not hinge bracket in AISI and St

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

Further parts see page
– 2D-nut 12E-120
– Fixing material 12E-100

180° hinge zinc die black powder coated; Fixing pin Polyamide GF		
Version	**LH**	**RH**
A+E	1110-U71	1110-U68
C+E **(2D)	1110-U69	1110-U66
D+E	1110-U70	1110-U67
B+F	1110-U109	1110-U106
C+F **(2D)	1110-U107	1110-U104
D+F	1110-U108	1110-U105

180° hinge; frame part m.s. black powder coated; hinge door part zinc die		
Version	**LH**	**RH**
C+E **(2D)	1110-U118	1110-U119
C+F **(2D)	1110-U120	1110-U121
180° hinge AISI 316; hinge pin and nut AISI 304		
C+F **(2D)	1110-U120-PH	1110-U121-PH

Support plate 304 (1x per pin fixing)	
for Ts 1,0	1110-39-01
for Ts 1,5	1110-39

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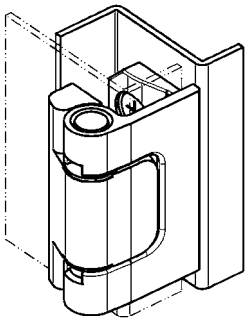
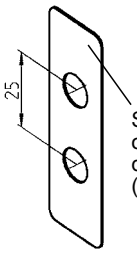
180° hinge

PROGRAM 1110

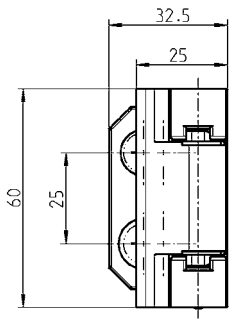
180° hinge for in-line cabinets with single door
lift-off upon 90° opening angle for 25 mm door return

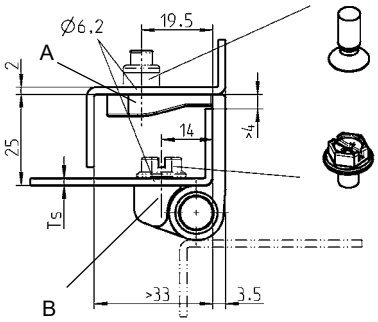
Version for
Ts = 1.5 - 1.8 and 2





Spacer plate has to be ordered sep. for different door gauges (one plate per clamping bar)

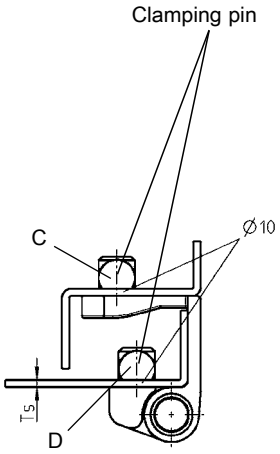


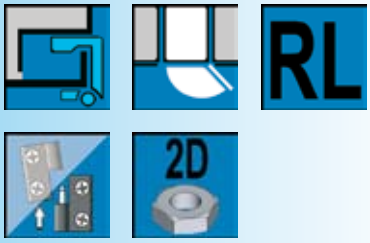


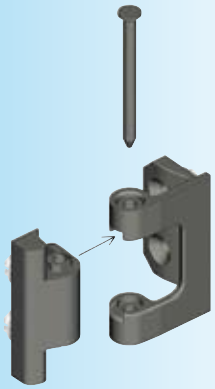
*Saftey nut M6

*Countersunk screw small head M6x…

*Vibration proof screw 1000-277-02JB (M6x6)







180° hinge zinc die black powder coated; fixing pin Polyamide GF black; hinge pin and washer Polyamide GF black	
Version	**Ts = 2.0**
A + B, screw (2D-nut possible)	1110-U122
C+D, clamp	1110-U126
180° hinge; frame part zinc die black powder coated; hinge part Polyamide 66 GF 50 black; Fixing pin Polyamide GF black; hinge pin and washer Polyamide GF black	
Version	**Ts = 1.5 - 1.8**
A + D, bolted and clamped (2D-nut used)	1110-U133
Support plate 304 (1x per pin fixing)	
or Ts 1.0 (1110-U126, for Ts 0.8 (1110-U133)	1110-39-01
for Ts 1.5 (1110-U126), for Ts 1.0 to 1.3 (1110-U133)	1110-39

* not included

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

Further parts see page
– 2D-nut 12E-120
– Fixing material 12E-100

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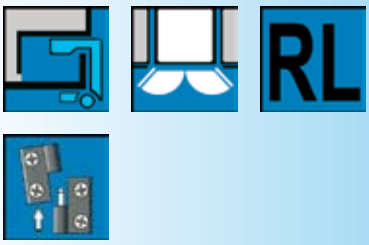
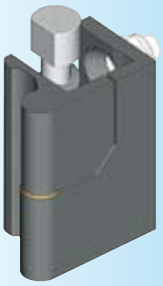
Beschlagteile

180° hinge
PROGRAM 1110

180° hinge for in-line cabinets with adjacent door lift-off upon 70° opening angle for 20 mm door return



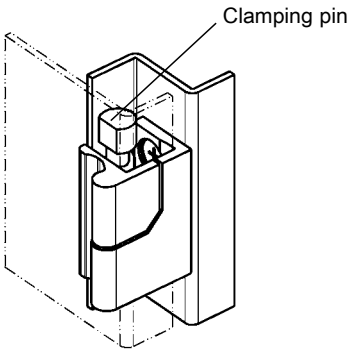


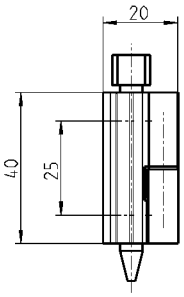
Version A

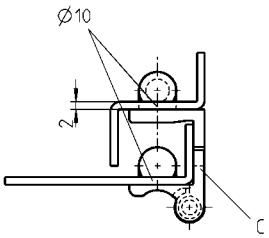
Version B

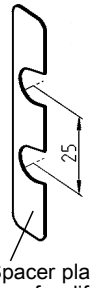
Version C

Version for
Ts = 2

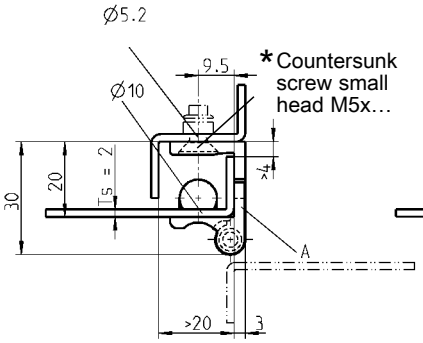


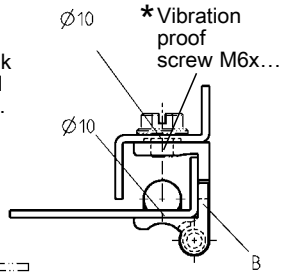


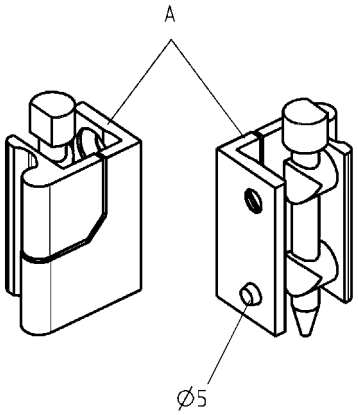




Spacer plate has to be ordered sep. for different door gauges (one plate per clamping bar)







Available on request chrome plated and with further RAL-colours

Only for version A

180° hinge zinc die black powder coated; Fixing pin Polyamide GF black; hinge pin stainless steel and washer brass		
Version A	RH	1110-U78
	LH	1110-U81
Version B	RH	1110-U79
	LH	1110-U82
Version C	RH	1110-U80
	LH	1110-U83
Support plate 304 (1x per pin fixing)		
for Ts 1,0		1110-39-03
for Ts 1,5		1110-39-02

* not included

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

Further parts see page
– Fixing material 12E-100

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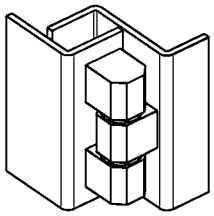
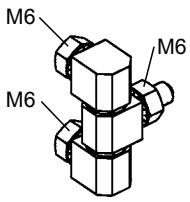
180° screw-on hinge

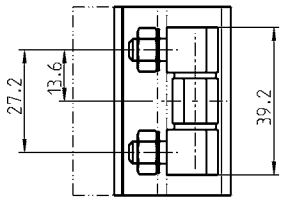
PROGRAM 1055, 1039

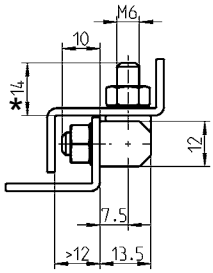
180° screw-on hinge

EDELSTAHL Rostfrei STAINLESS STEEL

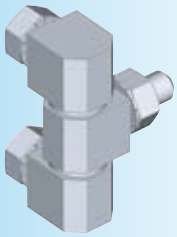


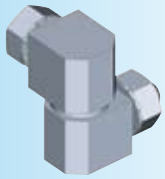






* = 10 mm with two parts of hinge

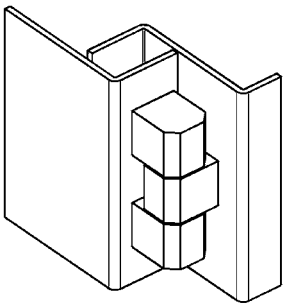


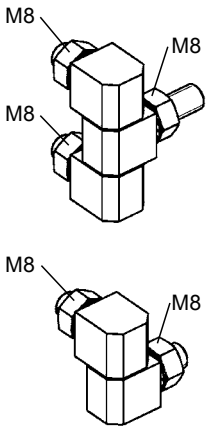


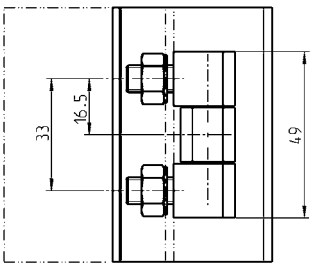
180° screw-on hinge m.s. zinc plated; pin and washers brass nickel plated respectively completely stainless steel		
– three-pieces	m.s.	1055-U2
	AISI 303	1055-U6
	AISI 316	1055-U8
– two-pieces	m.s.	1055-U5

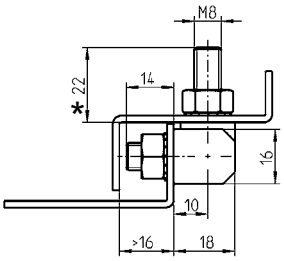
180° screw-on hinge

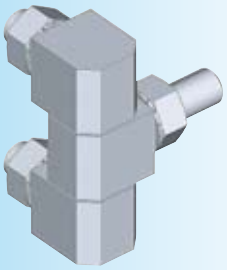
EDELSTAHL Rostfrei STAINLESS STEEL

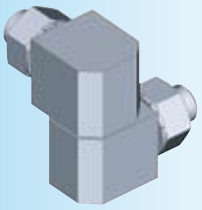












* = 14 mm with two parts of hinge

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

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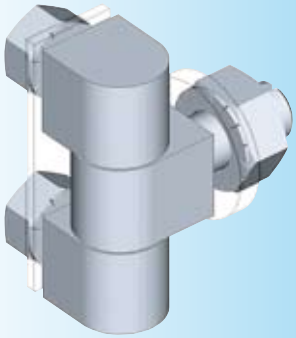
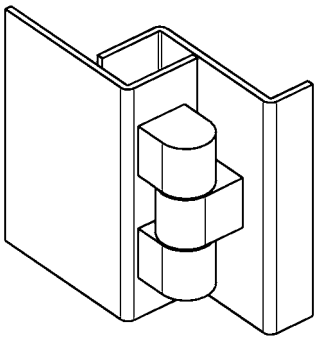
EMKA®
Beschlagteile

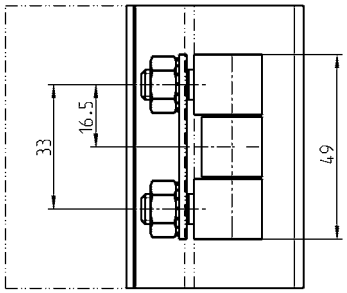
Hinge

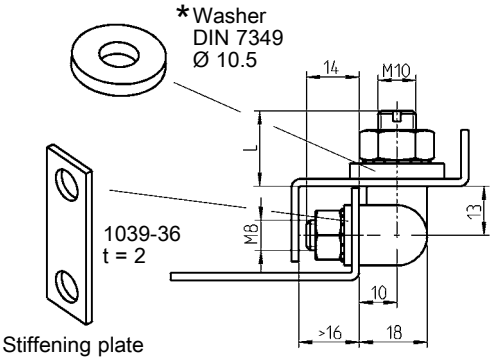
PROGRAM 1039, 1035

180° screw-on hinge
for pressure resistant doors



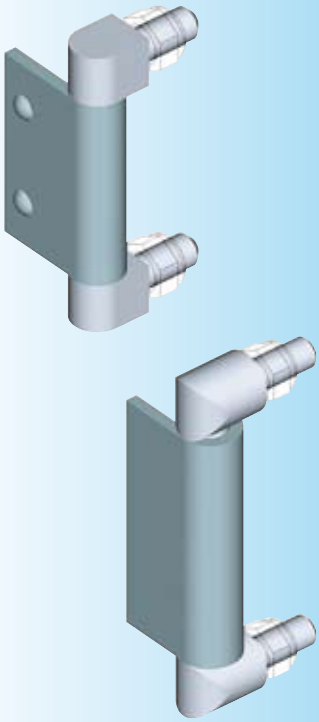


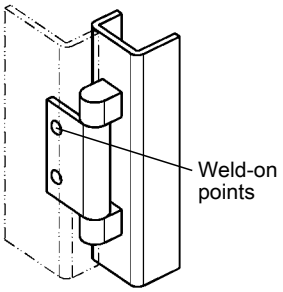


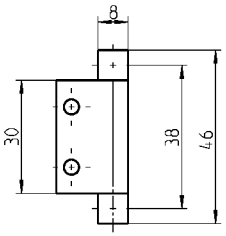


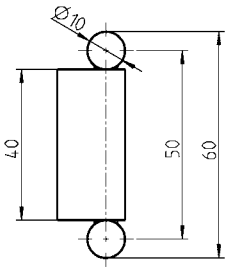
180° screw-on hinge tempered, zinc plated; pin and washers brass nickel plated		
Stud	L = 20 mm	1039-U6
	55 mm	1039-U7
	65 mm	1039-U8
Stiffening plate m.s. zinc pl.		
		1039-36

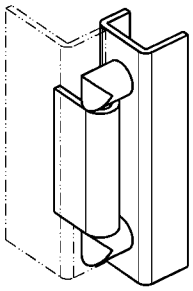
180° hinge

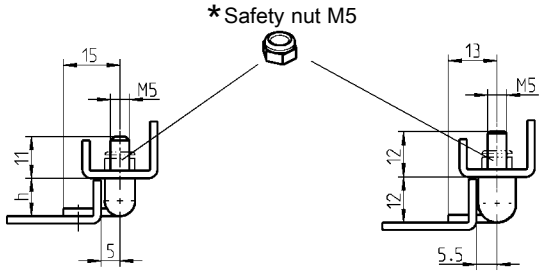












180° hinge m.s. zinc plated; hinge door part m.s. raw		180° hinge m.s. zinc plated; door part m.s. raw	
H= 10	1035-U1		1035-U2
12	1035-U3		

*not included

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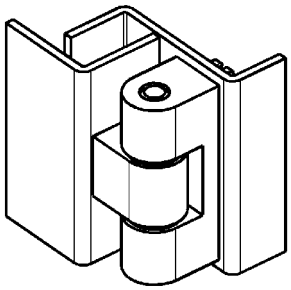
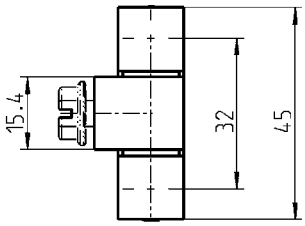
Hinge

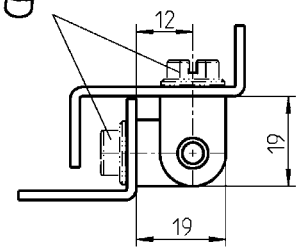
PROGRAM 1054, 1105

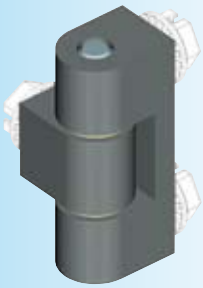
180° screw-on hinge





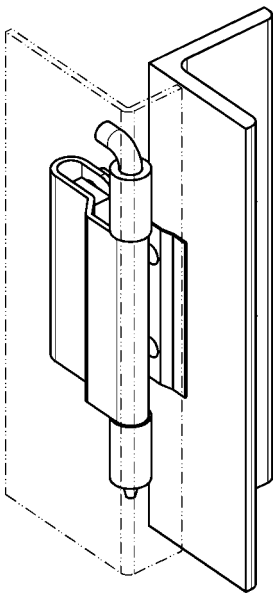
*Locking screw
1000-277-03JB (M6x8)

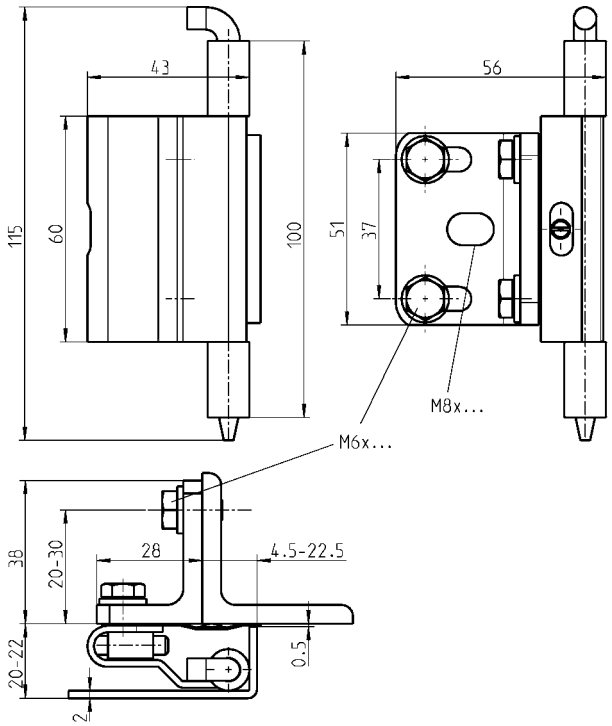


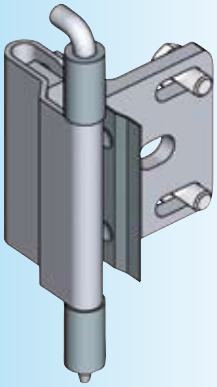


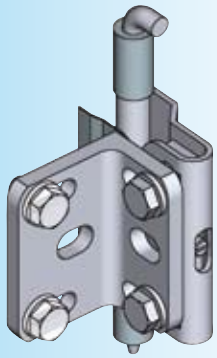
190° screw-on hinge zinc die; pin stainless steel and bushes polyamide	
chrome plated	1054-U1
black powder coated	1054-U30

130° spring loaded hinge









130° spring loaded hinge m.s. zinc; coated; door part m.s. raw, spring stainless steel bright	
	1105-U1

* not included

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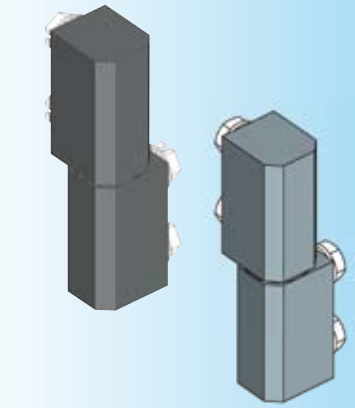
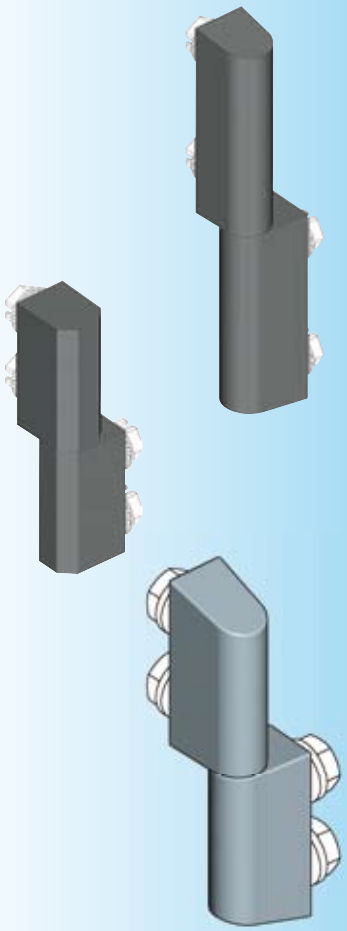
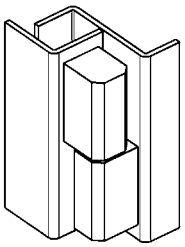
Screw-on hinge

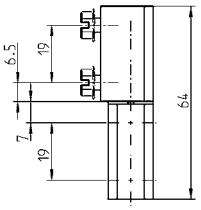
PROGRAM 1056, 1079

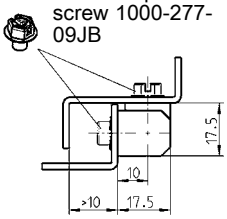




180° screw-on hinge

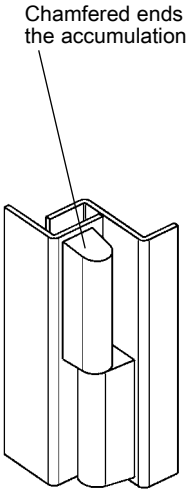


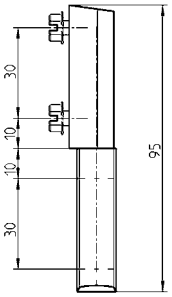


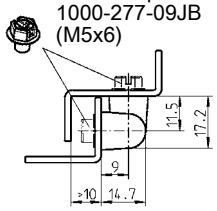


180° screw-on hinge zinc die black powder coated or AISI 316	
Zinc die	1056-U34
AISI 316	1056-U34-PH

180° plastic screw-on hinge

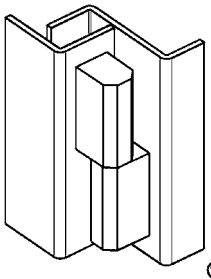


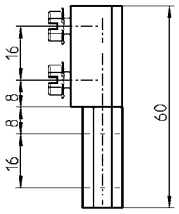


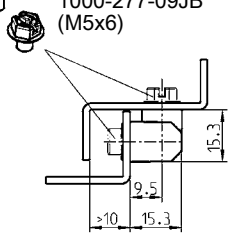


Plastic screw-on hinge Polyamide GF black; pin stainless steel and insert m.s. raw	
	1079-U2

180° plastic screw-on hinge

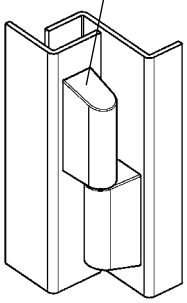


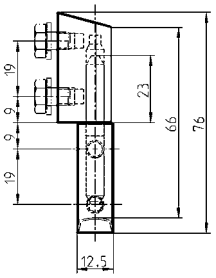


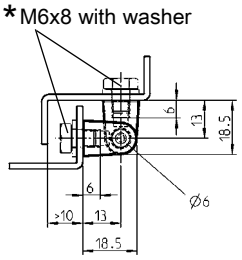


Plastic screw-on hinge polyamide GF black; pin stainless steel and insert m.s. raw	
	1079-U4

180° Stainless steel screw-on hinge







Stainless steel screw-on hinge AISI 316	
	1079-U5-PH

* not included

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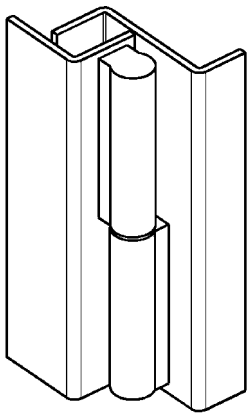
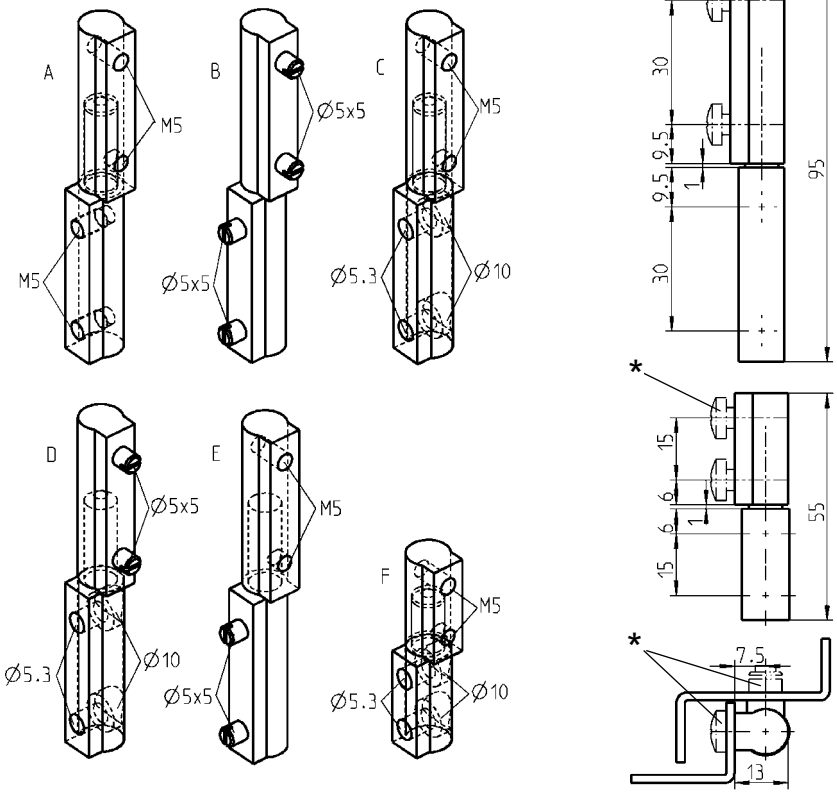
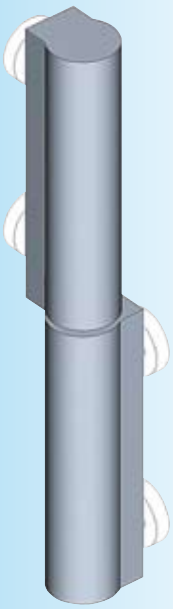
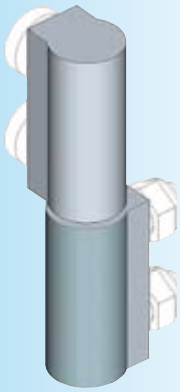
Profile hinge

PROGRAM 1036









Profile hinge m.s. zinc pl.; with weld-on stud m.s. raw; cover stainless steel	
A	1036-U2
B	1036-U3
C **	1036-U4
D **	1036-U5
E	1036-U6
F **	1036-U7

** = with escutcheon bush

* not included

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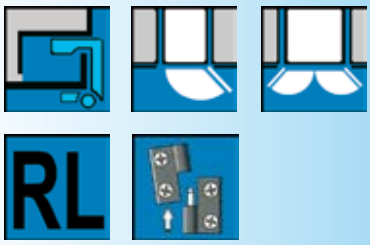
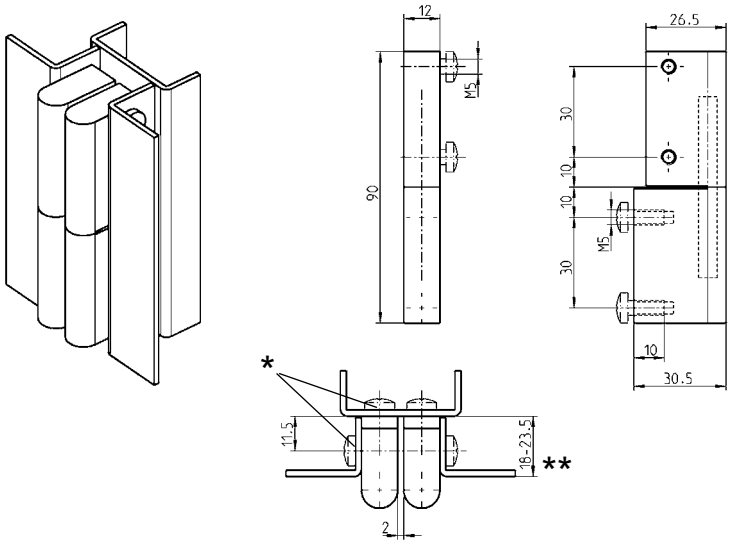
Hinge

PROGRAM 1033, 1036



Screw-on hinge

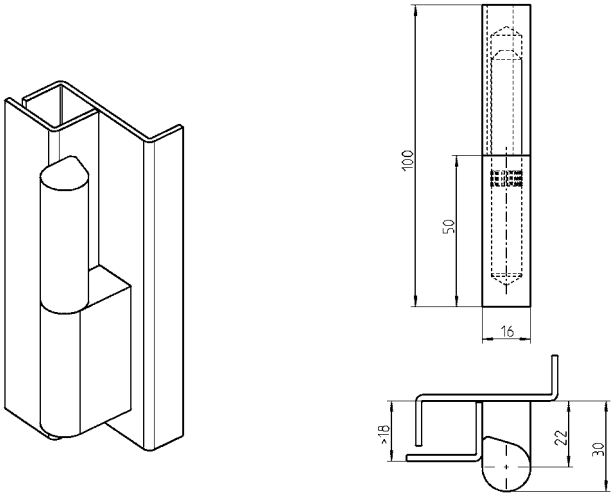


* not included

** If 18 mm, the opening angle of 180° for in-line cabinets with double doors is possible

Screw-on hinge zinc die; pin stainless st.	
chrome plated	1036-U9
black powder coated	1036-U10

180° hinge for in-line cabinets with single door



180° weld-on hinge m.s. raw	
	1033-U44

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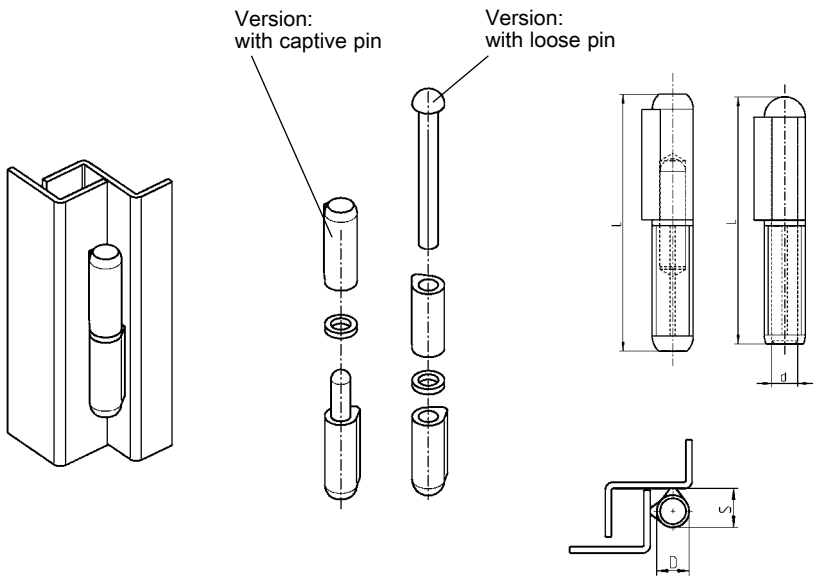
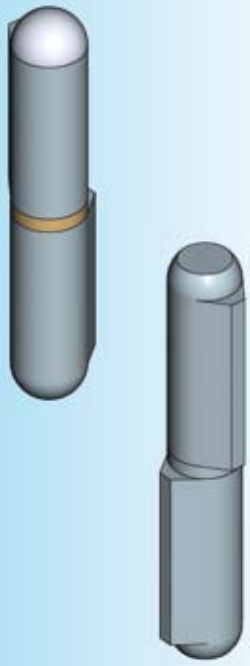
Hinge

PROGRAM 1033

Weld-on hinge

EDELSTAHL Rostfrei STAINLESS STEEL





Note:
L dimensions are nominal;
weld-on hinges
can be smaller

Version, with captive hinge pin; material as requested

L	D	d	S	m.s. raw m.s. pin	m.s. raw brass pin	AISI 304 AISI 304 pin
40	8	5	9,5	1033-U1*	1033-U14*	1033-U76
50	8	5	9,5	1033-U2*	1033-U15*	1033-U77
60	10	6	12,0	1033-U3*	1033-U16*	1033-U70
70	11,5	7	13,5	1033-U4*	1033-U17*	1033-U78
80	13	8	15,5	1033-U5*	1033-U18*	1033-U71
100	16	10	20,0	1033-U7*	1033-U20*	1033-U72
120	16	11	20,0	1033-U8*	1033-U21*	1033-U73
135	18	12	22,0	1033-U9	1033-U22	1033-U79
150	20	13	25,0	1033-U11	1033-U24	1033-U74
180	20	14	25,0	1033-U13*	1033-U26*	1033-U75
200	23	16	28,5	1033-U60	1033-U61	-

* = to be in stock

Version, with loose hinge pin; material as requested

L	D	d	S	m.s. raw m.s. pin	m.s. raw brass pin	AISI 304 AISI 304 pin
40	8	5	9,5	1033-U27	1033-U35	-
50	8	5	9,5	1033-U55	1033-U56	-
60	10	6	12,0	1033-U28	1033-U36	-
70	11,5	7	13,5	1033-U57	1033-U58	-
80	13	8	15,5	1033-U29	1033-U37	-
100	16	10	20,0	1033-U30	1033-U38	-
120	16	11	20,0	1033-U31	1033-U39	-
135	18	12	22,0	1033-U32	1033-U40	-
150	20	13	25,0	1033-U33	1033-U41	-
180	20	14	25,0	1033-U34	1033-U42	-
200	23	16	28,5	1033-U63	1033-U64	-

For the version with captive pin, the upper part can be ordered, on request, with lubricating nipple starting with L-dimension of 80 mm.

On request, weld-on aluminium hinges!

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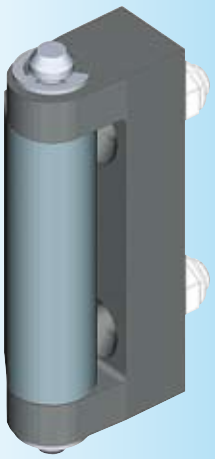
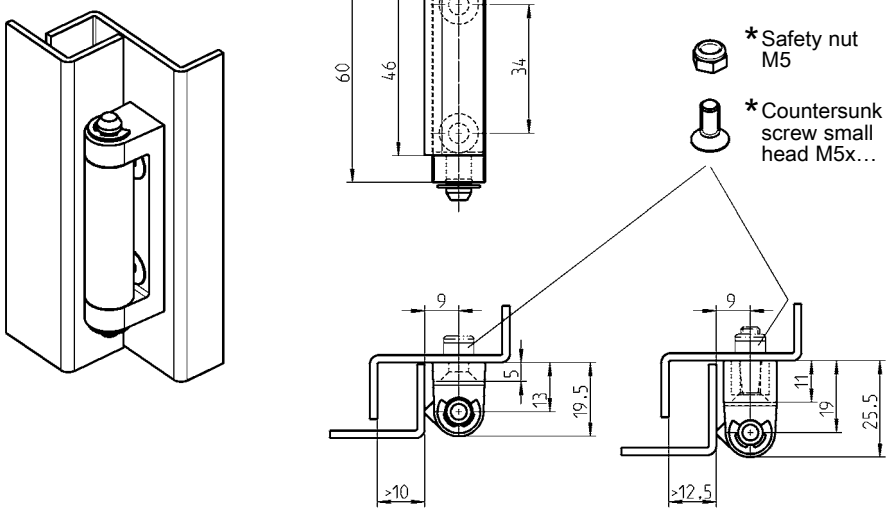
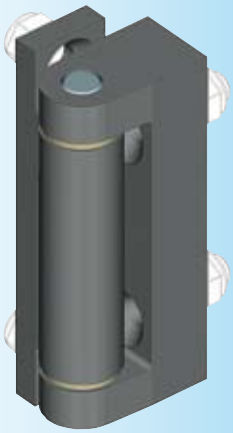
Hinge

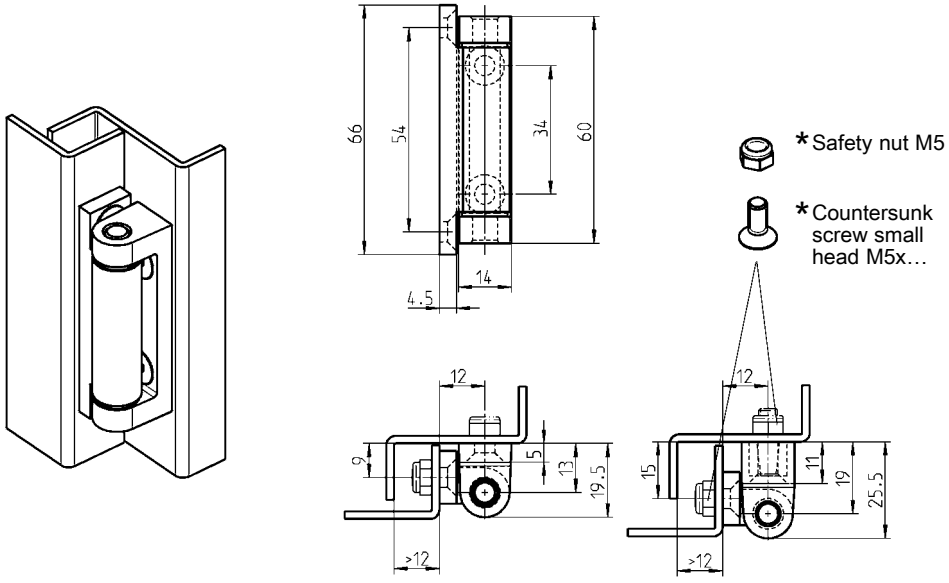
PROGRAM 1054





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





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

* not included

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

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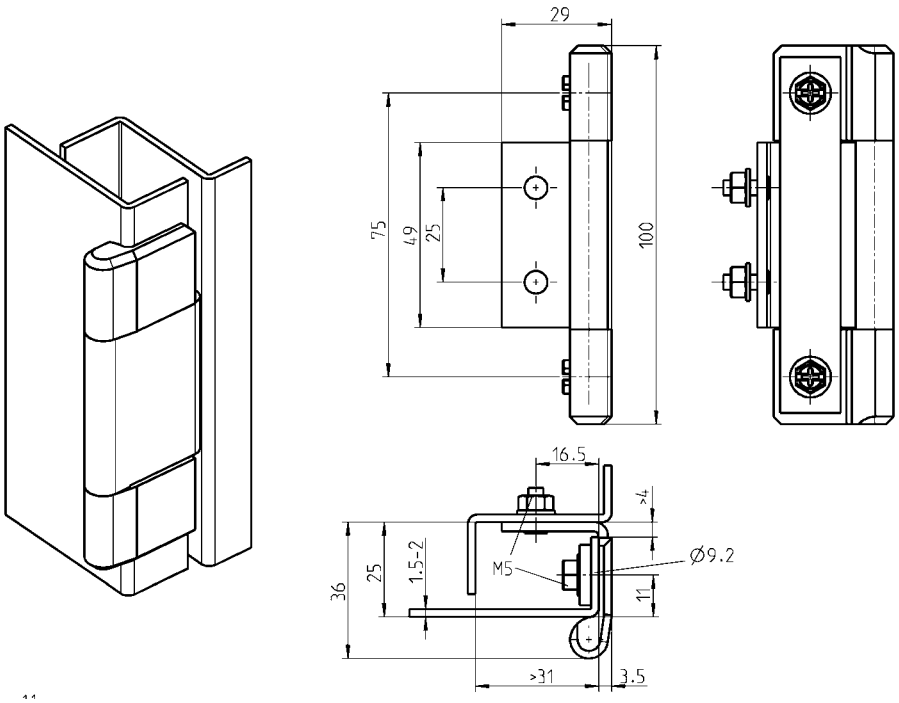
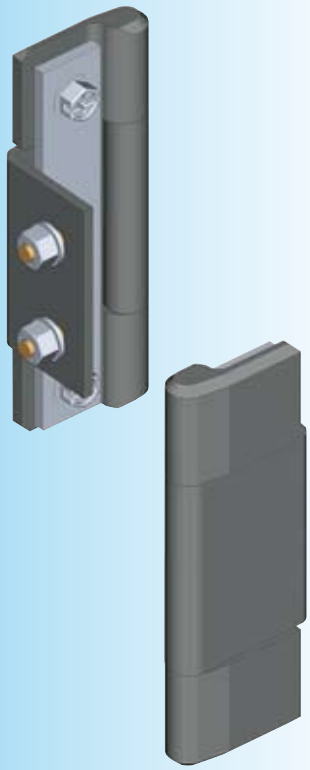
180° hinge

PROGRAM 1110

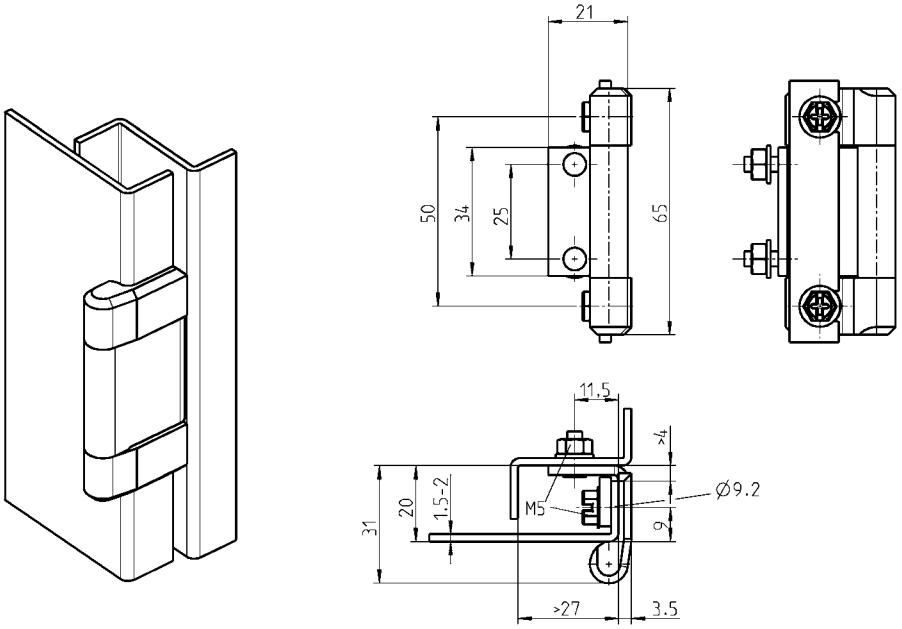
180° hinge for in-line cabinets with adjacent door for 25 mm door return

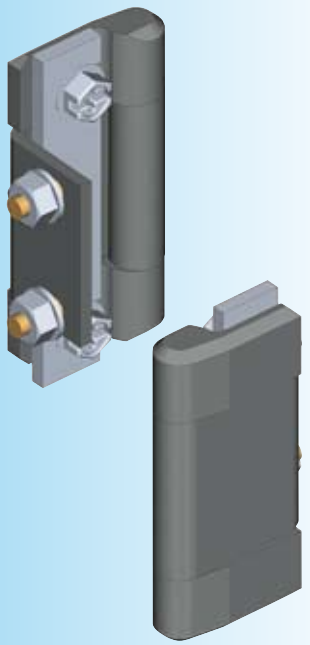




180° hinge hinge part m.s. black; door part zinc die black powder coated; fixing material m.s. zinc plated	1110-U26

180° hinge for in-line cabinets with adjacent door for 20 mm door return





180° hinge hinge part m.s. black; door part zinc die black powder coated; Fixing material m.s. zinc plated	1110-U114

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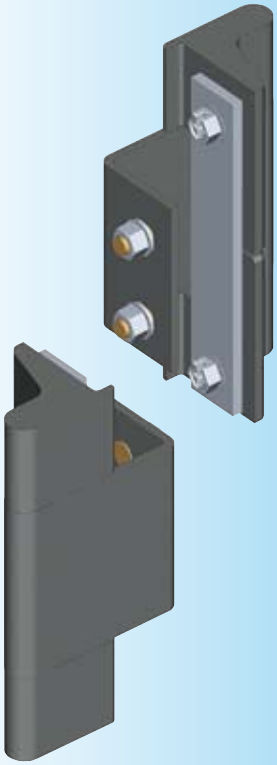
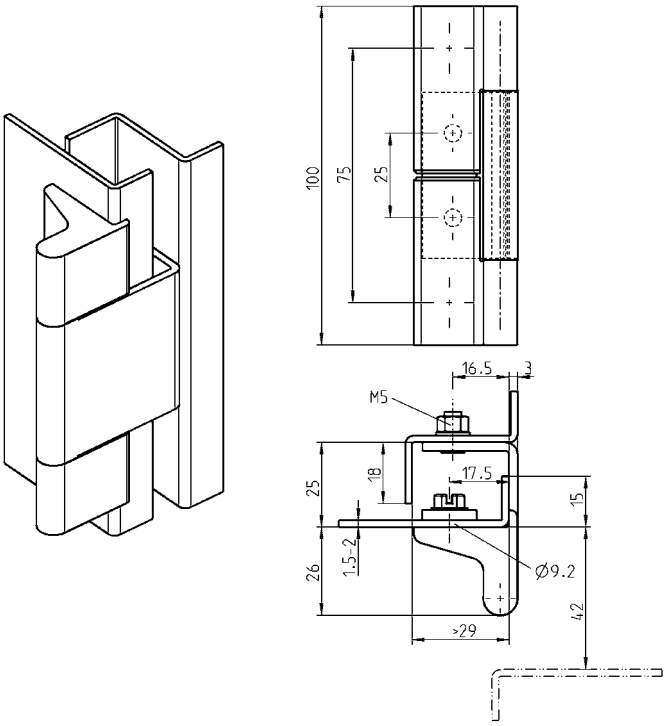
180° hinge

PROGRAM 1110

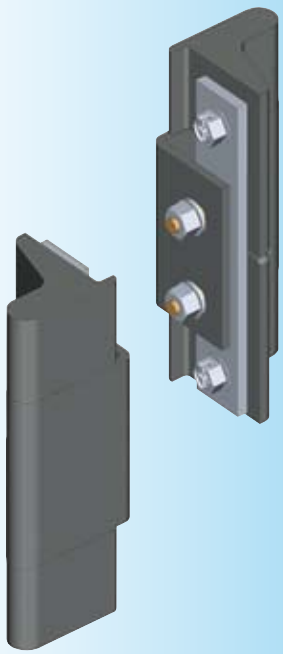


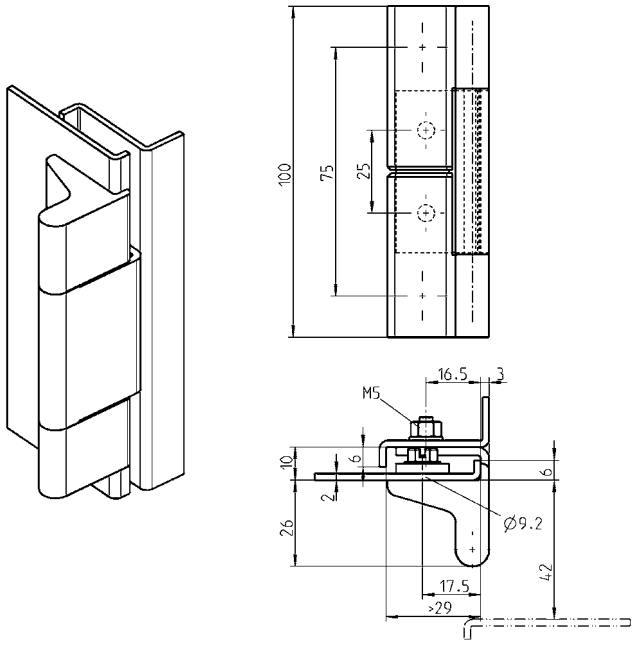
180° hinge for in-line cabinets with adjacent door for 25 mm door return



180° hinge part m.s. black; door part zinc die black powder coated; fixing material m.s. zinc plated	1110-U112

180° hinge for in-line cabinets with adjacent door for 10 mm door return





180° hinge part m.s. black; door part zinc die black powder coated; fixing material m.s. zinc plated	1110-U113

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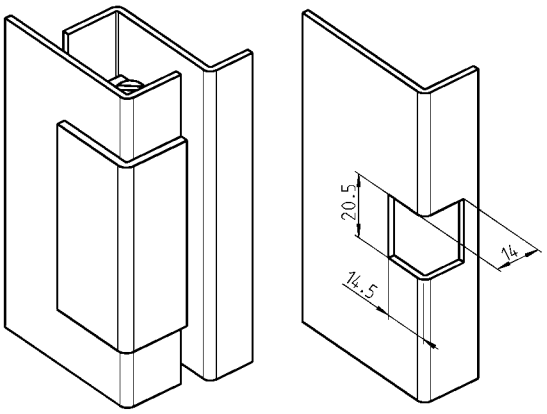
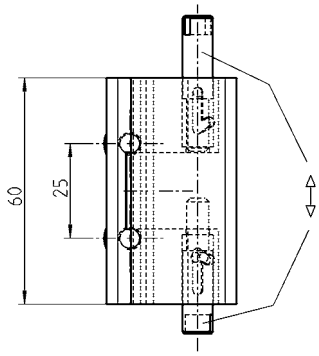
120° hinge with quick fastening

PROGRAM 1110

120° hinge
for 25 mm door return
easy door mounting

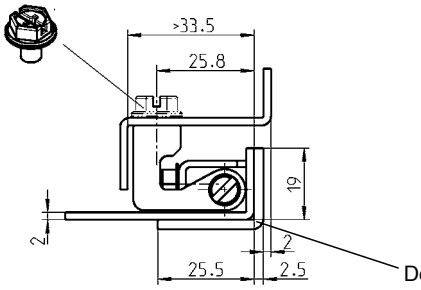


Cut out



The door can be unhinged by simply turning these pins

* Vibration proof screw
1000-277-03JB
M6x8



Door part with metal fixing plate and fastening screw

Fixing plate with spikes for earthing

120° hinge zinc die black powder coated;
fixing material m.s. zinc plated

1110-U111

* not included

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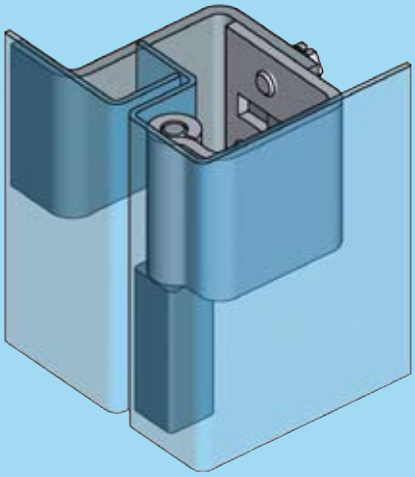
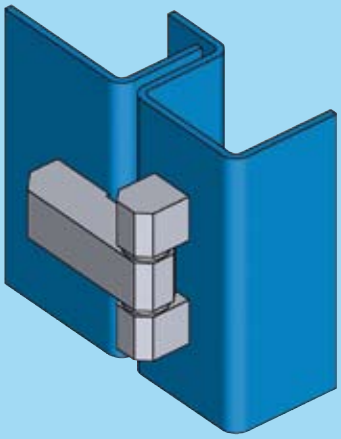
Hinge
for flush door

1



Door and housing/frame pictured transparent

2



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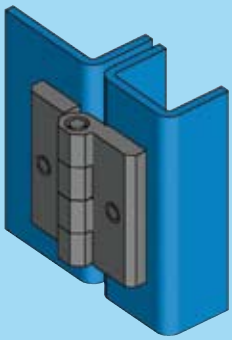

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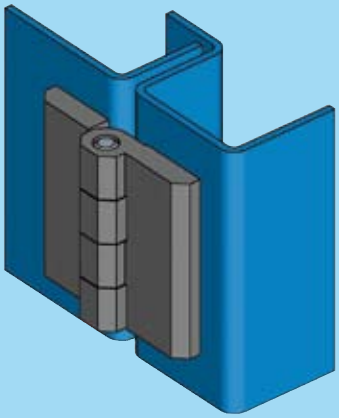

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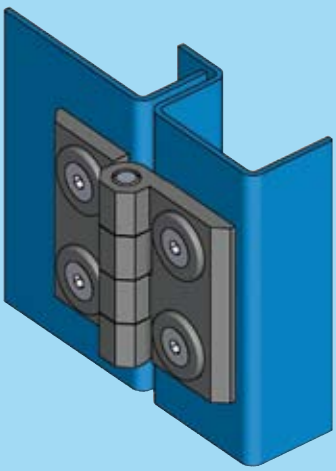

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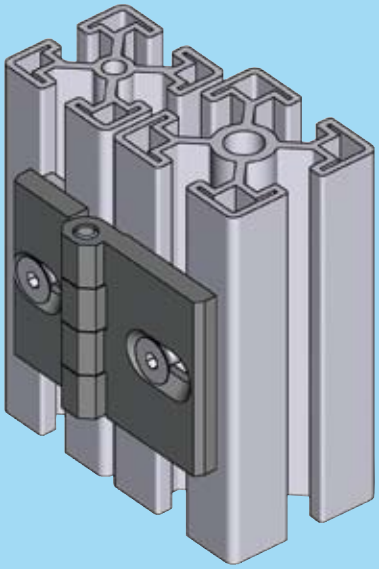

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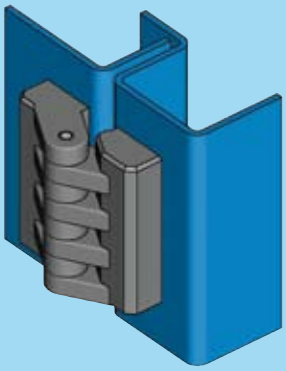

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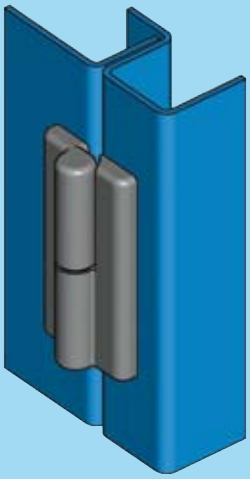

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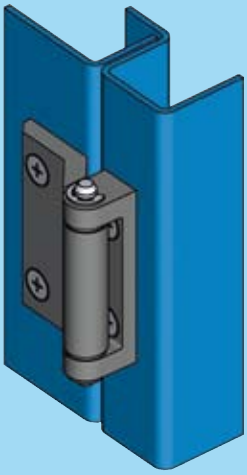

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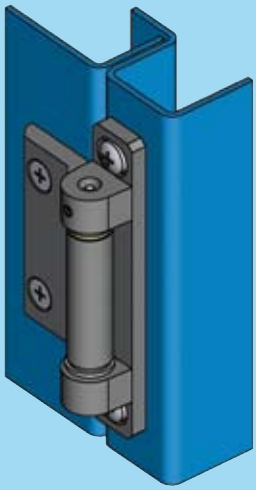

1	90° and 180° concealed hinge	4B-120 up to 4B-140
2	180° and 270° prominent hinge	4B-160 up to 4B-220, 4B-245
3	180° 2D prominent hinge	4B-215
4	180° prominent hinge for aluminium profiles	4B-230
5	180° prominent hinge and lift-off version	4B-240
6	180° prominent hinge	4B-280 up to 4B-300
7	180° 2D and 3D prominent hinge	4B-248 to 4B-260

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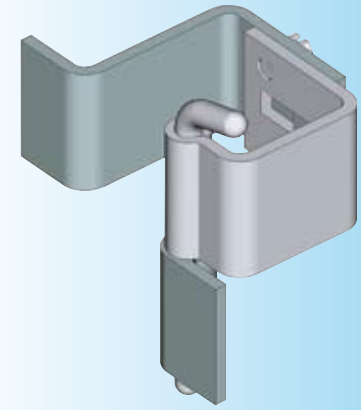
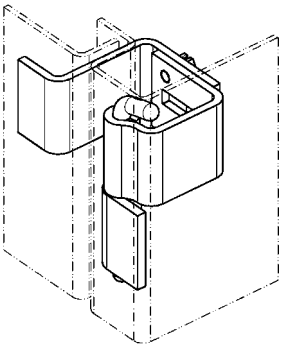
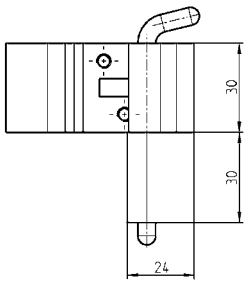
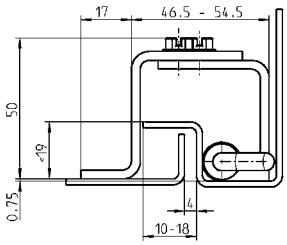
90° concealed hinge

PROGRAM 1006, 1007

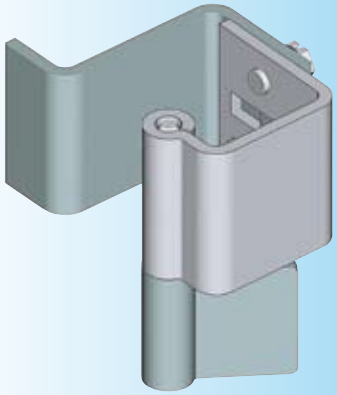


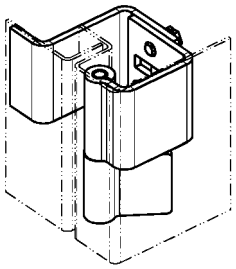


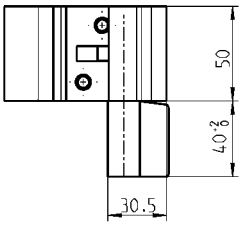


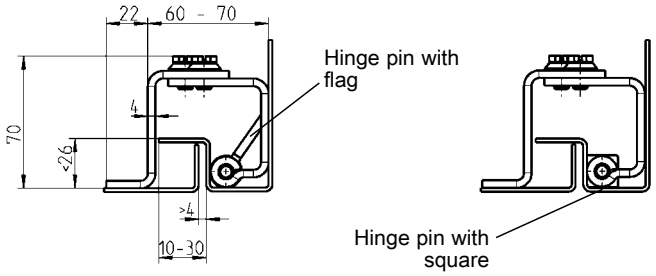


Concealed hinge	
m.s. zinc pl., weld-on part m. s. raw	1006-U1
AISI 304 and AISI 303	1006-U1-PC









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

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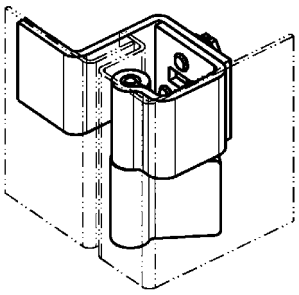
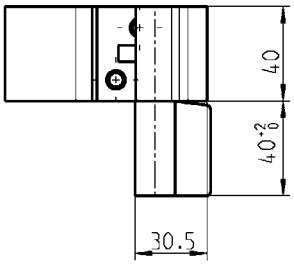
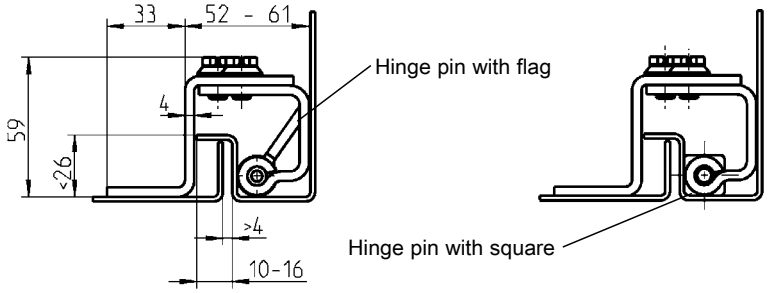
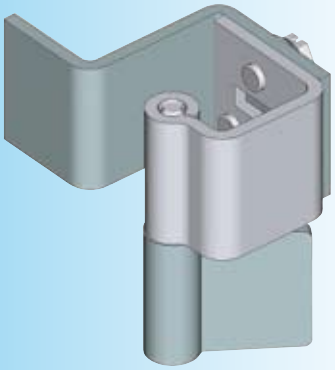
90° concealed hinge

PROGRAM 1046

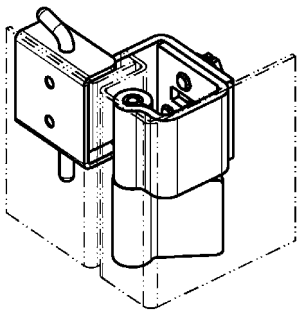


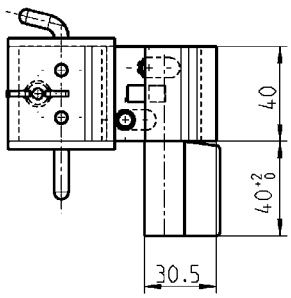


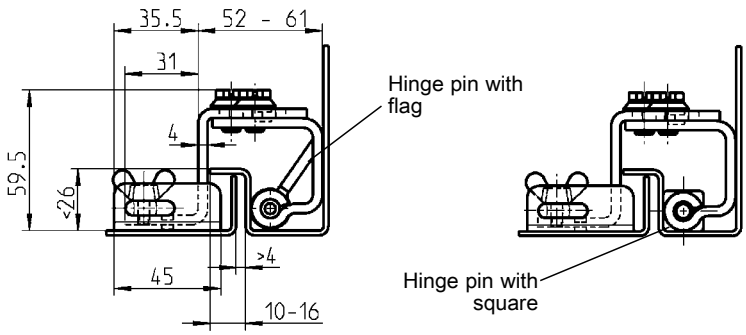


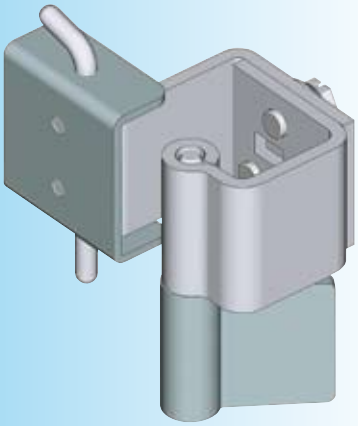


Concealed hinge m.s. zinc pl., weld-on parts m.s. raw or AISI 304 and AISI 303		
	m.s.	AISI 304
hinge pin with flag	1046-U1	1046-U5
Hinge pin with square (17x50)	1046-U3	–









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

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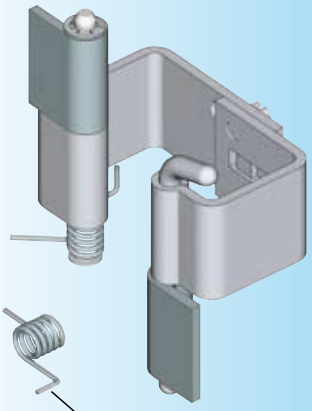
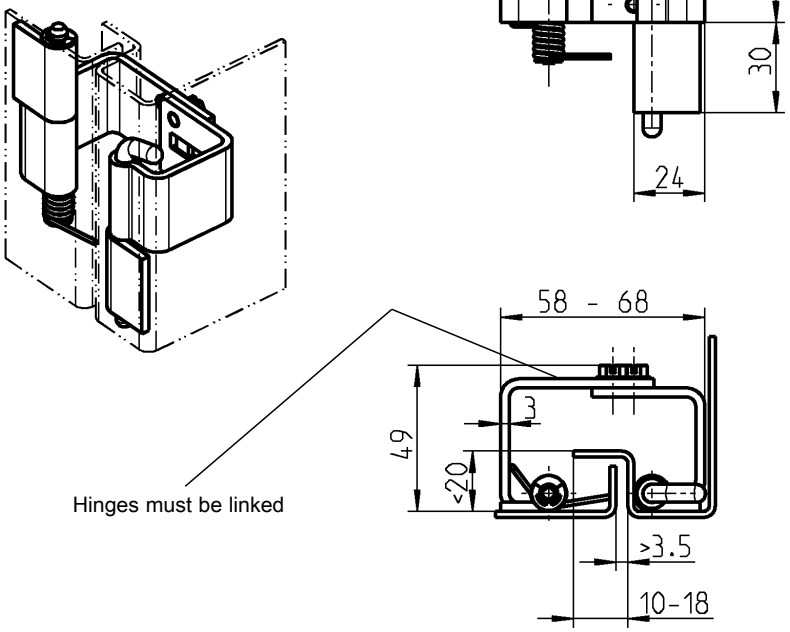
180° concealed hinge

PROGRAM 1042, 1043

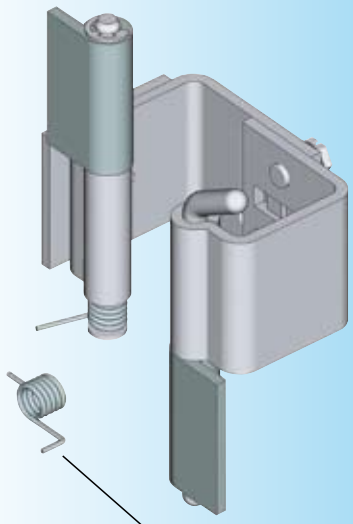


Spring for LH-version

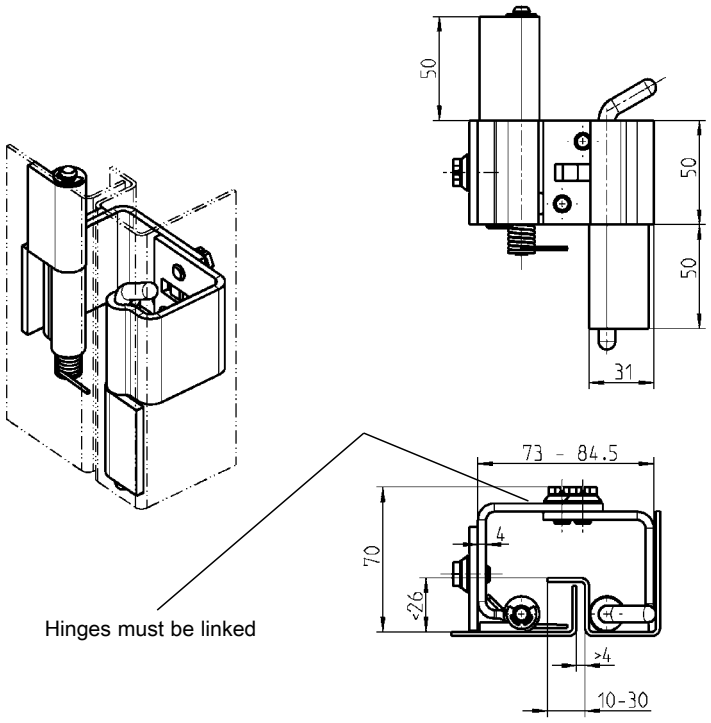


180° concealed hinge m.s. zinc pl., spring material spring steel, weld-on parts m.s.

1042-U1



Spring for LH-version



180° concealed hinge m.s. zinc pl., spring material spring steel, weld-on parts m.s.

1043-U1

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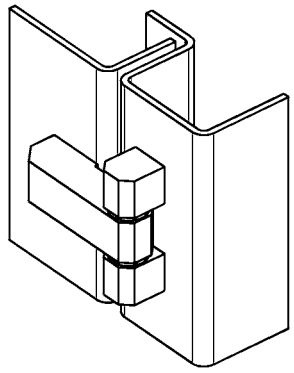
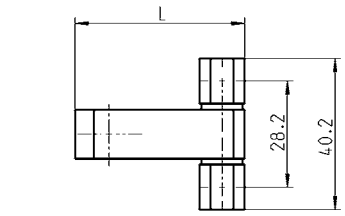
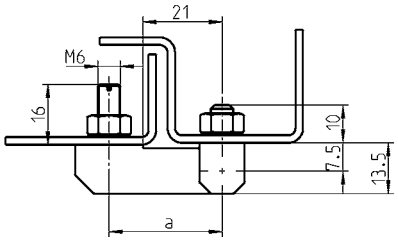
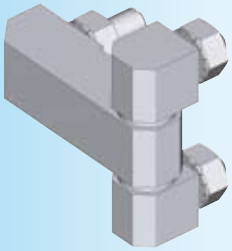
180° screw-on hinge

PROGRAM 1039, 1055

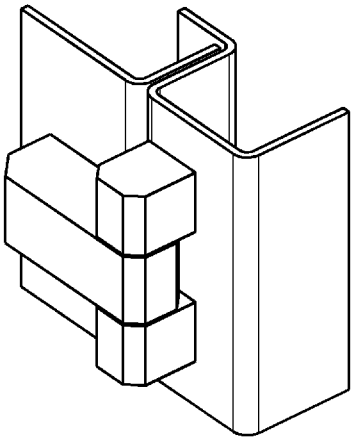


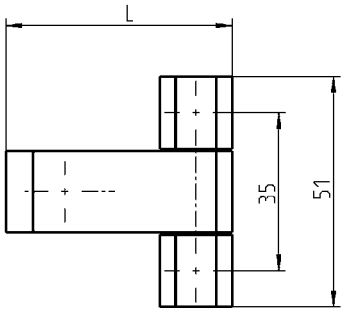


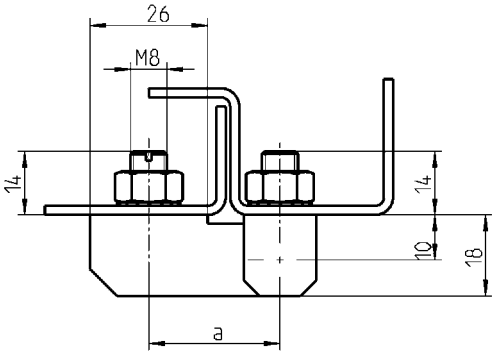


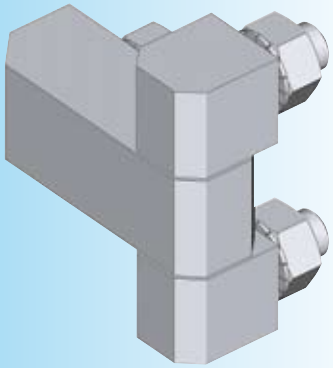


Screw-on hinge m.s. zinc pl., pin and washer brass nickel pl. or stainl. steel				
L	**a**	**m.s.**	**AISI 303**	**AISI 316**
45	30	1055-U3	1055-U7	1055-U9
53	38	1055-U4	–	–









Screw-on hinge m.s. zinc pl., pin and 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	–	–

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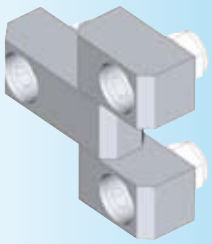
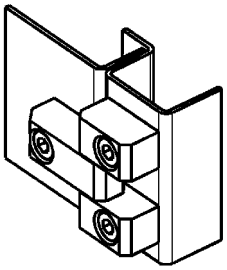
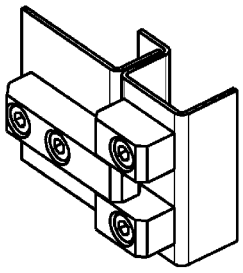
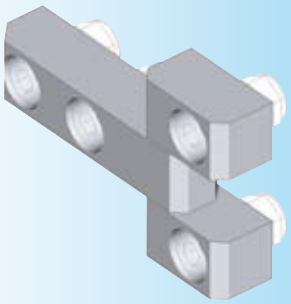
180° screw-on hinge

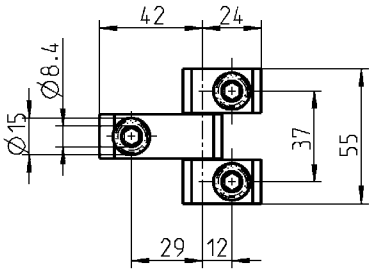
PROGRAM 1039

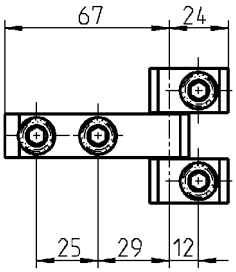


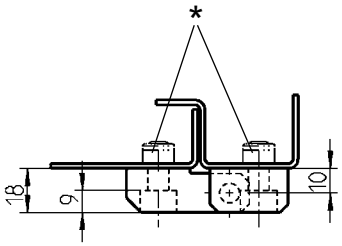


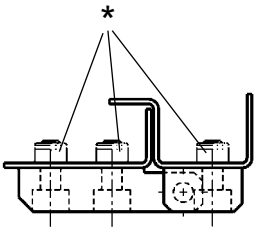












* not included

Screw-on hinge m.s. zinc pl., pin and washer brass nickel pl.	
short middle part with one hole Ø 8,4 mm	1039-U13
short middle part without holes, weld-on part	1039-U14
long middle part with two holes Ø 8,4 mm	1039-U15

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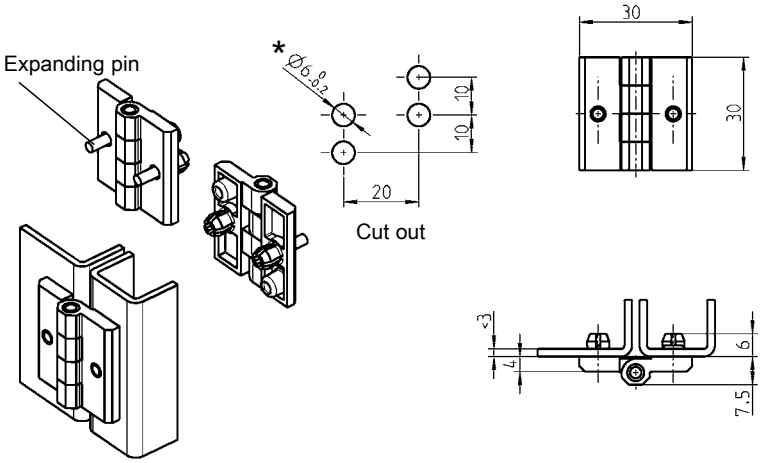
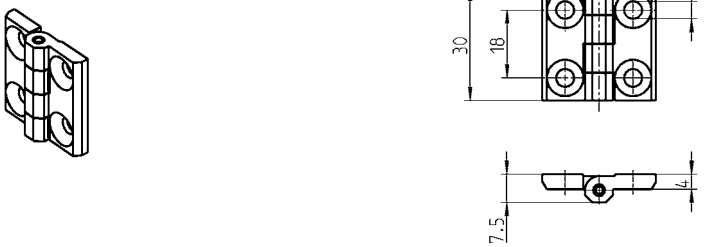
180° screw-on hinge

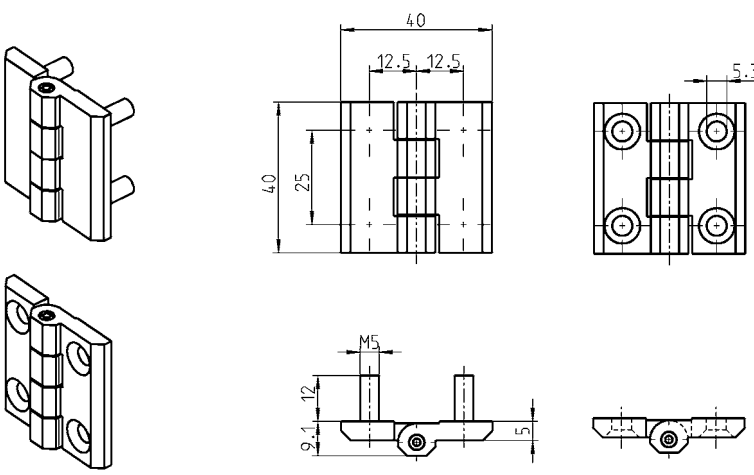
PROGRAM 1056



Hinge, hinge pin and expanding pins polyamide black	
	1056-U32

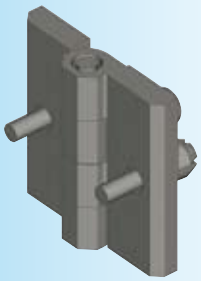


Screw-on hinge for countersunk screw M4, GD-Zn surface on choice, pin stainless steel	
black powder coated	1056-U60
chrome plated	1056-U61



EDELSTAHL Rostfrei STAINLESS STEEL

Screw-on hinge zinc die, Polyamide black or stainless steel; grub screw M5 stainless steel			
	pin	with threaded studs M5	for countersunk screw M5
zinc die chrome pl.	stainl. steel	1056-U3	1056-U5
zinc die black p.c.	stainl. steel	1056-U4	1056-U6
polyamide GF black	stainl. steel	–	1056-U30
polyamide GF black	polyamide	–	1056-U41
AISI 316	stainl. steel	–	1056-U5-PH



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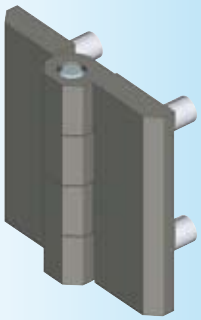
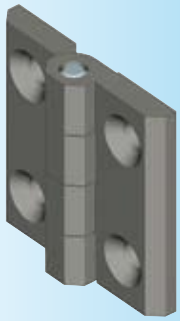
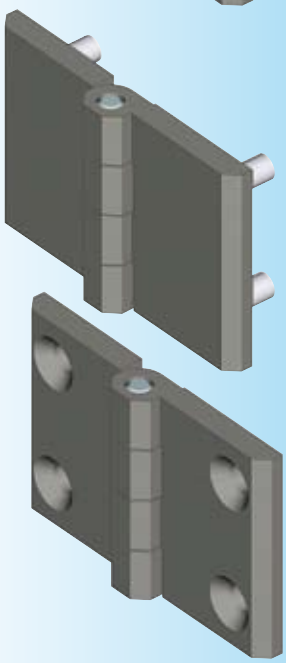
180° and 270° screw-on hinge

PROGRAM 1056

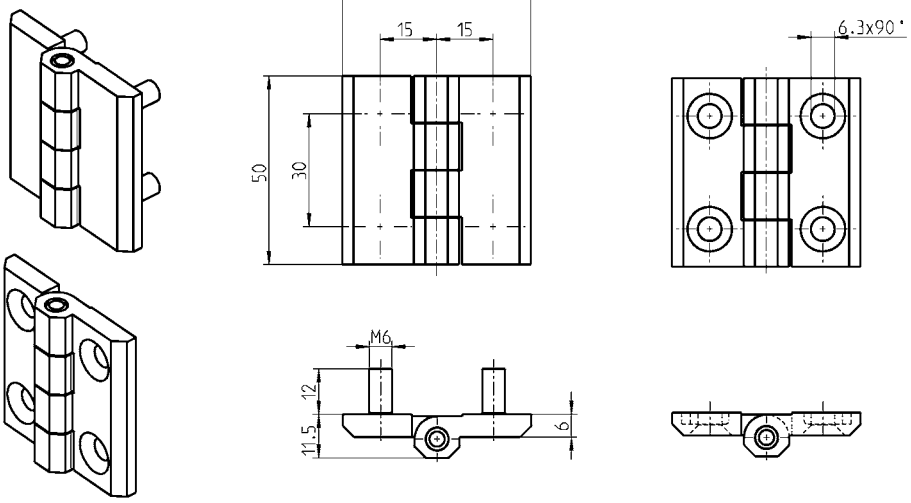






EDELSTAHL Rostfrei STAINLESS STEEL

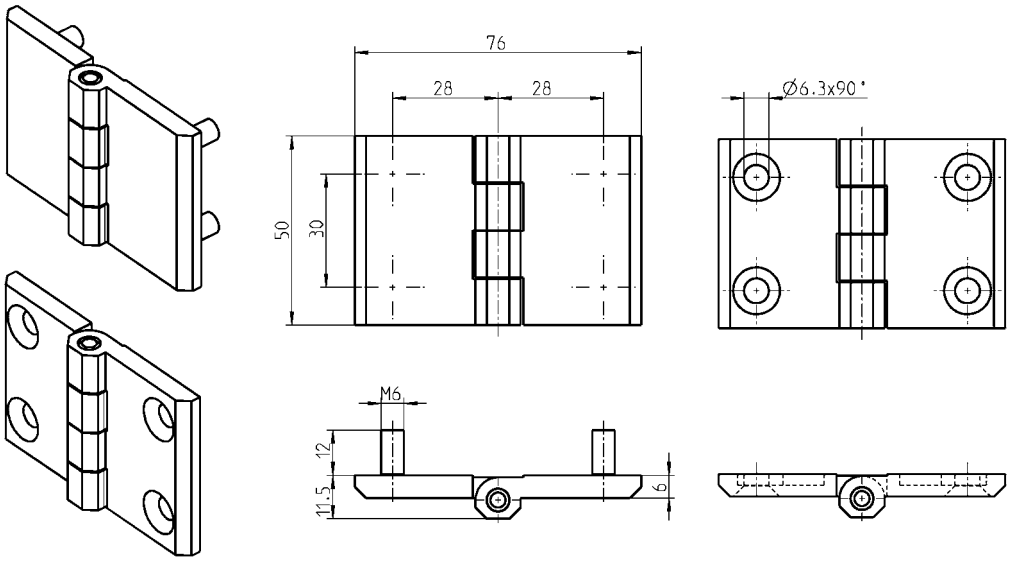
180° screw-on hinge



Screw-on hinge zinc die, polyamide black or stainless steel; grub screw M6 stainless steel			
	pin	with threaded studs M6	for countersunk screw M6 (2D-nut possible)
zinc die chrome pl.	stainless steel	1056-U7	1056-U9
zinc die black p.c.	stainless steel	1056-U8	1056-U10
Polyamide GF black	stainless steel	–	1056-U31
polyamide GF black	polyamide	–	1056-U42
AISI 316	stainless steel	–	1056-U9-PH

EDELSTAHL Rostfrei STAINLESS STEEL

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

Further parts see page
– 2D-nut 12E-120

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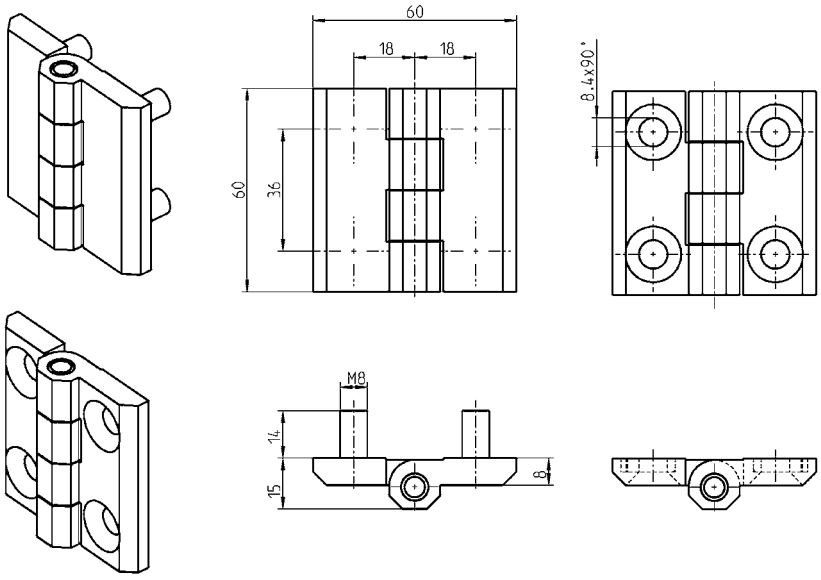
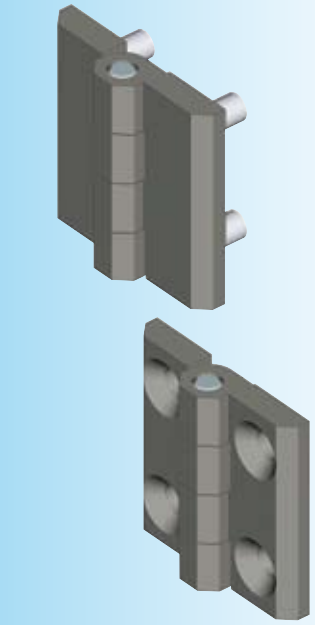
180° screw-on hinge

PROGRAM 1056

EDELSTAHL Rostfrei STAINLESS STEEL





Screw-on hinge zinc die or polyamide, threaded studs M8 stainl. steel			
	pin	with threaded studs M8	for countersunk screw M8
zinc die chrome pl.	stainless steel	1056-U11	1056-U13
zinc die black p.c.	stainless steel	1056-U12	1056-U14
AISI 316	stainless steel	–	1056-U13-PH

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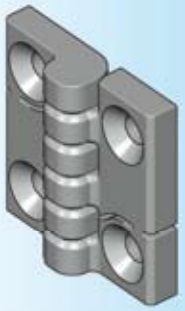
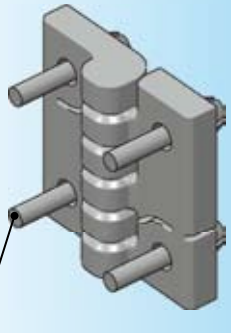
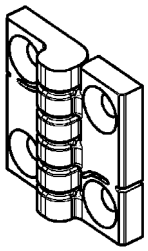
®180° clip-in hinge to screw on or with Expansion pins

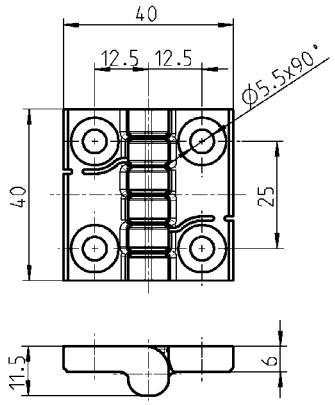
PROGRAM 1056

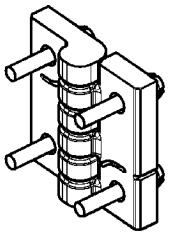


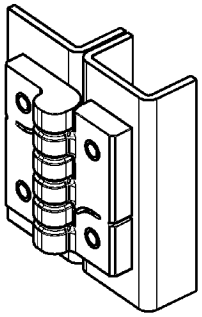


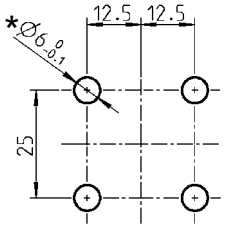
Expanding pin



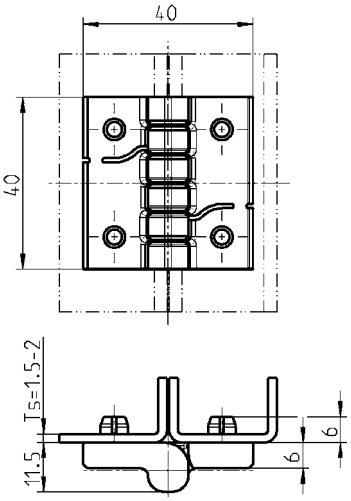






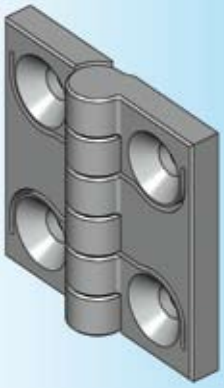


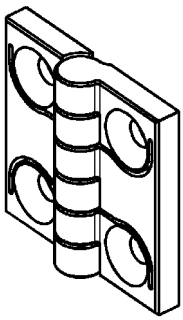
Cut out

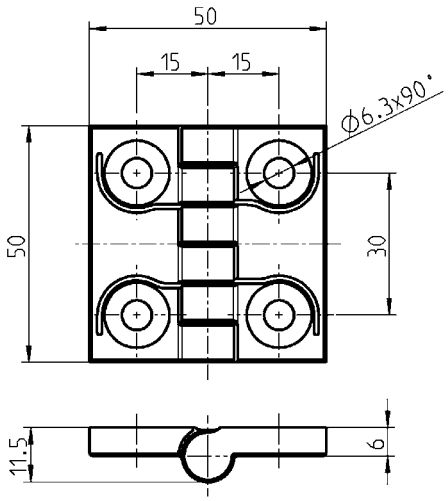


* Attention:
The indicated dimension is the final dimension, please observe in case of surface coatings.

Clip-in hinge for countersunk screw M5 polyamide GF colour as requested, unassembled	
black	1056-U66
silver	1056-U66-HW
Clip-in hinge with expansion pins polyamide GF black, unassembled	
	1056-U67







Clip-in hinge for countersunk screw M6 polyamide GF colour as requested, unassembled	
black	1056-U68
silver	on request

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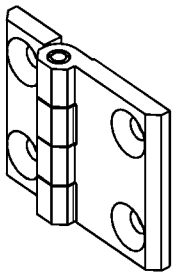
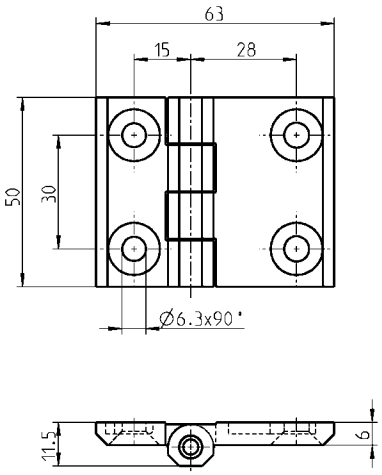
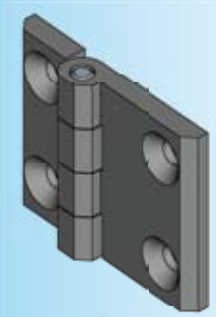
180° screw-on hinge

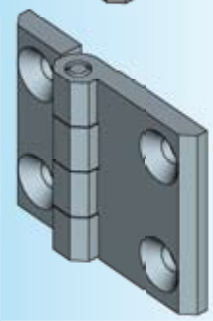
PROGRAM 1056

EDELSTAHL Rost frei STAINLESS STEEL

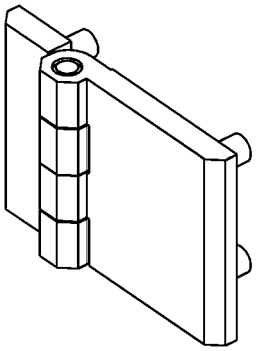


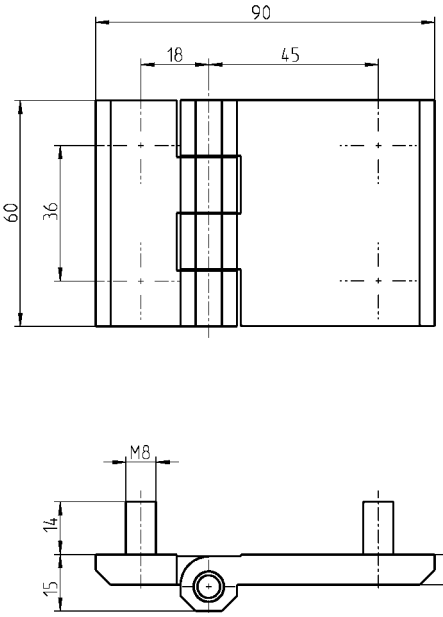


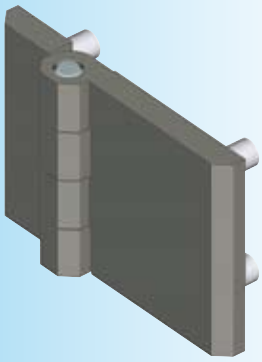




Screw-on hinge zinc die or stainless steel, hinge pin stainless steel, for countersunk screw M6 (2D-nut possible)	
zinc die black p.c.	1056-U59
AISI 316	1056-U59-PH







Screw-on hinge zinc die, pin and grub screw M8 stainl. steel	
chrome plated	1056-U19
black powder coated	1056-U20

Further parts see page
– 2D-nut 12E-120

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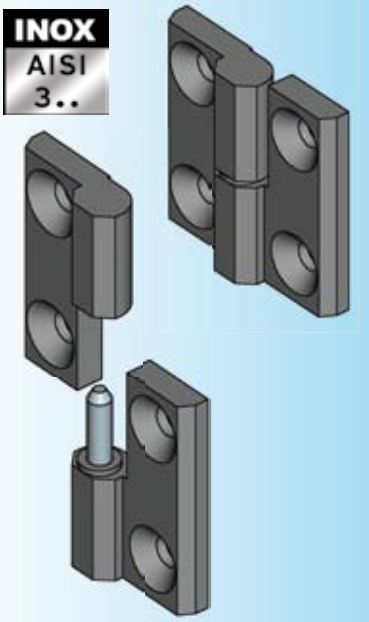
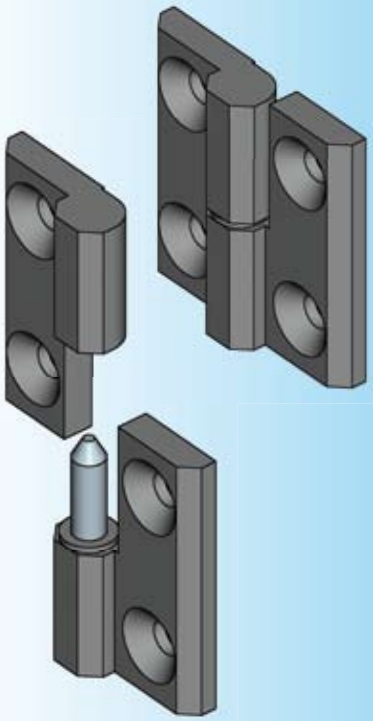
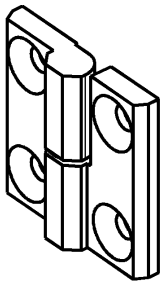
180° screw-on hinge

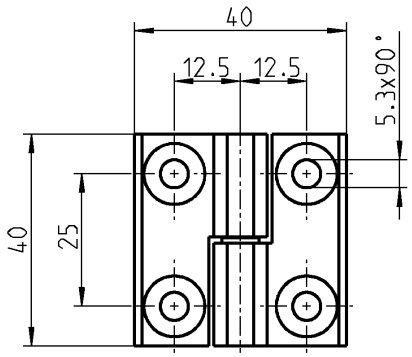
PROGRAM 1056



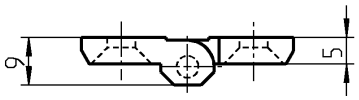


EDELSTAHL® Rostfrei STAINLESS STEEL



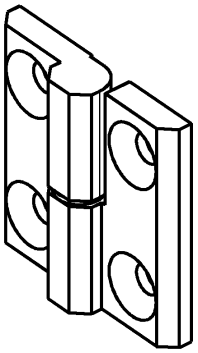


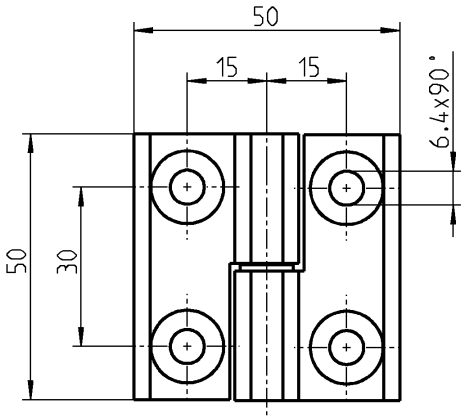
Right-hand version shown
Left-hand version is a mirror-image



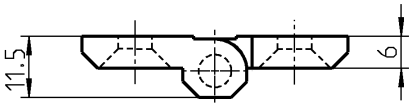
Screw-on hinge zinc die black powder coated or AISI 316, washer polyamide black or stainless steel, pin stainless steel		
for countersunk screw M5	**Zinc die**	**AISI 316**
LH version	1056-U54	1056-U54-PH
RH version	1056-U53	1056-U53-PH

EDELSTAHL® Rostfrei STAINLESS STEEL





Right-hand version shown
Left-hand version is a mirror-image



Screw-on hinge zinc die black powder coated or AISI 316, washer polyamide black or stainless steel, pin stainless steel		
for countersunk screw M6 (2D-nut possible)	**Zinc die**	**AISI 316**
LH version	1056-U56	1056-U56-PH
RH version	1056-U55	1056-U55-PH

Further parts see page
– 2D-nut 12E-120

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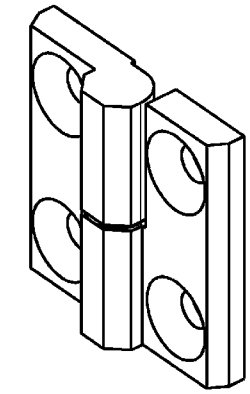
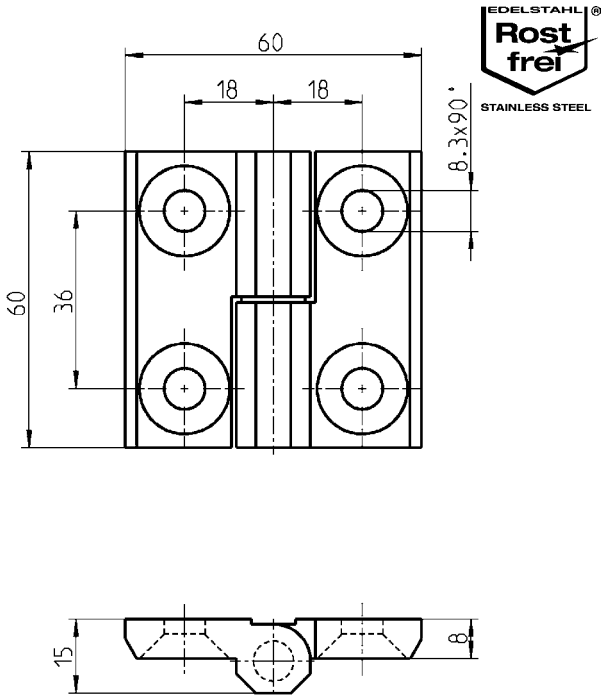
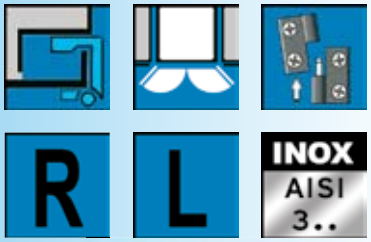
180° screw-on hinge

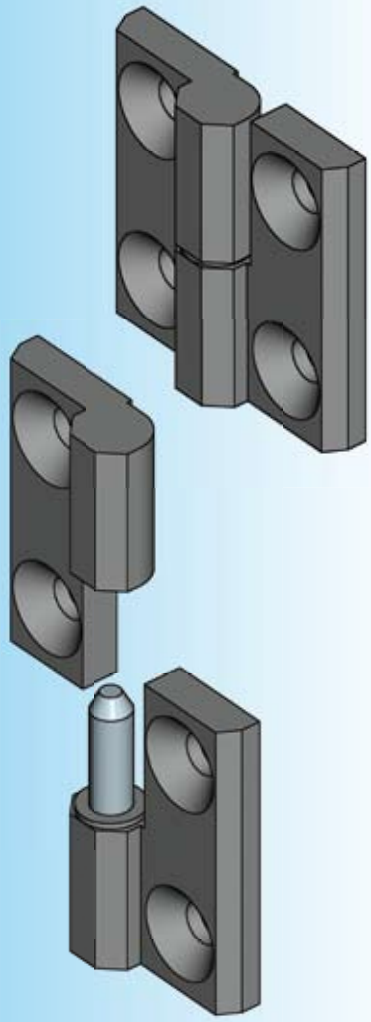
PROGRAM 1056



Right-hand version shown
Left-hand version is a mirror-image







Screw-on hinge zinc die black powder coated or AISI 316, washer polyamide black or stainless steel, pin stainless steel		
for countersunk screw M8	**Zinc die**	**AISI 316**
LH version	1056-U58	1056-U58-PH
RH version	1056-U57	1056-U57-PH

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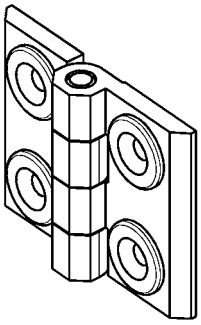
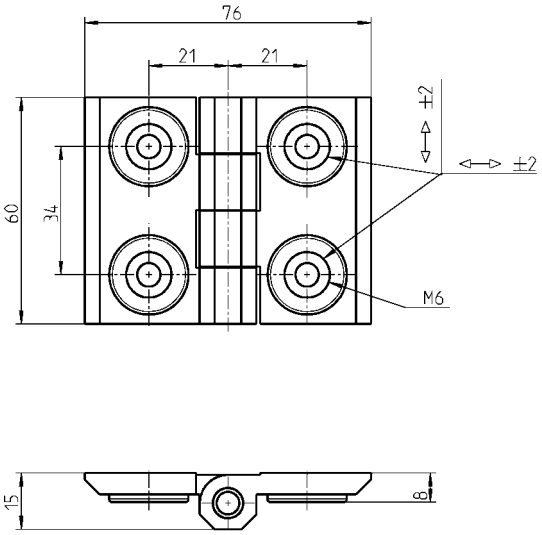
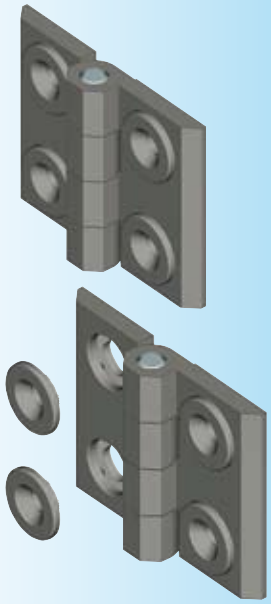
180° screw-on hinge

PROGRAM 1056

180° 2D-screw-on hinge



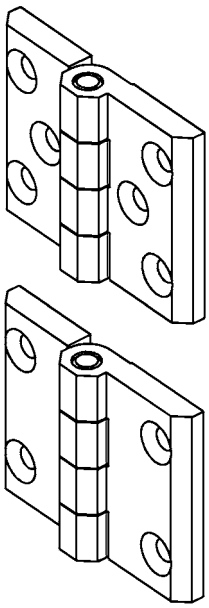


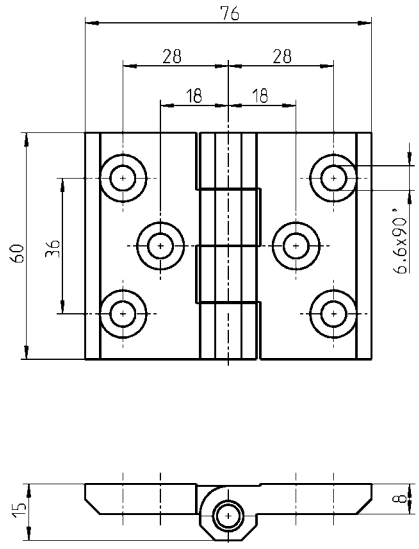


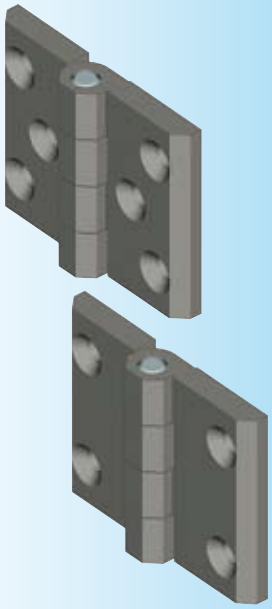
Adjustable ± 2 mm
in the horizontal
and vertical direction

2D screw-on hinge zinc die black p.c., pin stainl. steel	
	1056-U27

180° screw-on hinge







screw-on hinge zinc die black p.c., pin stainl. steel	
with 4 countersunk holes for screw M6 (2D-nut possible)	1056-U29
with 6 countersunk holes for screw M6 (2D-nut possible)	1056-U28

Further parts see page
– 2D-nut 12E-120

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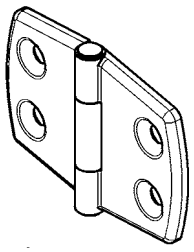
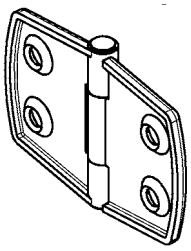
180° screw-on hinge

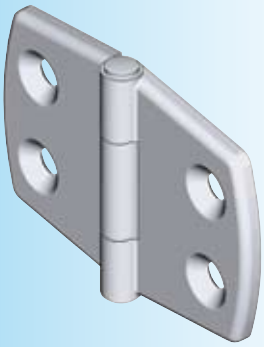
PROGRAM 6020

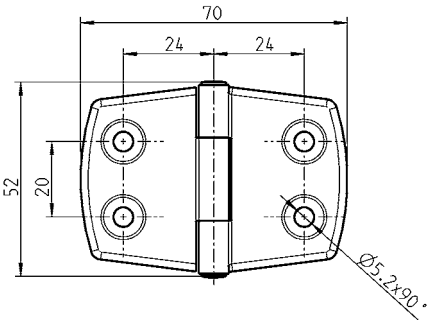
EDELSTAHL Rostfrei STAINLESS STEEL

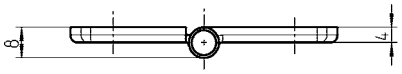
INOX AISI 3..











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

Screw-on hinge for countersunk screw small head M5 AISI 316 polished

6020-U1098-PP

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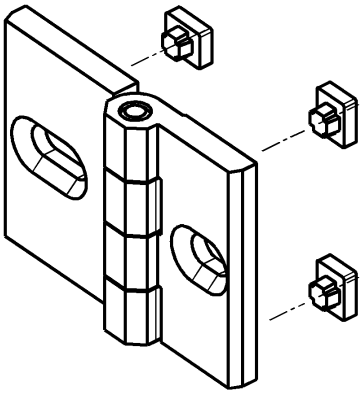
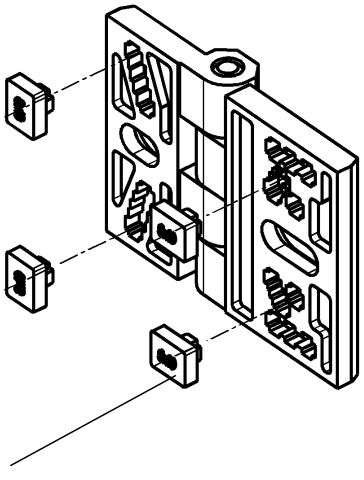
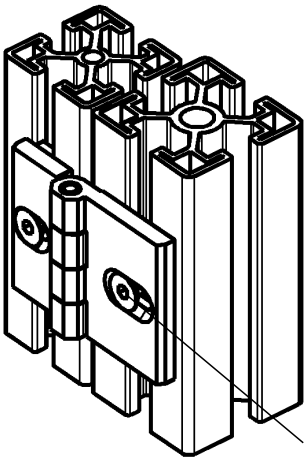
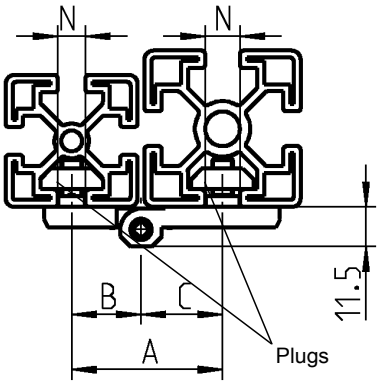
Hinge for aluminium profiles

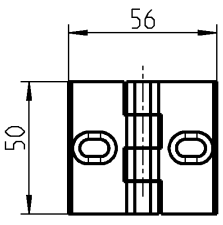
PROGRAM 1056

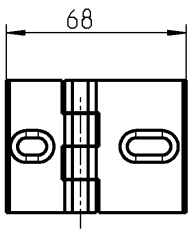


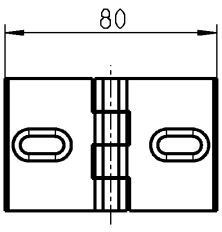












Hinge for aluminium profiles zinc die black p.c., pin stainless steel and plugs zinc die								
Plugs	8x10	1056-U21	Plugs	8x10	1056-U22	Plugs	8x10	1056-U23
	7x10	1056-U24		7x10	1056-U25		7x10	1056-U26

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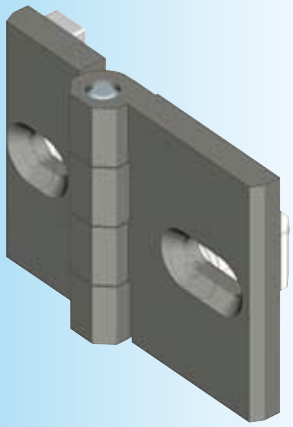
– for location of socket for plug please refer to rear of hinge
– this hinge can be installed with aluminium profiles from several renowned manufactures
– this hinge offers versatility due to several location options for plugs on the rear
– for four plugs, supplied with each of the hinges, provide protection against twisting and are suitable for slots of N = 8 and 10 or N = 7 and 10 mm (other N-dimensions on request)



Plugs 8x10 1056-U21 Plugs 7x10 1056-U24			Plugs 8x10 1056-U22 Plugs 7x10 1056-U25			Plugs 8x10 1056-u23 Plugs 7x10 1056-U26		
	socket			socket			socket	
A	B	C	A	B	C	A	B	C
33	16,5	16,5	37,5	16,5	21	42	21	21
34	16,5	17,5	38	16,5	21,5	42,5	21	21,5
35	16,5	18,5	40	16,5	23,5	44,5	21	23,5
35,5	16,5	19	42,5	16,5	26	47	21	26
36,5	16,5	20	44	16,5	27,5	48,5	21	27,5
35	17,5	17,5	47,5	16,5	31	52	21	31
36	17,5	18,5	38,5	17,5	21	43	21,5	21,5
36,5	17,5	19	39	17,5	21,5	45	21,5	23,5
37,5	17,5	20	41	17,5	23,5	47,5	21,5	26
37	18,5	18,5	43,5	17,5	26	49	21,5	27,5
37,5	18,5	19	45	17,5	27,5	52,5	21,5	31
38,5	18,5	20	48,5	17,5	31	47	23,5	23,5
38	19	19	39,5	18,5	21	49,5	23,5	26
39	19	20	40	18,5	21,5	51	23,5	27,5
40	20	20	42	18,5	23,5	54,5	23,5	31
			44,5	18,5	26	52	26	26
			46	18,5	27,5	53,5	26	27,5
			49,5	18,5	31	57	26	31
			40	19	21	55	27,5	27,5
			40,5	19	21,5	58,5	27,5	31
			42,5	19	23,5	62	31	31
			45	19	26			
			46,5	19	27,5			
			50	19	31			
			41	20	21			
			41,5	20	21,5			
			43,5	20	23,5			
			46	20	26			
			47,5	20	27,5			
			51	20	31			

* not included

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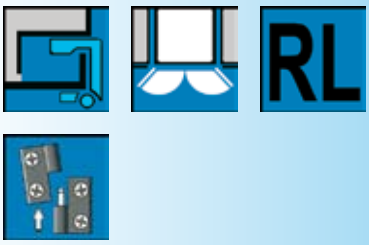
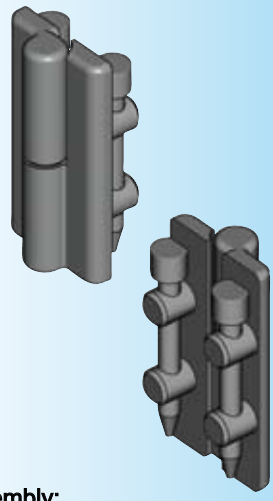
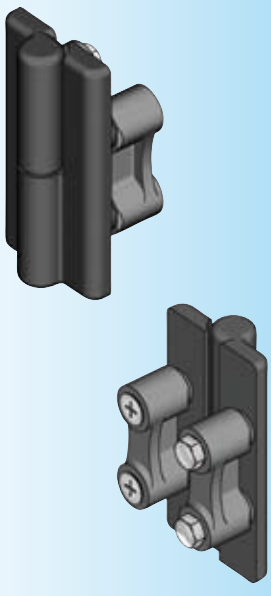
180° hinge

PROGRAM 1056



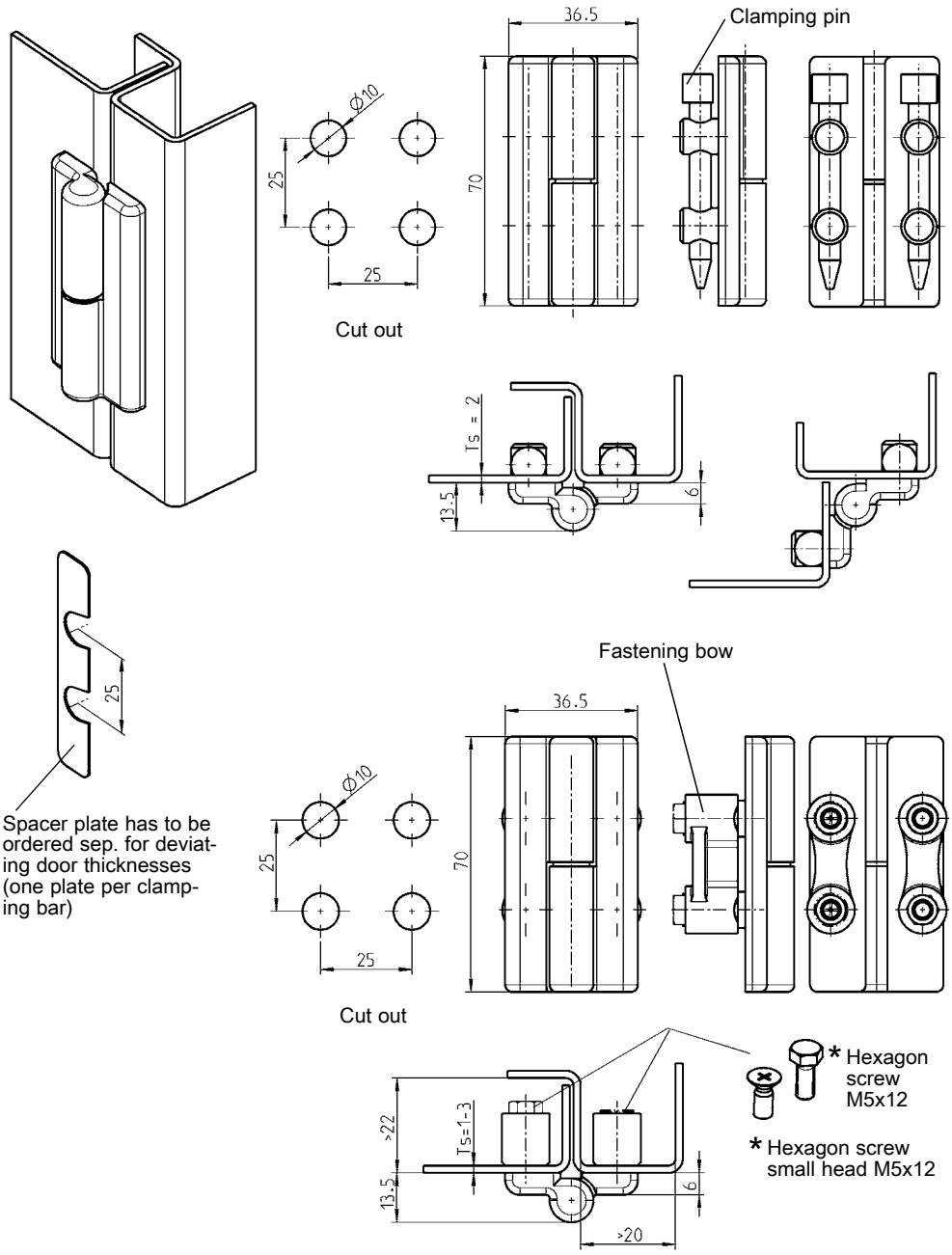


Assembly:
Hinge is fixed by driving in the polyamide pins. The stripping force in Z direction is 1500 N.



* not included

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



Hinge with clamping pin zinc die black powder coated or polyamide GF black; clamping pin Polyamide GF black, pin stainless steel			
		Zinc die	polyamide
Ts = 1.5	RH	–	1056-U49
Ts = 1.5	LH	–	1056-U50
Ts = 2.0	RH	1056-U35	–
Ts = 2.0	LH	1056-U33	–
Hinge with fastening bow zinc die black powder coated; pin stainless steel			
RH			1056-U44
LH			1056-U43
Spacer plate AISI 304 (one plate per clamping pin)			
Hinge for Ts	**change into Ts**		
1,5	1,0		1110-39-02
2,0	1,0		1110-39-03
2,0	1,5		1110-39-02

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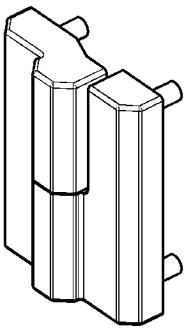
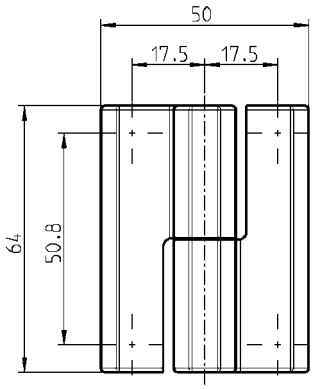
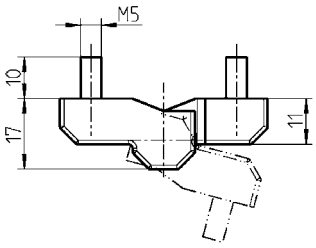
160° screw-on hinge

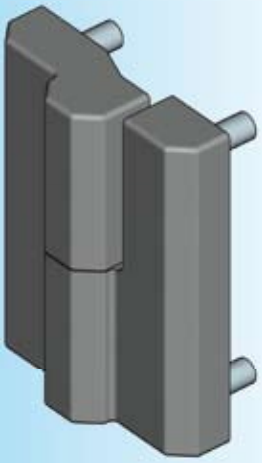
PROGRAM 1056

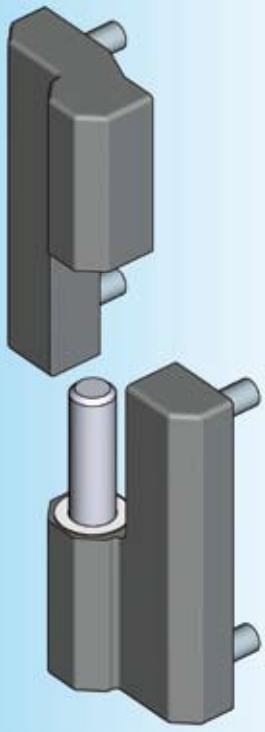


Right-hand version shown
Left-hand version is a mirror-image









Screw-on hinge zinc die black powder coated or chrome plated; washer Teflon white; hinge pin m.s. zinc plated		
	black powder coated	chrome plated
LH version	1056-U62	1056-U64
RH version	1056-U63	1056-U65

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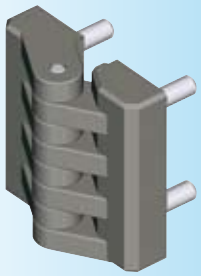
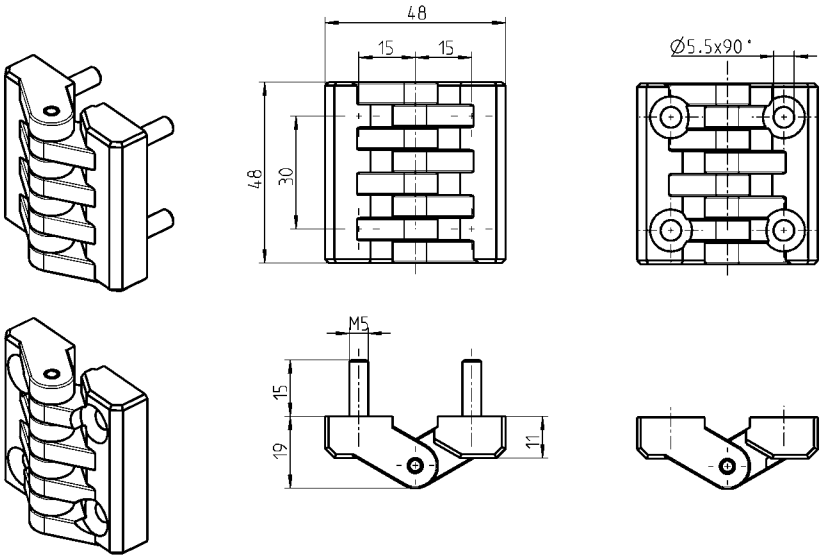
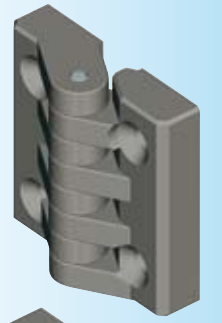
180° screw-on hinge with knuckles

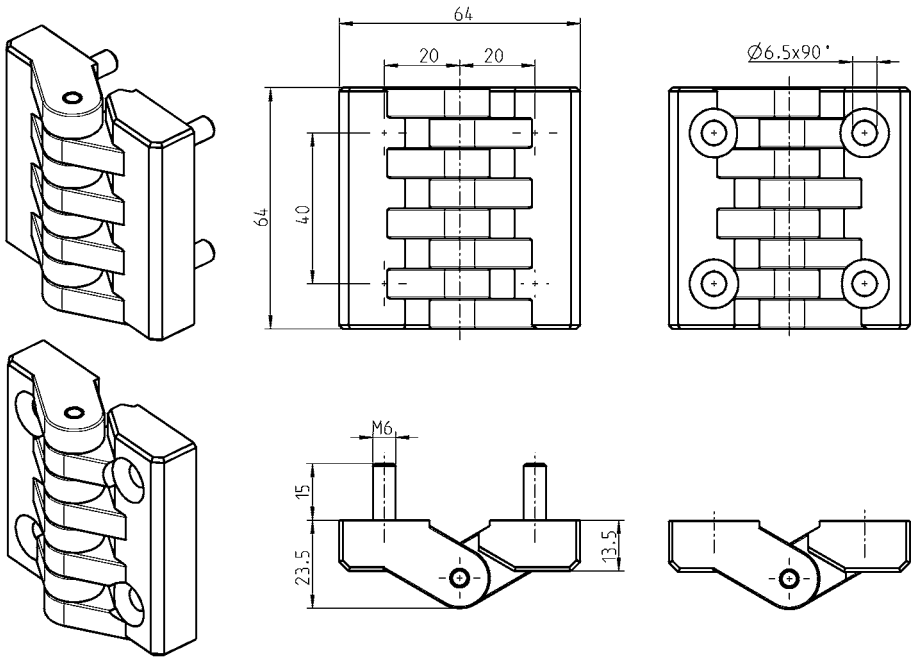
PROGRAM 1056





Screw-on hinge polyamide GF black; pin m.s. zinc plated	
for countersunk screw M5	1056-U37
with grub screw M5	1056-U38





Screw-on hinge polyamide GF black; pin m.s. zinc plated	
for countersunk screw M6 (2D-nut possible)	1056-U39
with grub screw M6	1056-U40

Further parts see page
– 2D-nut 12E-120

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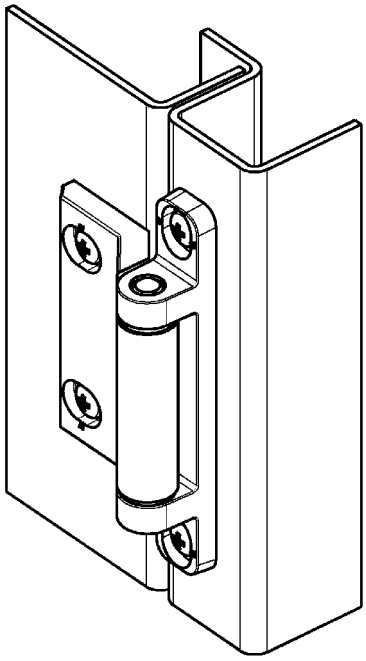
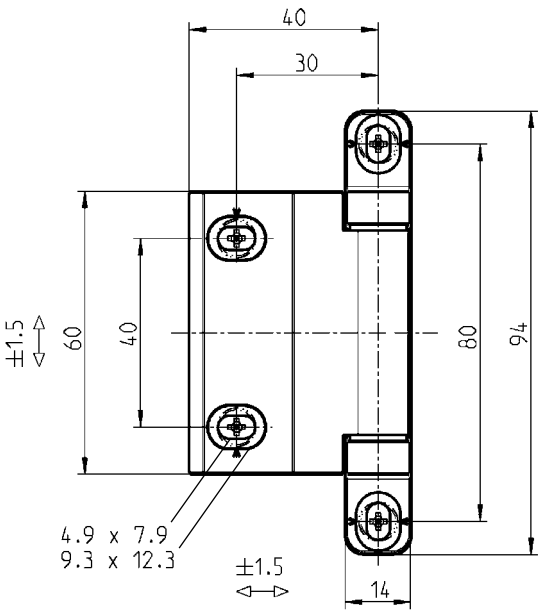
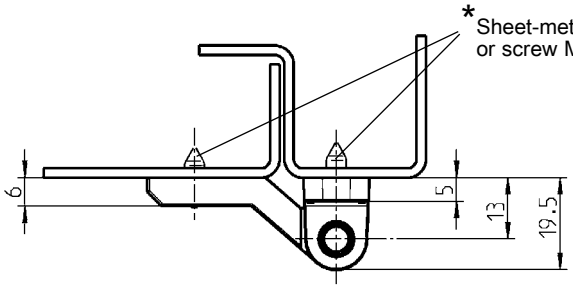
180° 2D hinge

PROGRAM 1054







* not included

180° 2D hinge zinc die black powder coated, pin stainless steel, bushes polyamide

1054-U37

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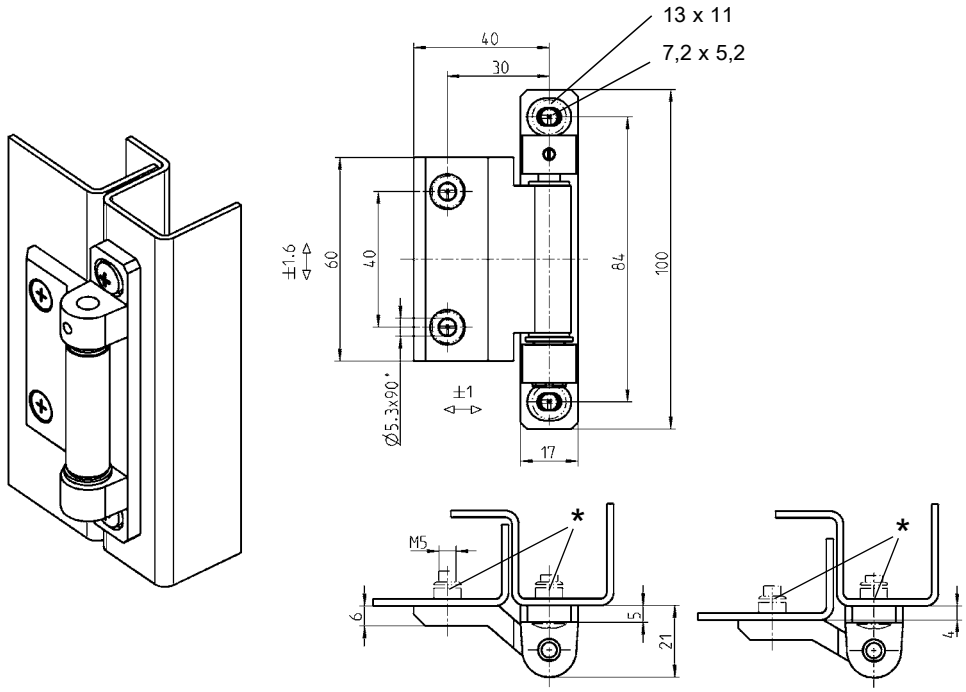
180° 2D-screw-on hinge

PROGRAM 1054

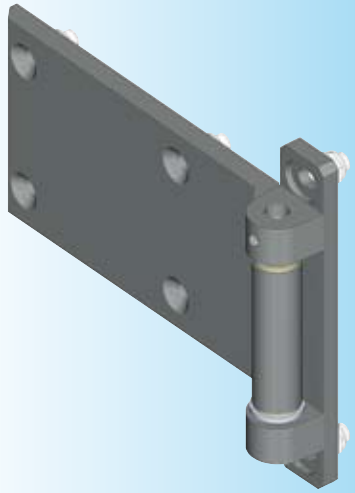


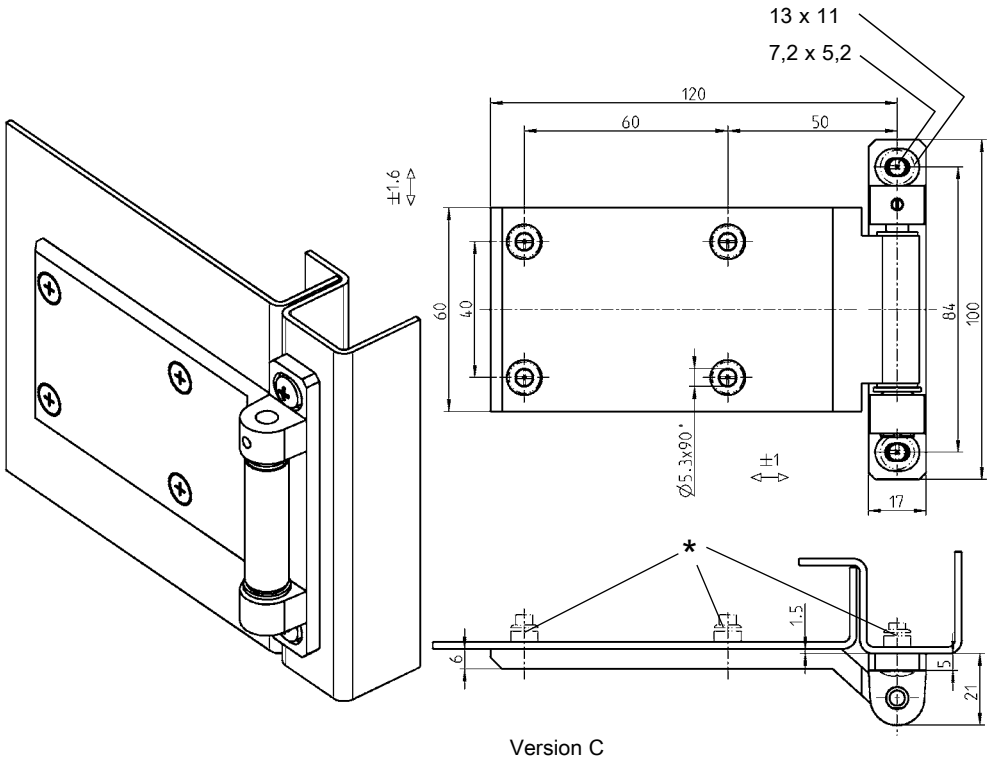
Version A Version B

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

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; shaft brass nickel plated; washer m.s. zinc plated 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

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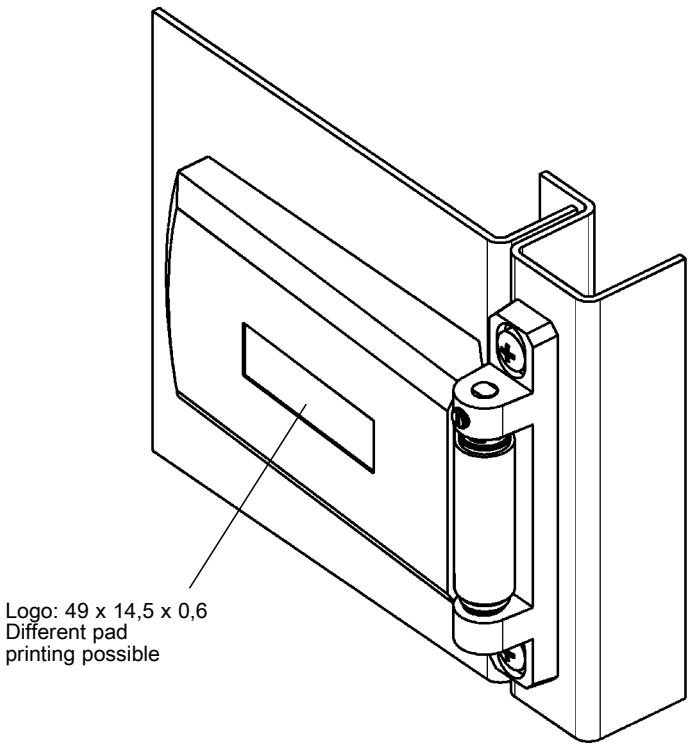
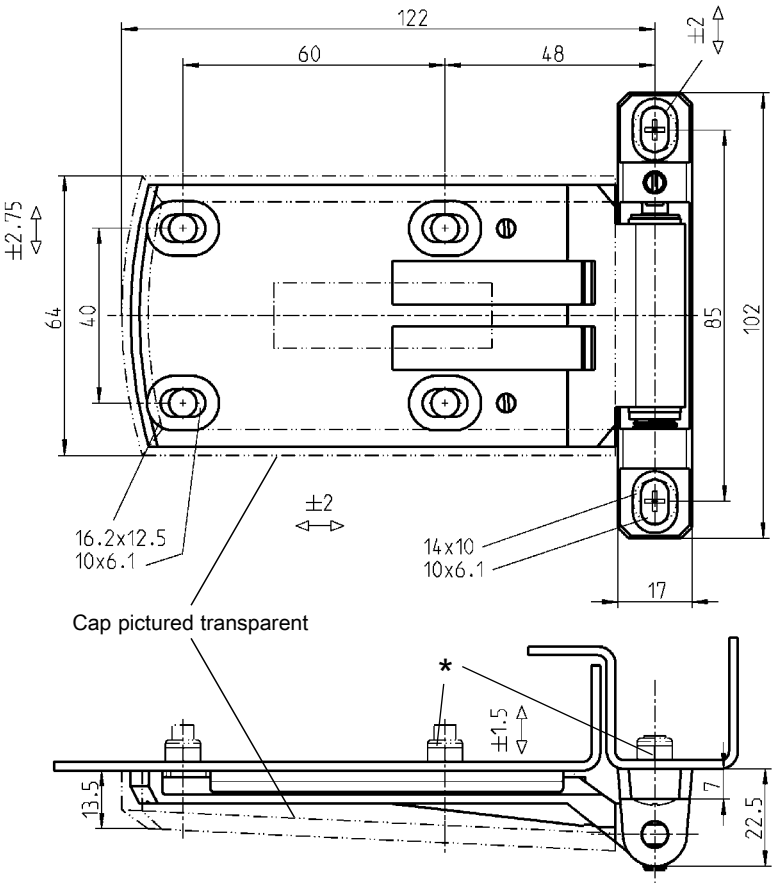
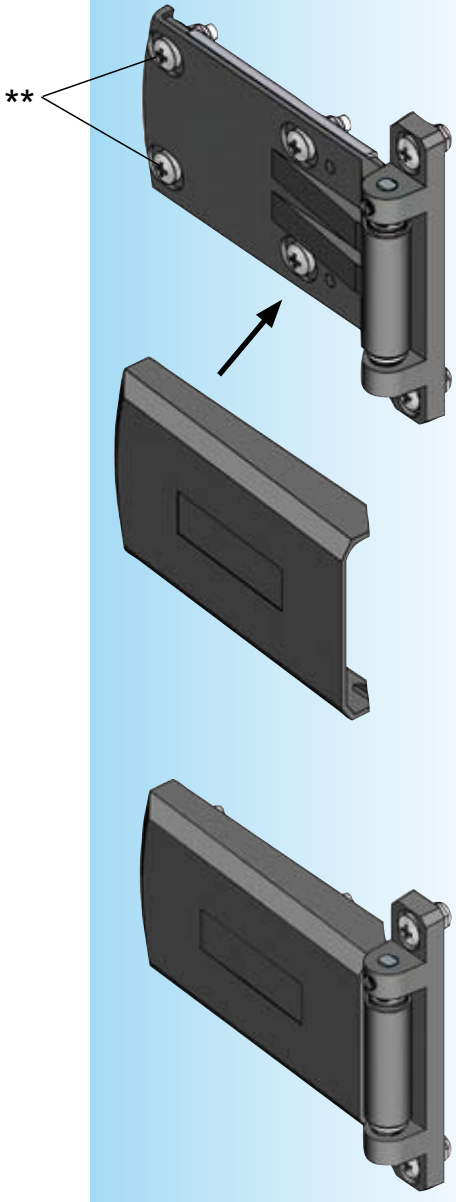
180° 3D-screw-on hinge

PROGRAM 1054

EMKA Beschlagteile







* not included

** Only screws with flat head or with max. head height 5 mm can be used

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

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

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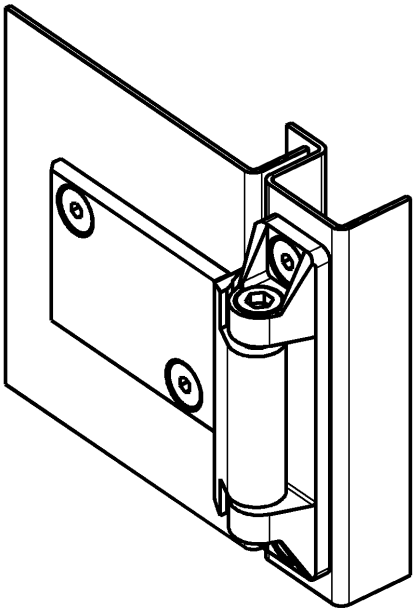
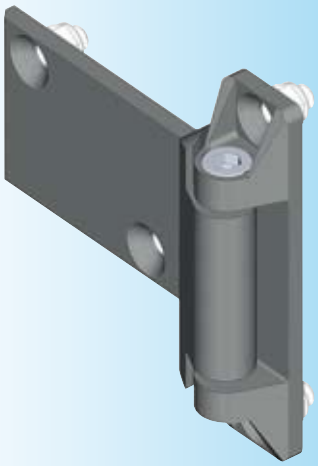
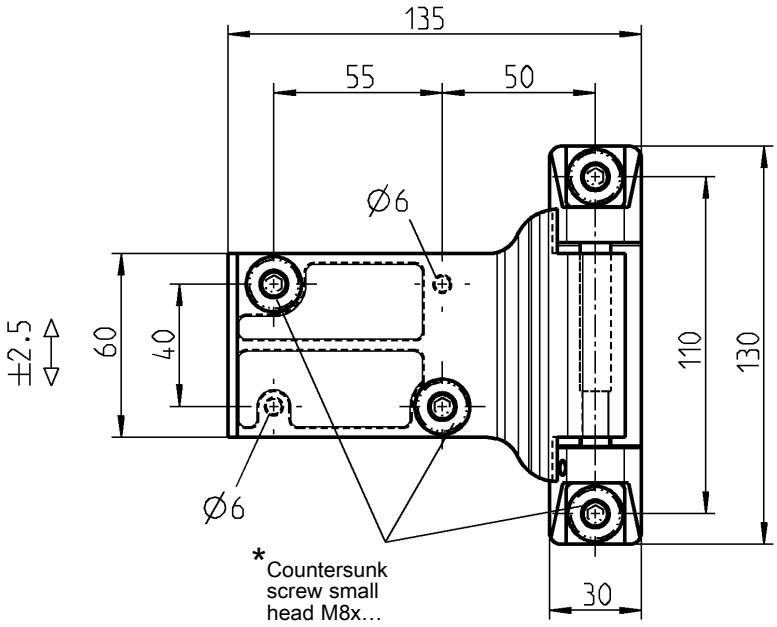
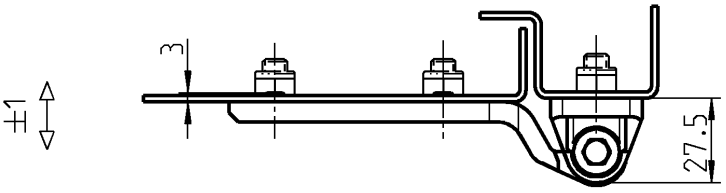
180° 3D-screw-on hinge

PROGRAM 1054









* not included

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

3D-screw-on hinge zinc die, shaft and grub screw stainless steel		
	LH version	RH version
black powder coated	1054-U32	1054-U31
raw	1054-U32-01	1054-U31-01

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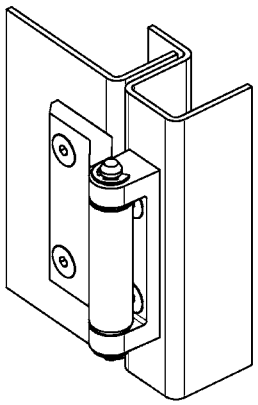
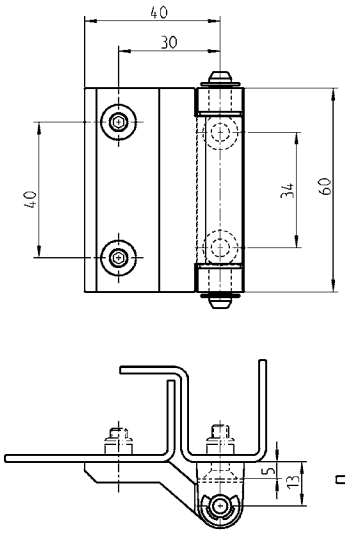
180° screw-on hinge

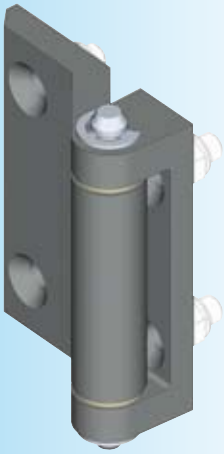
PROGRAM 1054

EDELSTAHL Rost frei STAINLESS STEEL

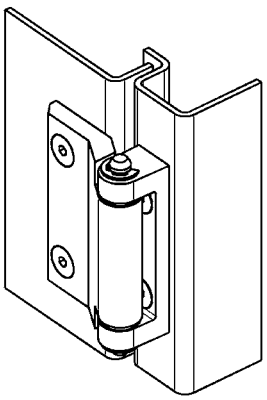


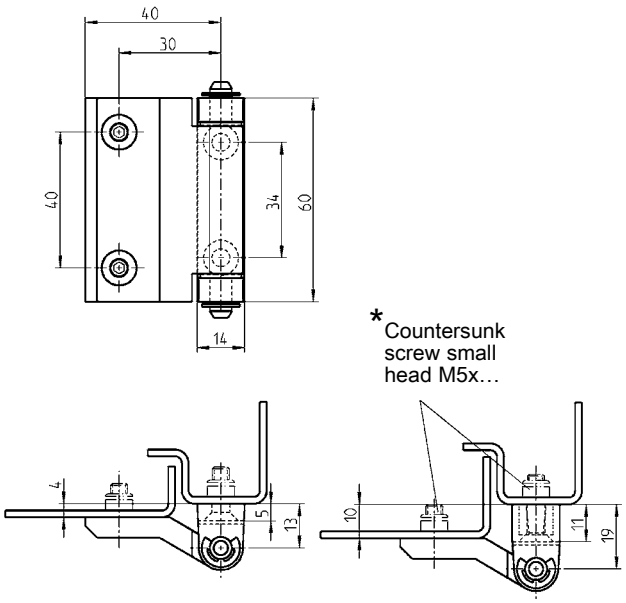


* Countersunk screw small head M5x…

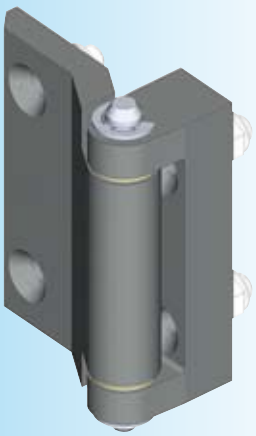


Screw-on hinge zinc die, pin and washer m.s. zinc pl. and bush polyamide		
	level	**6 mm higher**
chrome plated	1054-U4	1054-U27
black powder coated	1054-U5	1054-U28
raw	1054-U22**	1054-U29**
** = Minimum order quantity 1000 pcs.		
Screw-on hinge AISI 316 and bushes polyamide		
	1054-U5-PH	-





* Countersunk screw small head M5x…



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

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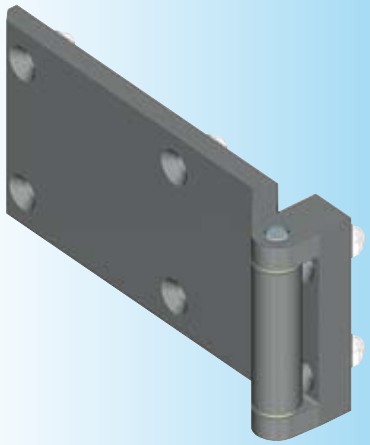
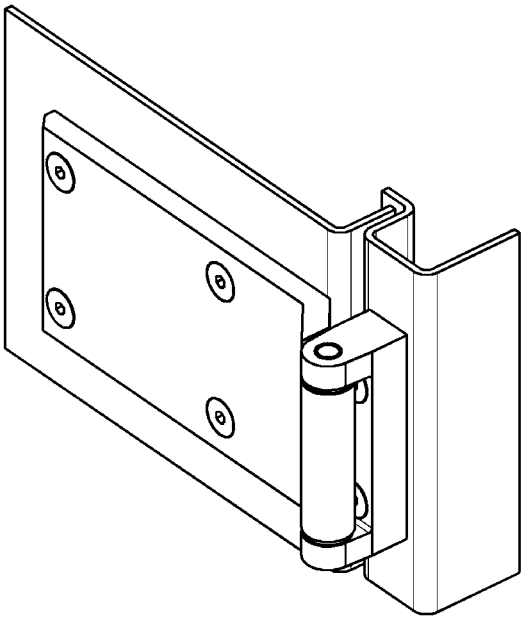
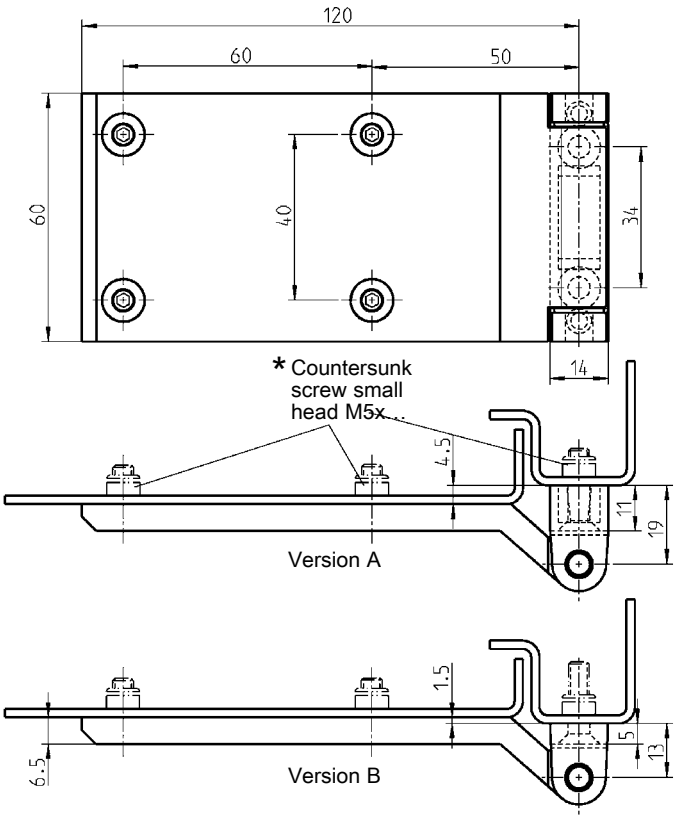
180° screw-on hinge

PROGRAM 1054







Screw-on hinge zinc die, pin stainless steel and bushes polyamide		
	Version A	Version B
black powder coated	1054-U11	1054-U6
raw	1054-U13**	1054-U12**
** = Minimum order quantity 1000 pcs.		

* not included

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

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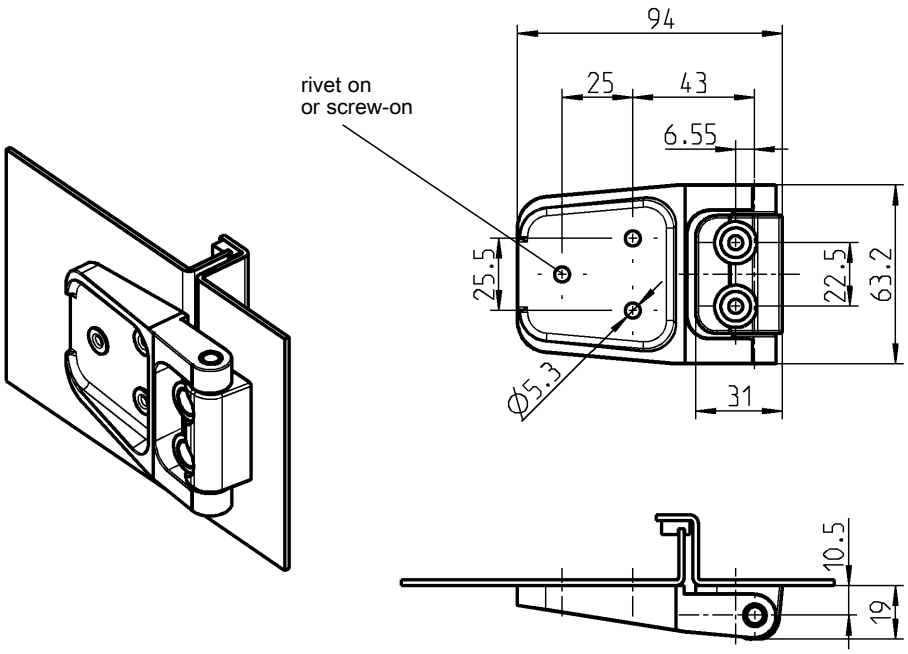
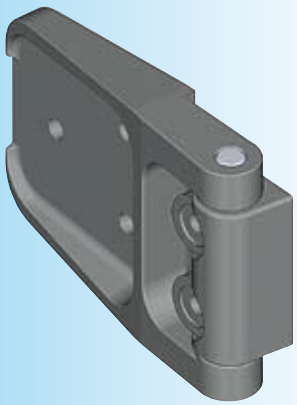
180° hinge

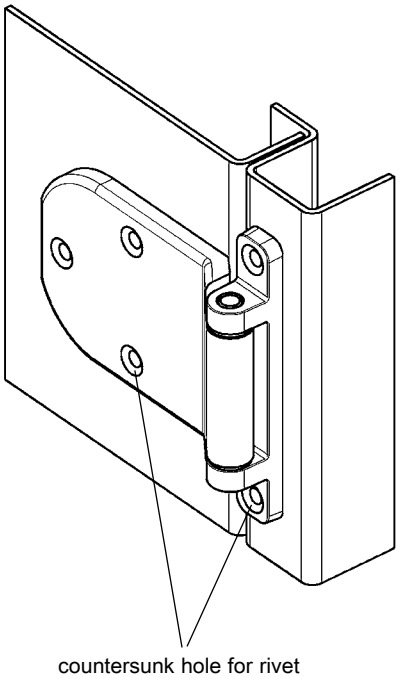
PROGRAM 1054, 1091

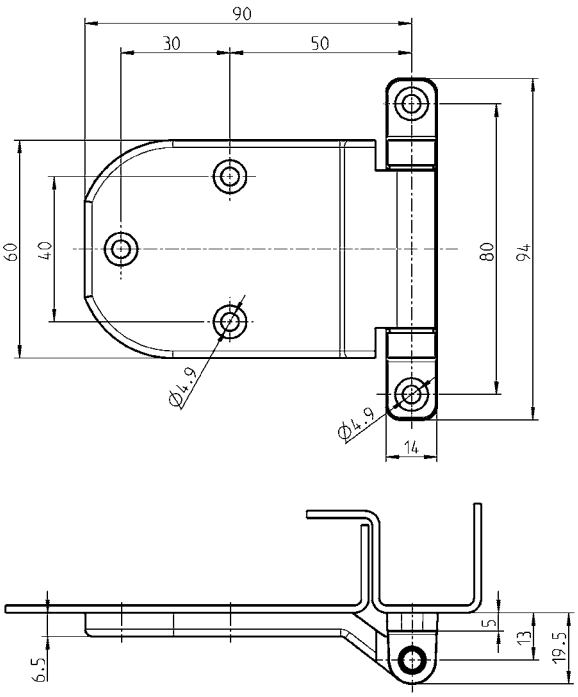


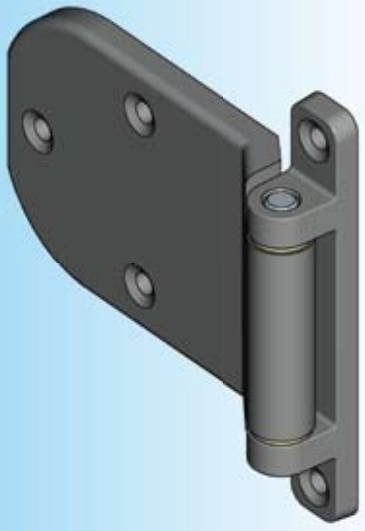


Application
for double skin doors

Hinge polyamide GF black, pin m.s. zinc pl.	
	1091-U117







180° hinge zinc die black powder coated; pin stainless steel, bushes polyamide	
with countersunk hole for rivet	1054-U38

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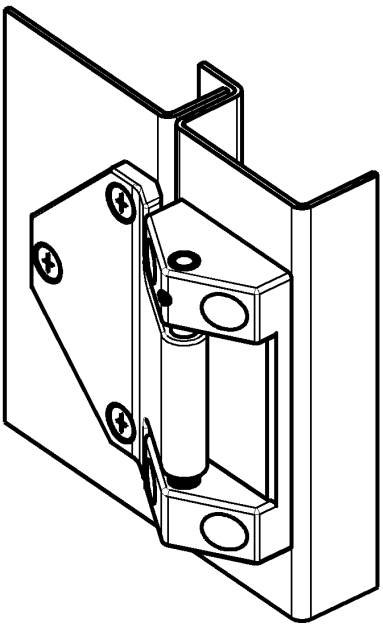
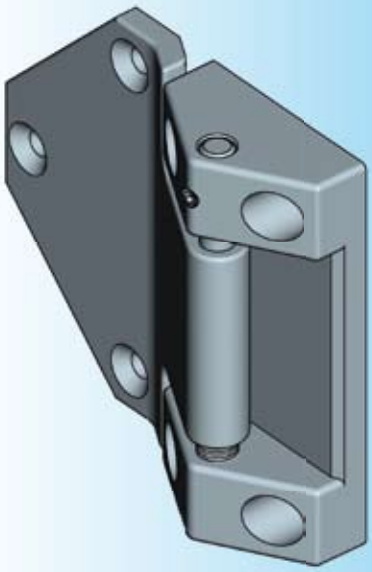
180° screw-on hinge stainless steel adjustable

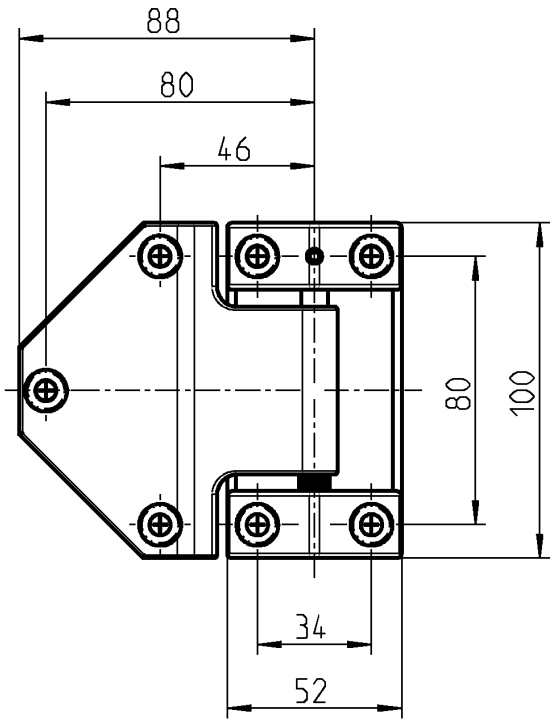
PROGRAM 1054

EDELSTAHL Rostfrei STAINLESS STEEL



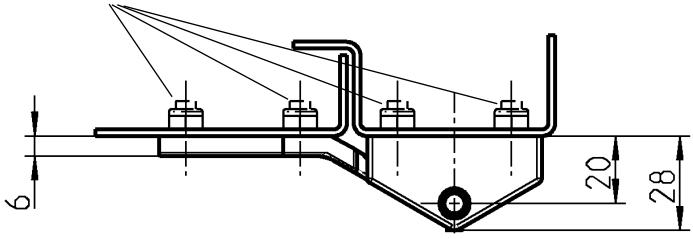


Height adjustment ±4 mm



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

* Countersunk screw small head M6x…



* not included

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

Further parts see page
– 2D-nut 12E-120

Screw-on hinge adjustable stainless steel1.4571, washer and hinge pin stainless steel

1054-U39

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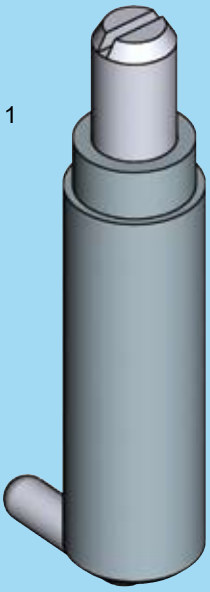
Pin hinge
Program 1117

1



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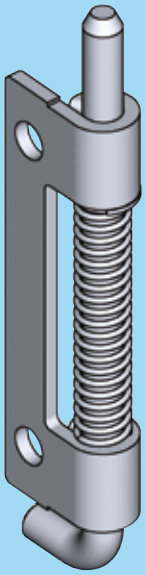

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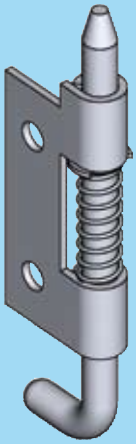

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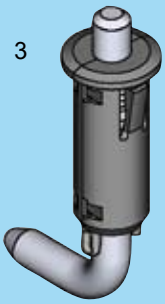

1	Weld-on pin hinge	4C-120
2	Pin hinge can be screwed on and riveted on	4C-120
3	Clip-in pin hinge	4C-130

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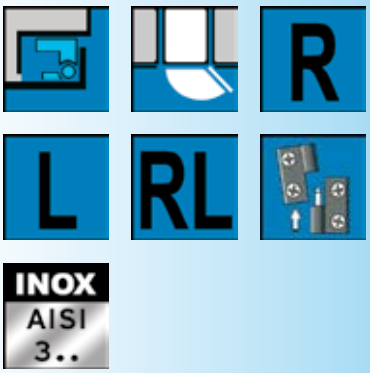
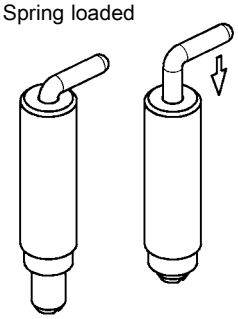
Pin hinge

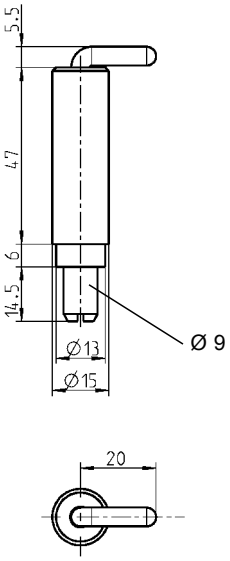
PROGRAM 1117



EDELSTAHL Rostfrei STAINLESS STEEL

Spring loaded

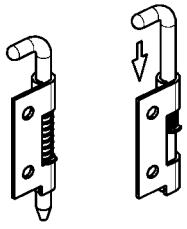




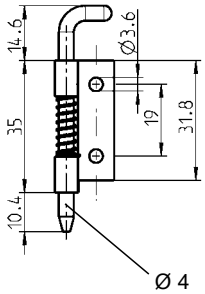
Pin hinge m.s. zinc pl., spring material spring steel zinc pl., guide tube m.s. raw or completely AISI 304	
m.s.	1117-U1
AISI	1117-U1-PF

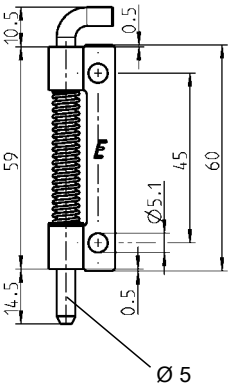
EDELSTAHL Rostfrei STAINLESS STEEL

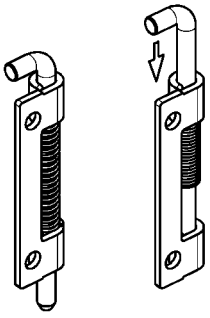
Spring loaded



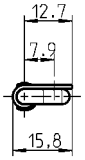
Version A

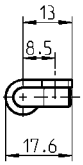


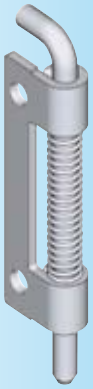




Version B







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

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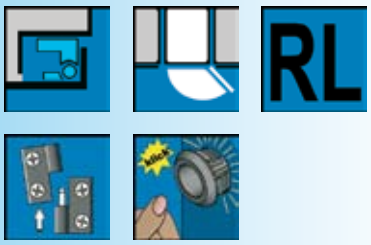
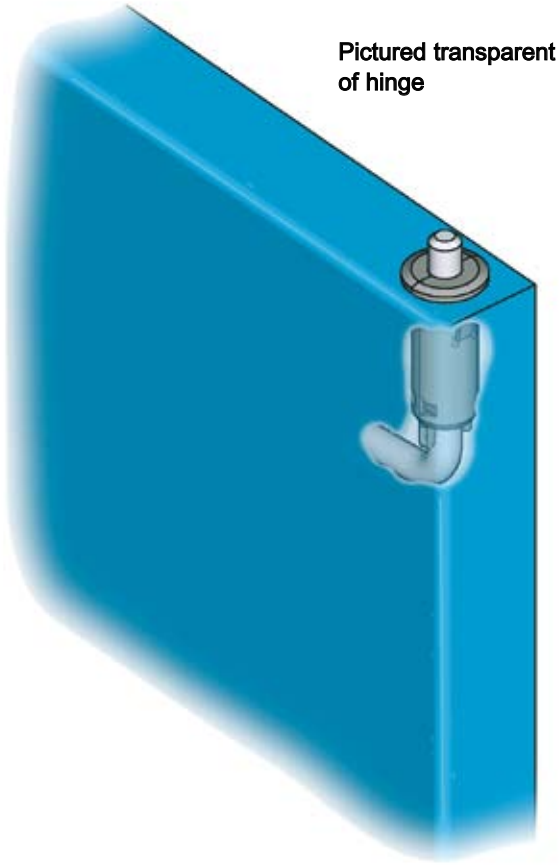
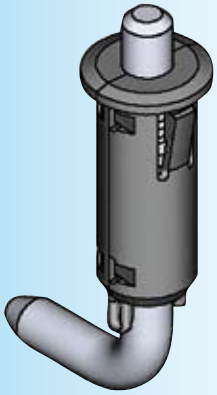
Pin hinge

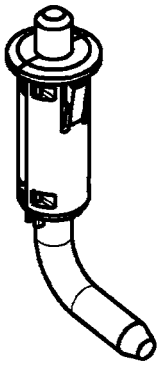
PROGRAM 1117

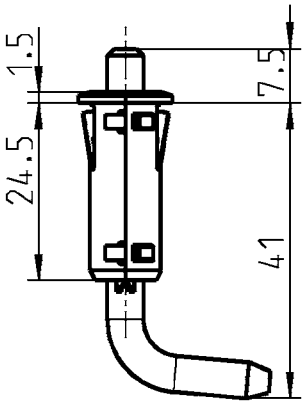


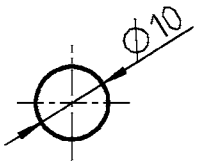


Pictured transparent in the range of hinge

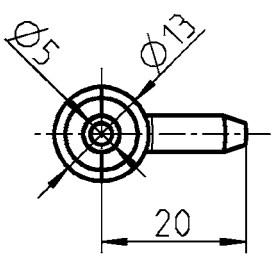








Cut out



Pin hinge, guide tube polyamide black, pin zinc die, spring material spring steel zinc pl.	
Ts = 1,0	1117-U6
Ts = 1.5	1117-U6-01
Ts = 2.0	1117-U6-02

Attention:
To use only with small doors.

E.g. counter- (energy, water) or toolboxes.

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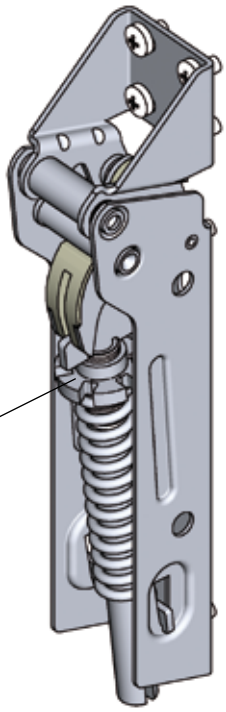
Notes:

Counterbalancing spring loaded hinge

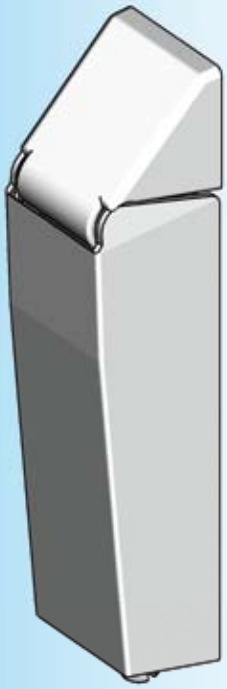
PROGRAM 1715

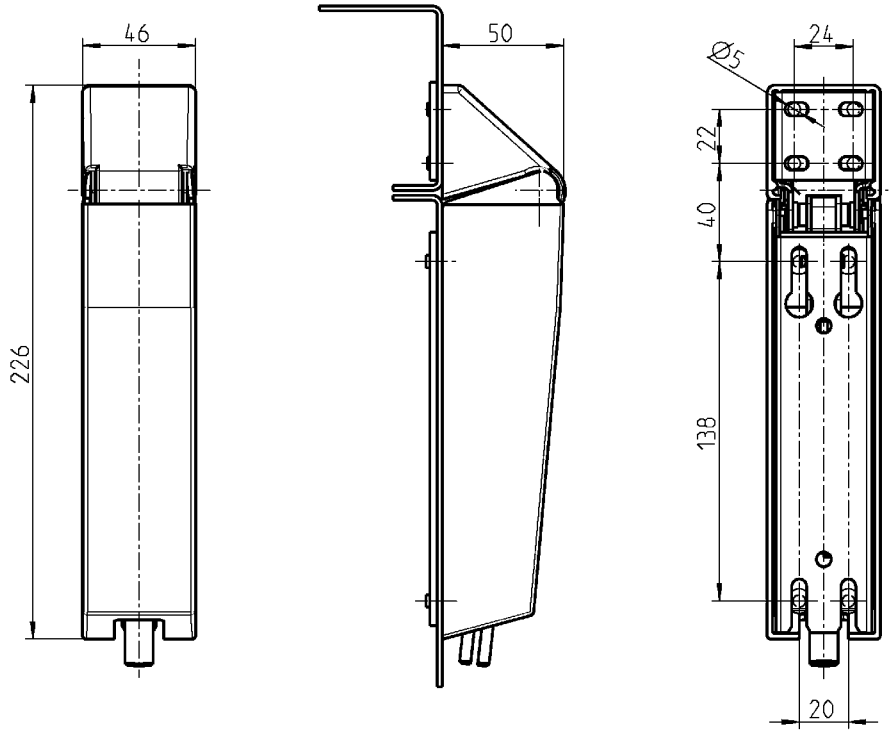
covering caps depicted transparent



depicted without covering caps

By means of the adjusting nut the torque can be set.





Application area:
The spring loaded hinge can be used e.g. for freezers.

The covering caps can be put on after mounting the hinges.

*Lid weight with homogeneous distribution of weight

Spring loaded hinge m.s. zinc plated, knuckle polyamide, covering caps polystyrene white, with one or two springs	
for a *lid weight in the range of 6 kg with 2 hinges	1715-U331
for a *lid weight in the range of 17 kg with 2 hinges	1715-U332
for a *lid weight in the range of 23 kg with 2 hinges	1715-U333

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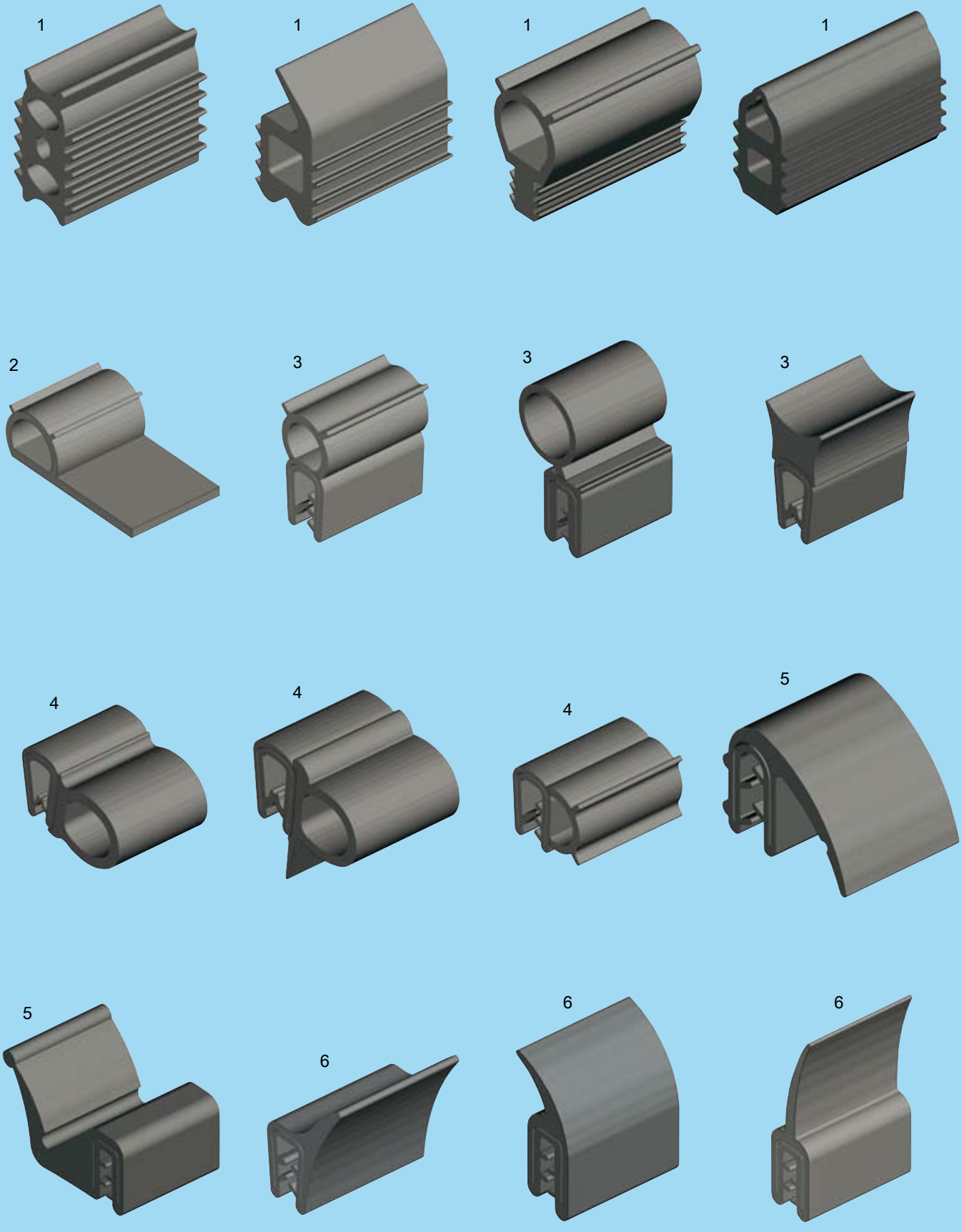
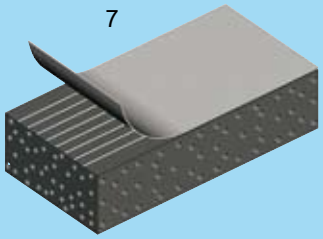
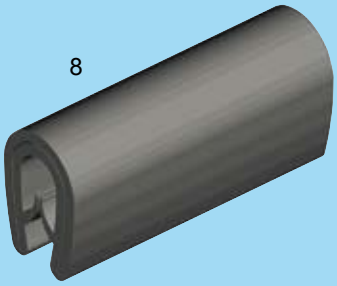
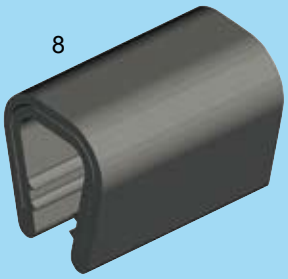
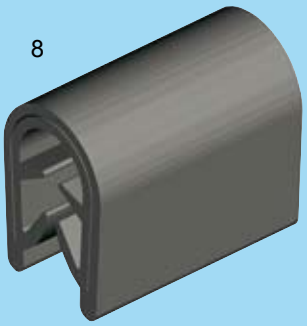
Gasket, edge protection and window rubber profile

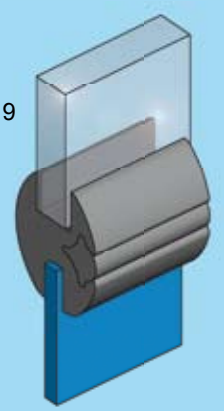


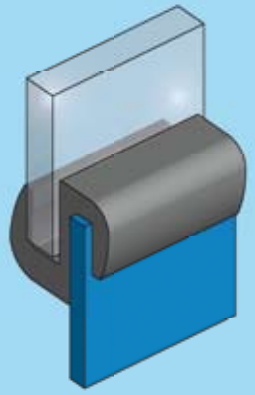


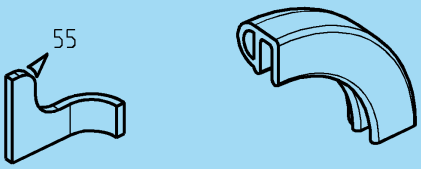




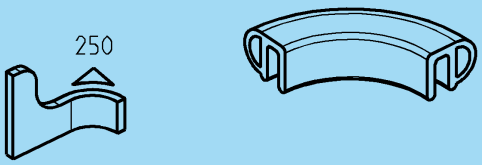




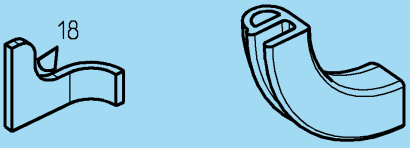




Minimum bending radius



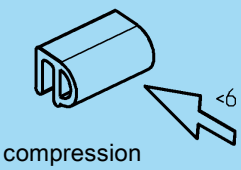
Minimum bending radius



Minimum bending radius

Minimum bending radius

1	Gasketing secured in a U-section	5A-120 up to 5A-160
2	Gasketing	5A-140, 5A-160
3	Self - gripping gasketing	5A-220, 5A-240
4	Self - gripping gasketing	5A-240 up to 5A-300
5	Self - gripping gasketing	5A-300, 5A-320
6	Self - gripping gasketing	5A-320 up to 5A-360
7	Cell sponge rubber, with stretch eliminating self-adhesive backing	5A-440
8	Edge protection	5A-520 up to 5A-560
9	Clamping profile and window rubber profile	5A-620, 5A-640



compression

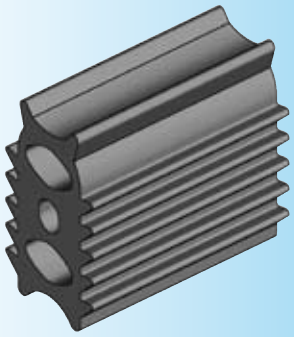
EMKA®

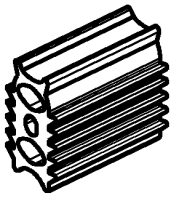
Beschlagteile

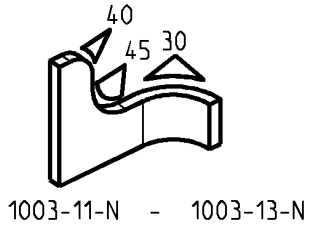
Gasketing

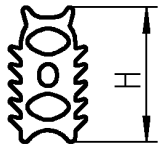
PROGRAM 1003

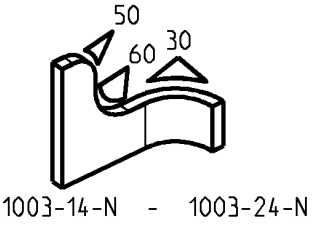
4 Lip gasket

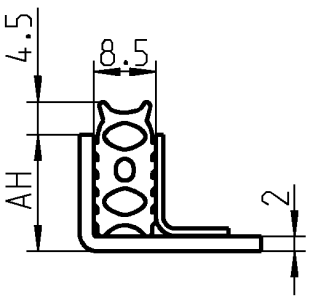






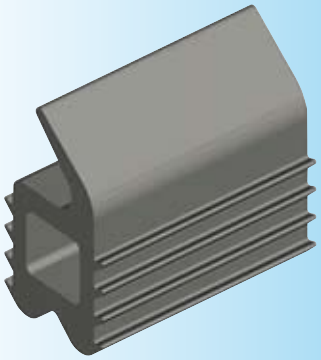


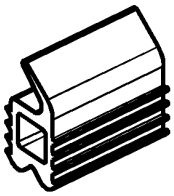


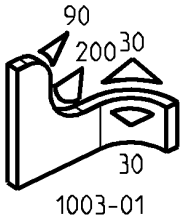


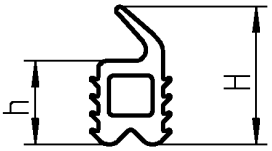
4 lip gasket, sponge-rubber, black EPDM 25° Shore					
AH	Height H		AH	Height H	
16	18,5	1003-11-N*	22	24,5	1003-15-N*
18	20,5	1003-12-N*	24	26,5	1003-24-N*
20	22,5	1003-13-N*	26	28,5	1003-14-N*

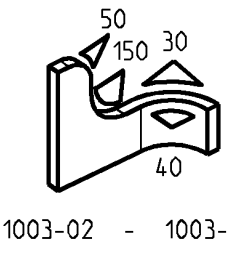
Lip gasket

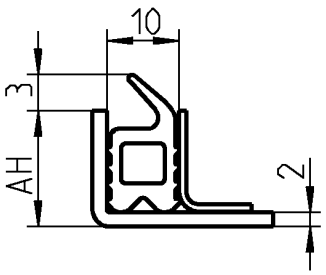












* cULus
UL 50
UL 50E
UL 94-HB

Lip gasket EPDM 55° Shore A black									
AH	H	h	Number of chambers		AH	H	h	Number of chambers	
16	17	9,5	1	1003-04	20	21	13,5	2	1003-02
18	19	11,5	1	1003-03	26	27	19,5	3	1003-01

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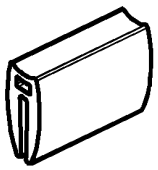
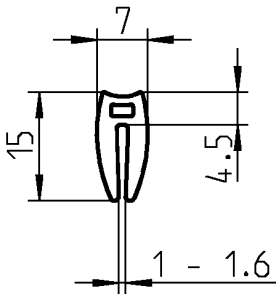
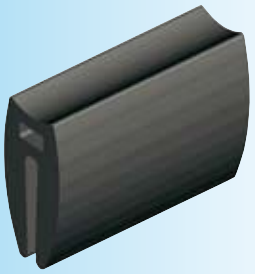
c US *

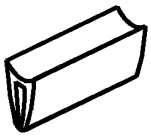


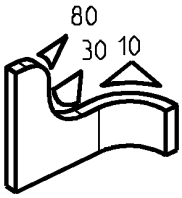


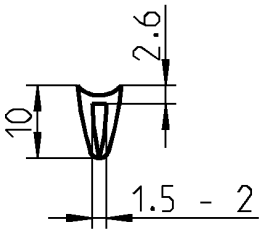


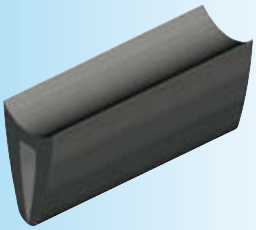
Gasket, black EPDM 55° Shore A	1038-02*

c US *

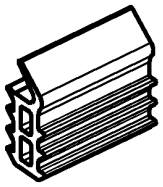


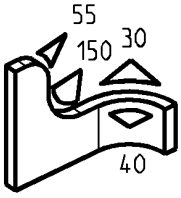


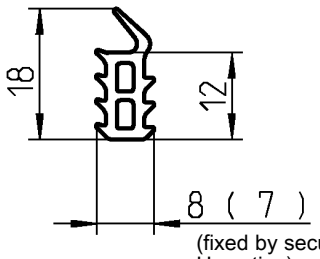




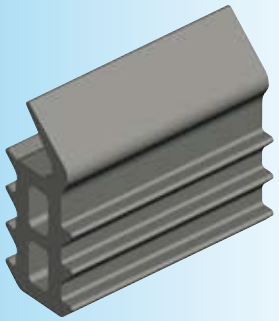
Gasket, black EPDM 55° Shore A	1038-06*



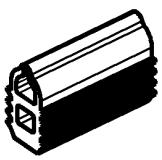


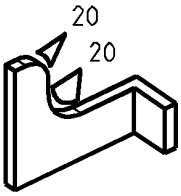


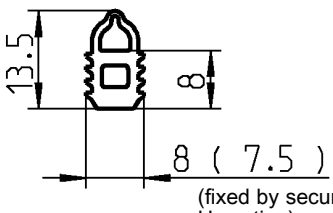
(fixed by securing in a U-section)



Gasket, black EPDM 55° Shore A	1003-07







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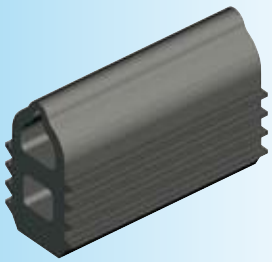

* c US

UL 50
UL 50-E
UL 94-HB

Gasket, black EPDM 55° Shore A	1038-01

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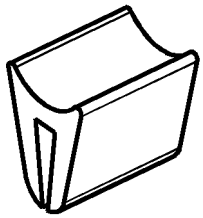
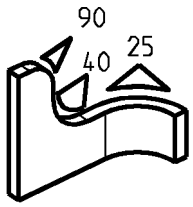
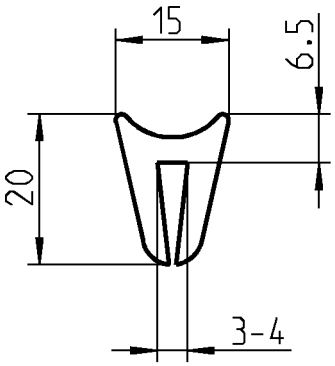
Gasketing

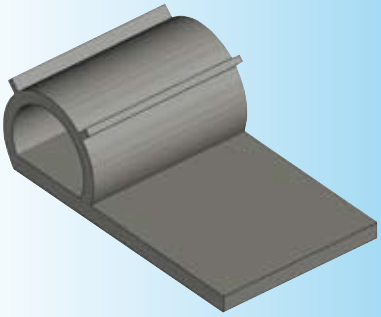
PROGRAM 1038, 1101

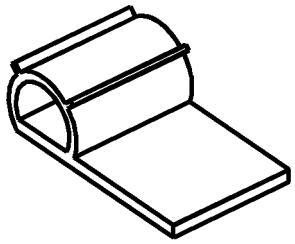


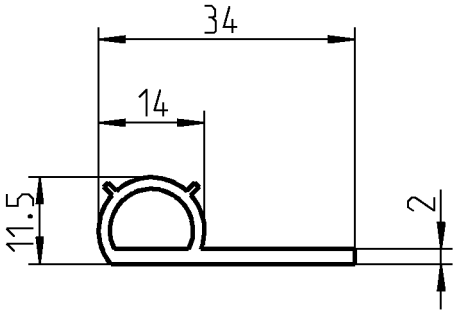




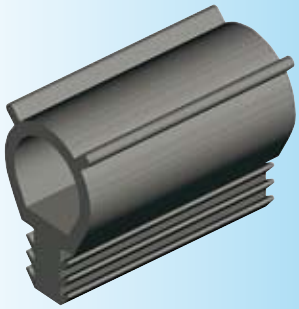
Gasket, black EPDM 55° Shore A	
	1038-07

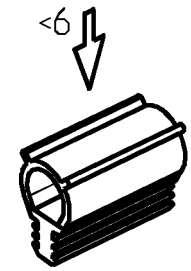






Gasket, black EPDM 55° Shore A	
	1038-10





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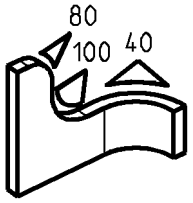

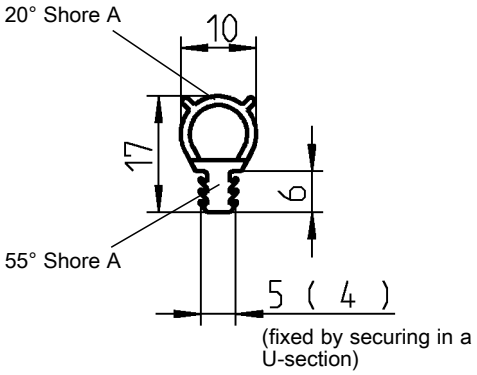

(fixed by securing in a U-section)

Gasket PVC, (EPDM) 55° ± 5 Shore A / sponge-rubber EPDM black	
	1101-03

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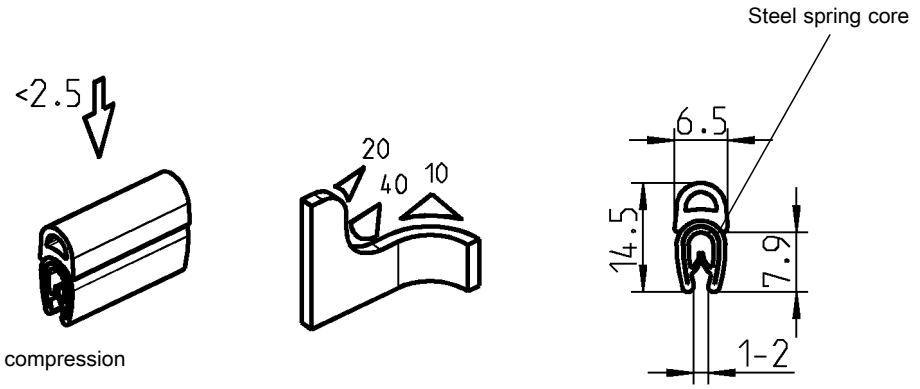
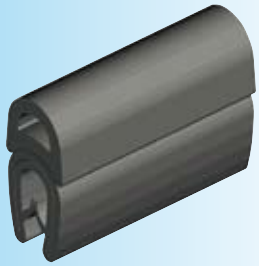
Self-gripping gasketing

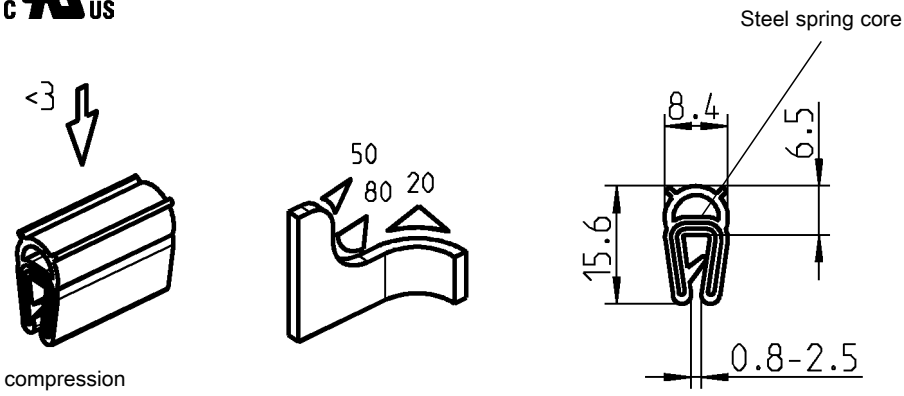
PROGRAM 1011





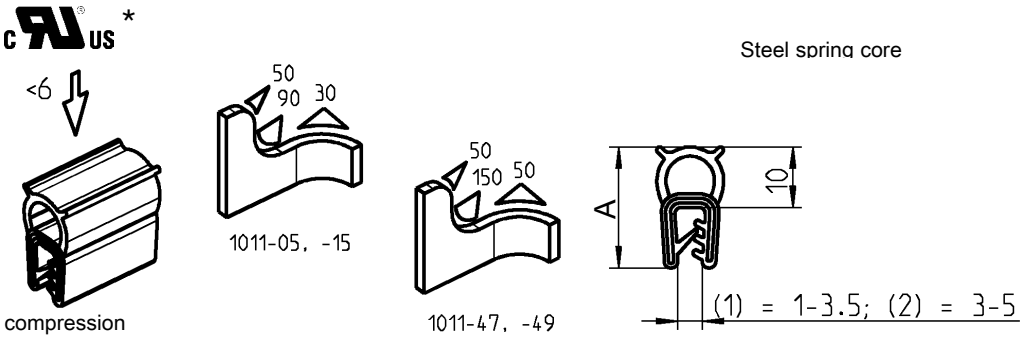
Sponge rubber (EPDM) black (clamping profile PVC 70° ± 5 Shore A)	
	1011-24

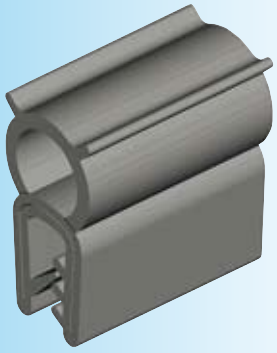
c UL us *



Material for gasket depends upon choice	
Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore)	1011-10*
Foam rubber (NBR) black (gasket NBR 60° ± 5 Shore A)	1011-50

c UL us *





Material for gasket depends upon choice	A	
Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore)	20	1011-05* (1)
Foam rubber(NBR) black (gasket NBR 60° ± 5 Shore A)	21	1011-15 (1)
Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore)	21	1011-49 (2)
Foam rubber (NBR) black (gasket NBR 60° ± 5 Shore A)	21	1011-47 (2)

* c UL us
UL 50
UL 50E
UL 94-HB

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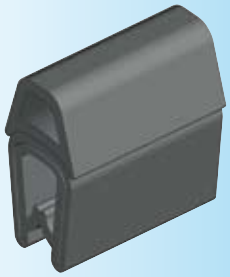
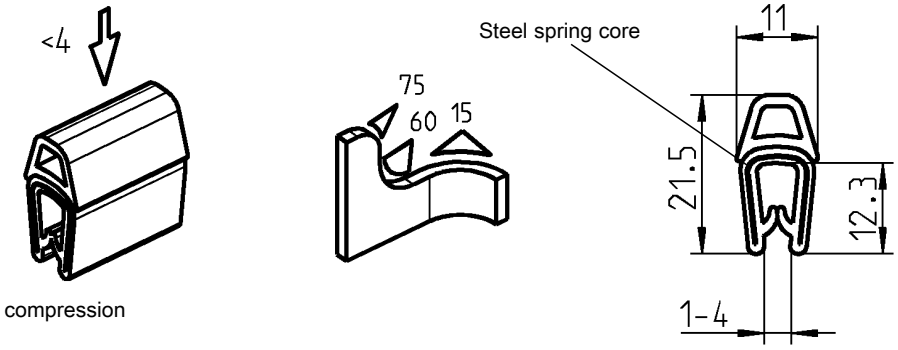
Self-gripping gasketing

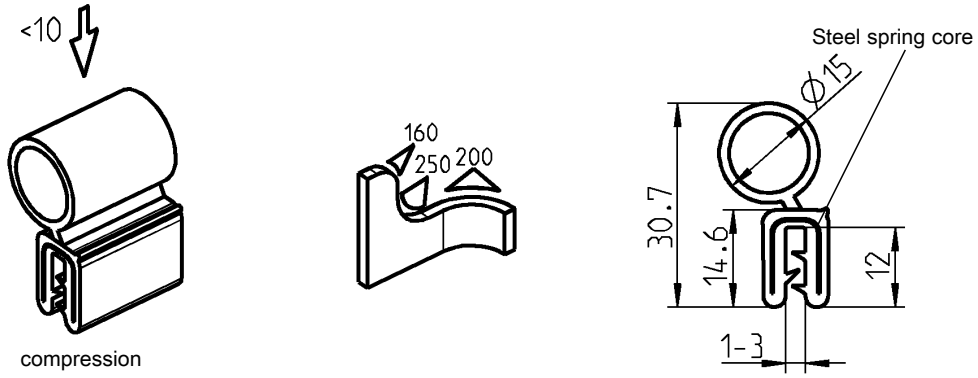
PROGRAM 1011





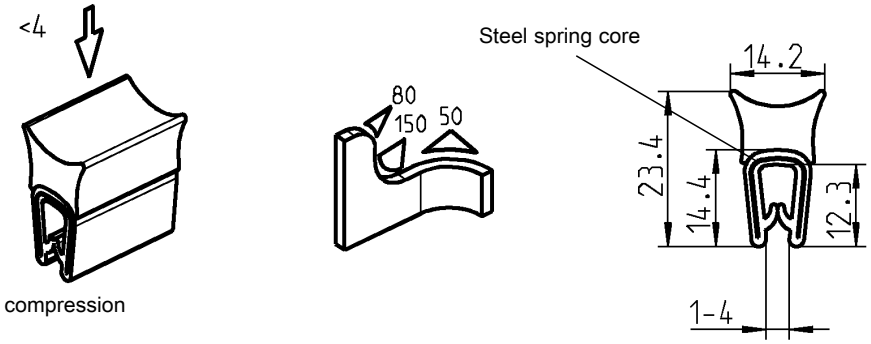
Sponge rubber (EPDM) black (clamping profile PVC 70° ± 5 Shore A)

1011-18



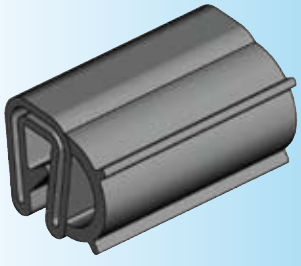
Gasket EPDM 60° ± 5 Shore A black

1011-34



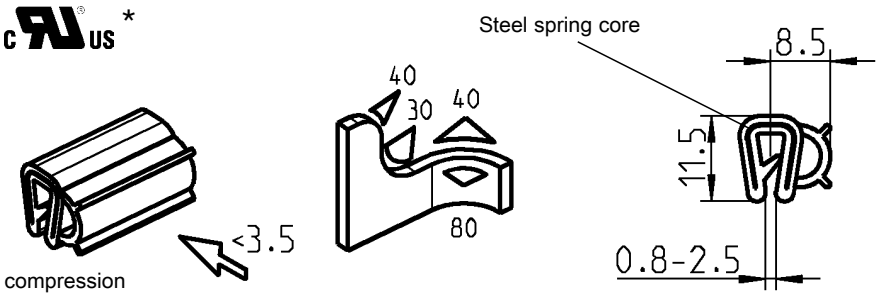
Sponge rubber (EPDM) black (clamping profile PVC 70° ± 5 Shore A)

1011-21



* c UL us

UL 50
UL 50E
UL 94-HB



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

1011-09*

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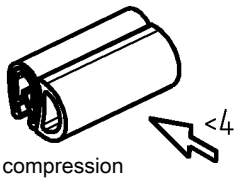
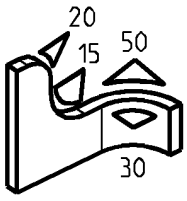
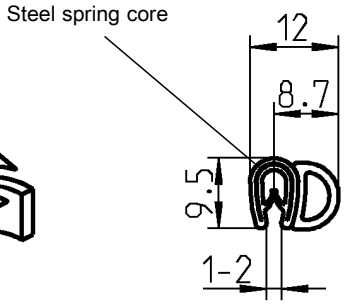
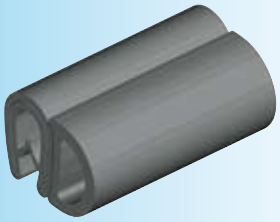
Self-gripping gasketing

PROGRAM 1011



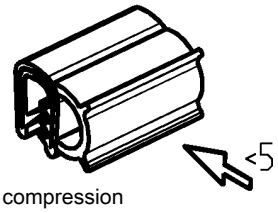


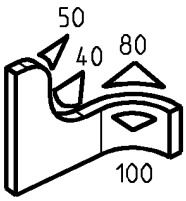


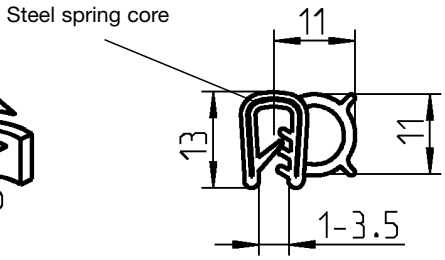


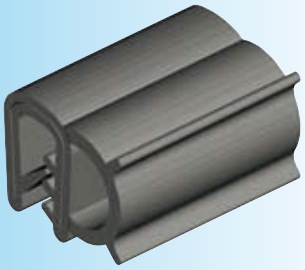
Sponge rubber (EPDM) black (clamping profile PVC 70° ± 5 Shore A)	
	1011-20

c UL us *

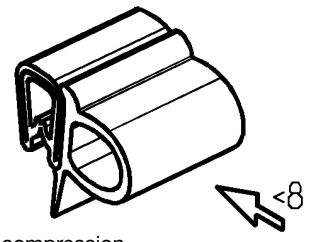


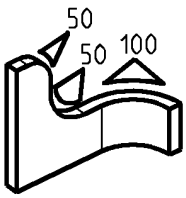


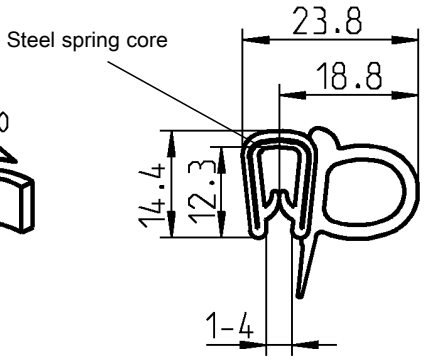


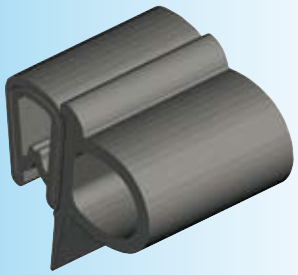


Material for gasketing on choice	
Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore A)	1011-06*
Foam rubber (NBR) black (gasket NBR 60° ± 5 Shore A)	1011-16

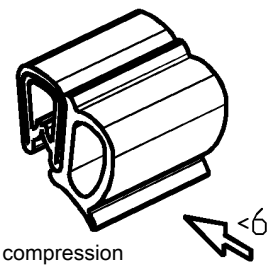


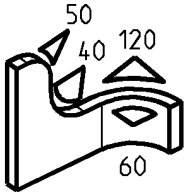


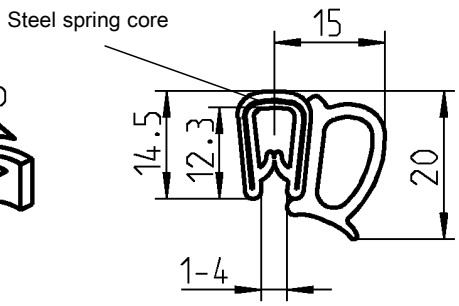


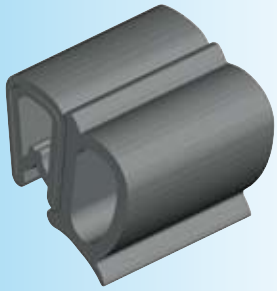


Sponge rubber (EPDM) black (clamping profile PVC 70° ± 5 Shore A)	
	1011-25









* c UL us

UL 50
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Sponge rubber (EPDM) black (clamping profile PVC 70° ± 5 Shore A)	
	1011-23

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Self-gripping gasketing

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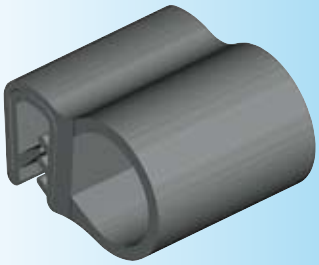
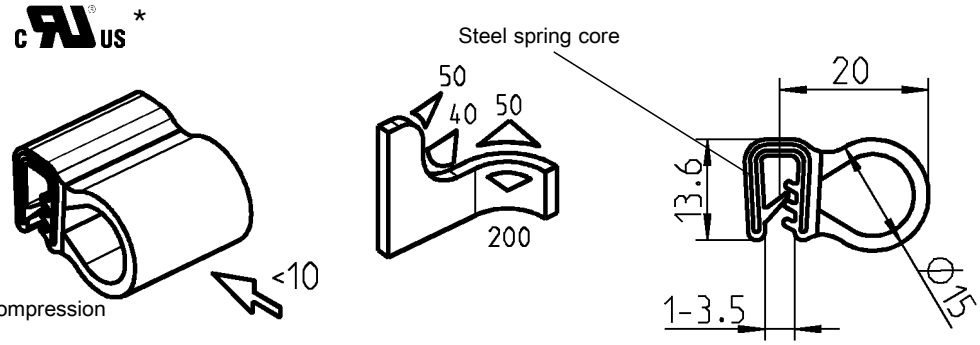
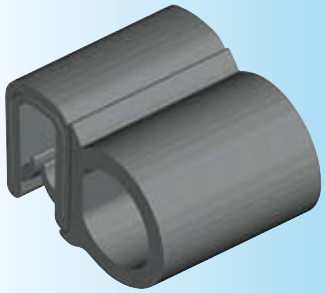
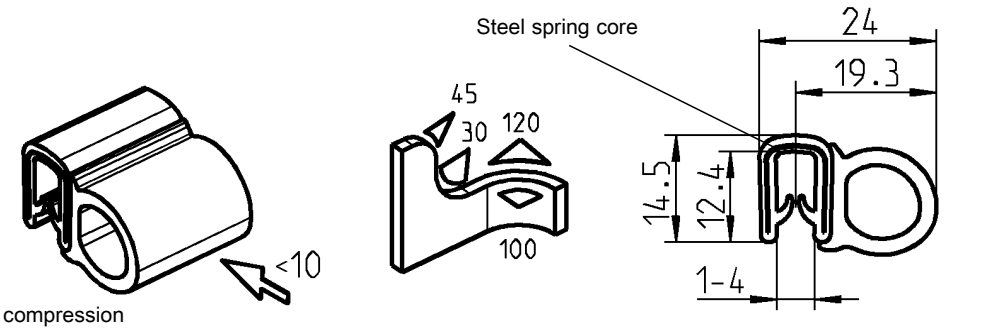


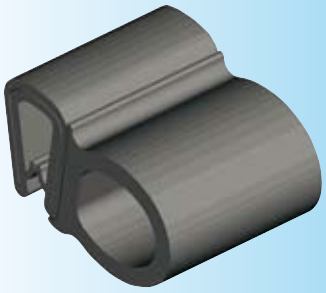


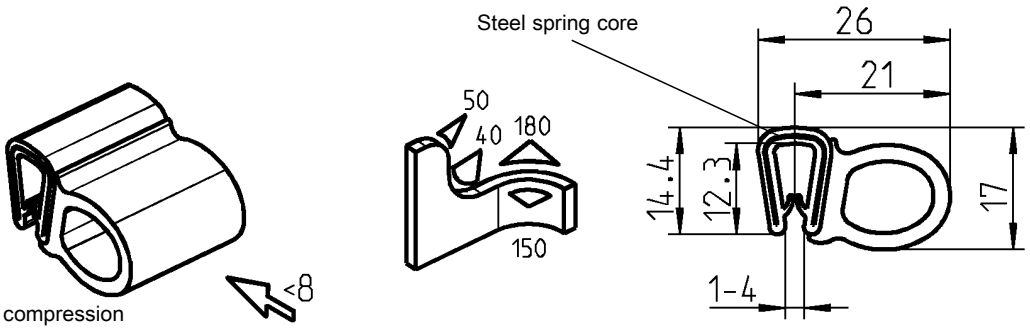
Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore A)	
	1011-12*



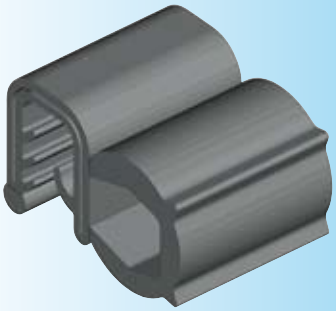


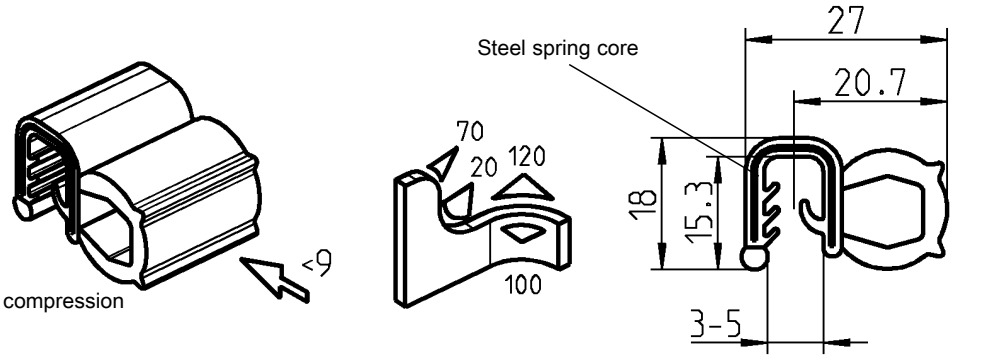
Sponge rubber (EPDM) black (clamping profile PVC 70° ± 5 Shore A)	
	1011-19





Sponge rubber (EPDM) black (clamping profile PVC 70° ± 5 Shore A)	
	1011-22





Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore A)	
with holes for deflation every 300 mm	1011-45

* c UL us

UL 50
UL 50E
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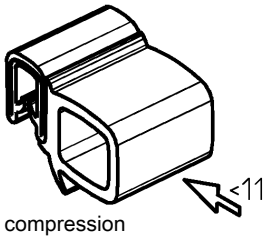
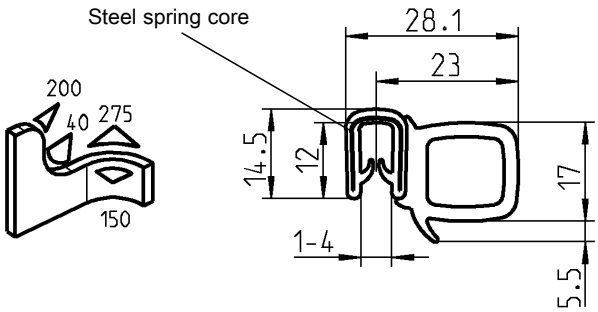
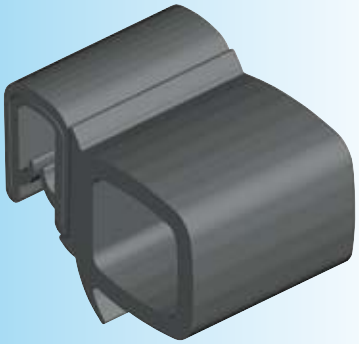
Self-gripping gasketing

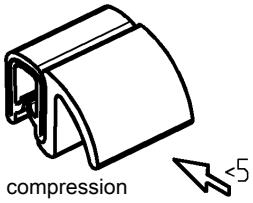
PROGRAM 1011

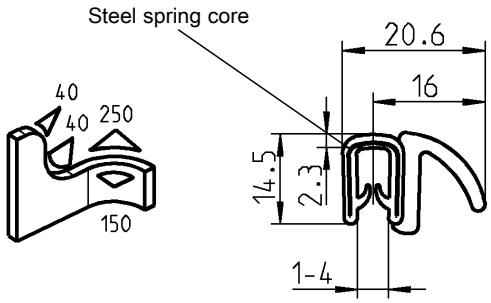


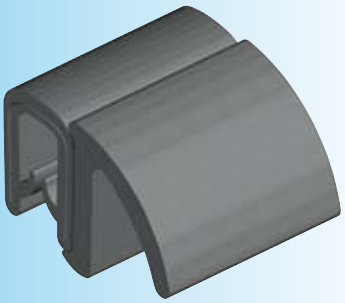




Sponge rubber (EPDM) black (clamping profile PVC 70° ± 5 Shore A)	
	1011-26

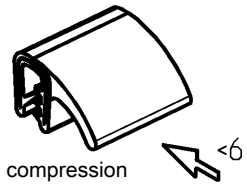


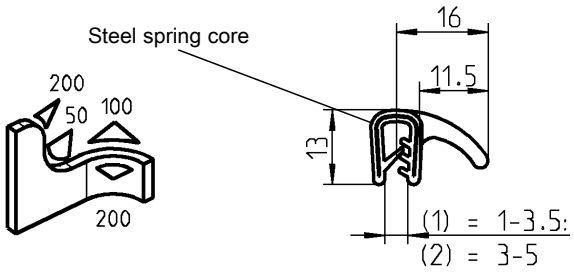


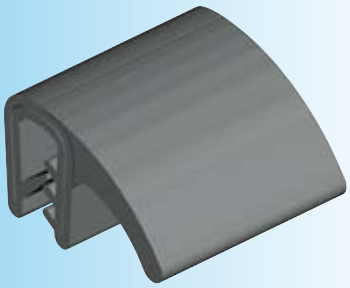


Sponge rubber (EPDM) black (clamping profile PVC 70° ± 5 Shore A)	
	1011-17

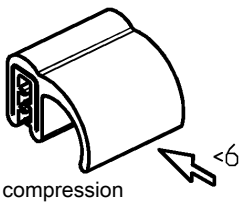
c UL us *

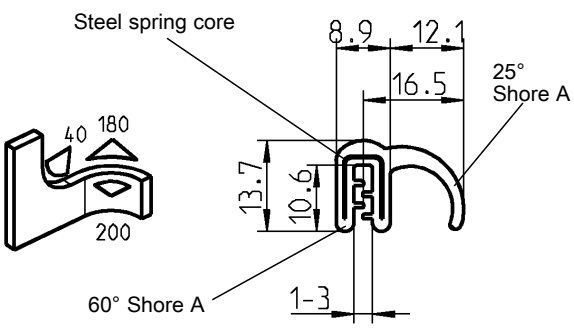


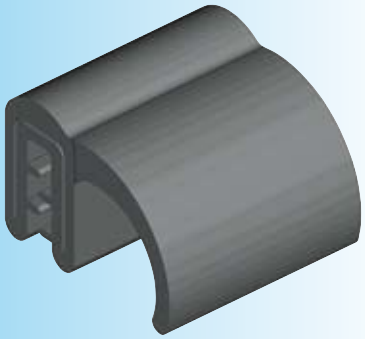




Material for gasketing depends upon choice		
Sponge-rubber (EPDM) black (gasket EPDM 65° ± 5 Shore A)	(1)	1011-08*
Foam-rubber NBR ± 5 Shore A black	(1)	1011-46
Foam rubber (NBR) black (Gasket NBR 60° ± 5 Shore A)	(2)	1011-48







Sponge-rubber (EPDM) 25° Shore A black (gasket EPDM 60° ± 5 Shore A)	
	1011-41

* c UL us

UL 50
UL 50E
UL 94-HB

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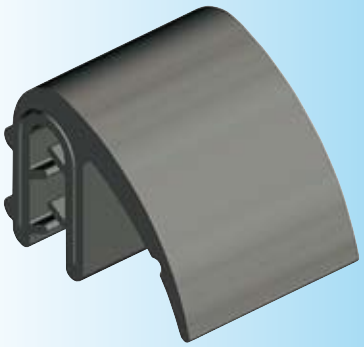
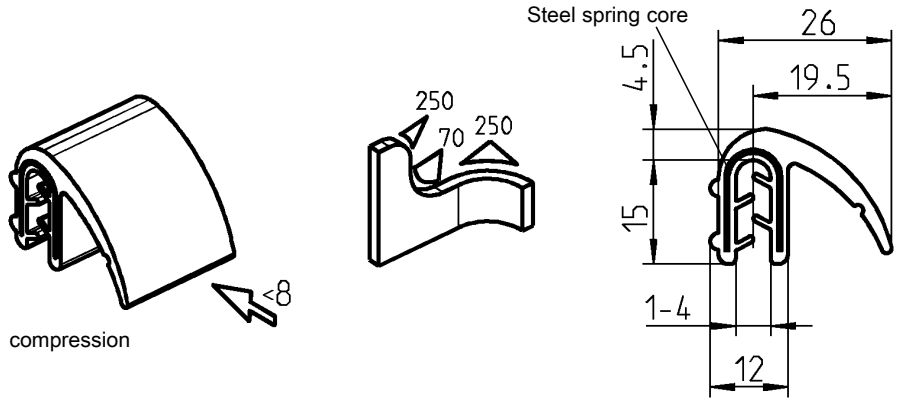
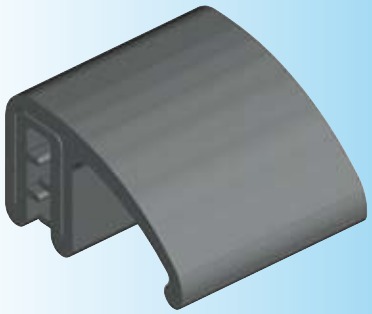
Self-gripping gasketing

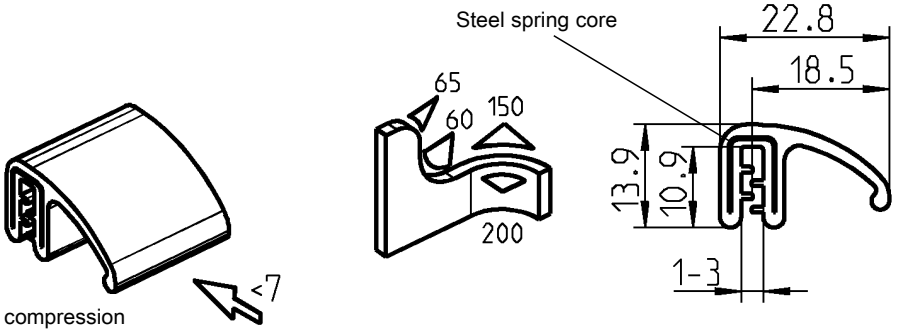
PROGRAM 1011



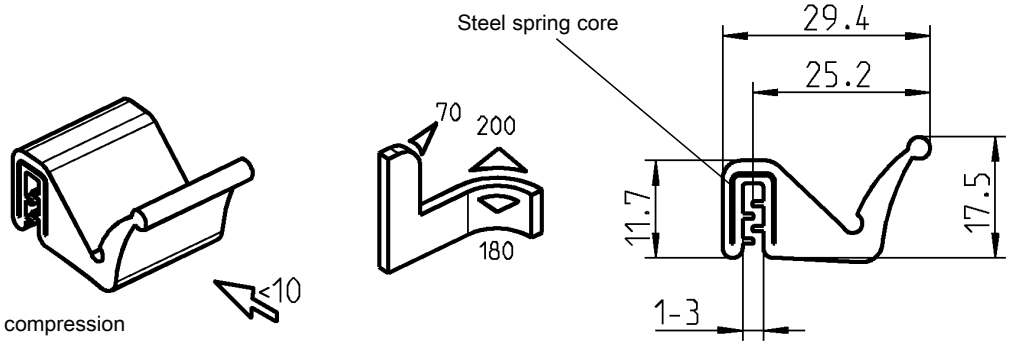


Gasket EPDM 60° ± 5 Shore A black — 1011-40

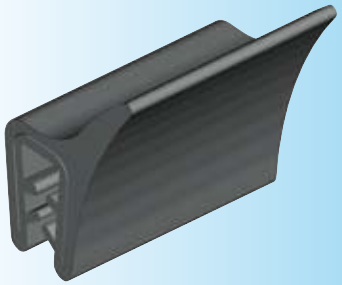


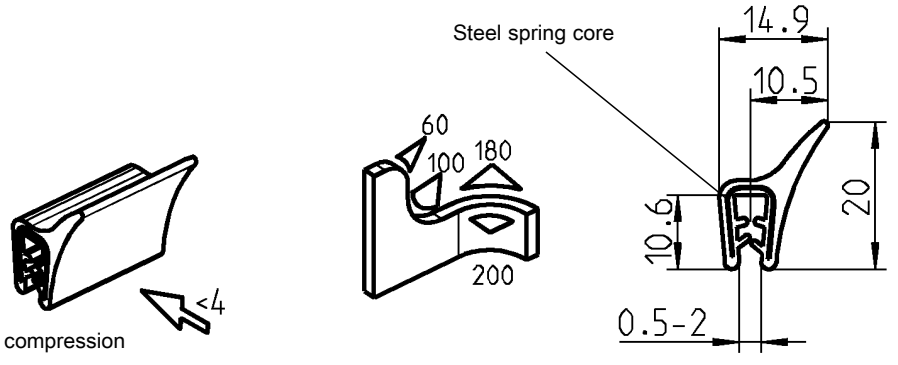


Gasket EPDM 60° ± 5 Shore A black — 1011-33



Gasket EPDM 60° ± 5 Shore A black — 1011-35





Gasket EPDM 60° ± 5 Shore A black — 1011-44

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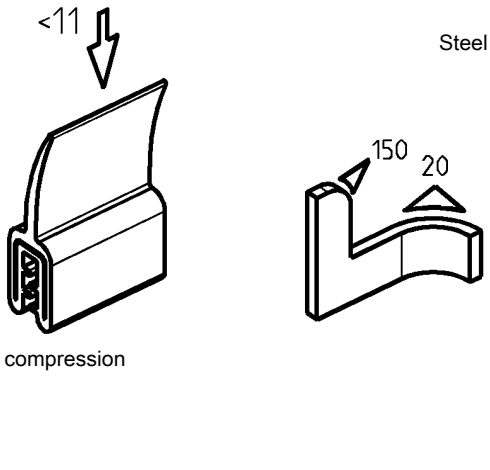
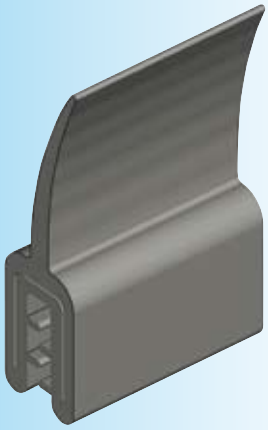
Self-gripping gasketing

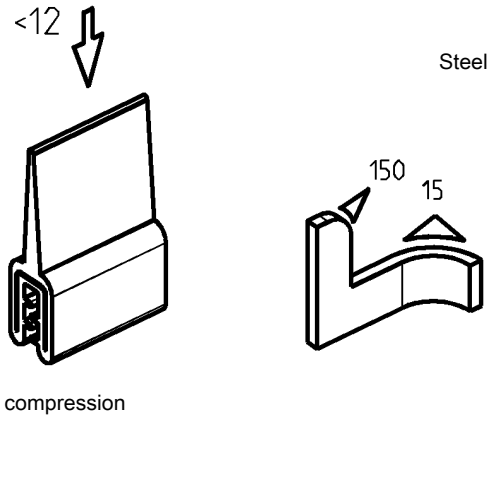
PROGRAM 1011

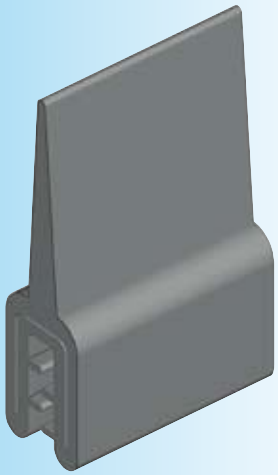




Gasket EPDM 60° ± 5 Shore A black

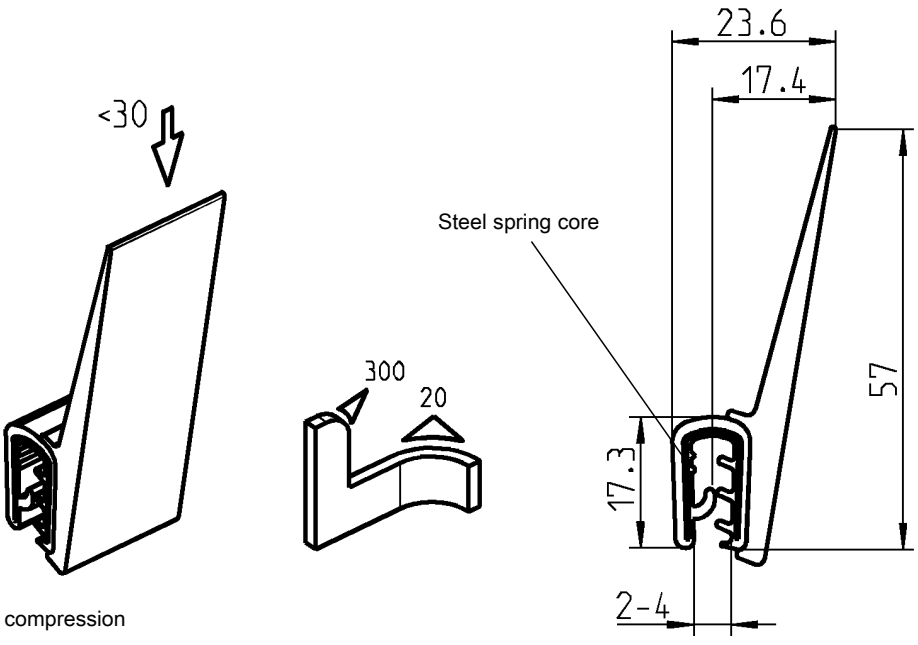
	1011-30

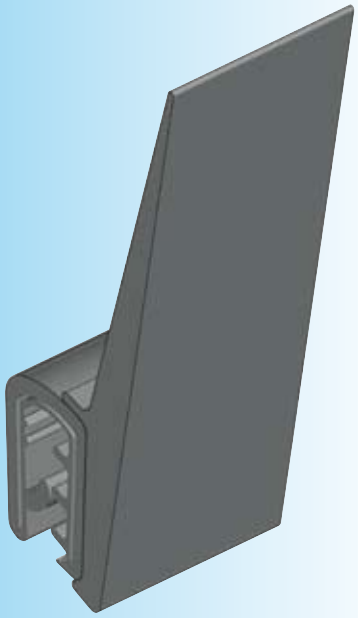




Gasket EPDM 60° ± 5 Shore A black

	1011-36





Sponge rubber (EPDM) black (clamping profile PVC 70° ± 5 Shore A)

	1011-27

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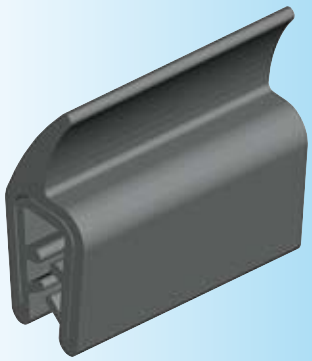
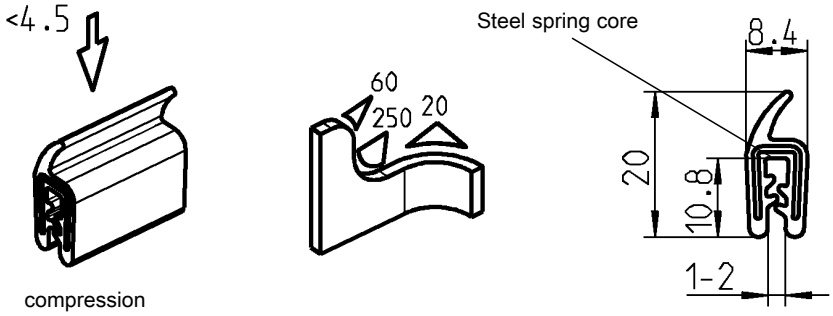
Self-gripping gasketing

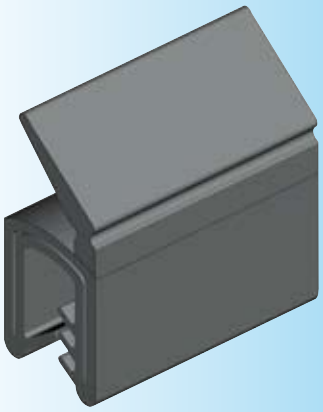
PROGRAM 1011

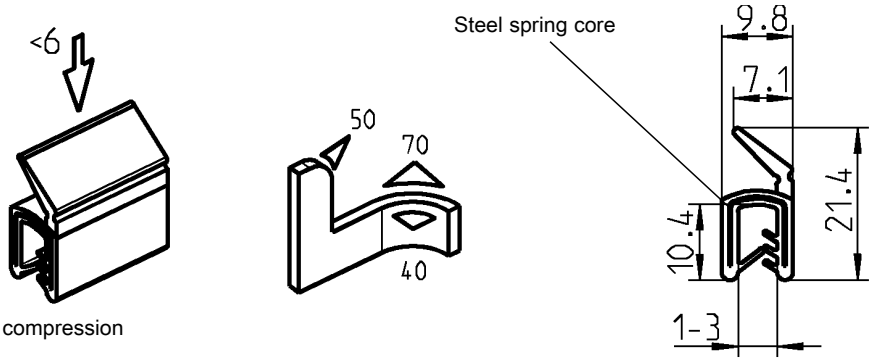




Gasket EPDM 60° ± 5 Shore A black

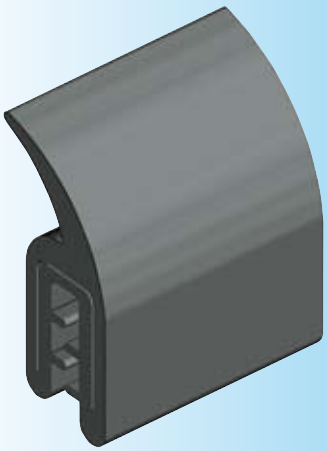
1011-31

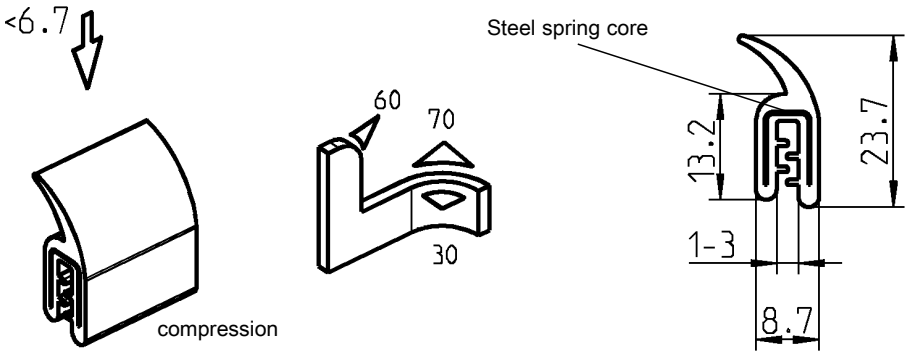




Sponge-rubber (EPDM) black (gasket EPDM 60° ± 5 Shore A)

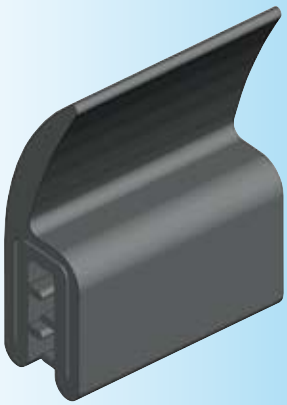
1011-37

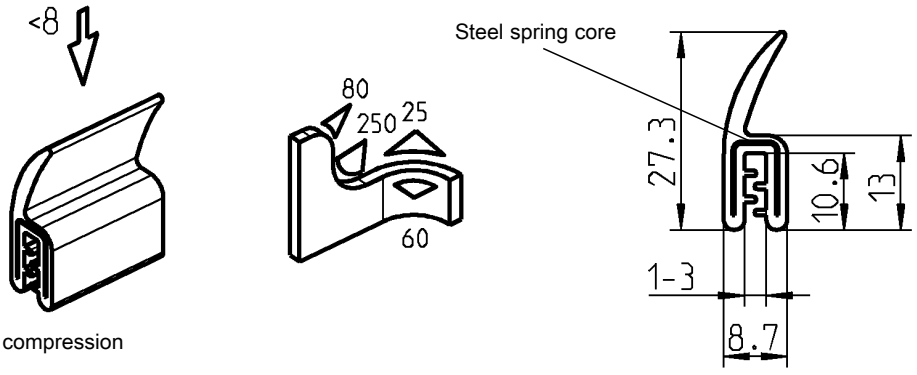




Gasket EPDM 60° ± 5 Shore A black

1011-29





Gasket EPDM 60° ± 5 Shore A black

1011-32

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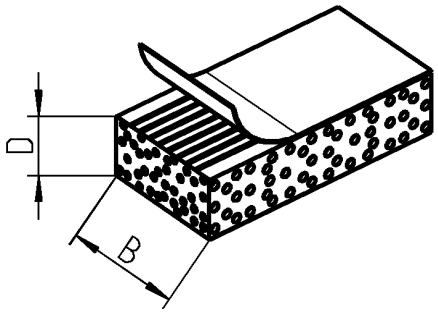
Cell sponge rubber

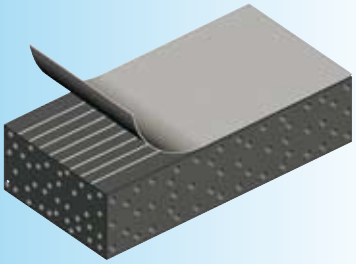
PROGRAM 1016

Coil length:

For depths	3 – 7= the coil length	is	10 m
For depths	8 – 10= the coil length	is	5 m
For depths	11= the coil length	is	1 m



These items can be delivered from stock.
All others will have a lead time of 2 - 3 weeks.
Special lengths available in 6 to 8 weeks. Minimum quantity on request



Closed cell sponge rubber as requested black with stretch eliminating self-adhesive backing

Measurement				Measurement			
Wide	Depth	EPDM	CR	Wide	Depth	EPDM	CR
10	3	1016-13	1016-61	30	10	1016-123	1016-159
	4	1016-14	1016-62		12	1016-124	1016-160
	5	1016-15	1016-63		15	1016-125	1016-161
	6	1016-75	1016-99		20	1016-126	1016-162
	8	1016-76	1016-100		25	1016-127	1016-163
	10	1016-77	1016-101	40	5	1016-128	1016-164
15	3	1016-16	1016-64		10	1016-129	1016-165
	4	1016-17	1016-65		15	1016-130	1016-166
	5	1016-18	1016-66		20	1016-131	1016-167
	6	1016-78	1016-102		25	1016-132	1016-168
	8	1016-79	1016-103		30	1016-133	1016-169
	10	1016-80	1016-104	50	5	1016-134	1016-170
	12	1016-81	1016-105		10	1016-135	1016-171
	15	1016-82	1016-106		15	1016-136	1016-172
20	3	1016-19	1016-67		20	1016-137	1016-173
	4	1016-20	1016-68		25	1016-138	1016-174
	5	1016-21	1016-69		30	1016-139	1016-175
	6	1016-83	1016-107	60	5	1016-140	1016-176
	8	1016-84	1016-108		10	1016-141	1016-177
	10	1016-85	1016-109		15	1016-142	1016-178
	12	1016-86	1016-110		20	1016-143	1016-179
	15	1016-87	1016-111		25	1016-144	1016-180
	20	1016-88	1016-112		30	1016-145	1016-181
25	3	1016-89	1016-113	70	5	1016-146	1016-182
	4	1016-90	1016-114		10	1016-147	1016-183
	6	1016-91	1016-115		15	1016-148	1016-184
	8	1016-92	1016-116		20	1016-149	1016-185
	10	1016-93	1016-117		25	1016-150	1016-186
	12	1016-94	1016-118		30	1016-151	1016-187
	15	1016-95	1016-119	80	5	1016-152	1016-188
	20	1016-96	1016-120		10	1016-153	1016-189
30	3	1016-22	1016-70		15	1016-154	1016-190
	4	1016-23	1016-71		20	1016-155	1016-191
	5	1016-24	1016-72		25	1016-156	1016-192
	6	1016-97	1016-121		30	1016-157	1016-193
	8	1016-98	1016-122		40	1016-158	1016-194

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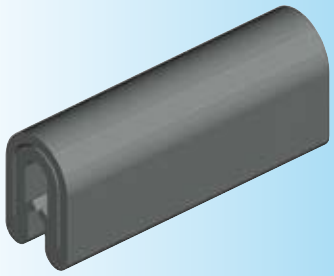
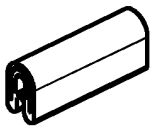
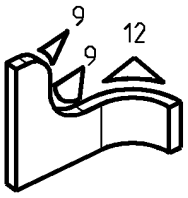
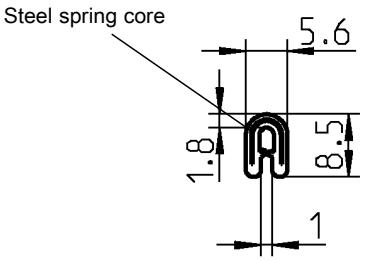
Edge-protection

PROGRAM 1010



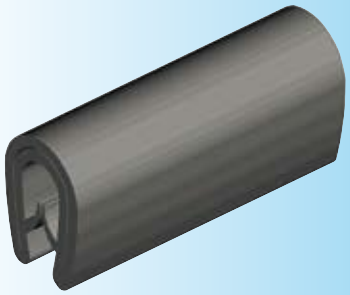


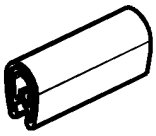


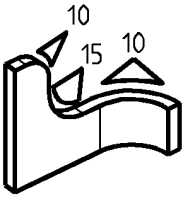


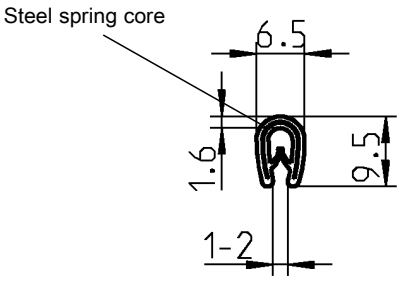
Edge protection 70° ± 5 Shore A colour as requested	
black	1010-03
light grey	1010-03-01

Temperature = -40°C to 90°C

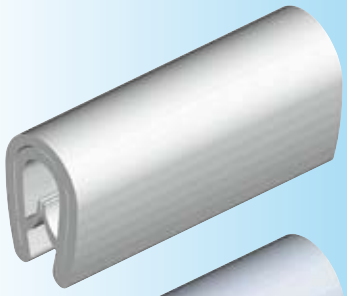


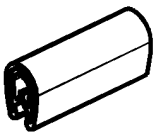


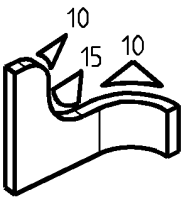


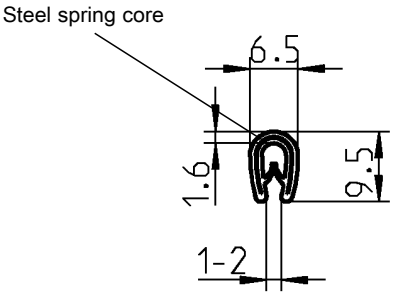


Edge protection 70° ± 5 Shore A black	
	1010-02

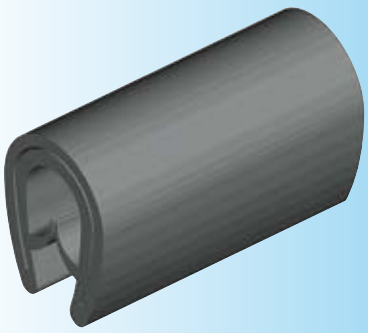


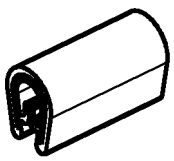


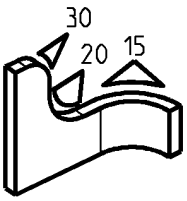


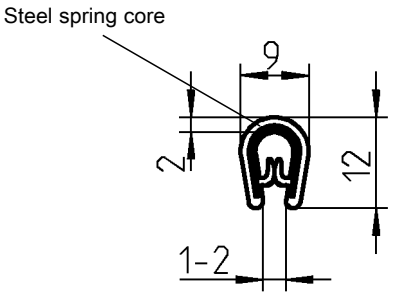


Edge protection 70° ± 5 Shore A colour as requested	
white	1010-04-01
silver	1010-04-02









Edge protection 70° ± 5 Shore A black	
	1010-10

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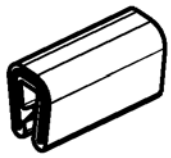
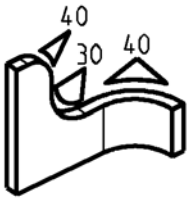
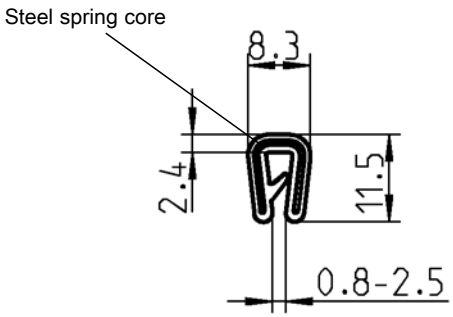
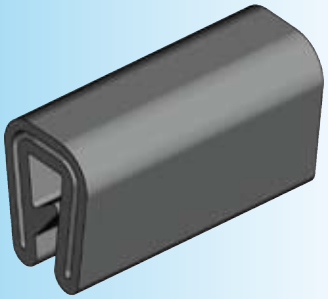
Edge-protection

PROGRAM 1010



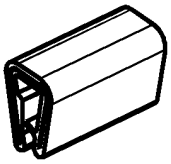


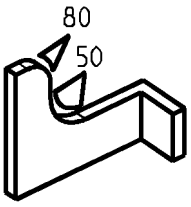


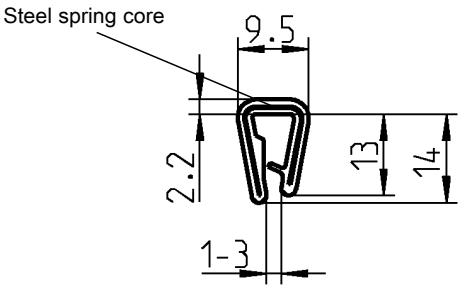


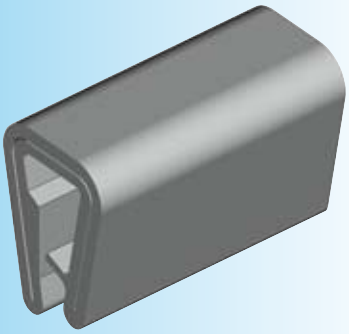
Edge-protection EPDM 60° ± 5 Shore A black

	1010-12



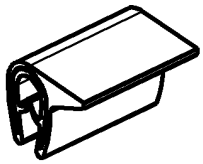


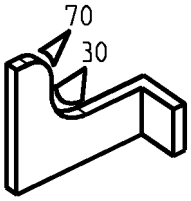


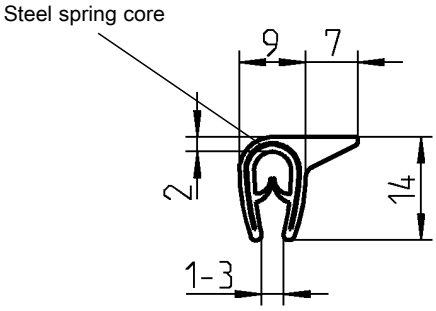


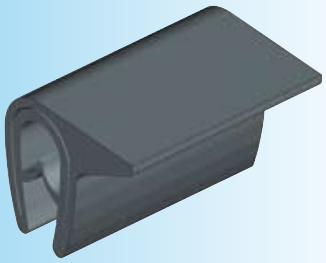
Edge protection 70° ± 5 Shore A light grey

Steel spring core continuous	1010-05





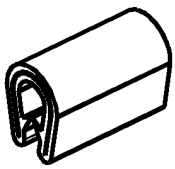


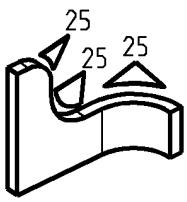


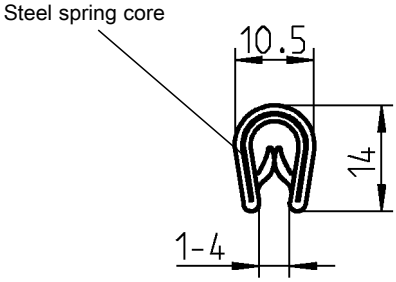
Edge protection 70° ± 5 Shore A anthracite

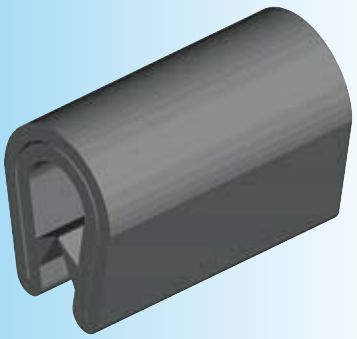
Steel spring core continuous	1010-09

Temperature = -40°C to 90°C









Edge protection PVC 70° ± 5 Shore A black

	1010-01

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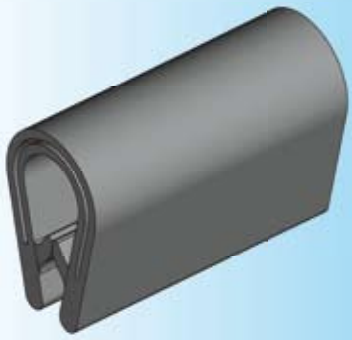
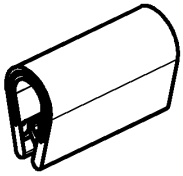
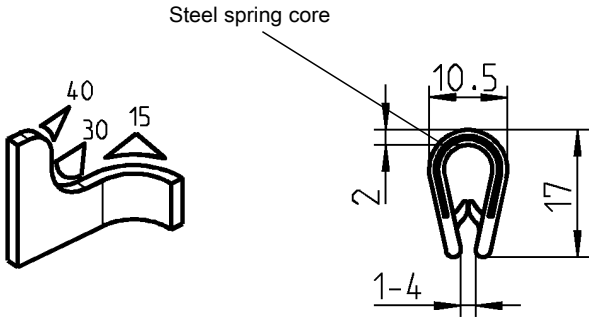
Edge-protection

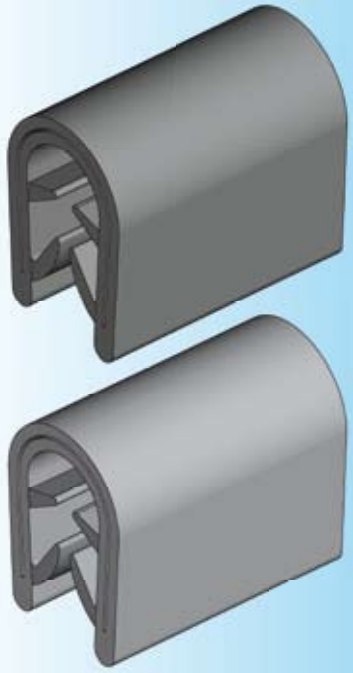
PROGRAM 1010

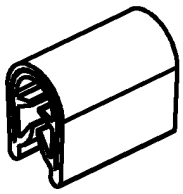


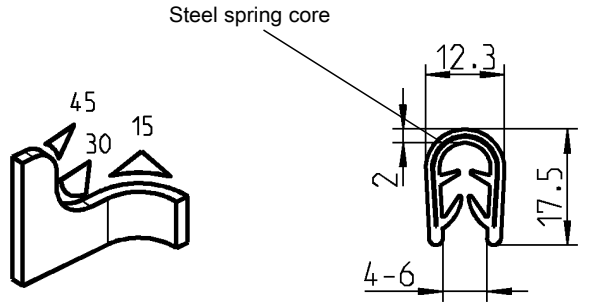




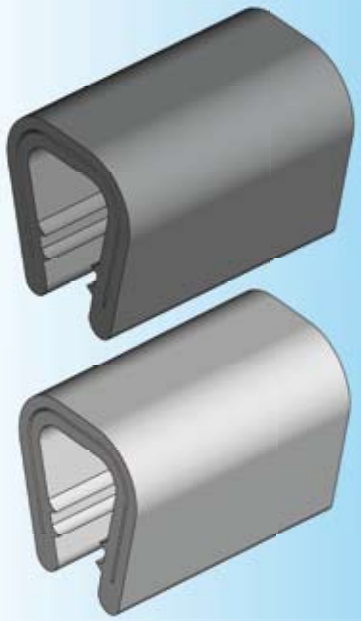
Edge protection 70° ± 5 Shore A black	
	1010-08

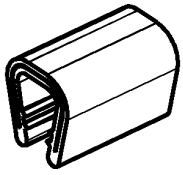


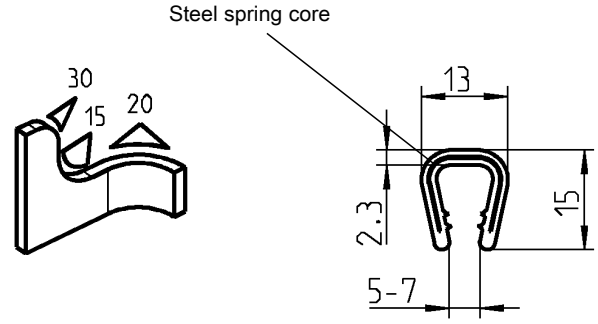




Edge protection 70° ± 5 Shore A colour as requested	
black	1010-11
dark grey	1010-11-01







Edge protection 70° ± 5 Shore A colour as requested	
black	1010-06
light-grey	1010-06-01

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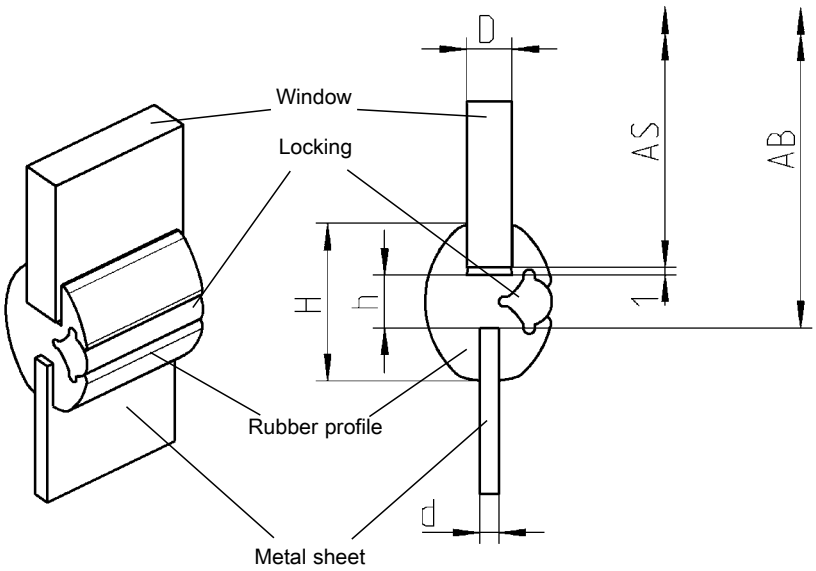
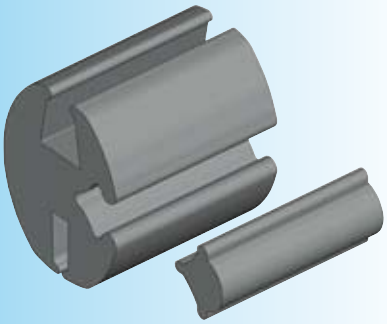
Window-rubber with locking strip

PROGRAM 1030





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

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

Rubber profile, black EPDM 75° ± 5 Shore with locking strip, black, EPDM 85 ± 5 Shore

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

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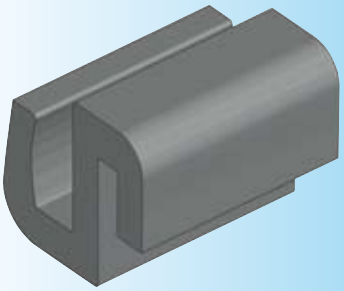
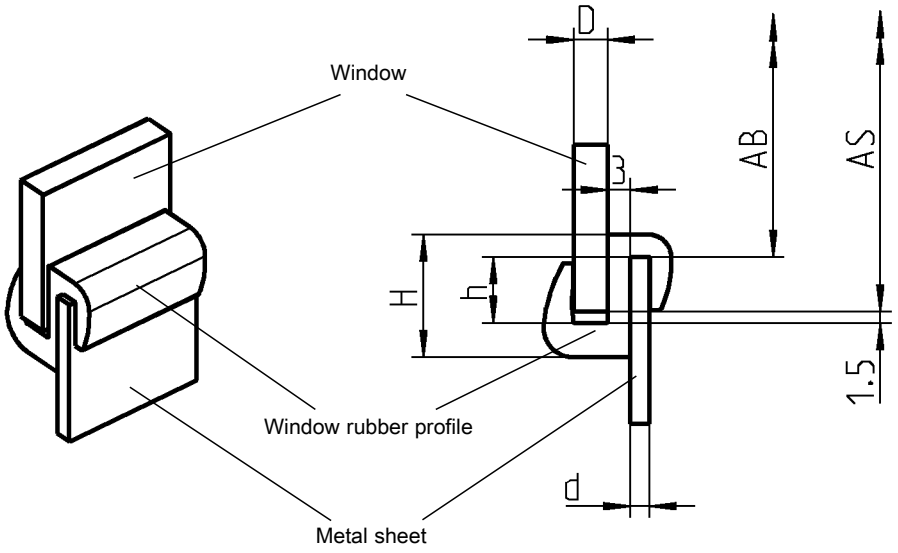
Window rubber profile 1074

PROGRAM 1074





AB + 14,5 mm = AS
AS = dimension of the window
AB = dimension of the cut out

Window rubber profile

	D	d	H	h	Bending radius	Window rubber profile
EPDM black 60° Shore A	4	2	16,2	8,7	≥ 40	1074-01
NBR 80° Shore A	4	2	16,2	8,7	≥ 40	1074-03
EPDM black 60° Shore A	6	2	16,2	8,7	≥ 40	1074-02
NBR 80° Shore A	6	2	16,2	8,7	≥ 40	1074-04

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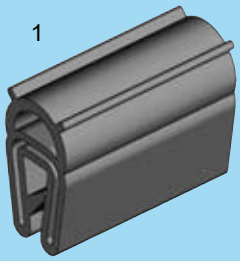
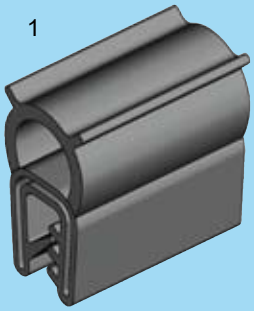
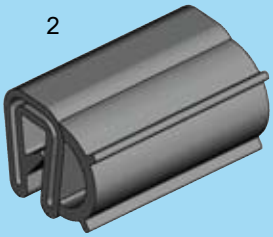
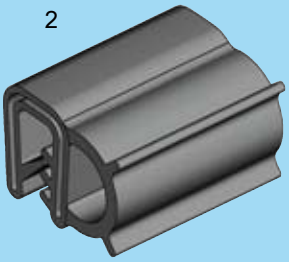
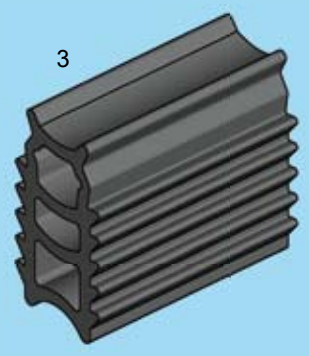
Gasketing
According to VDI 6022











1	Self - gripping gasketing	5B-120
2	Self - gripping gasketing	5B-120, 5B-140
3	Gasketing secured in a U-section	5B-140

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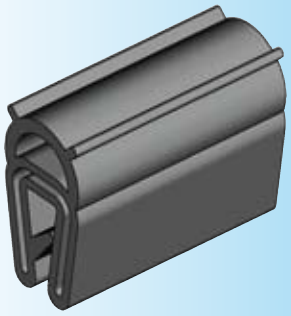
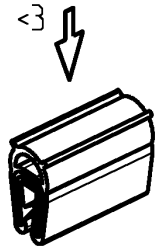
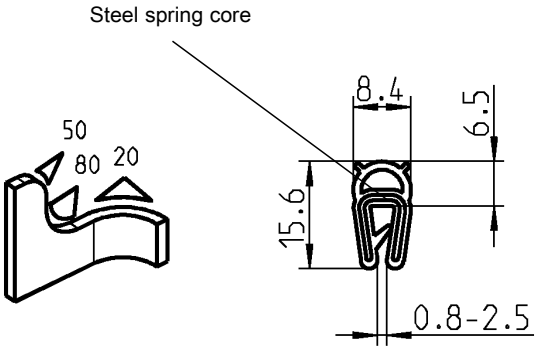
Self-gripping gasketing

PROGRAM 1011



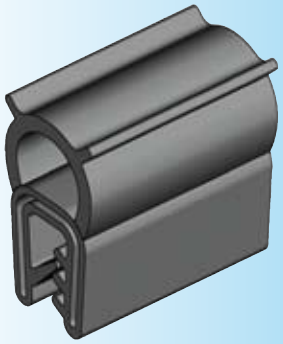
According to VDI 6022



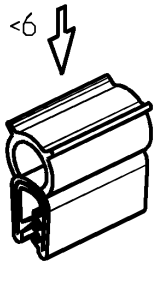


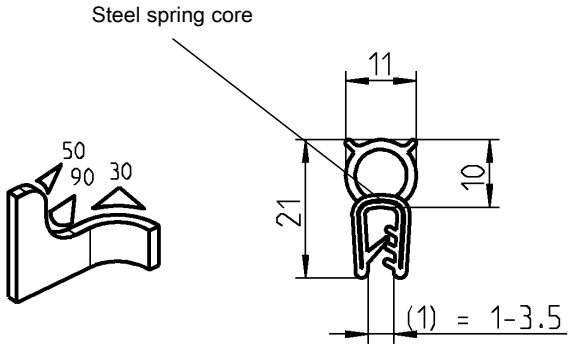
Hollow section (EPDM) black 45° ± 5 Shore A
Clamping profile (EPDM) black 60° ± 5 Shore A

1011-10-09



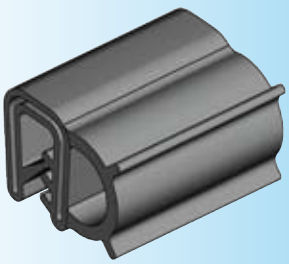
According to VDI 6022



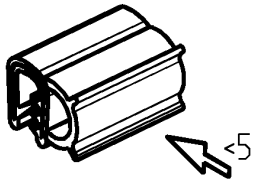


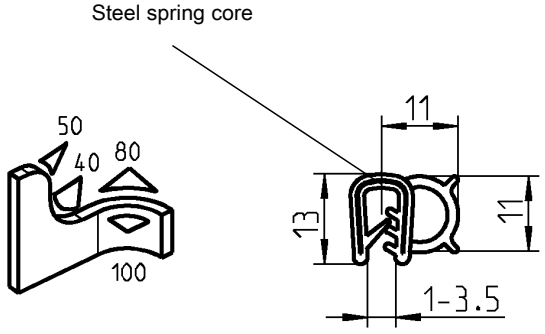
Hollow section (EPDM) black 45° ± 5 Shore A
Clamping profile (EPDM) black 60° ± 5 Shore A

1011-05-09



According to VDI 6022





Hollow chamber (EPDM) black 45° ± 5 Shore A
Clamp profile (EPDM) black 60° ± 5 Shore A

1011-06-09

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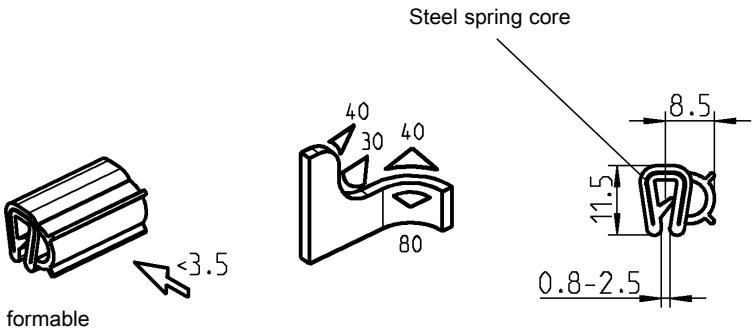
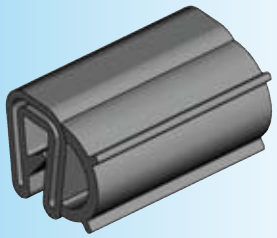
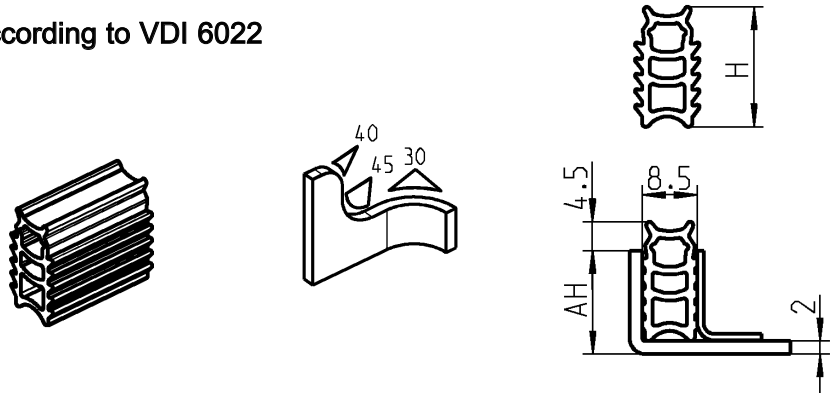
According to VDI 6022

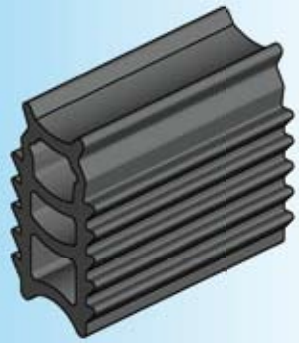




Hollow section (EPDM) black 45° ± 5 Shore A Clamping profile (EPDM) black 60° ± 5 Shore A	
	1011-09-09

According to VDI 6022





4 lip gasket (EPDM) black 45° ± 5 Shore A		
AH	Height H	
16	18,5	1003-11-N9
18	20,5	1003-12-N9

Information on VDI Guideline 6022:
Hygienic standards for ventilation and air-conditioning systems

In guideline 6022 issued by “Verein Deutscher Ingenieure” (VDI) – Association of German Engineers – you can find a description of the minimum hygienic standards for ventilation and air conditioning systems. The guideline formulates requirements that have to be observed for planning, installation, operation and maintenance of ventilation and airconditioning systems in order to guarantee absolute faultless hygienic condition of the systems as well as the outside air inlets for the air-conditioned premises.

VDI guideline 6022 is valid for the domain of builders, architects, engineers, ventilation planners, manufacturers of air-conditioning systems, machine builders, authorising bodies, operators, service companies, stakeholders of room users (e.g. staff associations or committees as well as company physicians and public health officers).

In line with the latest technical development and scientific knowledge, this guideline is intended to guarantee a precise operation and condition of ventilation and air-conditioning systems by means of preventive technical provisions.

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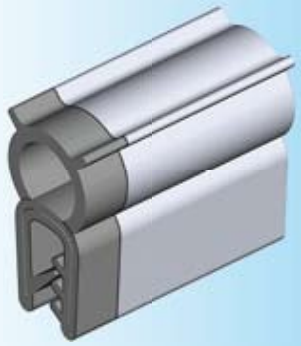
EMC gasketing material

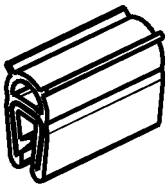
PROGRAM EMC



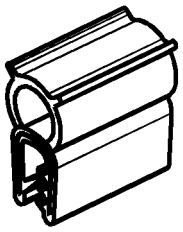
Attention:

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

EMC gasketing material



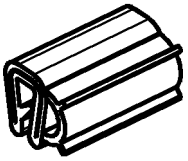
Dimensions
see catalogue page
5A-220
article 1011-10



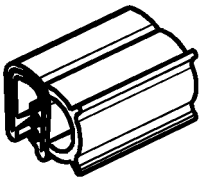
Dimensions
see catalogue page
5A-220
article 1011-05

Soft-sponge rubber / EPDM with conductive overall coating and steel spring core	
1011-10-E	1011-05-E

EMC gasketing material



Dimensions
see catalogue page
5A-240
article 1011-09



Dimensions
see catalogue page
5A-260
article 1011-06

Soft-sponge rubber / EPDM with conductive overall coating and steel spring core	
1011-09-E	1011-06-E

EMC conductive tape

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

Note:

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

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

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

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

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

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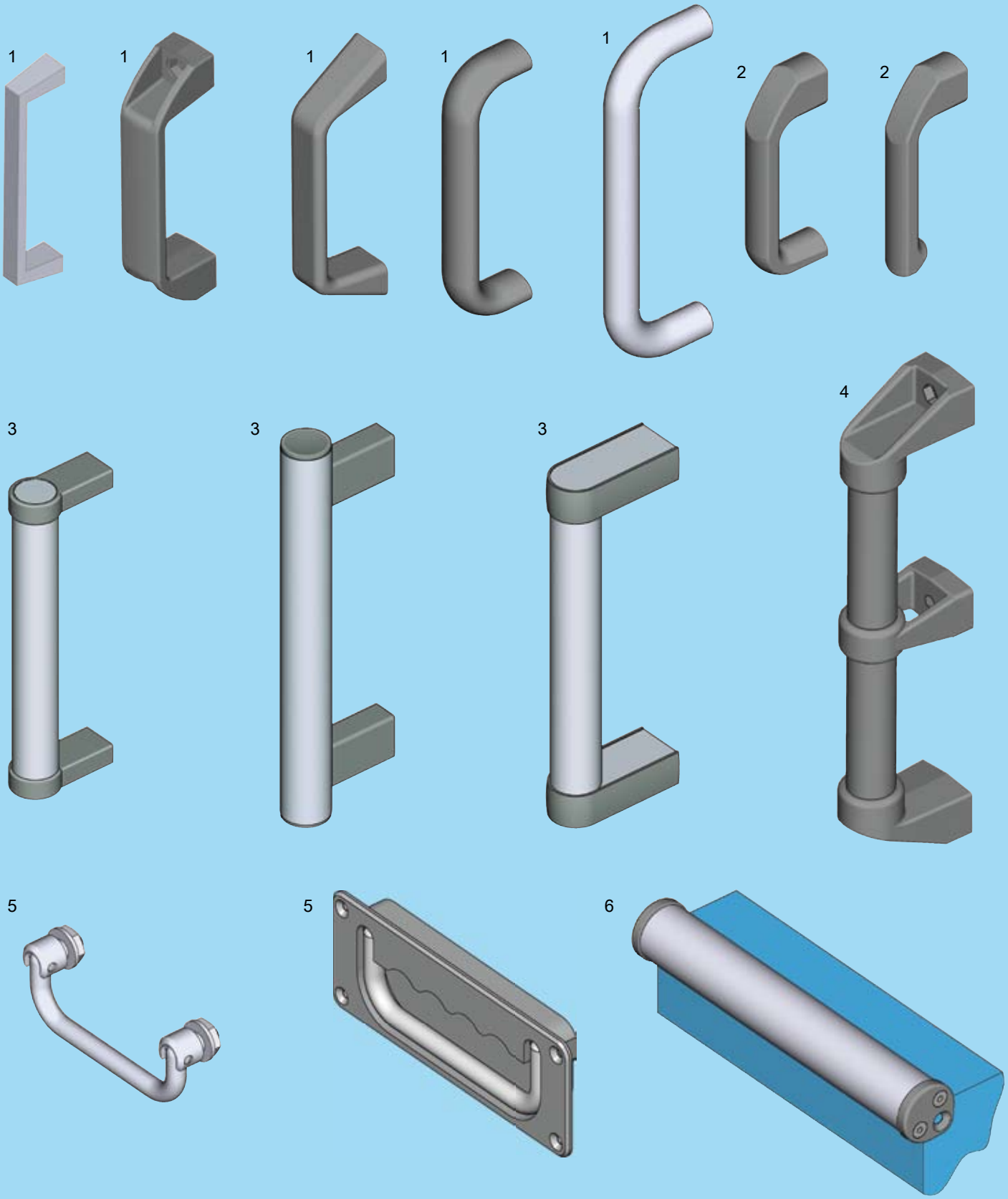
Handle
Program 1095



1	Bow-type handles in different sizes	6A-120 up to 6A-180
2	Handle	6A-440
3	Tube handle with variable length	6A-320 up to 6A-360
4	Handle with variable or fixed length	6A-220, 6A-240
5	Chest handle with variable length	6A-420
6	Edge handle with variable length	6A-420

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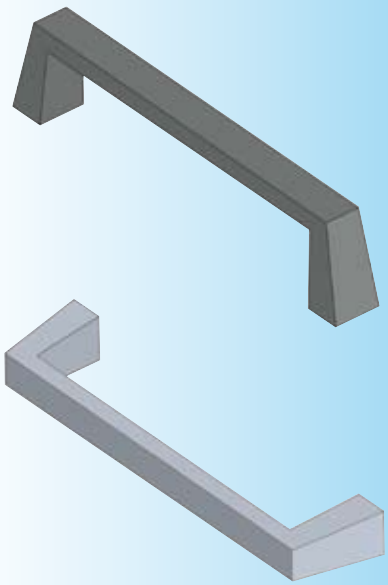
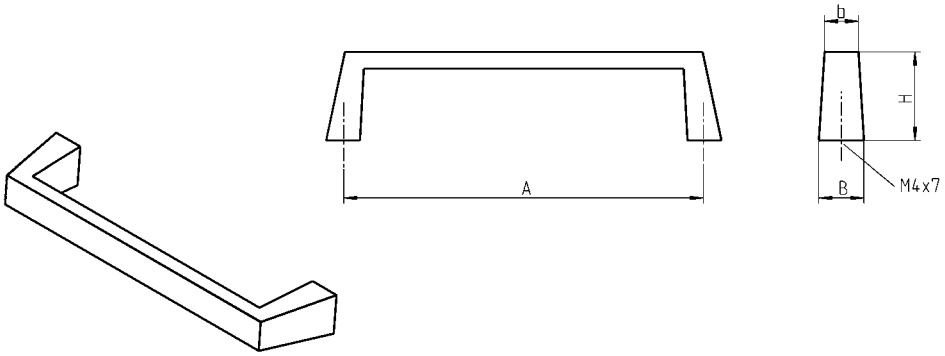
Handle

PROGRAM 1045, 1095

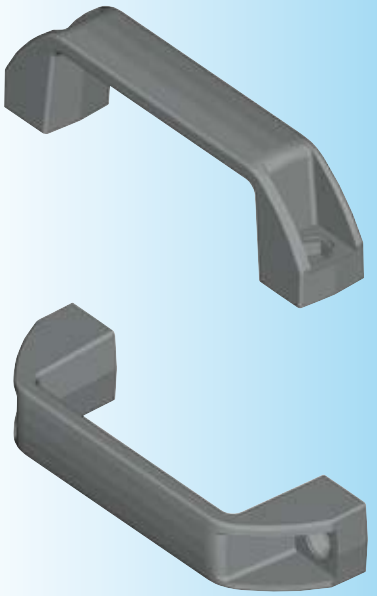


Bow-type handle

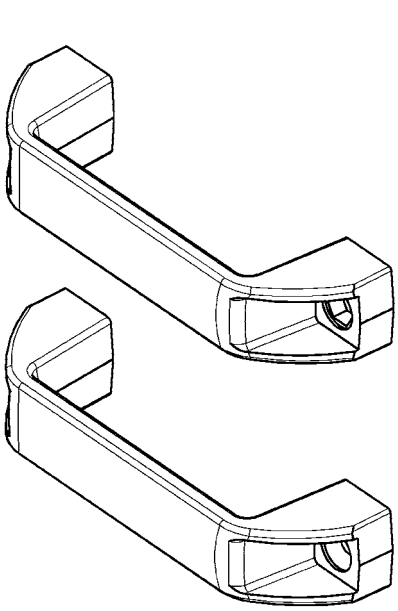


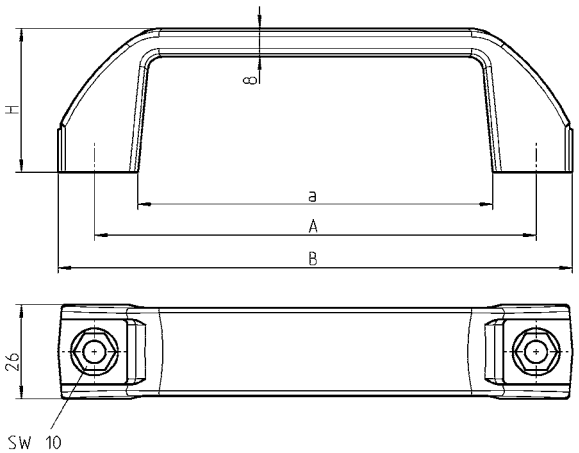
Bow-type handle zinc die					
B	b	A	H	chrome plated	black p.c.
11	8	81	22	1045-03	1045-07 *
11	8	89	22	1045-02	1045-06 *
12	9	95,5	24	1045-01	1045-05
12	8,5	115	23	1045-04	1045-08 *

* = on request



Polyamide handle





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

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

Fastening material is not included in delivery.

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	–

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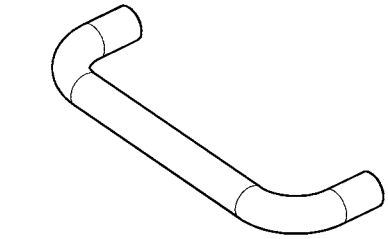
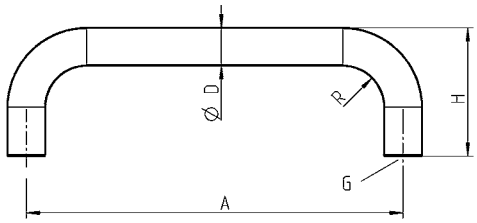
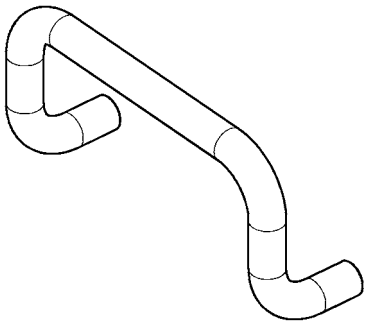
Bow-type handles

PROGRAM 1095

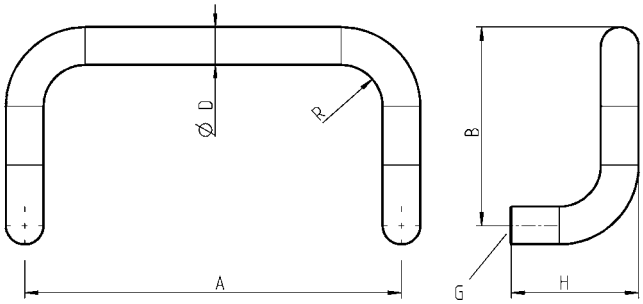
Version 1



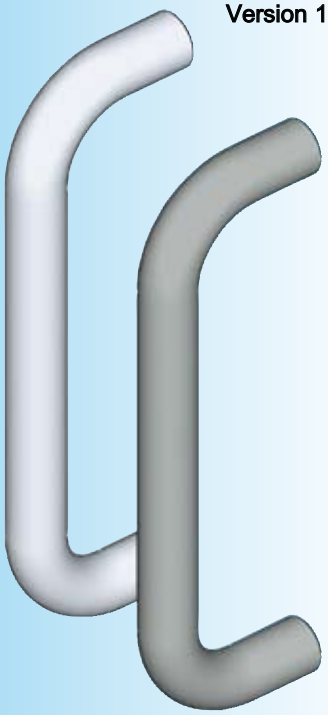




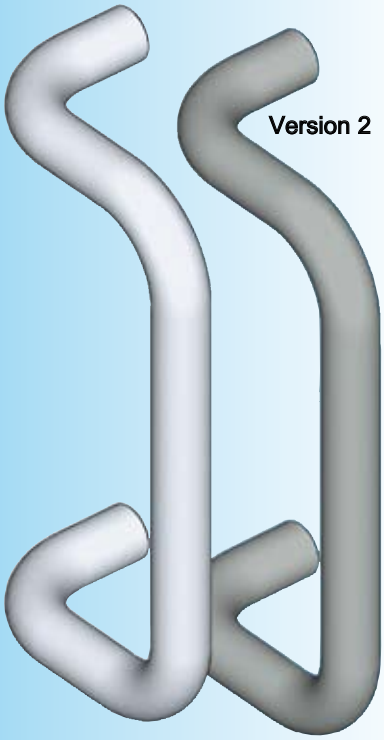
Version 2



Version 1



Version 2



Bow-type handle, aluminium raw or black plastic coated, threaded bush aluminium with Ø D = 28

Version 1

A	B	D	G	H	R	raw	black
200	–	20	M8x15	68	22	1095-24-200KB	1095-24-200AA
250	–	20	M8x15	68	22	1095-24-250KB	1095-24-250AA
250	–	28	M10x15	78	32	1095-U24-250KB	1095-U24-250AA
300	–	20	M8x15	68	22	1095-24-300KB	1095-24-300AA
300	–	28	M10x15	78	32	1095-U24-300KB	1095-U24-300AA
350	–	20	M8x15	68	22	1095-24-350KB	1095-24-350AA
350	–	28	M10x15	78	32	1095-U24-350KB	1095-U24-350AA
400	–	28	M10x15	78	32	1095-U24-400KB	1095-U24-400AA

Version 2

A	B	D	G	H	R	raw	black
200	105	20	M8x15	68	22	1095-25-200KB	1095-25-200AA
250	120	28	M10x15	78	32	1095-U25-250KB	1095-U25-250AA
300	105	20	M8x15	68	22	1095-25-300KB	1095-25-300AA
350	120	28	M10x15	78	32	1095-U25-350KB	1095-U25-350AA
500	120	28	M10x15	78	32	1095-U25-500KB	1095-U25-500AA

Bow-typed handles with Ø D = 28 are made of an aluminium tube with the wall thickness of 4 mm.

Fastening material is not included in delivery.

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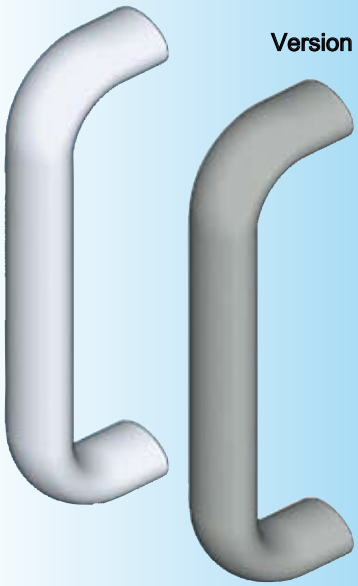
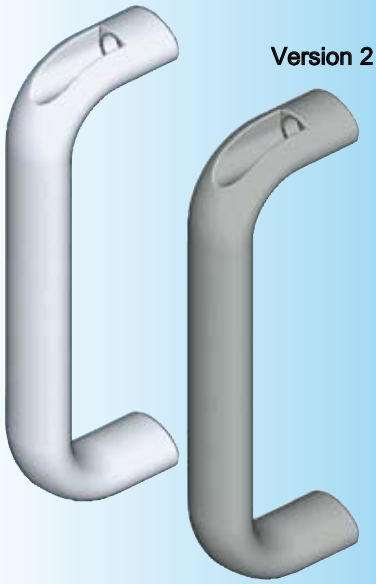
Bow-type handles

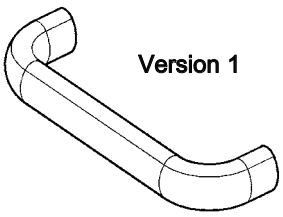
PROGRAM 1095

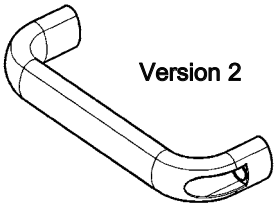
INOX AISI 3..

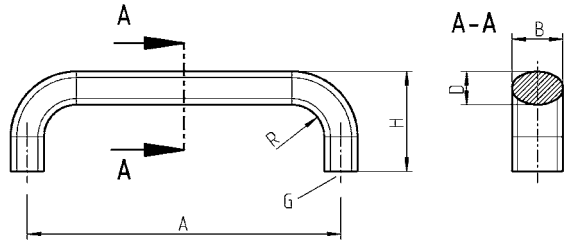
EDELSTAHL Rostfrei STAINLESS STEEL

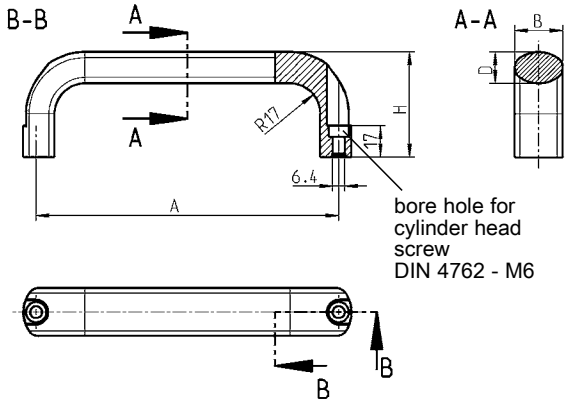












Bow-type handle, aluminium optionally raw, anodized black plastic coated or stainless steel AISI

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.

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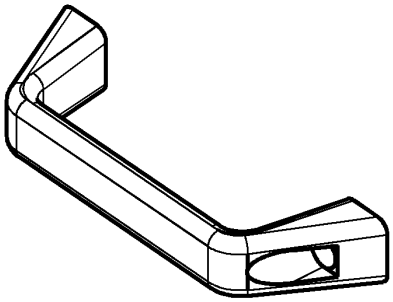
Bow-type handles

PROGRAM 1095

Version 1



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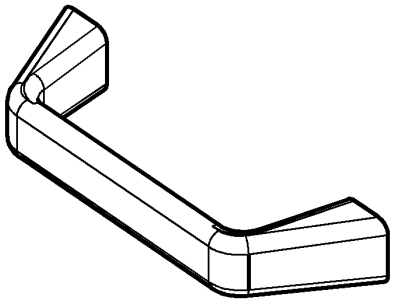

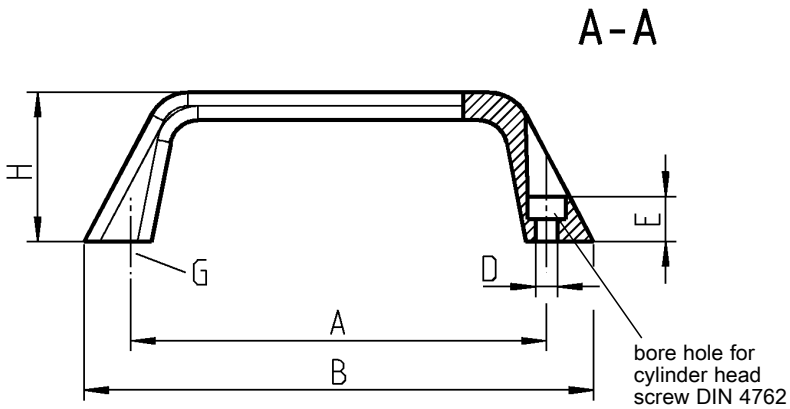

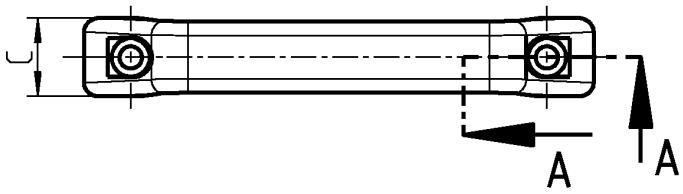

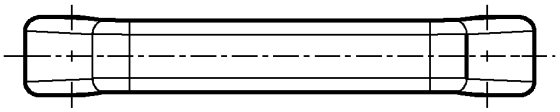

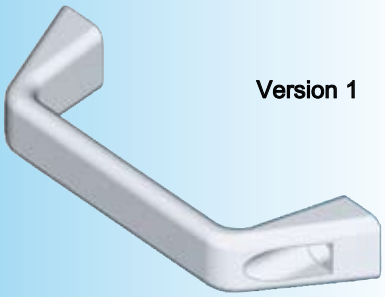

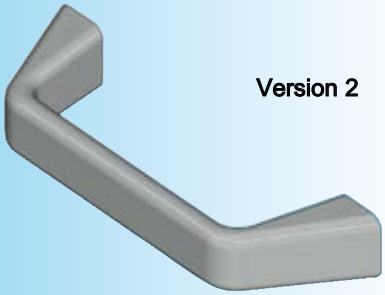

Bow-type handle, aluminium raw black, plastic coated							
Version 1							
A	B	C	D	E	H	raw	black
120	147	22.5	6.4	13	43	1095-29-120KB	1095-29-120AA
180	215	27	8.4	16	48	1095-29-180KB	1095-29-180AA
Version 2							
A	B	C	G	H		raw	black
120	147	22.5	M6x10	43		1095-30-120KB	1095-30-120AA
180	215	27	M8x12	48		1095-30-180KB	1095-30-180AA

Fastening material is not included in delivery.

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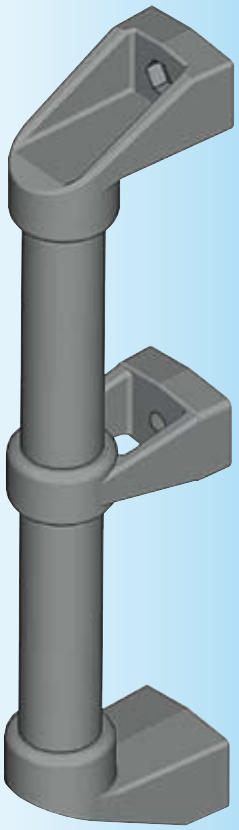
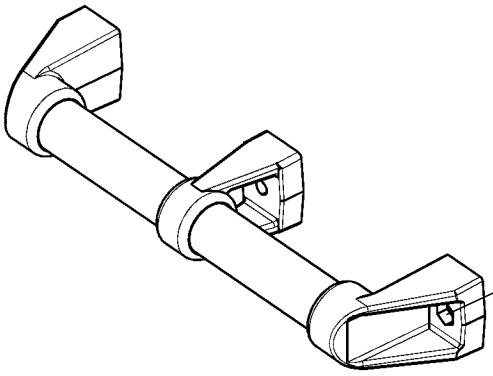
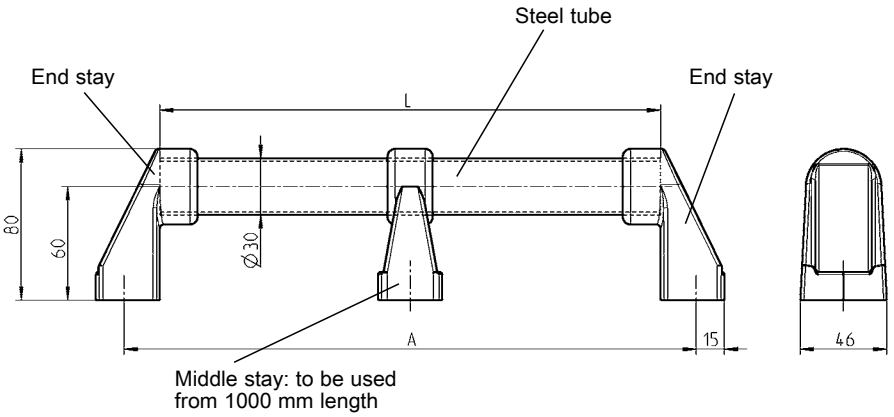
Handle with variable length

PROGRAM 1095







End stay polyamide GF black					
					1095-07
Middle stay polyamide GF black					
					1095-20
Steel tube Ø 30 black coated					
L	**A**		**L**	**A**	
266	300	1095-08	366	400	1095-09
466	500	1095-10	566	600	1095-11
666	700	1095-13	766	800	1095-14
2500	2534	1095-21			
up to 5000 mm*			1095-12-L mm		
* Minimum quantity and delivery time on request!					

Handle with variable length

Fastening material is not included in delivery.

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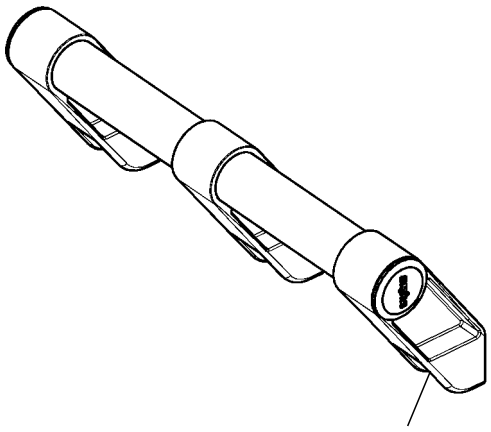
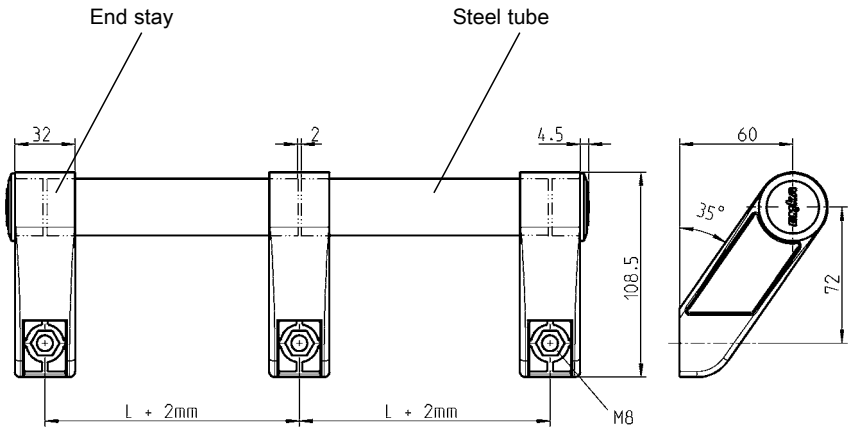
Handle with variable length

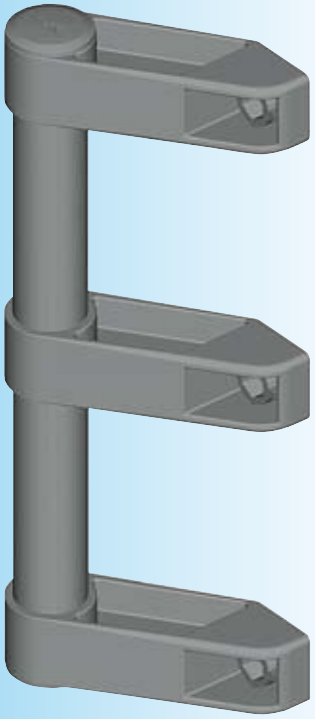
PROGRAM 1095



for hexagon or pan head screw M8
according to DIN 4017/1207



Handle stay is usable as LH/RH and as a middle stay.
When used as a middle stay the tube has to be split.



Handle stay polyamide black for hexagon or pan head screw M8 with 1 plug polypropylene black			
			1095-U01
Steel tube Ø 30 black coated			
L = 266	1095-08	L = 366	1095-09
L = 466	1095-10	L = 566	1095-11
L = 666	1095-13	L = 766	1095-14
up to 5000 mm*		1095-12-L mm	

* Minimum quantity and delivery time on request!

Handle with variable length
(35°-Slope)

Fastening material is not
included
in delivery.

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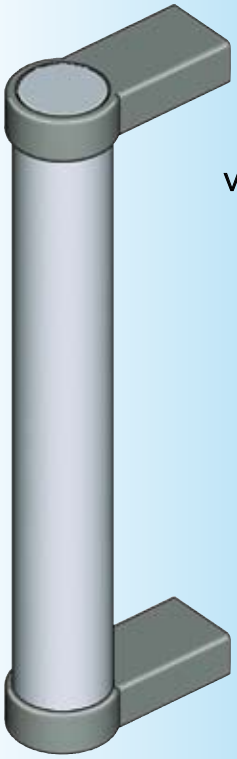
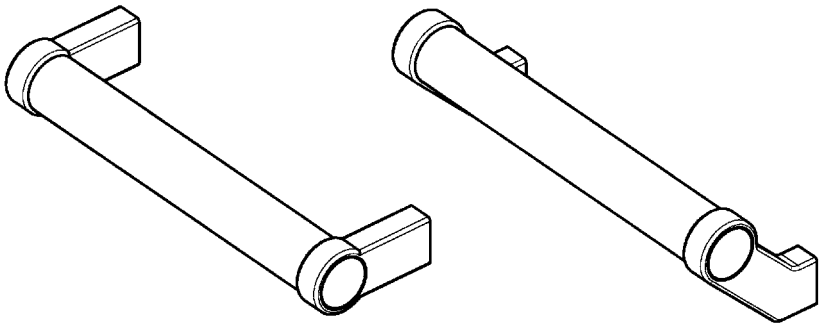
Tube handle

PROGRAM 1095



Version 1



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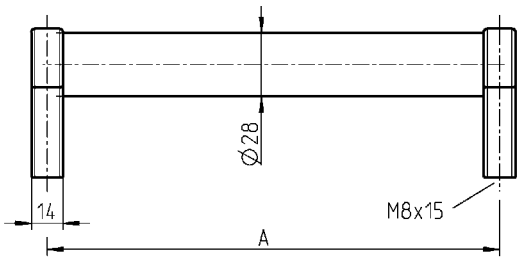

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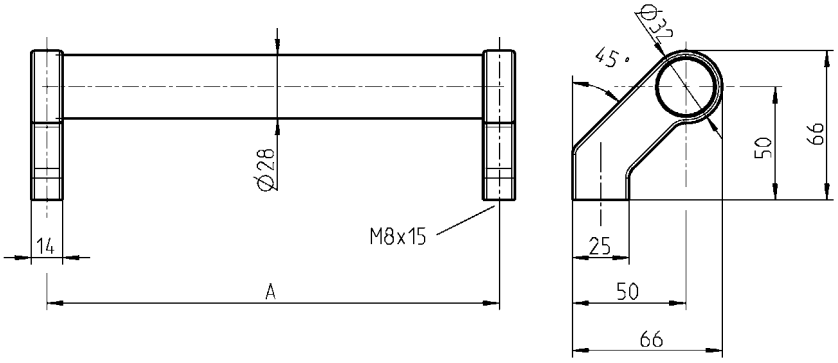

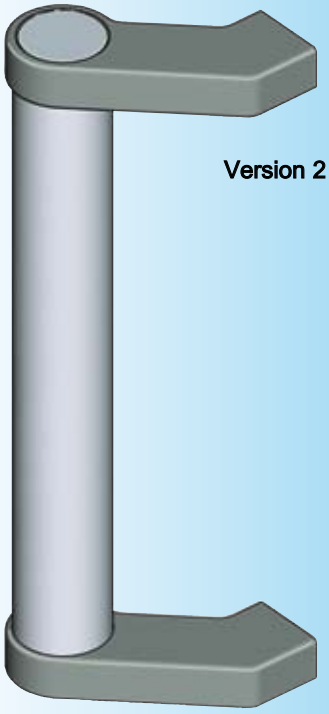

Version 2

Fastening material is not included in delivery.

Tube handle, aluminium anodized or black plastic coated, posts zinc alloy black plastic coated, plastic cap light grey, screw m.s. zinc plated		
Version 1		
A	**anodized**	**black**
200	1095-U26-200NA	1095-U26-200AA
250	1095-U26-250NA	1095-U26-250AA
300	1095-U26-300NA	1095-U26-300AA
400	1095-U26-400NA	1095-U26-400AA
500	1095-U26-500NA	1095-U26-500AA
600	1095-U26-600NA	1095-U26-600AA
Version 2		
A	**anodized**	**black**
200	1095-U27-200NA	1095-U27-200AA
250	1095-U27-250NA	1095-U27-250AA
300	1095-U27-300NA	1095-U27-300AA
400	1095-U27-400NA	1095-U27-400AA
500	1095-U27-500NA	1095-U27-500AA
600	1095-U27-600NA	1095-U27-600AA

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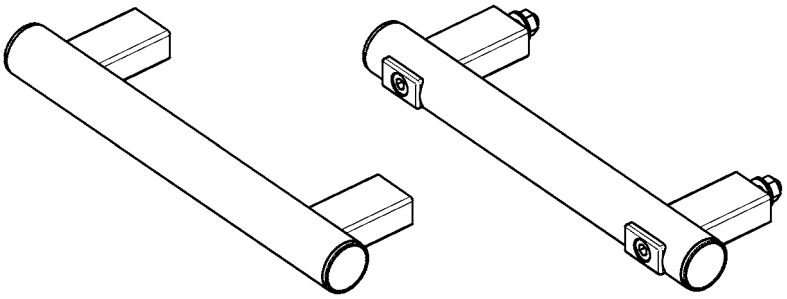
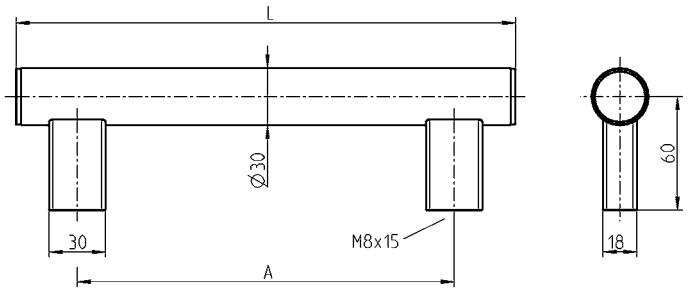
Tube handle

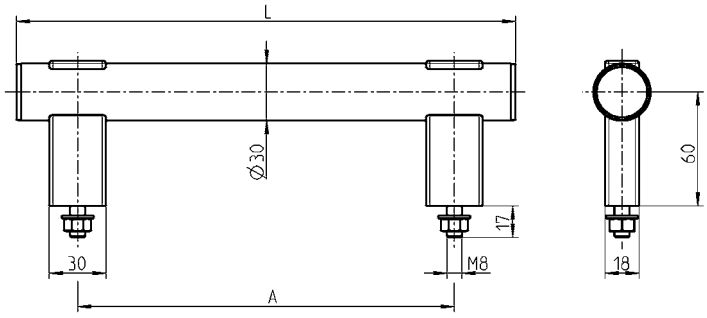
PROGRAM 1095

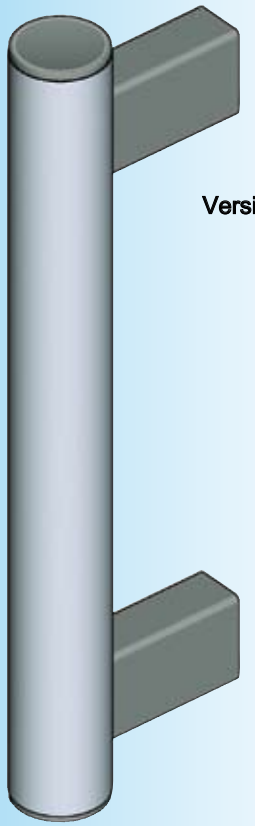


***** Version 1

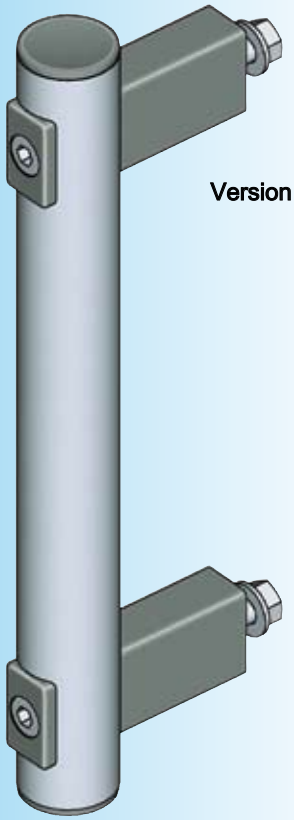


Version 2





Version 1



Version 2

Tube handle, aluminium anodized or black plastic coated with black polyamide GF posts, plastic cap black, fastening screw and nut m.s. zinc plated

Version 1			
A	**L**	**anodized**	**black**
200	265	1095-U28-200NA	1095-U28-200AA
250	315	1095-U28-250NA	1095-U28-250AA
300	365	1095-U28-300NA	1095-U28-300AA
400	465	1095-U28-400NA	1095-U28-400AA
500	565	1095-U28-500NA	1095-U28-500AA
600	665	1095-U28-600NA	1095-U28-600AA
Version 2			
A	**L**	**anodized**	**black**
200	265	1095-U29-200NA	1095-U29-200AA
250	315	1095-U29-250NA	1095-U29-250AA
300	365	1095-U29-300NA	1095-U29-300AA
400	465	1095-U29-400NA	1095-U29-400AA
500	565	1095-U29-500NA	1095-U29-500AA
600	665	1095-U29-600NA	1095-U29-600AA

***** Fastening material is not included in delivery.

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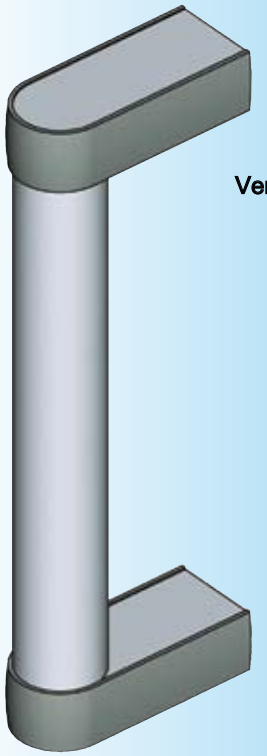
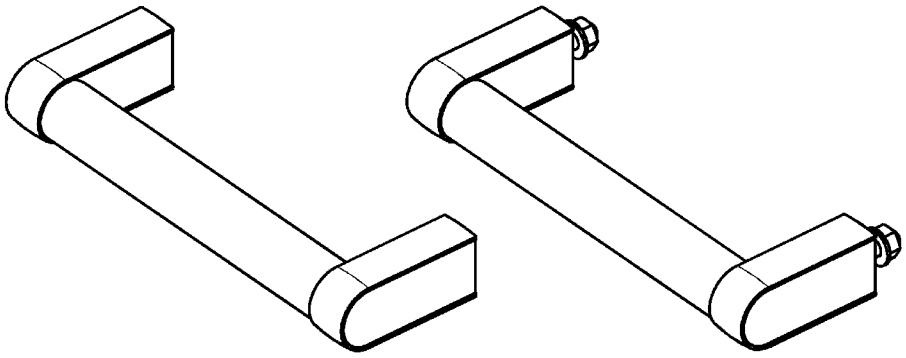
Tube handle

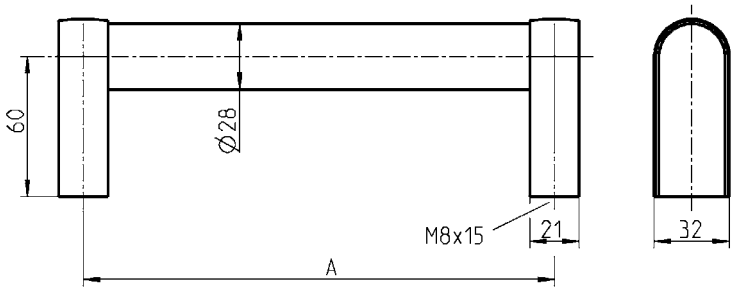
PROGRAM 1095



Version 1



* Version 1



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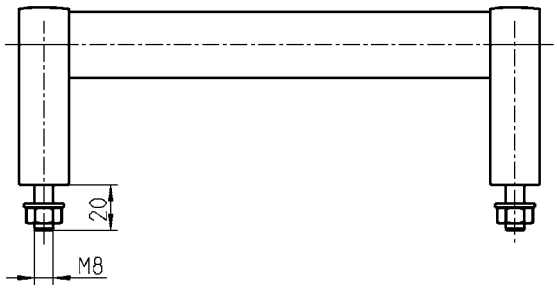

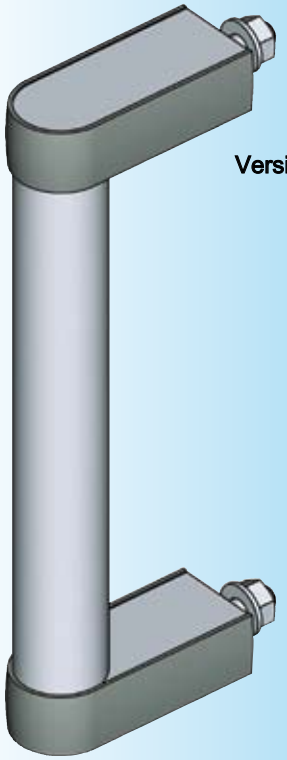

Version 2

* Fastening material is not included in delivery.

Tube handle and posts: aluminium anodized or black plastic coated, cover polyamide black, screw and nut m.s. zinc plated		
Version 1		
A	**anodized**	**black**
200	1095-U30-200NA	1095-U30-200AA
250	1095-U30-250NA	1095-U30-250AA
300	1095-U30-300NA	1095-U30-300AA
400	1095-U30-400NA	1095-U30-400AA
500	1095-U30-500NA	1095-U30-500AA
600	1095-U30-600NA	1095-U30-600AA
Version 2		
A	**anodized**	**black**
200	1095-U31-200NA	1095-U31-200AA
250	1095-U31-250NA	1095-U31-250AA
300	1095-U31-300NA	1095-U31-300AA
400	1095-U31-400NA	1095-U31-400AA
500	1095-U31-500NA	1095-U31-500AA
600	1095-U31-600NA	1095-U31-600AA

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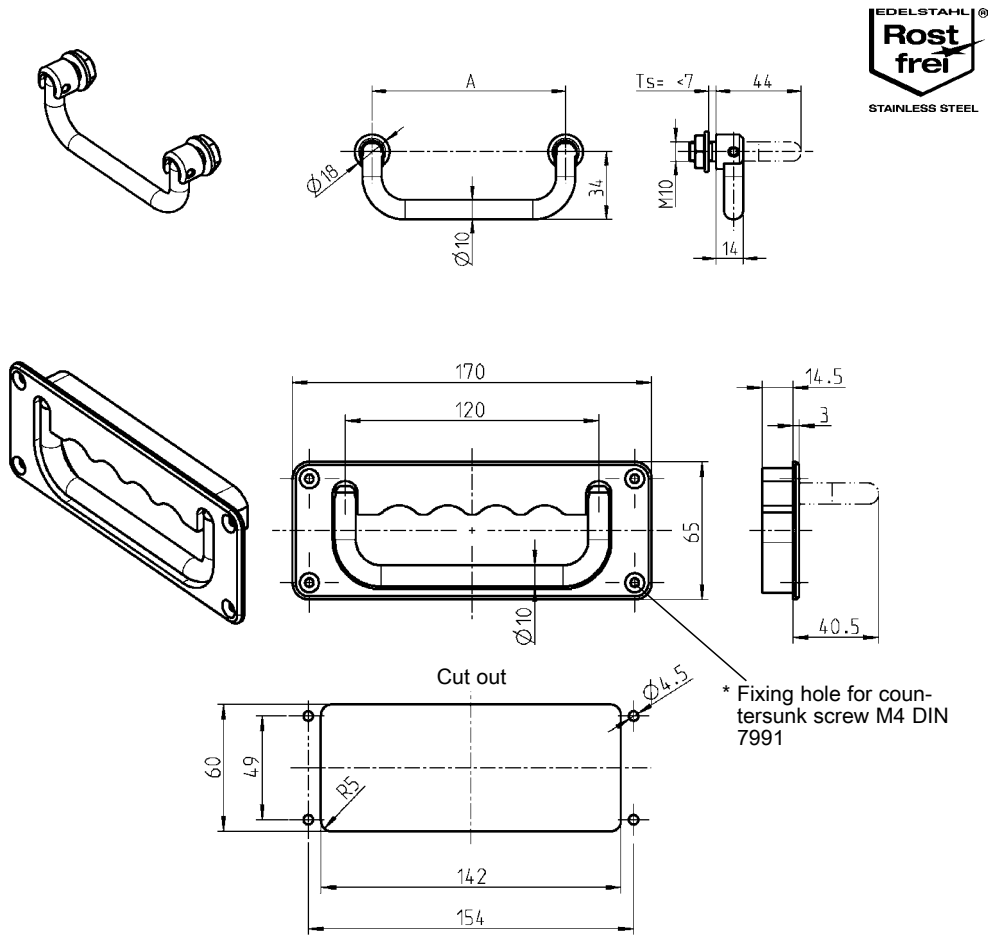
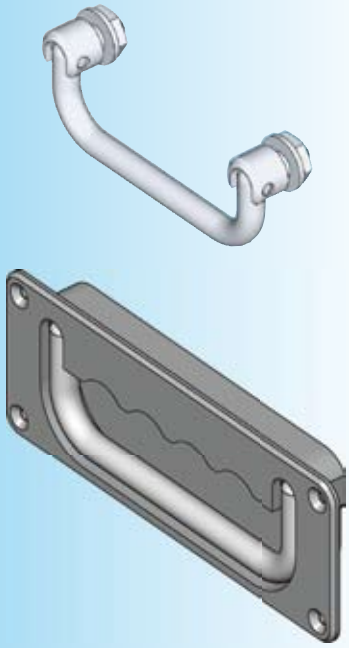
Chest handle
Edge handle

PROGRAM 1095

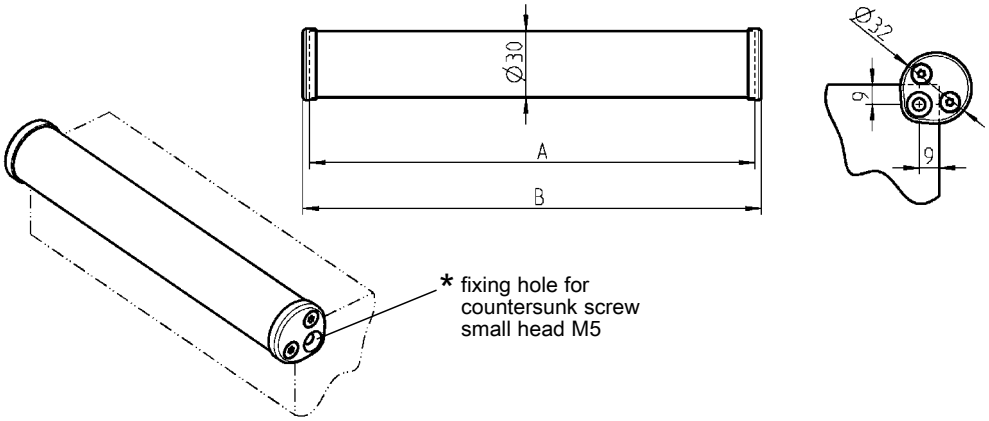


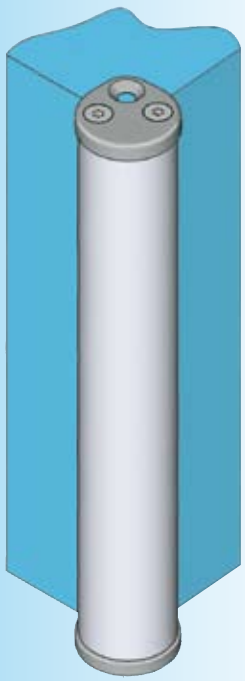
INOX AISI 3..



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

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





Edge handle aluminium profile, end pieces zinc alloy black, screws m.s. black		
A	**B**	
200	206	1095-U33-200AA
300	306	1095-U33-300AA
400	406	1095-U33-400AA
500	506	1095-U33-500AA

* Fastening material is not included in delivery.

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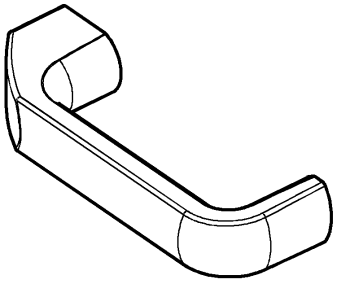
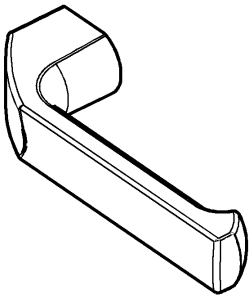
Pull Handle

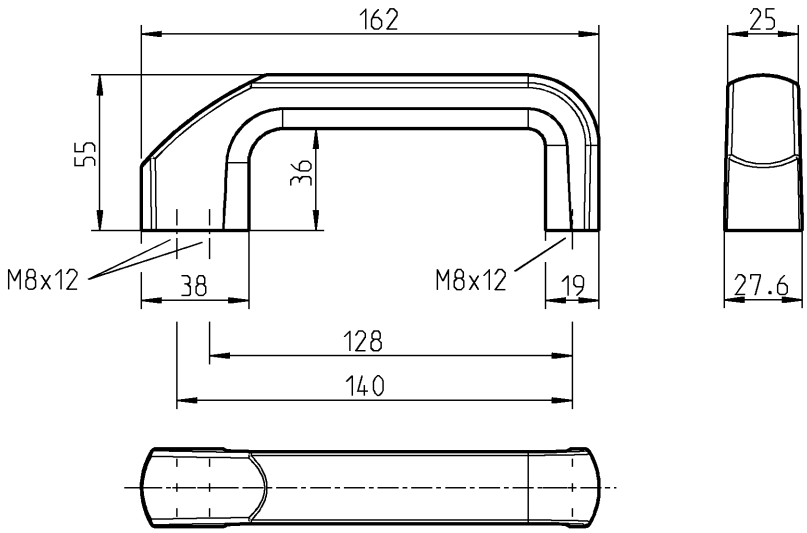
PROGRAM 1095

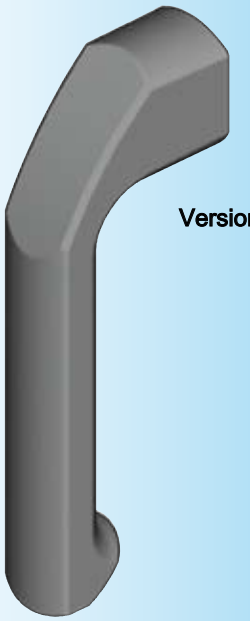
Version 1





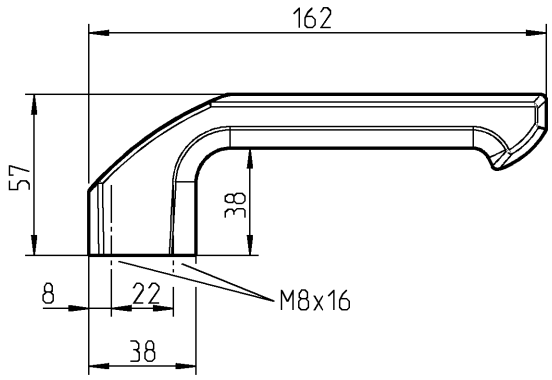
Version 1





Version 2

Version 2



Pull Handle aluminium black plastic coated	
Version 1	
	1095-31-200AA
Version 2	
	1095-32-200AA

Fastening material is not included in delivery.

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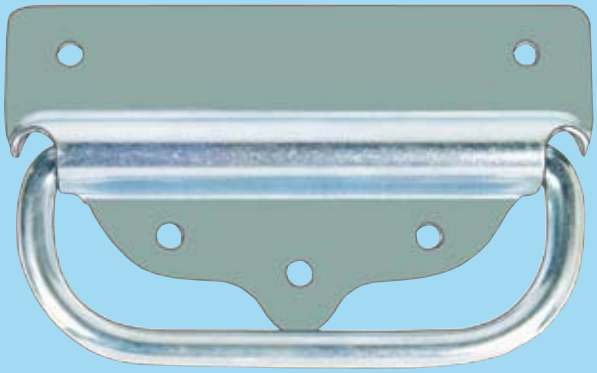
Handle
Program 6040

1



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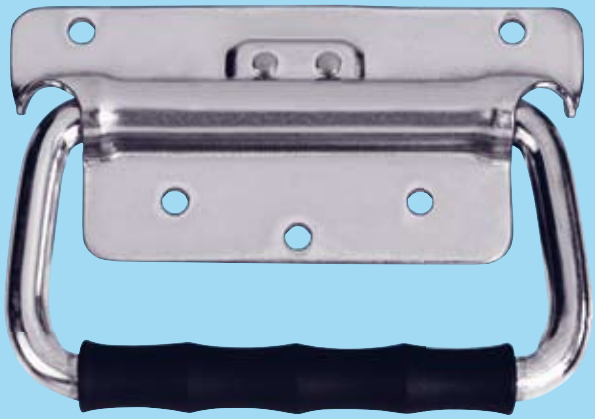

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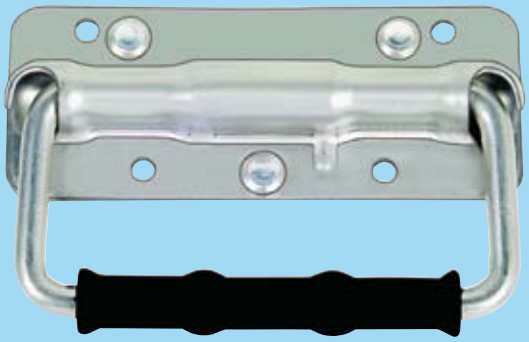
4



5

6

1	Chest handle	6B-120
2	Chest handle	6B-140
3	Recessed chest handle	6B-160
4	Chest handle	6B-180
5	Bow-type handle	6B-220
6	Chest handle	6B-240

Surface protection for steel parts:
zinc plated, thick-film passivated (DS)
and top coat sealed.

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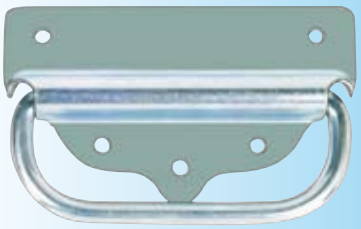
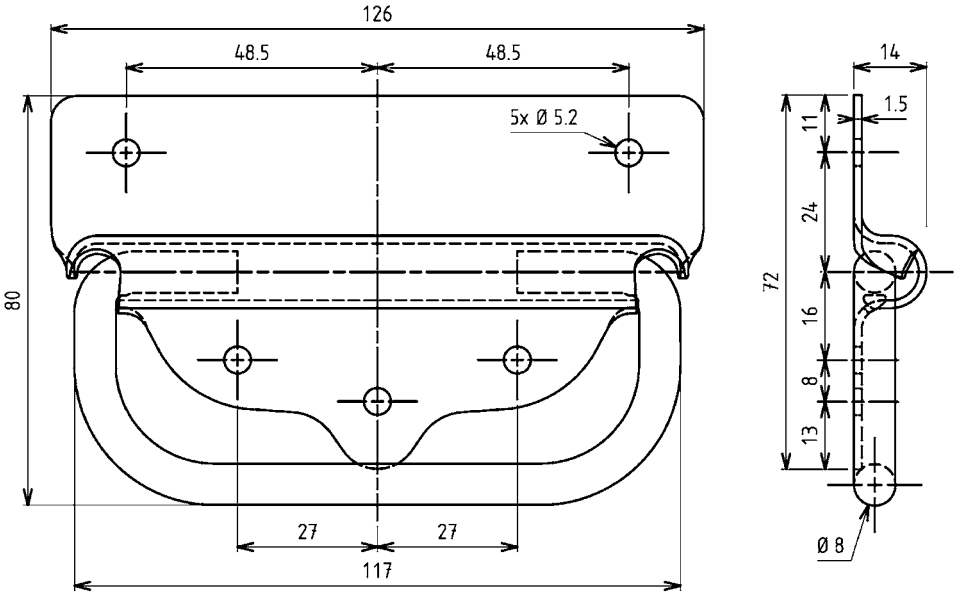
Chest handles

PROGRAM 6040

INOX AISI 3..





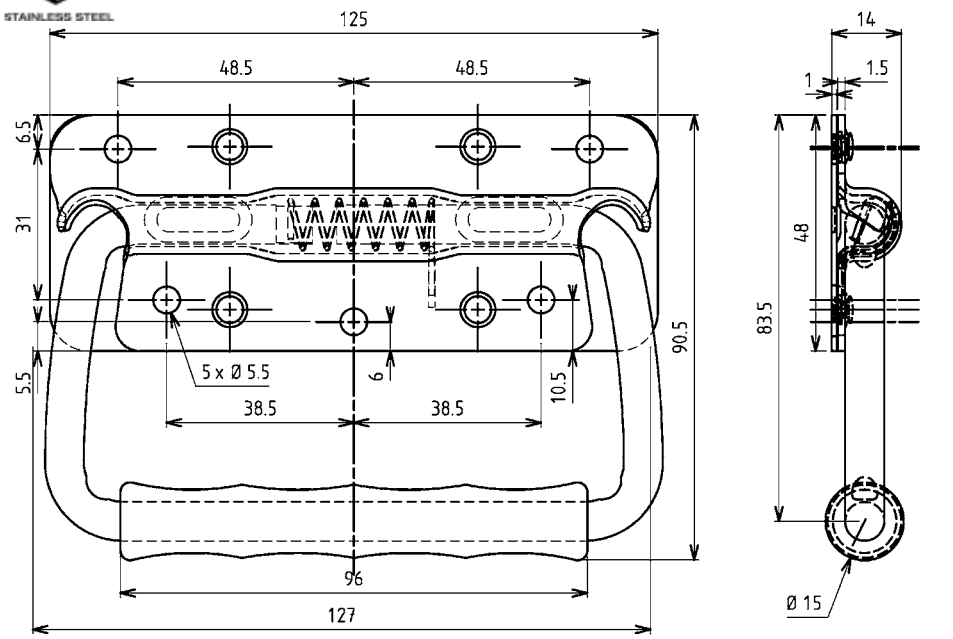
Chest handle

	without piano wire torsion spring
Raw steel with mounting holes	6040-U12-KA
Raw steel without mounting holes	6040-U12-01KA
Zinc plated steel DS plus Top Coat with mounting holes	6040-U12-JQ

Further parts see page
– Counter plate 6B-320

EDELSTAHL Rostfrei STAINLESS STEEL

pictured with piano wire torsion spring and counter plate



Chest handle

	without piano wire torsion spring and counter plate	with piano wire torsion spring
Zinc plated steel DS plus Top Coat with mounting holes	6040-U14-JQ	6040-U13-JQ
AISI 304 with mounting holes	6040-U14-PC	6040-U13-PC

Further parts see page
– Back plate 6B-320

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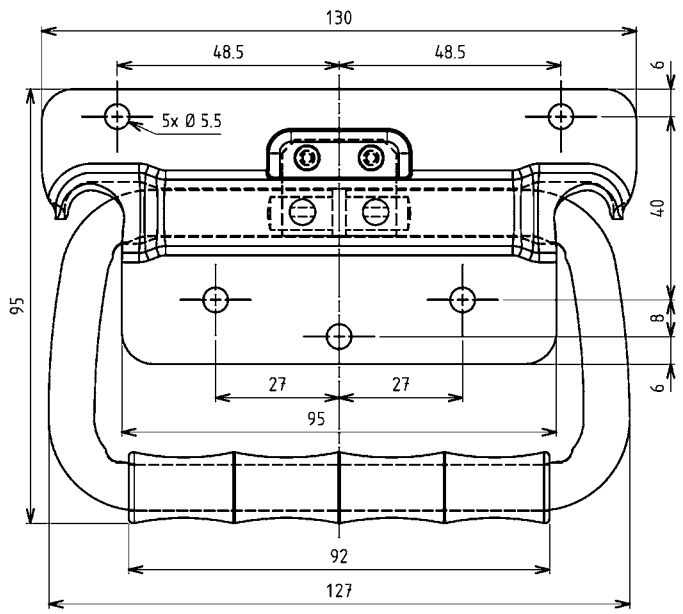
Chest handles

PROGRAM 6040

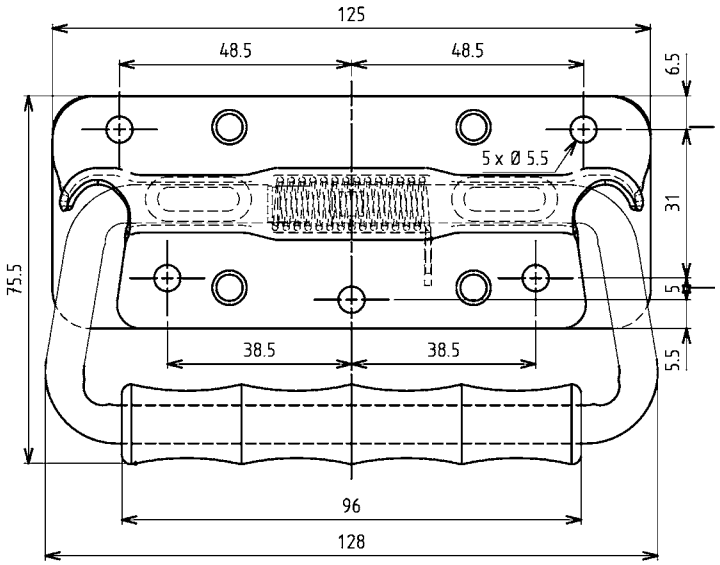


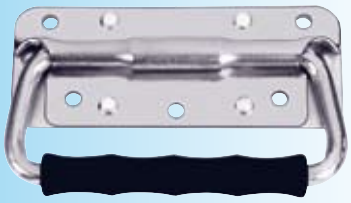
INOX AISI 3..

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

Further parts see page
– Counter plate 6B-320

pictured with piano wire torsion spring and counter plate





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

Further parts see page
– Back plate 6B-320

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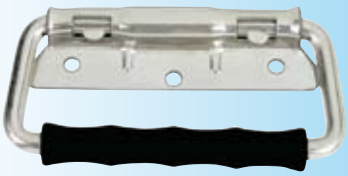
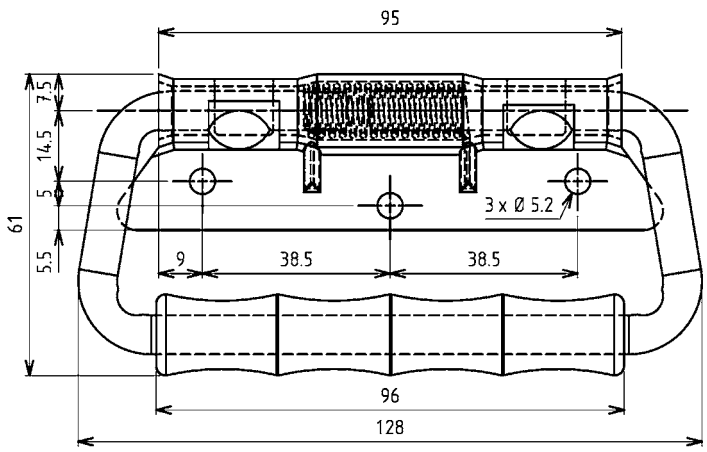
Chest handles

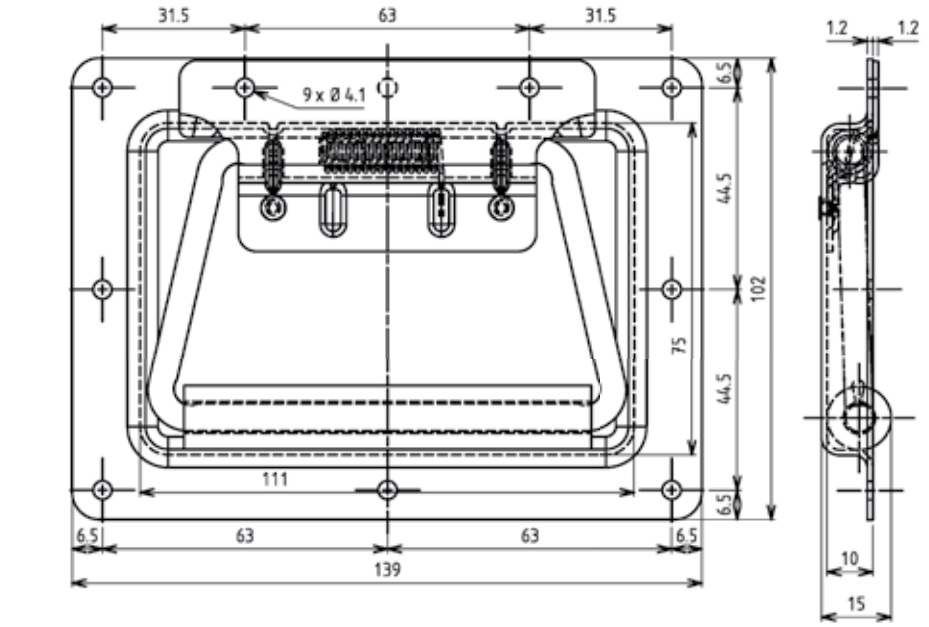
PROGRAM 6040

INOX AISI 3..





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



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

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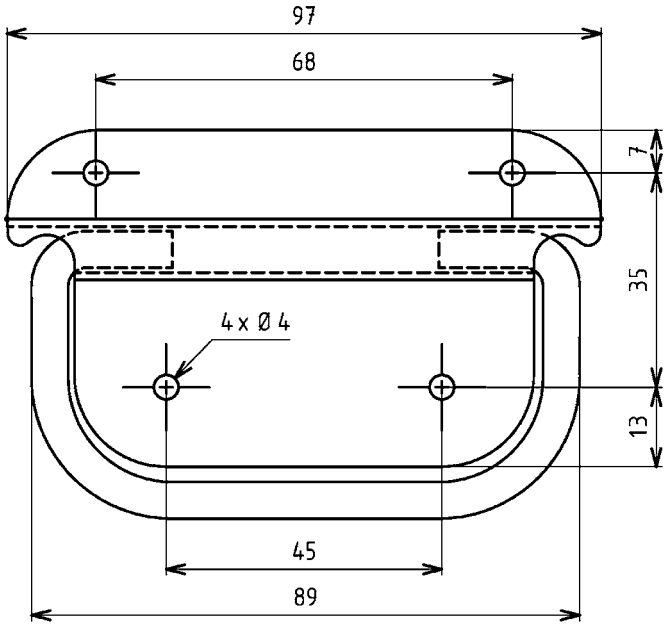
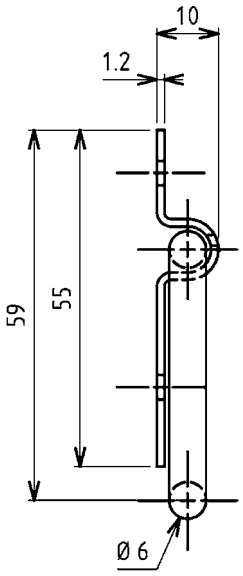
Chest handles

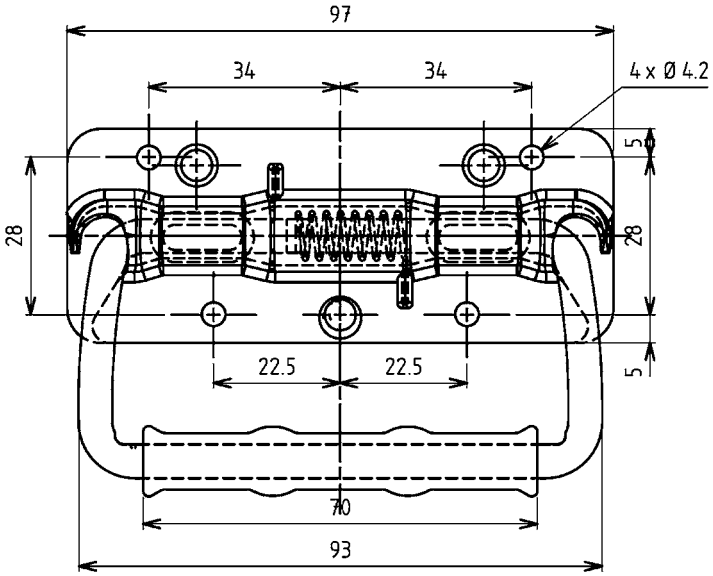
PROGRAM 6040

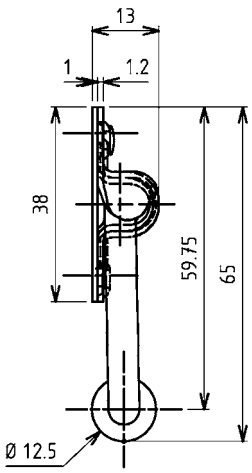


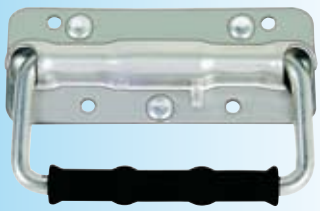


Chest handle	
	without piano wire torsion spring
Zinc plated steel DS plus Top Coat with mounting holes	6040-U46-JQ

pictured with piano wire torsion spring and counter plate







Chest handle		
	without piano wire torsion spring and counter plate	with piano wire torsion spring
Zinc plated steel DS plus Top Coat with mounting holes	6040-U54-JQ	6040-U53-JQ
AISI 304 with mounting holes	6040-U54-PC	6040-U53-PC

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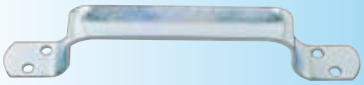
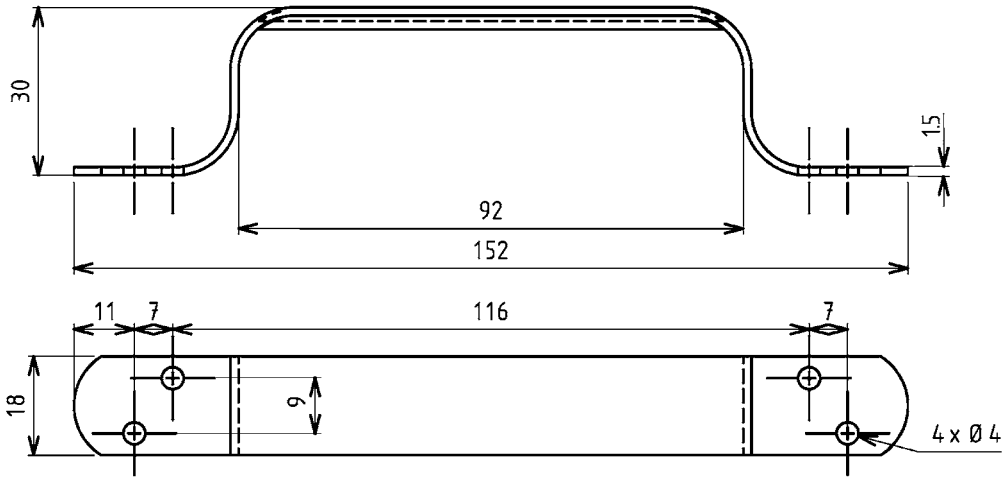
Handle

PROGRAM 6040

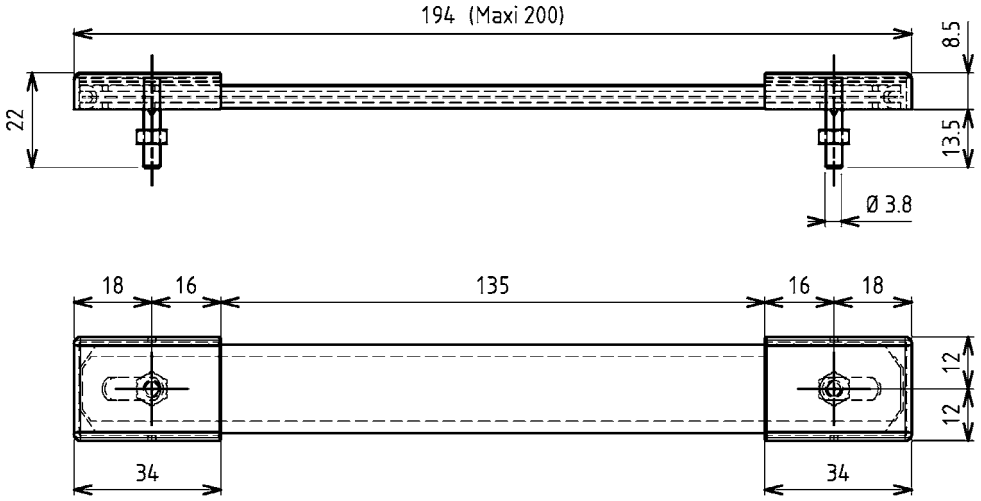
INOX AISI 3..

EDELSTAHL Rost frei STAINLESS STEEL





Bow-type handle	
Raw steel with mounting holes	6040-15-KA
Raw steel without mounting holes	6040-15-01KA
Zinc plated steel DS plus Top Coat with mounting holes	6040-15-JQ
AISI 304 with mounting holes	6040-15-PC



Case-handle	
Nickel plated steel with mounting holes	6040-U19-LA

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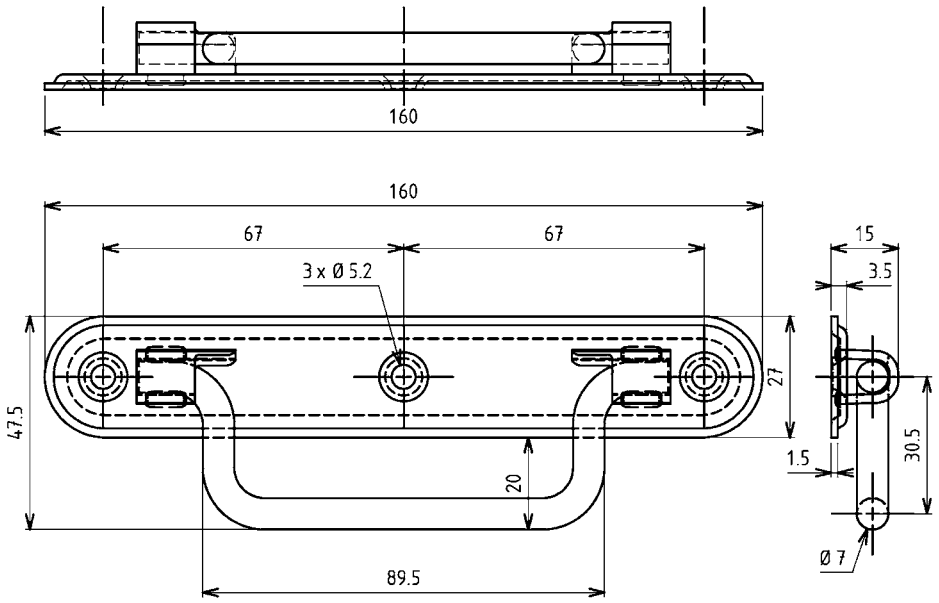
Handle, bail

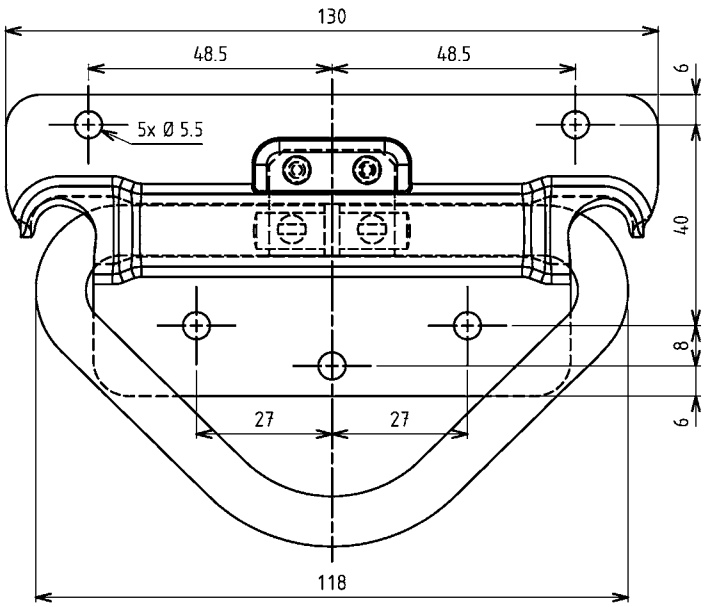
PROGRAM 6040

INOX AISI 3..



Chest handle	
	without piano wire torsion spring
Zinc plated steel DS plus Top Coat with mounting holes	6040-U94-JQ

EDELSTAHL Rostfrei STAINLESS STEEL



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

Further parts see page
– Back plate 6B-320
6B-340

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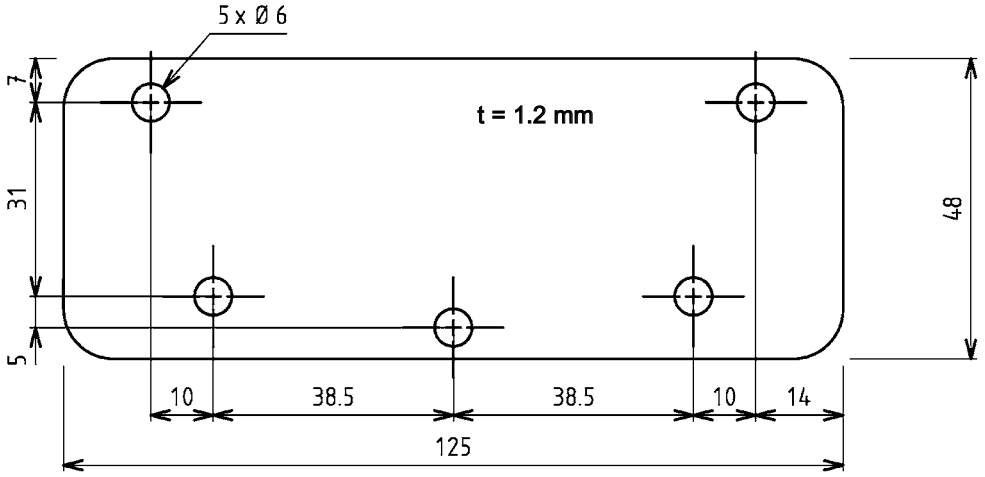
Counter plate

PROGRAM 6040

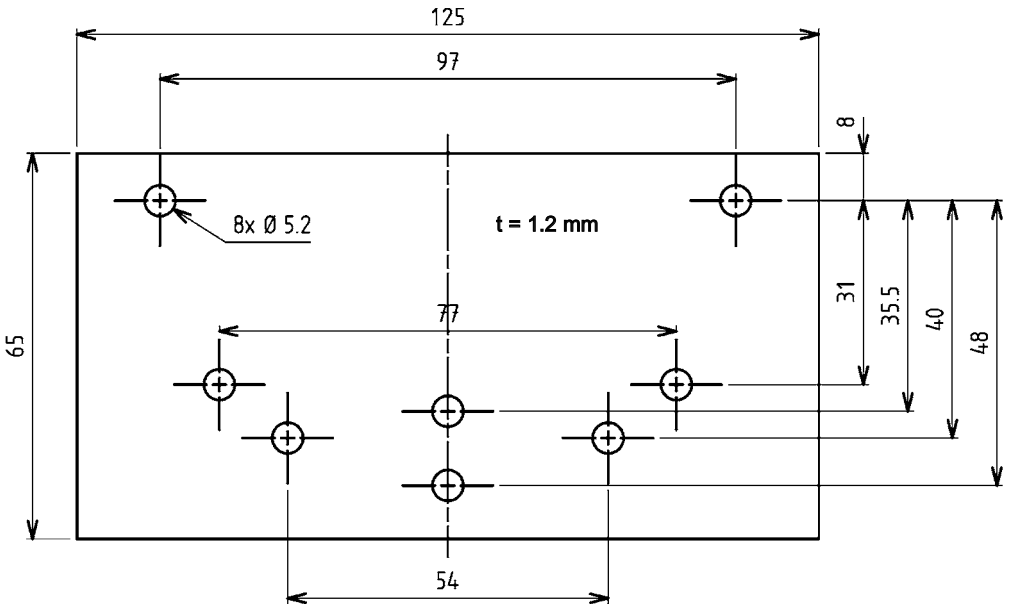
INOX AISI 3..



Further parts see page
– Chest handle 6B-120 6B-140

Counter plate for chest handle	
Zinc plated steel DS plus Top Coat	6042-63-JQ

EDELSTAHL Rost frei STAINLESS STEEL



Further parts see page
– Chest handle 6B-120 6B-140

Counter plate for chest handle	
Zinc plated steel DS plus Top Coat	6042-69-JQ
AISI 304	6042-69-PC

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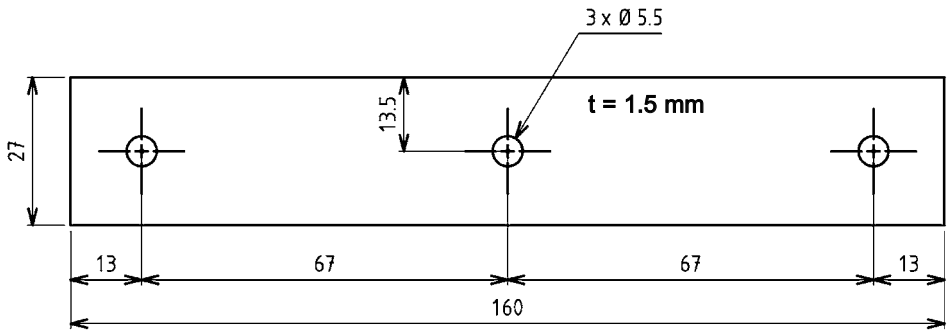
Counter plate

PROGRAM 6040



Counter plate for handle	
Zinc plated steel DS plus Top Coat	6042-278-JQ

Further parts see page
– Chest handle 6B-240

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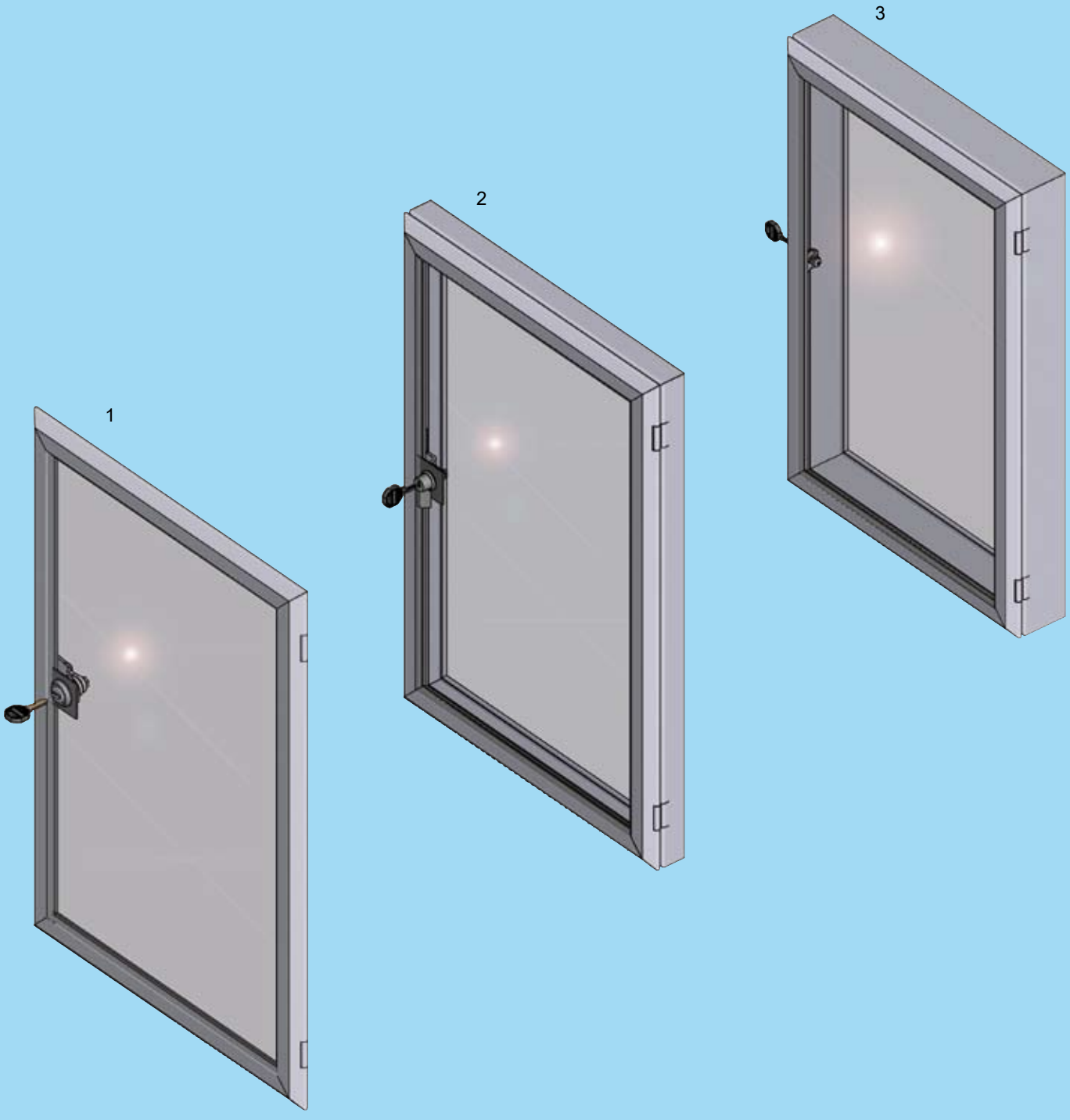
Notes:

Aluminium window
Program 1200



1	Aluminium window without frame	7A-140, 7A-160
2	Aluminium window with 30 mm frame,	7A-220 to 7A-260
3	Aluminium window with 61 mm frame,	7A-320 to 7A-360

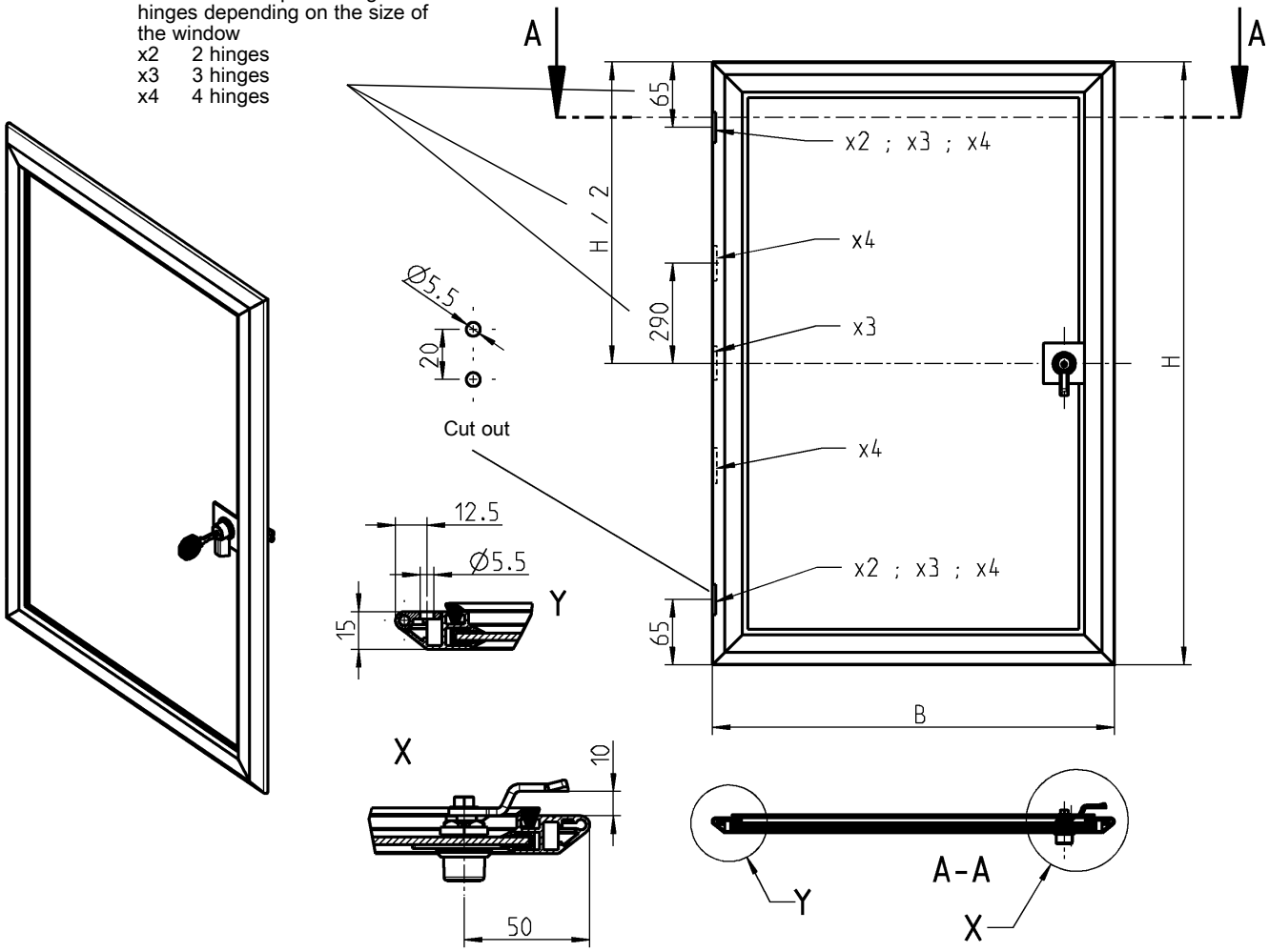
Can be assembled with gas spring upon request.

Aluminium window

PROGRAM 1200

Aluminium window without frame, with front mounted wing knob

Dimensions for positioning the hinges depending on the size of the window
x2 2 hinges
x3 3 hinges
x4 4 hinges



Part number
B
H

Height in mm \ Width in mm	. . .	→700	→800	
. . .	..... . / .	..... . / .	..... . / .	
→900	..... . / .	1200-U55-07 3/3	1200-U56-07 3/3	
→1000	..... . / .	1200-U55-08 3/3	1200-U56-08 3/3	

Number of locks
Number of hinges

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U65-07 620x840

If more than one lock is necessary, only one will be keyed 2233X as standard. Keyed different on request.

For dimensions W and H, number of locks and hinges as well as part numbers, see opposite page.

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Anodized aluminium window, polycarbonate glass 3 mm thick, lock zinc die black powder coated, with seal

Height in mm \ Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
300←	1200-U61-01 1/2	1200-U62-01 1/2	1200-U63-01 1/2	1200-U64-01 1/2	1200-U65-01 1/2				
→400	1200-U61-02 1/2	1200-U62-02 1/2	1200-U63-02 1/2	1200-U64-02 1/2	1200-U65-02 1/2				
→500	1200-U61-03 1/2	1200-U62-03 1/2	1200-U63-03 1/2	1200-U64-03 1/2	1200-U65-03 1/2				
→600	1200-U61-04 1/2	1200-U62-04 1/2	1200-U63-04 1/2	1200-U64-04 1/2	1200-U65-04 2/2				
→700	1200-U61-05 1/2	1200-U62-05 1/2	1200-U63-05 2/2	1200-U64-05 2/2	1200-U65-05 2/2	1200-U66-05 2/2			
→800	1200-U61-06 1/2	1200-U62-06 1/2	1200-U63-06 2/2	1200-U64-06 2/2	1200-U65-06 2/2	1200-U66-06 2/2			
→900	1200-U61-07 2/3	1200-U62-07 2/3	1200-U63-07 2/3	1200-U64-07 2/3	1200-U65-07 3/3	1200-U66-07 3/3	1200-U67-07 3/3		
→1000	1200-U61-08 2/3	1200-U62-08 2/3	1200-U63-08 2/3	1200-U64-08 2/3	1200-U65-08 3/3	1200-U66-08 3/3	1200-U67-08 3/3	1200-U68-08 3/3	
→1100		1200-U62-09 2/3	1200-U63-09 2/3	1200-U64-09 2/3	1200-U65-09 3/3	1200-U66-09 3/3	1200-U67-09 3/3	1200-U68-09 3/3	
→1200		1200-U62-10 2/3	1200-U63-10 2/3	1200-U64-10 2/3	1200-U65-10 3/3	1200-U66-10 3/3	1200-U67-10 3/3	1200-U68-10 3/3	
→1300			1200-U63-11 3/3	1200-U64-11 3/3	1200-U65-11 3/3	1200-U66-11 3/3	1200-U67-11 3/3	1200-U68-11 3/3	
→1400			1200-U63-12 3/3	1200-U64-12 3/3	1200-U65-12 3/3	1200-U66-12 3/3	1200-U67-12 3/3	1200-U68-12 3/3	
→1500			1200-U63-13 3/3	1200-U64-13 3/3	1200-U65-13 3/3	1200-U66-13 3/3	1200-U67-13 3/3	1200-U68-13 3/3	
→1600			1200-U63-14 3/3	1200-U64-14 3/3	1200-U65-14 3/3	1200-U66-14 3/3	1200-U67-14 3/3	1200-U68-14 3/3	
→1700				1200-U64-15 3/4	1200-U65-15 3/4	1200-U66-15 3/4	1200-U67-15 3/4	1200-U68-15 3/4	
→1800				1200-U64-16 3/4	1200-U65-16 3/4	1200-U66-16 3/4	1200-U67-16 3/4	1200-U68-16 3/4	
→1900					1200-U65-17 3/4	1200-U66-17 3/4	1200-U67-17 3/4	1200-U68-17 3/4	
→2000					1200-U65-18 3/4	1200-U66-18 3/4	1200-U67-18 3/4	1200-U68-18 3/4	

Opening angle 140°

Note:
The framed articles are available on request with safety glass.

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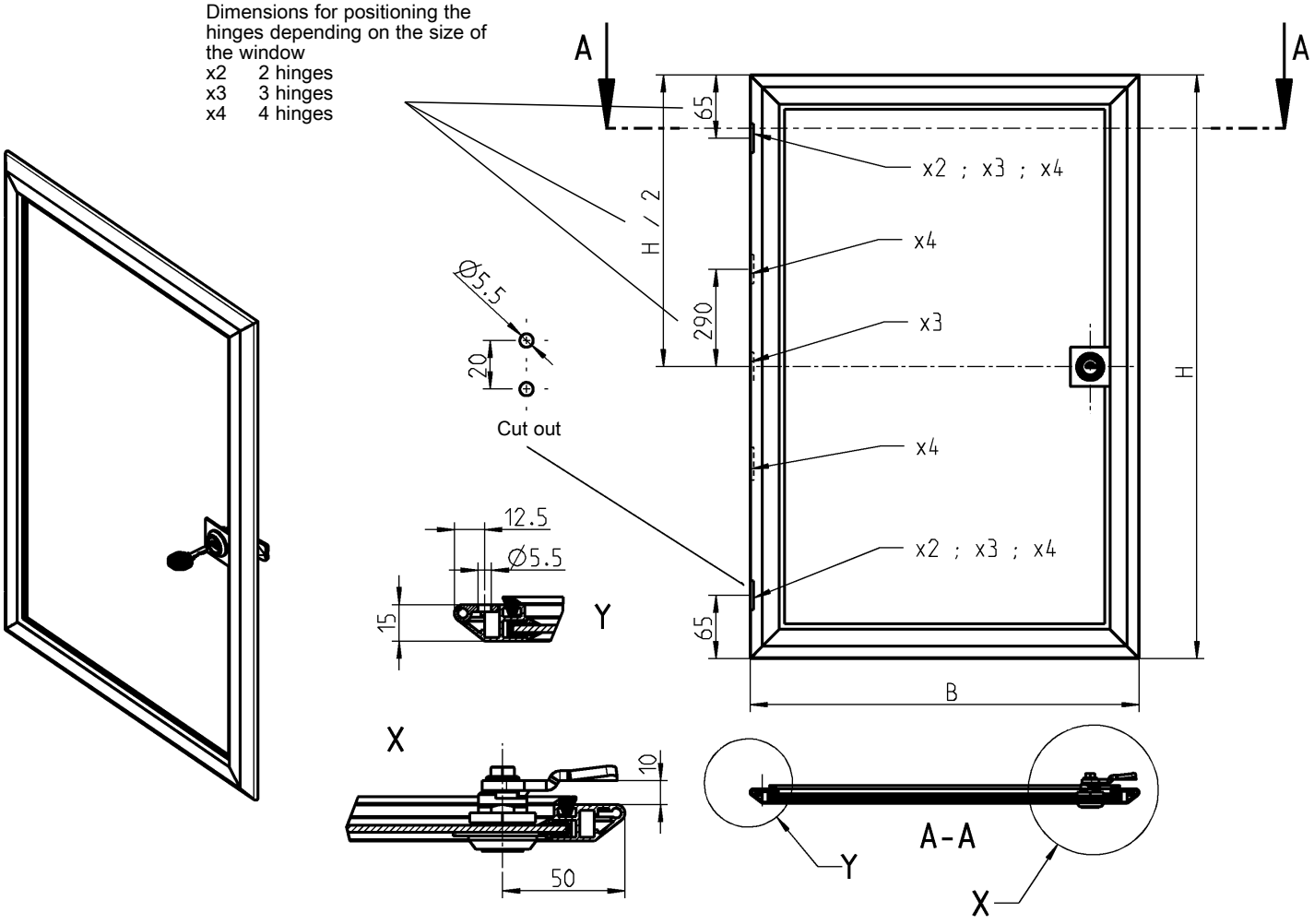
Aluminium window

PROGRAM 1200

Aluminium window without frame
with front mounted cylinder-lock

Dimensions for positioning the hinges depending on the size of the window
x2 2 hinges
x3 3 hinges
x4 4 hinges



Height in mm \ Width in mm	. . .	→700	→800	
. . .	..... / .	..... / .	..... / .	
→900	..... / .	1200-U55-07 3/3	1200-U56-07 3/3	
→1000	..... / .	1200-U55-08 3/3	1200-U56-08 3/3	

Part number
B
H
Number of locks
Number of hinges

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U75-07 620x840

Keyed EK333.
Keyed different on request.

For dimensions W and H, number of locks and hinges as well as part numbers, see opposite page.

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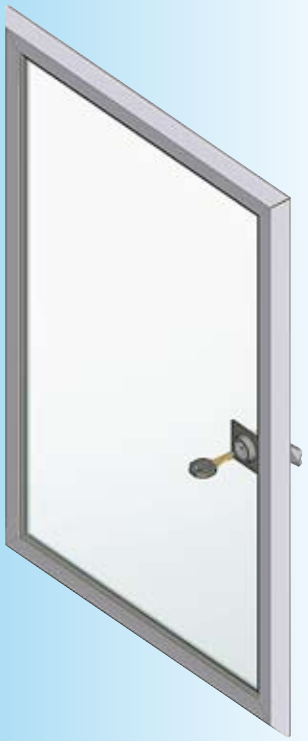
Anodized aluminium window, polycarbonate glass 3 mm thick, lock zinc die black powder coated, with seal



Height in mm \ Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
300←	1200-U71-01 1/2	1200-U72-01 1/2	1200-U73-01 1/2	1200-U74-01 1/2	1200-U75-01 1/2				
→400	1200-U71-02 1/2	1200-U72-02 1/2	1200-U73-02 1/2	1200-U74-02 1/2	1200-U75-02 1/2				
→500	1200-U71-03 1/2	1200-U72-03 1/2	1200-U73-03 1/2	1200-U74-03 1/2	1200-U75-03 1/2				
→600	1200-U71-04 1/2	1200-U72-04 1/2	1200-U73-04 1/2	1200-U74-04 1/2	1200-U75-04 2/2				
→700	1200-U71-05 1/2	1200-U72-05 1/2	1200-U73-05 2/2	1200-U74-05 2/2	1200-U75-05 2/2	1200-U76-05 2/2			
→800	1200-U71-06 1/2	1200-U72-06 1/2	1200-U73-06 2/2	1200-U74-06 2/2	1200-U75-06 2/2	1200-U76-06 2/2			
→900	1200-U71-07 2/3	1200-U72-07 2/3	1200-U73-07 2/3	1200-U74-07 2/3	1200-U75-07 3/3	1200-U76-07 3/3	1200-U77-07 3/3		
→1000	1200-U71-08 2/3	1200-U72-08 2/3	1200-U73-08 2/3	1200-U74-08 2/3	1200-U75-08 3/3	1200-U76-08 3/3	1200-U77-08 3/3	1200-U78-08 3/3	
→1100		1200-U72-09 2/3	1200-U73-09 2/3	1200-U74-09 2/3	1200-U75-09 3/3	1200-U76-09 3/3	1200-U77-09 3/3	1200-U78-09 3/3	
→1200		1200-U72-10 2/3	1200-U73-10 2/3	1200-U74-10 2/3	1200-U75-10 3/3	1200-U76-10 3/3	1200-U77-10 3/3	1200-U78-10 3/3	
→1300			1200-U73-11 3/3	1200-U74-11 3/3	1200-U75-11 3/3	1200-U76-11 3/3	1200-U77-11 3/3	1200-U78-11 3/3	
→1400			1200-U73-12 3/3	1200-U74-12 3/3	1200-U75-12 3/3	1200-U76-12 3/3	1200-U77-12 3/3	1200-U78-12 3/3	
→1500			1200-U73-13 3/3	1200-U74-13 3/3	1200-U75-13 3/3	1200-U76-13 3/3	1200-U77-13 3/3	1200-U78-13 3/3	
→1600			1200-U73-14 3/3	1200-U74-14 3/3	1200-U75-14 3/3	1200-U76-14 3/3	1200-U77-14 3/3	1200-U78-14 3/3	
→1700				1200-U74-15 3/4	1200-U75-15 3/4	1200-U76-15 3/4	1200-U77-15 3/4	1200-U78-15 3/4	
→1800				1200-U74-16 3/4	1200-U75-16 3/4	1200-U76-16 3/4	1200-U77-16 3/4	1200-U78-16 3/4	
→1900					1200-U75-17 3/4	1200-U76-17 3/4	1200-U77-17 3/4	1200-U78-17 3/4	
→2000					1200-U75-18 3/4	1200-U76-18 3/4	1200-U77-18 3/4	1200-U78-18 3/4	

Opening angle 140°

Note:
The framed articles are available on request with safety glass.

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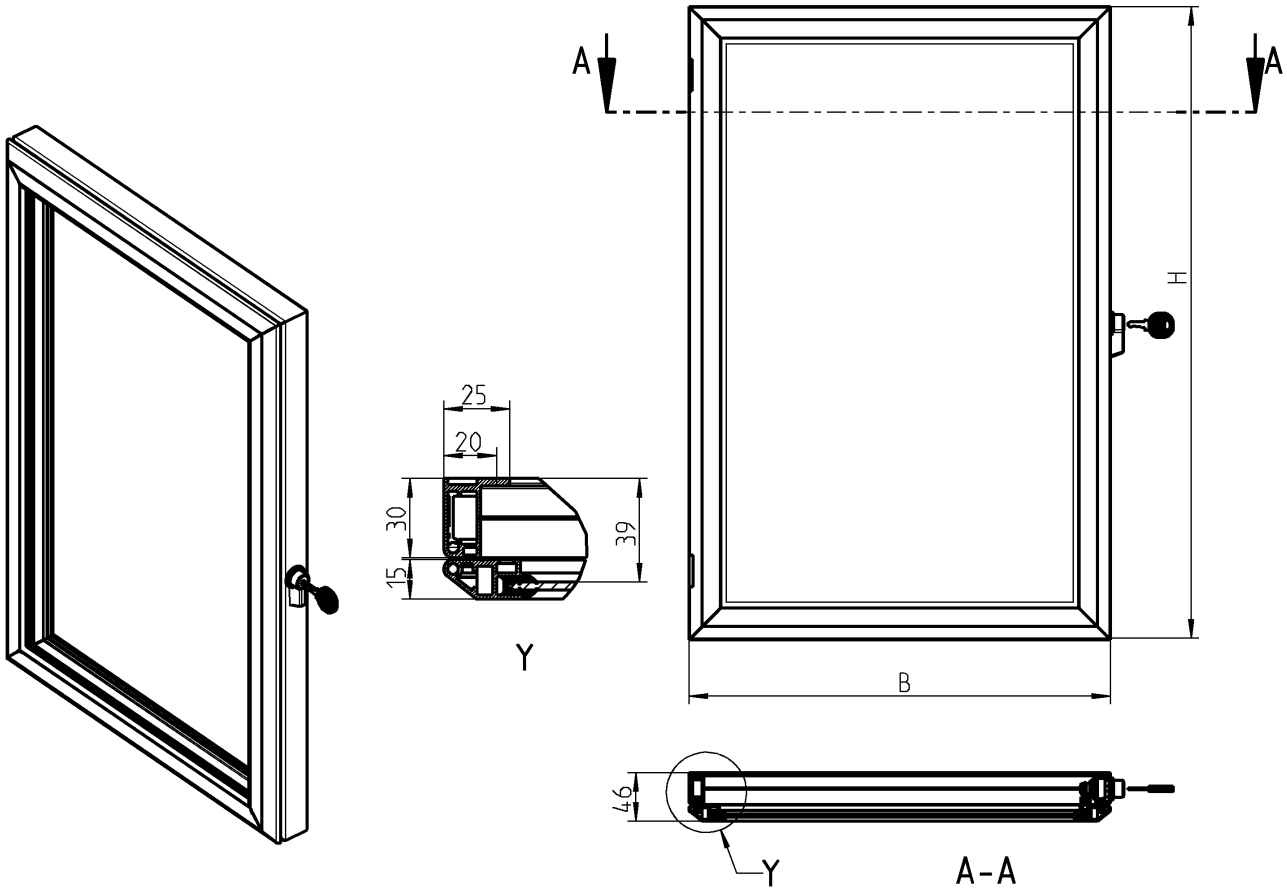
Aluminium window

PROGRAM 1200

**Aluminium window with 30 mm frame,
with side mounted wingknob**



Part number

B

Height in mm \ Width in mm	. . .	→700	→800
. . .	..... . / .	..... / .	..... . / .
→900	..... . / .	1200-U55-07 3/3	1200-U56-07 3/3
→1000	..... . / .	1200-U55-08 3/3	1200-U56-08 3/3

H

Number of locks

Number of hinges

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U5-07 620x840

If more than one lock necessary, only one will be keyed 2233X as standard. Keyed different on request.

For dimensions W and H, number of locks and hinges as well as part numbers, see opposite page.

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Aluminium window anodized aluminium, acrylic glass 3 mm thick, locks zinc die black powder coated, with gasketing

Height in mm \ Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
300←	1200-U1-01 1/2	1200-U2-01 1/2	1200-U3-01 1/2	1200-U4-01 1/2	1200-U5-01 1/2				
→400	1200-U1-02 1/2	1200-U2-02 1/2	1200-U3-02 1/2	1200-U4-02 1/2	1200-U5-02 1/2				
→500	1200-U1-03 1/2	1200-U2-03 1/2	1200-U3-03 1/2	1200-U4-03 1/2	1200-U5-03 1/2				
→600	1200-U1-04 1/2	1200-U2-04 1/2	1200-U3-04 1/2	1200-U4-04 1/2	1200-U5-04 2/2				
→700	1200-U1-05 1/2	1200-U2-05 1/2	1200-U3-05 2/2	1200-U4-05 2/2	1200-U5-05 2/2	1200-U6-05 2/2			
→800	1200-U1-06 1/2	1200-U2-06 1/2	1200-U3-06 2/2	1200-U4-06 2/2	1200-U5-06 2/2	1200-U6-06 2/2			
→900	1200-U1-07 2/3	1200-U2-07 2/3	1200-U3-07 2/3	1200-U4-07 2/3	1200-U5-07 3/3	1200-U6-07 3/3	1200-U7-07 3/3		
→1000	1200-U1-08 2/3	1200-U2-08 2/3	1200-U3-08 2/3	1200-U4-08 2/3	1200-U5-08 3/3	1200-U6-08 3/3	1200-U7-08 3/3	1200-U8-08 3/3	
→1100		1200-U2-09 2/3	1200-U3-09 2/3	1200-U4-09 2/3	1200-U5-09 3/3	1200-U6-09 3/3	1200-U7-09 3/3	1200-U8-09 3/3	
→1200		1200-U2-10 2/3	1200-U3-10 2/3	1200-U4-10 2/3	1200-U5-10 3/3	1200-U6-10 3/3	1200-U7-10 3/3	1200-U8-10 3/3	
→1300			1200-U3-11 3/3	1200-U4-11 3/3	1200-U5-11 3/3	1200-U6-11 3/3	1200-U7-11 3/3	1200-U8-11 3/3	
→1400			1200-U3-12 3/3	1200-U4-12 3/3	1200-U5-12 3/3	1200-U6-12 3/3	1200-U7-12 3/3	1200-U8-12 3/3	
→1500			1200-U3-13 3/3	1200-U4-13 3/3	1200-U5-13 3/3	1200-U6-13 3/3	1200-U7-13 3/3	1200-U8-13 3/3	
→1600			1200-U3-14 3/3	1200-U4-14 3/3	1200-U5-14 3/3	1200-U6-14 3/3	1200-U7-14 3/3	1200-U8-14 3/3	
→1700				1200-U4-15 3/4	1200-U5-15 3/4	1200-U6-15 3/4	1200-U7-15 3/4	1200-U8-15 3/4	
→1800				1200-U4-16 3/4	1200-U5-16 3/4	1200-U6-16 3/4	1200-U7-16 3/4	1200-U8-16 3/4	
→1900					1200-U5-17 3/4	1200-U6-17 3/4	1200-U7-17 3/4	1200-U8-17 3/4	
→2000					1200-U5-18 3/4	1200-U6-18 3/4	1200-U7-18 3/4	1200-U8-18 3/4	

Opening angle 180°

Information:
Polycarbonate glass (for outdoor application) or safety glass on request.
The framed articles are available with safety glass.

Can be assembled with gas springs on request

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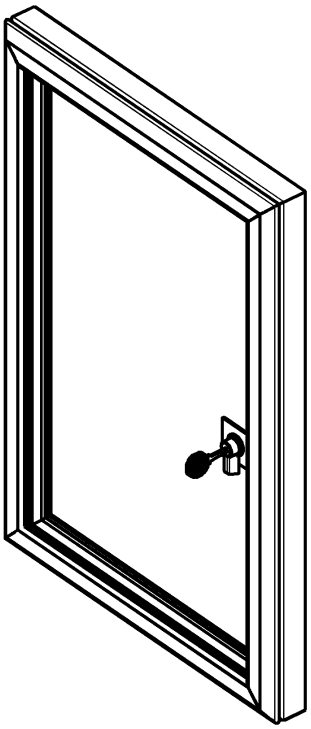
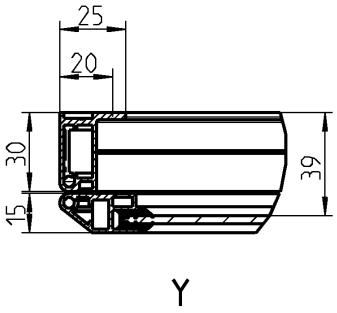
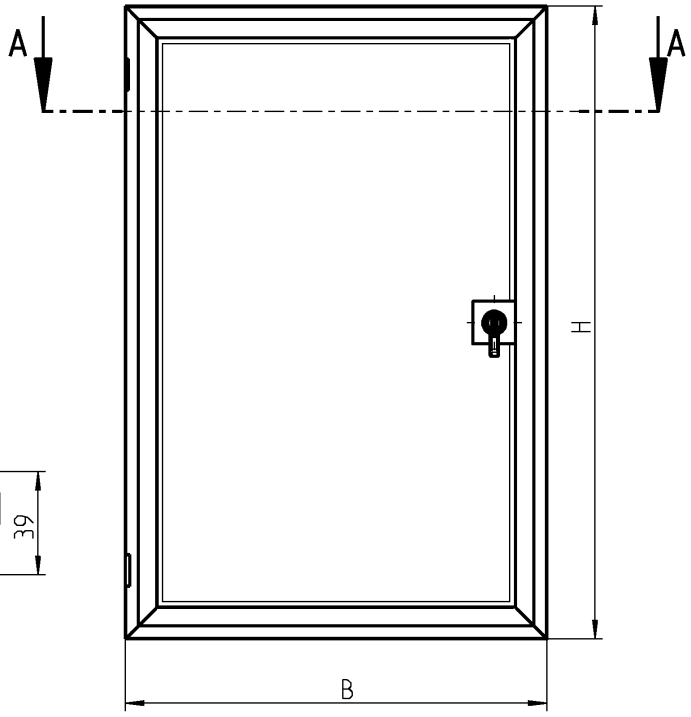
Aluminium window

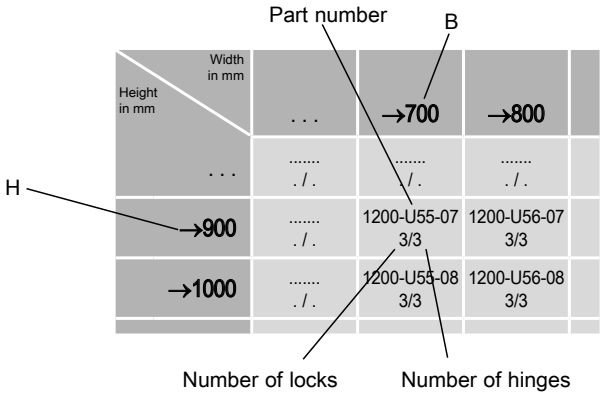
PROGRAM 1200

**Aluminium window with 30 mm frame,
with front mounted wingknob**









Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U15-07 620x840

If more than one lock necessary, only one will be keyed 2233X as standard. Keyed different on request.

For dimensions W and H, number of locks and hinges as well as part numbers, see opposite page.

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Anodized aluminium window, polycarbonate glass 3 mm thick, lock zinc die black powder coated, with seal

Height in mm \ Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
300←	1200-U11-01 1/2	1200-U12-01 1/2	1200-U13-01 1/2	1200-U14-01 1/2	1200-U15-01 1/2				
→400	1200-U11-02 1/2	1200-U12-02 1/2	1200-U13-02 1/2	1200-U14-02 1/2	1200-U15-02 1/2				
→500	1200-U11-03 1/2	1200-U12-03 1/2	1200-U13-03 1/2	1200-U14-03 1/2	1200-U15-03 1/2				
→600	1200-U11-04 1/2	1200-U12-04 1/2	1200-U13-04 1/2	1200-U14-04 1/2	1200-U15-04 2/2				
→700	1200-U11-05 1/2	1200-U12-05 1/2	1200-U13-05 2/2	1200-U14-05 2/2	1200-U15-05 2/2	1200-U16-05 2/2			
→800	1200-U11-06 1/2	1200-U12-06 1/2	1200-U13-06 2/2	1200-U14-06 2/2	1200-U15-06 2/2	1200-U16-06 2/2			
→900	1200-U11-07 2/3	1200-U12-07 2/3	1200-U13-07 2/3	1200-U14-07 2/3	1200-U15-07 3/3	1200-U16-07 3/3	1200-U17-07 3/3		
→1000	1200-U11-08 2/3	1200-U12-08 2/3	1200-U13-08 2/3	1200-U14-08 2/3	1200-U15-08 3/3	1200-U16-08 3/3	1200-U17-08 3/3	1200-U18-08 3/3	
→1100		1200-U12-09 2/3	1200-U13-09 2/3	1200-U14-09 2/3	1200-U15-09 3/3	1200-U16-09 3/3	1200-U17-09 3/3	1200-U18-09 3/3	
→1200		1200-U12-10 2/3	1200-U13-10 2/3	1200-U14-10 2/3	1200-U15-10 3/3	1200-U16-10 3/3	1200-U17-10 3/3	1200-U18-10 3/3	
→1300			1200-U13-11 3/3	1200-U14-11 3/3	1200-U15-11 3/3	1200-U16-11 3/3	1200-U17-11 3/3	1200-U18-11 3/3	
→1400			1200-U13-12 3/3	1200-U14-12 3/3	1200-U15-12 3/3	1200-U16-12 3/3	1200-U17-12 3/3	1200-U18-12 3/3	
→1500			1200-U13-13 3/3	1200-U14-13 3/3	1200-U15-13 3/3	1200-U16-13 3/3	1200-U17-13 3/3	1200-U18-13 3/3	
→1600			1200-U13-14 3/3	1200-U14-14 3/3	1200-U15-14 3/3	1200-U16-14 3/3	1200-U17-14 3/3	1200-U18-14 3/3	
→1700				1200-U14-15 3/4	1200-U15-15 3/4	1200-U16-15 3/4	1200-U17-15 3/4	1200-U18-15 3/4	
→1800				1200-U14-16 3/4	1200-U15-16 3/4	1200-U16-16 3/4	1200-U17-16 3/4	1200-U18-16 3/4	
→1900					1200-U15-17 3/4	1200-U16-17 3/4	1200-U17-17 3/4	1200-U18-17 3/4	
→2000					1200-U15-18 3/4	1200-U16-18 3/4	1200-U17-18 3/4	1200-U18-18 3/4	

Opening angle 140°

Information:
The framed articles are available on request with safety glass.

Can be assembled with gas springs on request

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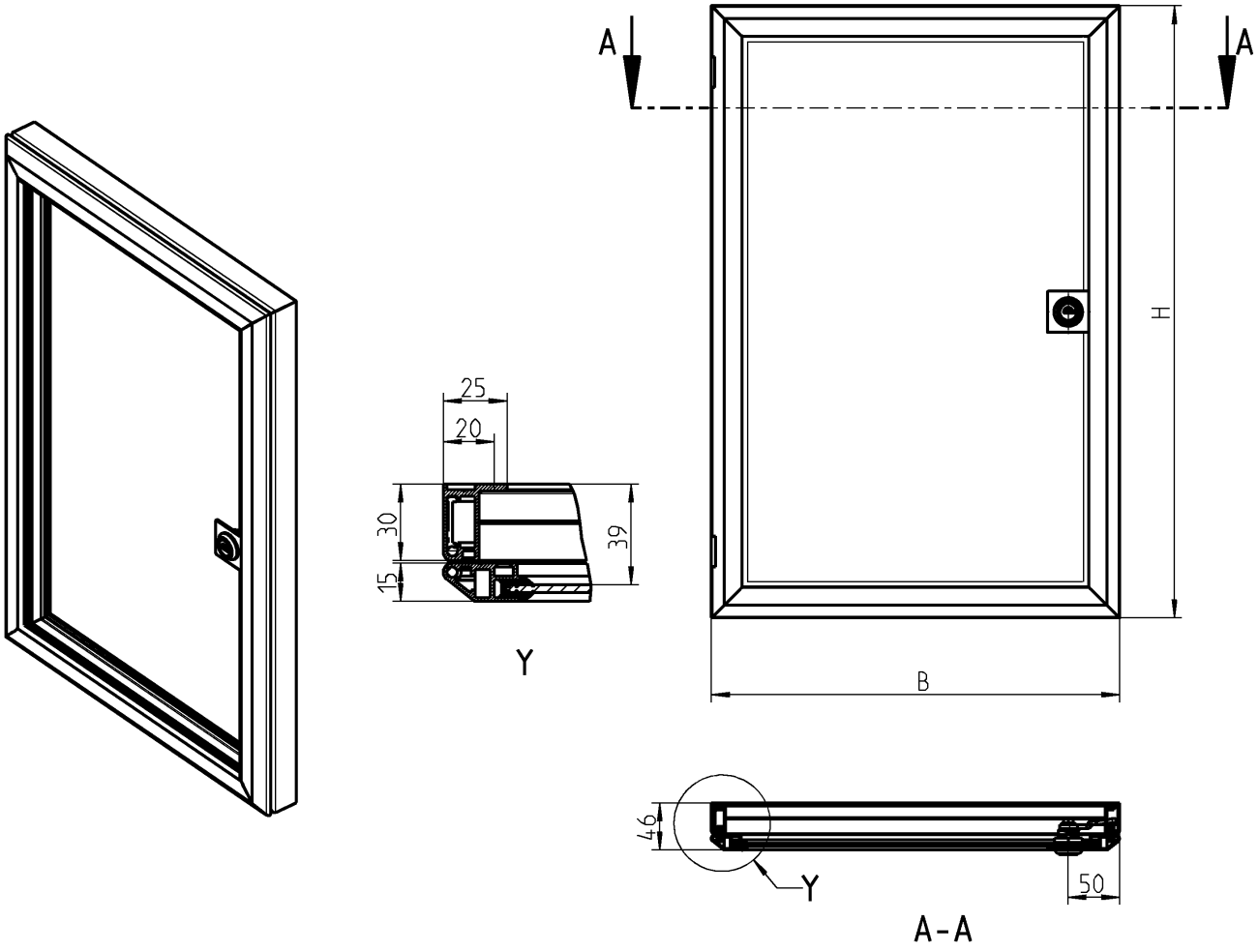
Aluminium window

PROGRAM 1200

**Aluminium window with 30 mm frame,
with front mounted cylinder lock**



Part number

B

Height in mm \ Width in mm	. . .	→700	→800
. . .	..... . / .	..... / .	..... . / .
→900	..... . / .	1200-U55-07 3/3	1200-U56-07 3/3
→1000	..... . / .	1200-U55-08 3/3	1200-U56-08 3/3

H

Number of locks

Number of hinges

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U25-07 620x840

Keyed EK333.
Keyed different on request.

For dimensions W and H, number of locks and hinges as well as part numbers, see opposite page.

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Anodized aluminium window, polycarbonate glass 3 mm thick, lock zinc die black powder coated, with seal

Height in mm \ Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
300←	1200-U21-01 1/2	1200-U22-01 1/2	1200-U23-01 1/2	1200-U24-01 1/2	1200-U25-01 1/2				
→400	1200-U21-02 1/2	1200-U22-02 1/2	1200-U23-02 1/2	1200-U24-02 1/2	1200-U25-02 1/2				
→500	1200-U21-03 1/2	1200-U22-03 1/2	1200-U23-03 1/2	1200-U24-03 1/2	1200-U25-03 1/2				
→600	1200-U21-04 1/2	1200-U22-04 1/2	1200-U23-04 1/2	1200-U24-04 1/2	1200-U25-04 2/2				
→700	1200-U21-05 1/2	1200-U22-05 1/2	1200-U23-05 2/2	1200-U24-05 2/2	1200-U25-05 2/2	1200-U26-05 2/2			
→800	1200-U21-06 1/2	1200-U22-06 1/2	1200-U23-06 2/2	1200-U24-06 2/2	1200-U25-06 2/2	1200-U26-06 2/2			
→900	1200-U21-07 2/3	1200-U22-07 2/3	1200-U23-07 2/3	1200-U24-07 2/3	1200-U25-07 3/3	1200-U26-07 3/3	1200-U27-07 3/3		
→1000	1200-U21-08 2/3	1200-U22-08 2/3	1200-U23-08 2/3	1200-U24-08 2/3	1200-U25-08 3/3	1200-U26-08 3/3	1200-U27-08 3/3	1200-U28-08 3/3	
→1100		1200-U22-09 2/3	1200-U23-09 2/3	1200-U24-09 2/3	1200-U25-09 3/3	1200-U26-09 3/3	1200-U27-09 3/3	1200-U28-09 3/3	
→1200		1200-U22-10 2/3	1200-U23-10 2/3	1200-U24-10 2/3	1200-U25-10 3/3	1200-U26-10 3/3	1200-U27-10 3/3	1200-U28-10 3/3	
→1300			1200-U23-11 3/3	1200-U24-11 3/3	1200-U25-11 3/3	1200-U26-11 3/3	1200-U27-11 3/3	1200-U28-11 3/3	
→1400			1200-U23-12 3/3	1200-U24-12 3/3	1200-U25-12 3/3	1200-U26-12 3/3	1200-U27-12 3/3	1200-U28-12 3/3	
→1500			1200-U23-13 3/3	1200-U24-13 3/3	1200-U25-13 3/3	1200-U26-13 3/3	1200-U27-13 3/3	1200-U28-13 3/3	
→1600			1200-U23-14 3/3	1200-U24-14 3/3	1200-U25-14 3/3	1200-U26-14 3/3	1200-U27-14 3/3	1200-U28-14 3/3	
→1700				1200-U24-15 3/4	1200-U25-15 3/4	1200-U26-15 3/4	1200-U27-15 3/4	1200-U28-15 3/4	
→1800				1200-U24-16 3/4	1200-U25-16 3/4	1200-U26-16 3/4	1200-U27-16 3/4	1200-U28-16 3/4	
→1900					1200-U25-17 3/4	1200-U26-17 3/4	1200-U27-17 3/4	1200-U28-17 3/4	
→2000					1200-U25-18 3/4	1200-U26-18 3/4	1200-U27-18 3/4	1200-U28-18 3/4	

Opening angle 180°

Information:
The framed articles are available on request with safety glass.

Can be assembled with gas springs on request

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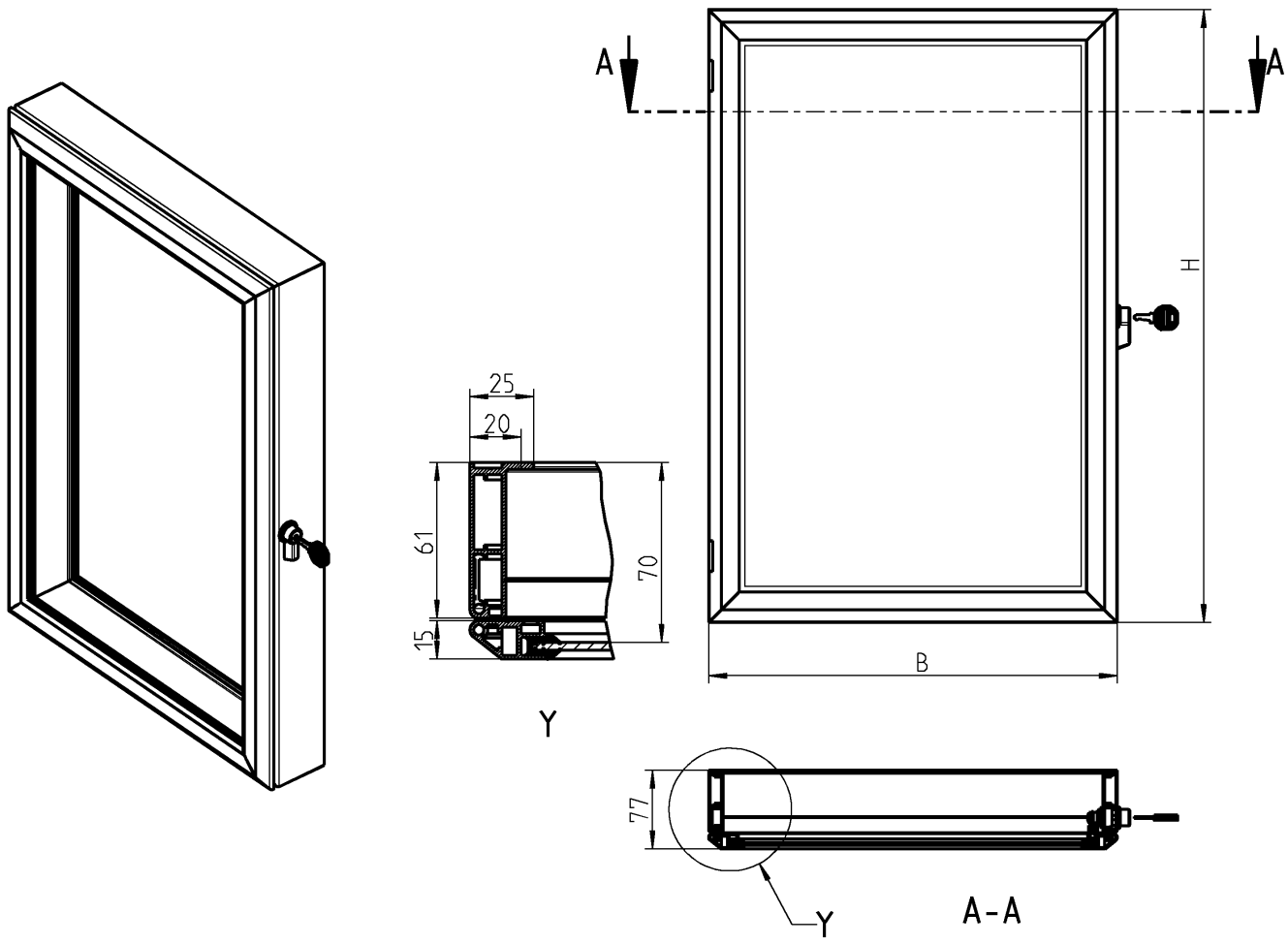
Aluminium window

PROGRAM 1200

**Aluminium window with 61 mm frame,
with side-mounted wing knob**



Part number

B

Height in mm \ Width in mm	. . .	→700	→800
. . .	..... . / .	..... / .	..... . / .
→900	..... . / .	1200-U55-07 3/3	1200-U56-07 3/3
→1000	..... . / .	1200-U55-08 3/3	1200-U56-08 3/3

H

Number of locks

Number of hinges

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U35-07 620x840

If more than one lock is necessary, only one will be keyed 2233X as standard. Keyed different on request.

For dimensions W and H, number of locks and hinges as well as part numbers, see opposite page.

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Aluminium window anodized aluminium, acrylic glass 3 mm thick, locks zinc die black powder coated, with gasketing

Height in mm \ Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
300←	1200-U31-01 1/2	1200-U32-01 1/2	1200-U33-01 1/2	1200-U34-01 1/2	1200-U35-01 1/2				
→400	1200-U31-02 1/2	1200-U32-02 1/2	1200-U33-02 1/2	1200-U34-02 1/2	1200-U35-02 1/2				
→500	1200-U31-03 1/2	1200-U32-03 1/2	1200-U33-03 1/2	1200-U34-03 1/2	1200-U35-03 1/2				
→600	1200-U31-04 1/2	1200-U32-04 1/2	1200-U33-04 1/2	1200-U34-04 1/2	1200-U35-04 2/2				
→700	1200-U31-05 1/2	1200-U32-05 1/2	1200-U33-05 2/2	1200-U34-05 2/2	1200-U35-05 2/2	1200-U36-05 2/2			
→800	1200-U31-06 1/2	1200-U32-06 1/2	1200-U33-06 2/2	1200-U34-06 2/2	1200-U35-06 2/2	1200-U36-06 2/2			
→900	1200-U31-07 2/3	1200-U32-07 2/3	1200-U33-07 2/3	1200-U34-07 2/3	1200-U35-07 3/3	1200-U36-07 3/3	1200-U37-07 3/3		
→1000	1200-U31-08 2/3	1200-U32-08 2/3	1200-U33-08 2/3	1200-U34-08 2/3	1200-U35-08 3/3	1200-U36-08 3/3	1200-U37-08 3/3	1200-U38-08 3/3	
→1100		1200-U32-09 2/3	1200-U33-09 2/3	1200-U34-09 2/3	1200-U35-09 3/3	1200-U36-09 3/3	1200-U37-09 3/3	1200-U38-09 3/3	
→1200		1200-U32-10 2/3	1200-U33-10 2/3	1200-U34-10 2/3	1200-U35-10 3/3	1200-U36-10 3/3	1200-U37-10 3/3	1200-U38-10 3/3	
→1300			1200-U33-11 3/3	1200-U34-11 3/3	1200-U35-11 3/3	1200-U36-11 3/3	1200-U37-11 3/3	1200-U38-11 3/3	
→1400			1200-U33-12 3/3	1200-U34-12 3/3	1200-U35-12 3/3	1200-U36-12 3/3	1200-U37-12 3/3	1200-U38-12 3/3	
→1500			1200-U33-13 3/3	1200-U34-13 3/3	1200-U35-13 3/3	1200-U36-13 3/3	1200-U37-13 3/3	1200-U38-13 3/3	
→1600			1200-U33-14 3/3	1200-U34-14 3/3	1200-U35-14 3/3	1200-U36-14 3/3	1200-U37-14 3/3	1200-U38-14 3/3	
→1700				1200-U34-15 3/4	1200-U35-15 3/4	1200-U36-15 3/4	1200-U37-15 3/4	1200-U38-15 3/4	
→1800				1200-U34-16 3/4	1200-U35-16 3/4	1200-U36-16 3/4	1200-U37-16 3/4	1200-U38-16 3/4	
→1900					1200-U35-17 3/4	1200-U36-17 3/4	1200-U37-17 3/4	1200-U38-17 3/4	
→2000					1200-U35-18 3/4	1200-U36-18 3/4	1200-U37-18 3/4	1200-U38-18 3/4	

Opening angle 180°

Information:
Polycarbonate glass (for outdoor application) or safety glass on request.
The framed articles are available with safety glass.

Can be assembled with gas springs on request

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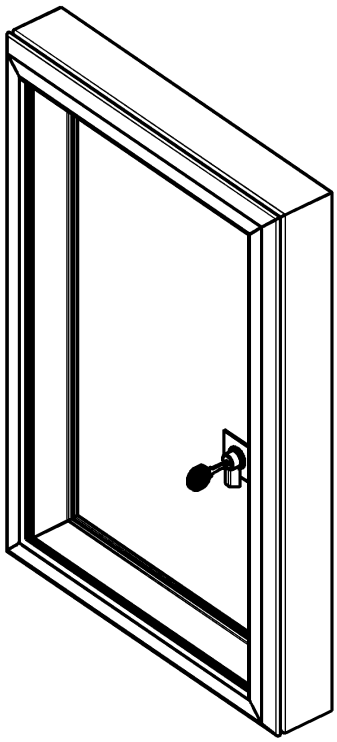
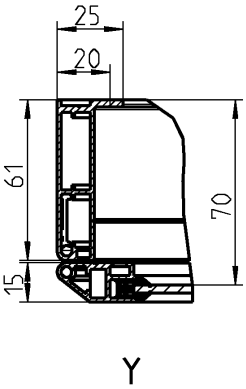
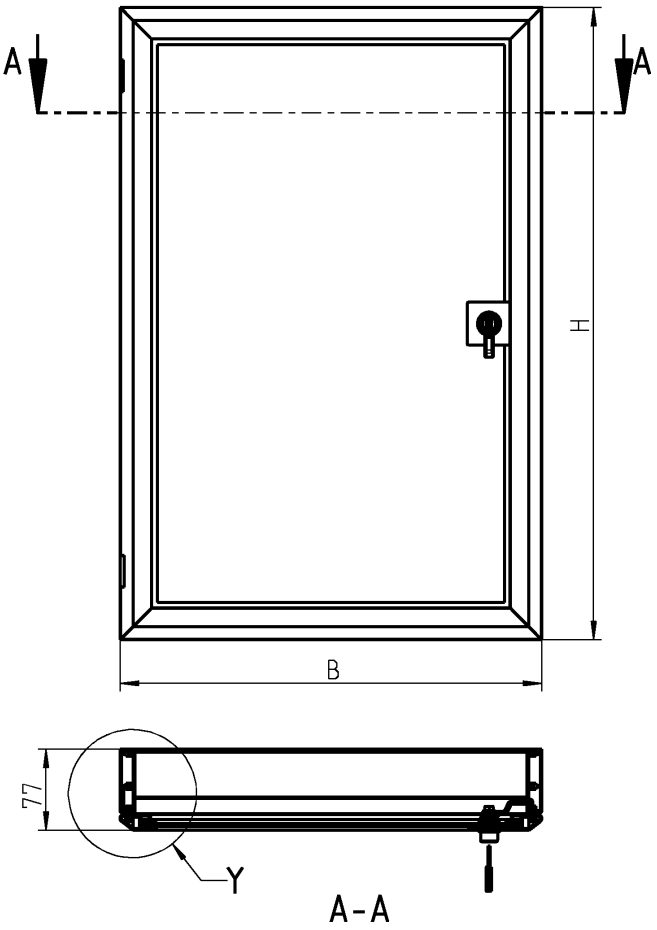
Aluminium window

PROGRAM 1200

**Aluminium window with 61 mm frame,
with front-mounted wingknob**







Part number

B

Height in mm \ Width in mm	. . .	→700	→800	
. . .	..... . / .	..... . / .	..... . / .	
→900	..... . / .	1200-U55-07 3/3	1200-U56-07 3/3	
→1000	..... . / .	1200-U55-08 3/3	1200-U56-08 3/3	

H

Number of locks

Number of hinges

Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U45-07 620x840

If more than one lock necessary, only one will be keyed 2233X as standard. Keyed different on request.

For dimensions W and H, number of locks and hinges as well as part numbers, see opposite page.

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Anodized aluminium window, polycarbonate glass 3 mm thick, lock zinc die black powder coated, with seal

Height in mm \ Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
300←	1200-U41-01 1/2	1200-U42-01 1/2	1200-U43-01 1/2	1200-U44-01 1/2	1200-U45-01 1/2				
→400	1200-U41-02 1/2	1200-U42-02 1/2	1200-U43-02 1/2	1200-U44-02 1/2	1200-U45-02 1/2				
→500	1200-U41-03 1/2	1200-U42-03 1/2	1200-U43-03 1/2	1200-U44-03 1/2	1200-U45-03 1/2				
→600	1200-U41-04 1/2	1200-U42-04 1/2	1200-U43-04 1/2	1200-U44-04 1/2	1200-U45-04 2/2				
→700	1200-U41-05 1/2	1200-U42-05 1/2	1200-U43-05 2/2	1200-U44-05 2/2	1200-U45-05 2/2	1200-U46-05 2/2			
→800	1200-U41-06 1/2	1200-U42-06 1/2	1200-U43-06 2/2	1200-U44-06 2/2	1200-U45-06 2/2	1200-U46-06 2/2			
→900	1200-U41-07 2/3	1200-U42-07 2/3	1200-U43-07 2/3	1200-U44-07 2/3	1200-U45-07 3/3	1200-U46-07 3/3	1200-U47-07 3/3		
→1000	1200-U41-08 2/3	1200-U42-08 2/3	1200-U43-08 2/3	1200-U44-08 2/3	1200-U45-08 3/3	1200-U46-08 3/3	1200-U47-08 3/3	1200-U48-08 3/3	
→1100		1200-U42-09 2/3	1200-U43-09 2/3	1200-U44-09 2/3	1200-U45-09 3/3	1200-U46-09 3/3	1200-U47-09 3/3	1200-U48-09 3/3	
→1200		1200-U42-10 2/3	1200-U43-10 2/3	1200-U44-10 2/3	1200-U45-10 3/3	1200-U46-10 3/3	1200-U47-10 3/3	1200-U48-10 3/3	
→1300			1200-U43-11 3/3	1200-U44-11 3/3	1200-U45-11 3/3	1200-U46-11 3/3	1200-U47-11 3/3	1200-U48-11 3/3	
→1400			1200-U43-12 3/3	1200-U44-12 3/3	1200-U45-12 3/3	1200-U46-12 3/3	1200-U47-12 3/3	1200-U48-12 3/3	
→1500			1200-U43-13 3/3	1200-U44-13 3/3	1200-U45-13 3/3	1200-U46-13 3/3	1200-U47-13 3/3	1200-U48-13 3/3	
→1600			1200-U43-14 3/3	1200-U44-14 3/3	1200-U45-14 3/3	1200-U46-14 3/3	1200-U47-14 3/3	1200-U48-14 3/3	
→1700				1200-U44-15 3/4	1200-U45-15 3/4	1200-U46-15 3/4	1200-U47-15 3/4	1200-U48-15 3/4	
→1800				1200-U44-16 3/4	1200-U45-16 3/4	1200-U46-16 3/4	1200-U47-16 3/4	1200-U48-16 3/4	
→1900					1200-U45-17 3/4	1200-U46-17 3/4	1200-U47-17 3/4	1200-U48-17 3/4	
→2000					1200-U45-18 3/4	1200-U46-18 3/4	1200-U47-18 3/4	1200-U48-18 3/4	

Opening angle 180°

Information:
The framed articles are available on request with safety glass.

Can be assembled with gas springs on request

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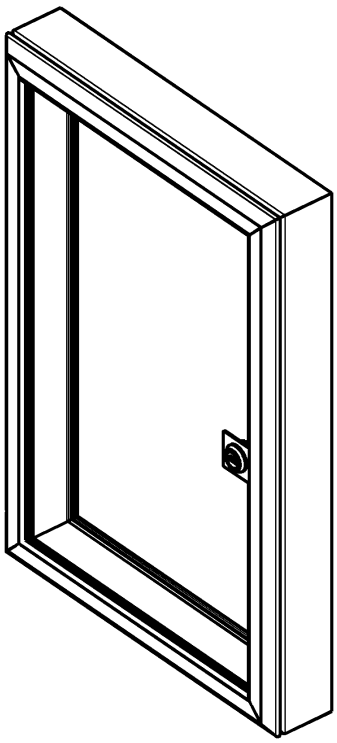
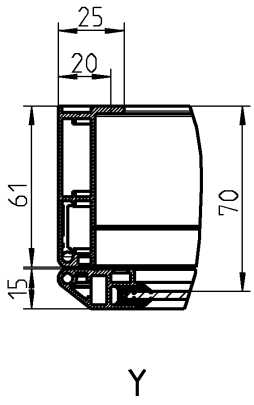
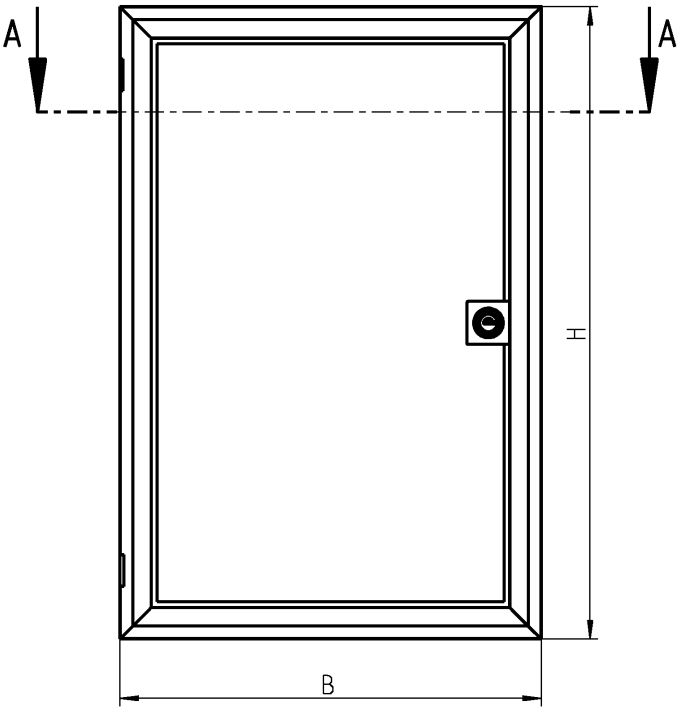
Aluminium window

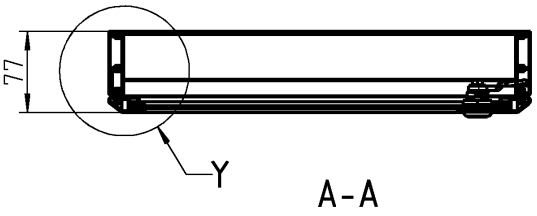
PROGRAM 1200

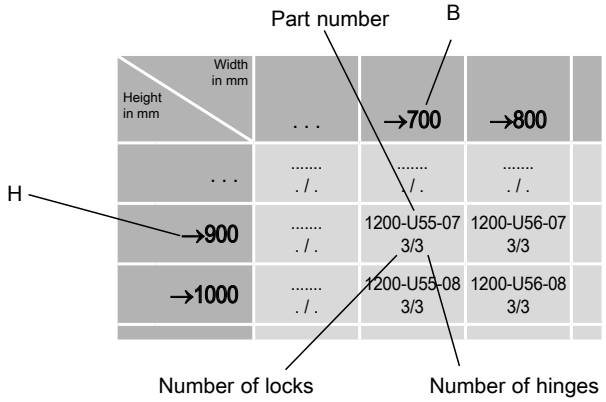
**Aluminium window with 61 mm frame,
with front-mounted cylinder lock**











Order example:
The request is for a window with the dimensions:
W = 620 mm, H = 840 mm.
Part number 1200-U55-07 620x840

Keyed EK333.
Keyed different on request.

For dimensions W and H, number of locks and hinges as well as part numbers, see opposite page.

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Anodized aluminium window, polycarbonate glass 3 mm thick, lock zinc die black powder coated, with seal

Height in mm \ Width in mm	300←	→400	→500	→600	→700	→800	→900	→1000	
300←	1200-U51-01 1/2	1200-U52-01 1/2	1200-U53-01 1/2	1200-U54-01 1/2	1200-U55-01 1/2				
→400	1200-U51-02 1/2	1200-U52-02 1/2	1200-U53-02 1/2	1200-U54-02 1/2	1200-U55-02 1/2				
→500	1200-U51-03 1/2	1200-U52-03 1/2	1200-U53-03 1/2	1200-U54-03 1/2	1200-U55-03 1/2				
→600	1200-U51-04 1/2	1200-U52-04 1/2	1200-U53-04 1/2	1200-U54-04 1/2	1200-U55-04 2/2				
→700	1200-U51-05 1/2	1200-U52-05 1/2	1200-U53-05 2/2	1200-U54-05 2/2	1200-U55-05 2/2	1200-U56-05 2/2			
→800	1200-U51-06 1/2	1200-U52-06 1/2	1200-U53-06 2/2	1200-U54-06 2/2	1200-U55-06 2/2	1200-U56-06 2/2			
→900	1200-U51-07 2/3	1200-U52-07 2/3	1200-U53-07 2/3	1200-U54-07 2/3	1200-U55-07 3/3	1200-U56-07 3/3	1200-U57-07 3/3		
→1000	1200-U51-08 2/3	1200-U52-08 2/3	1200-U53-08 2/3	1200-U54-08 2/3	1200-U55-08 3/3	1200-U56-08 3/3	1200-U57-08 3/3	1200-U58-08 3/3	
→1100		1200-U52-09 2/3	1200-U53-09 2/3	1200-U54-09 2/3	1200-U55-09 3/3	1200-U56-09 3/3	1200-U57-09 3/3	1200-U58-09 3/3	
→1200		1200-U52-10 2/3	1200-U53-10 2/3	1200-U54-10 2/3	1200-U55-10 3/3	1200-U56-10 3/3	1200-U57-10 3/3	1200-U58-10 3/3	
→1300			1200-U53-11 3/3	1200-U54-11 3/3	1200-U55-11 3/3	1200-U56-11 3/3	1200-U57-11 3/3	1200-U58-11 3/3	
→1400			1200-U53-12 3/3	1200-U54-12 3/3	1200-U55-12 3/3	1200-U56-12 3/3	1200-U57-12 3/3	1200-U58-12 3/3	
→1500			1200-U53-13 3/3	1200-U54-13 3/3	1200-U55-13 3/3	1200-U56-13 3/3	1200-U57-13 3/3	1200-U58-13 3/3	
→1600			1200-U53-14 3/3	1200-U54-14 3/3	1200-U55-14 3/3	1200-U56-14 3/3	1200-U57-14 3/3	1200-U58-14 3/3	
→1700				1200-U54-15 3/4	1200-U55-15 3/4	1200-U56-15 3/4	1200-U57-15 3/4	1200-U58-15 3/4	
→1800				1200-U54-16 3/4	1200-U55-16 3/4	1200-U56-16 3/4	1200-U57-16 3/4	1200-U58-16 3/4	
→1900					1200-U55-17 3/4	1200-U56-17 3/4	1200-U57-17 3/4	1200-U58-17 3/4	
→2000					1200-U55-18 3/4	1200-U56-18 3/4	1200-U57-18 3/4	1200-U58-18 3/4	

Opening angle 180°

Information:
The framed articles are available on request with safety glass.

Can be assembled with gas springs on request

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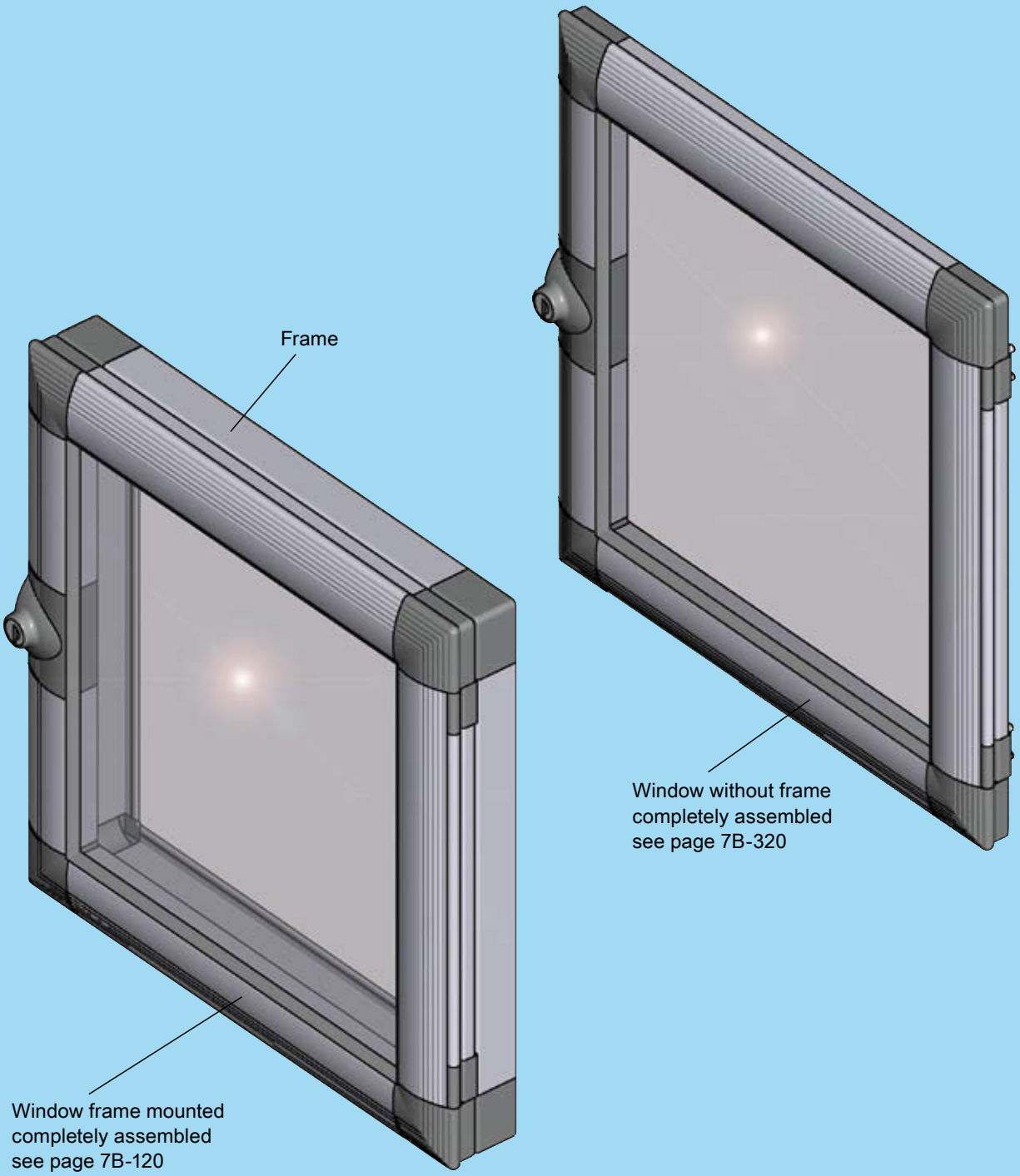
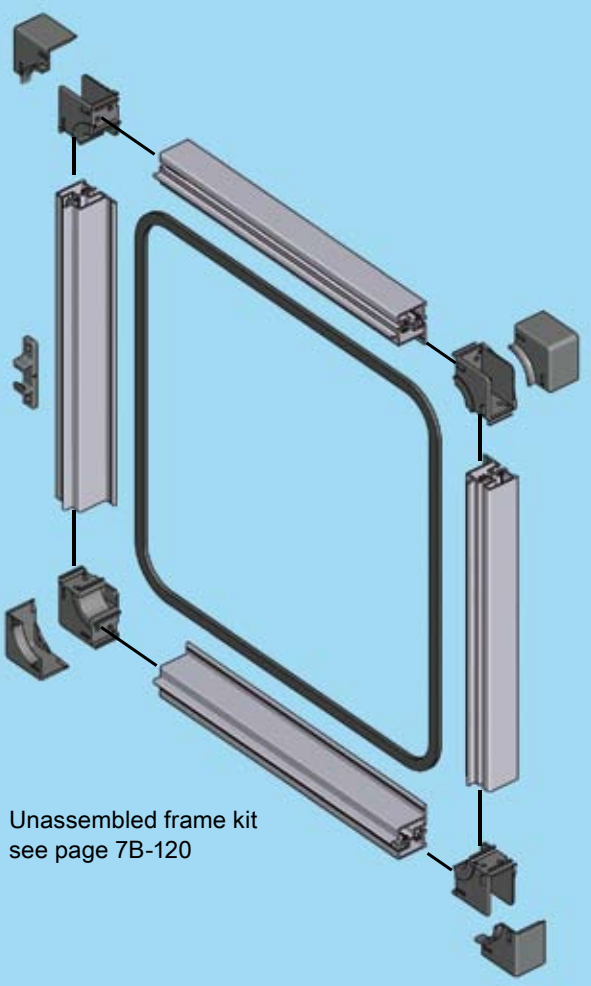
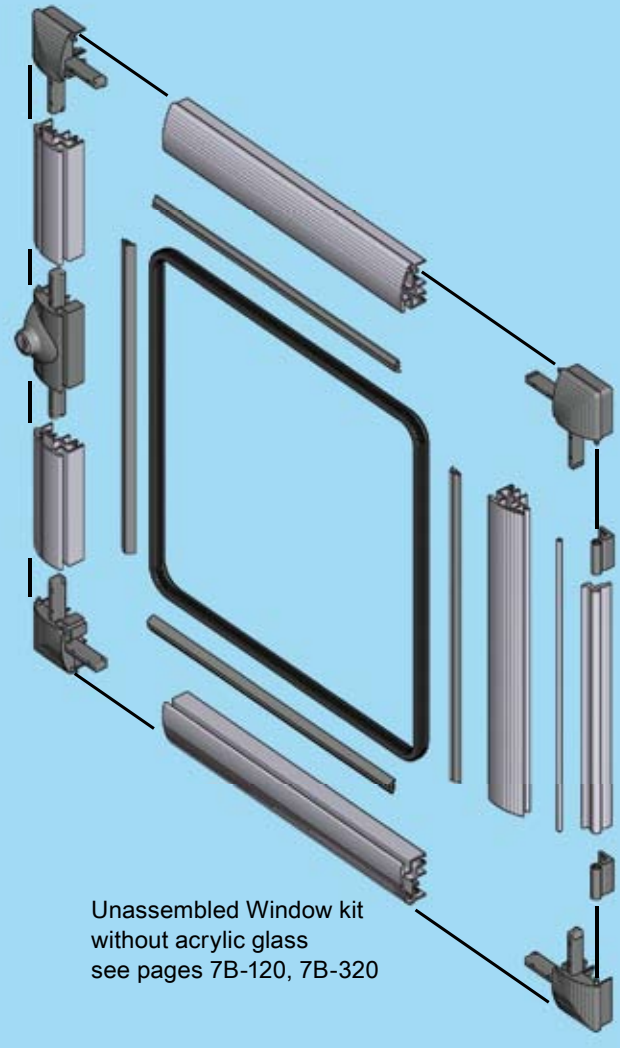
EMKA PRO*flex*
Aluminium window - with or without a frame
Program 1210



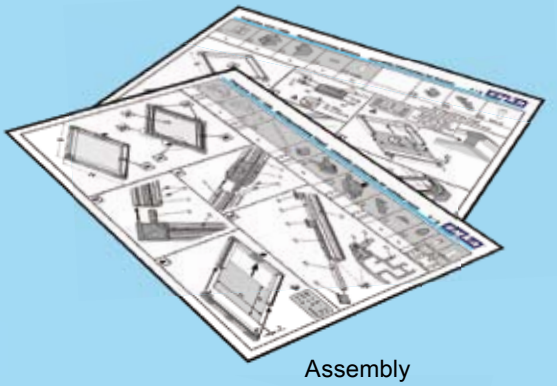
Aluminium window kit for self assembly



Unassembled frame kit
see page 7B-120



Unassembled Window kit
without acrylic glass
see pages 7B-120, 7B-320



Assembly
instruction

EMKA®

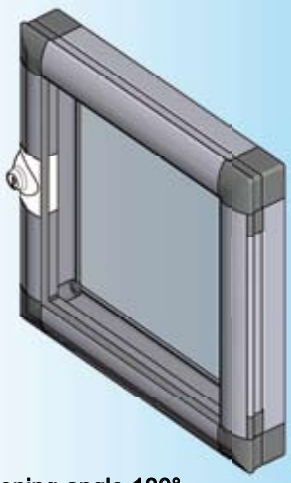
Beschlagteile

Aluminium window frame mounted 1210

PROGRAM 1210 EMKA PROflex

RL IP 65

Available fully assembled or as a kit



Opening angle 180°

IP rating: IP 65 on request

Attention:
Please specify locking option separately!
(see page 7B-220)

Information:

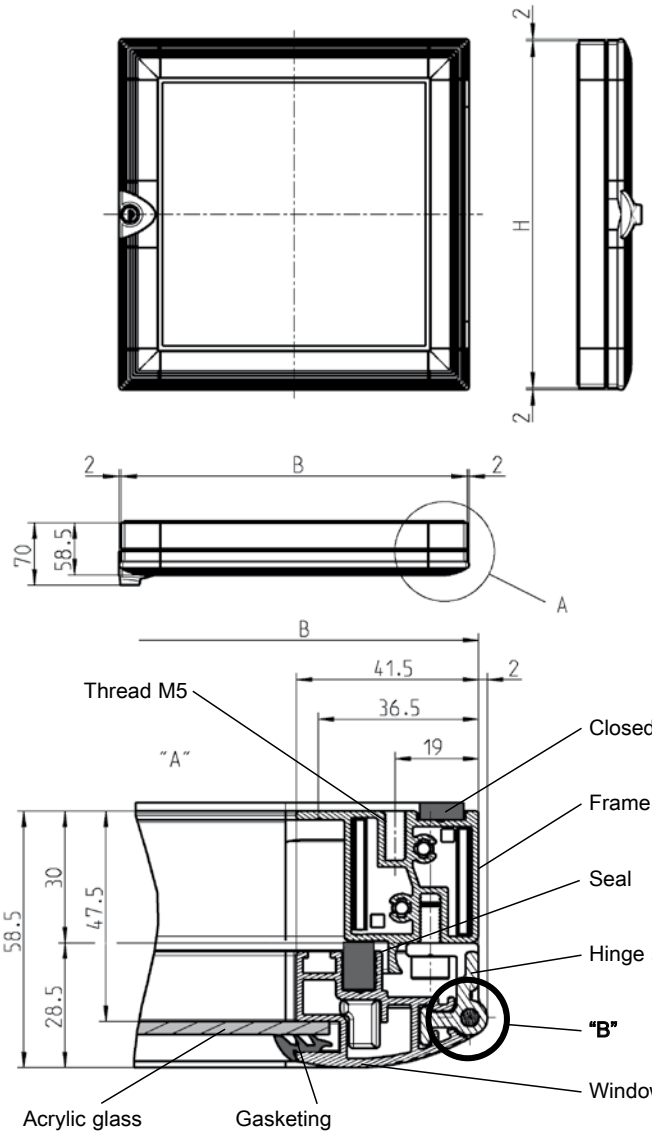
Thread M5 on rear side for mounting. Alternative mounting possible on front side.
(see page 7B-420)

Polycarbonate glass (for outdoor application) or safety glass on request.

Window sizes for applications with safety glass please see table on page 7B-520.

Window outer dimensions
Height from 300 to 2000 mm
Width from 200 to 1000 mm
Height - Side with hinge respectively lock.

Rear panels of 3.5 to 4 mm are possible!
Easy assembly.
Rear panel size
H minus 62 mm and
W minus 62 mm.



Order example:

Anodized aluminium window, corners and hinges zinc alloy black powder coated, caps polyamide black, hinge pin stainless steel, screws m. s. zinc plated, acrylic glass 3 mm, incl. gasketing and lock (please specify lock separately)

Please order:

Version 1: **Aluminium window assembled**
1210-U (Height) - (Width) = 1210-U 750-520

Version 2: **Aluminium window kit for self assembly**
1210-X (Height) - (Width) = 1210-X 750-520

Anodized aluminium window, corners and hinges zinc alloy black powder coated, caps polyamide black, hinge pin stainless steel, screws m. s. zinc plated, acrylic glass 3 mm, incl. gasketing and lock (please specify lock separately)	
Aluminium window assembled, incl. acrylic glass	1210-U ..... - ..... (see order example)
Aluminium window kit for self assembly, without acrylic glass including assembly instructions (Size calculation for 3 mm acrylic glass: H minus 65 mm and W minus 65 mm)	1210-X ..... - ..... (see order example)

Further parts see page
– Latch 7B-220
Mounting dimensions see page 7B-420
Further ordering details see page 7B-520

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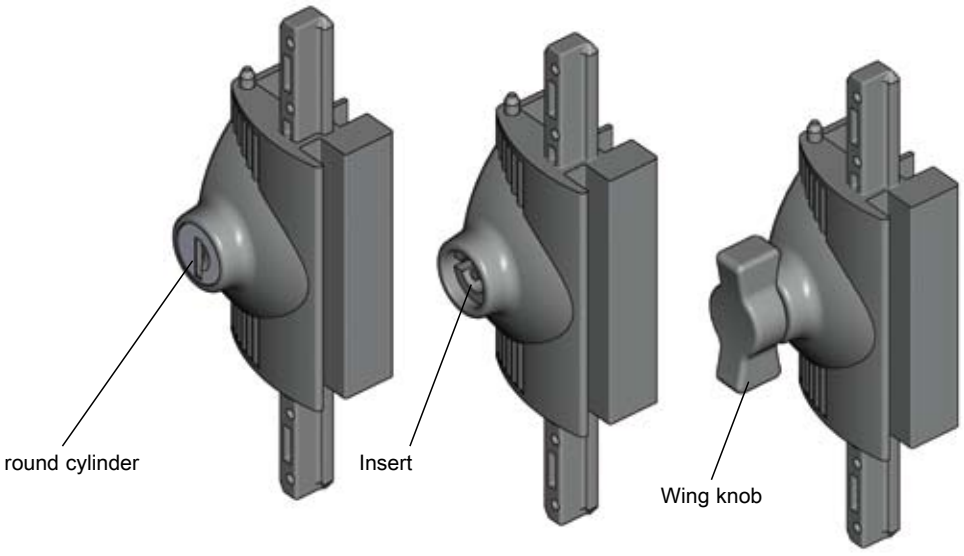
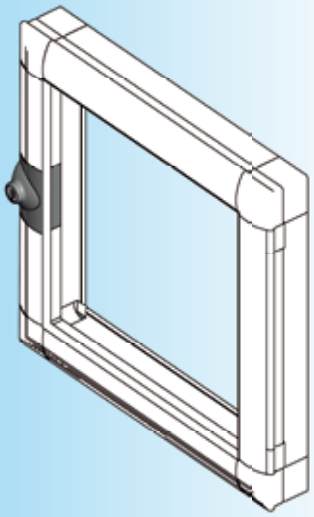
Aluminium window: Lock 1215

PROGRAM 1210 EMKA PROflex





Standard assembly of locks is for right-hand aluminium windows.

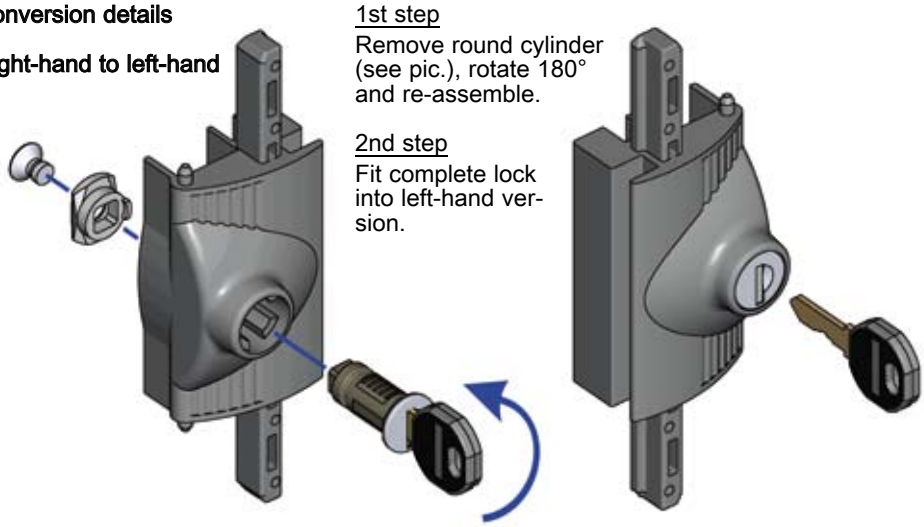
See conversion detail to change to left-hand version with round cylinder!

Conversion details

Right-hand to left-hand

1st step
Remove round cylinder (see pic.), rotate 180° and re-assemble.

2nd step
Fit complete lock into left-hand version.



Righ-hand version | Left-hand version

Ordering instructions:

Please only order one kind of lock:
the number of locks (1-3) depends on the size of the window!

Lock for aluminium window zinc alloy black powder coated, round cylinder with stainless steel cap and dust cap or insert zinc alloy black powder coated, cam zinc alloy raw, catch zinc alloy black powder coated, screws m. s. zinc plated. Each cylinder has one silver steel key with polyamide GF grip black.	
keyed EK 333	1215-U1
keyed different	1215-U1-V
Inserts	
Square 6	1215-U2-U322
Square 7	1215-U2-U323
Square 8	1215-U2-U324
Triangular 7	1215-U2-U325
Triangular 8	1215-U2-U326
Double bit 3	1215-U2-U327
Double bit 5	1215-U2-U328
Slot 2 x 4	1215-U2-U329
Slot 2 x 4 coinproof	1215-U2-U739
Wing knob	1215-U2-U78

Note:
Please order aluminium window separately!

Further parts see page
– Aluminium windows 7B-120
– Aluminium window without frame 7B-320

Further ordering details

see page 7B-520

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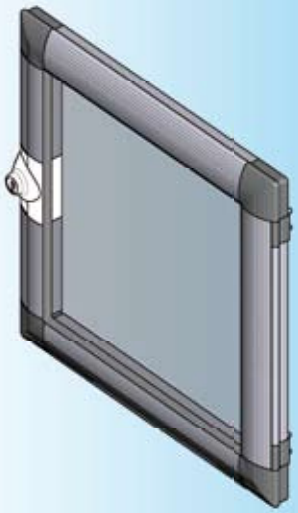
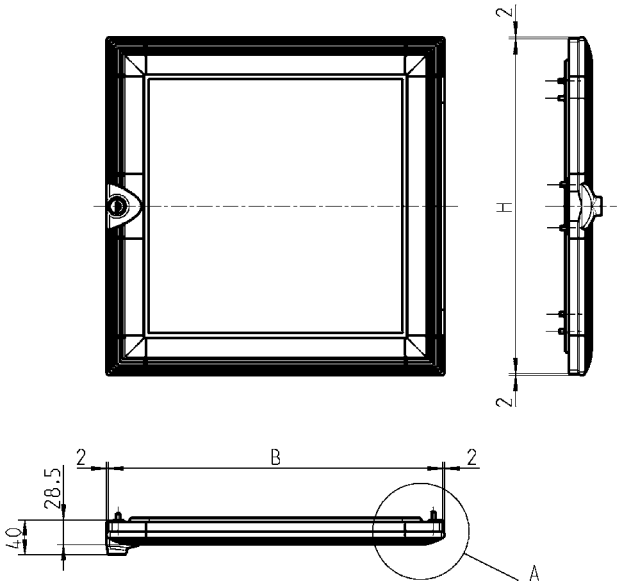
Aluminium window without frame 1220

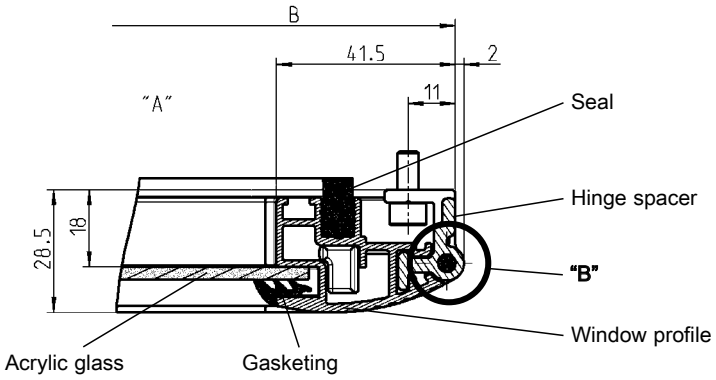
PROGRAM 1210 EMKA PROflex

RL IP 65

Available fully assembled or as a kit







Opening angle 180°

IP rating: IP 65 on request

Attention:
Please specify locking option separately!
(see page 7B-220)

Information:

Mounting alternatives see page 7B-420

Polycarbonate glass (for outdoor application) or safety glass on request.

Window sizes for applications with safety glass please see table on page 7B-520.

Window outer dimensions
Height from 300 to 2000 mm
Width from 200 to 1000 mm
Height - Side with hinge respectively lock.

A frame as shown on page 7B-120 can be retrofitted any time!

Order example:

The request is for a window without frame with dimensions H = 750 mm and W = 520 mm.
Attention: Please note 2 mm projection of window on all sides (see detail "B")!

Please order:

Version 1: Aluminium window assembled
1220-U (Height) - (Weidth) = 1220-U 750-520

Version 2: Aluminium window kit for self assembly
1220-X (Height) - (Weidth) = 1220-X 750-520

Further parts see page
– Latch 7B-220
Mounting dimensions see page 7B-420
Further ordering details see page 7B-520

Anodized aluminium window, corners and hinges zinc alloy black powder coated, hinge pin stainless steel, screws m. s. zinc plated, acrylic glass 3 mm, incl. gasketing and lock (please specify lock separately)	
Aluminium window assembled, incl. acrylic glass	1220-U ..... - ..... (see order example)
Aluminium window kit for self assembly without acrylic glass including assembly instructions (see order example) (Size calculation for 3 mm acrylic glass: H minus 65 mm and W minus 65 mm)	1220-X ..... - ..... (see order example)

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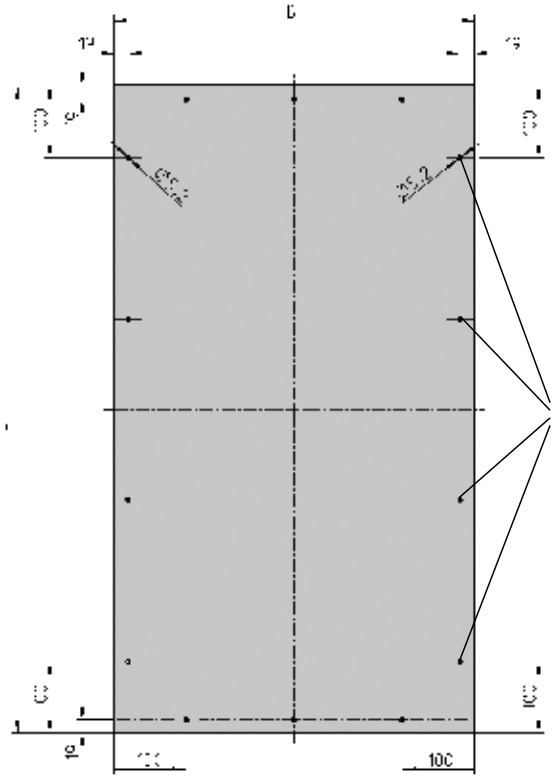
Mounting specification for 1210 and 1220

PROGRAM 1210 EMKA PROflex

Mounting specification for aluminium window with frame 1210:
Rear mounting.

More mounting points depending on size of window and according to client requests.



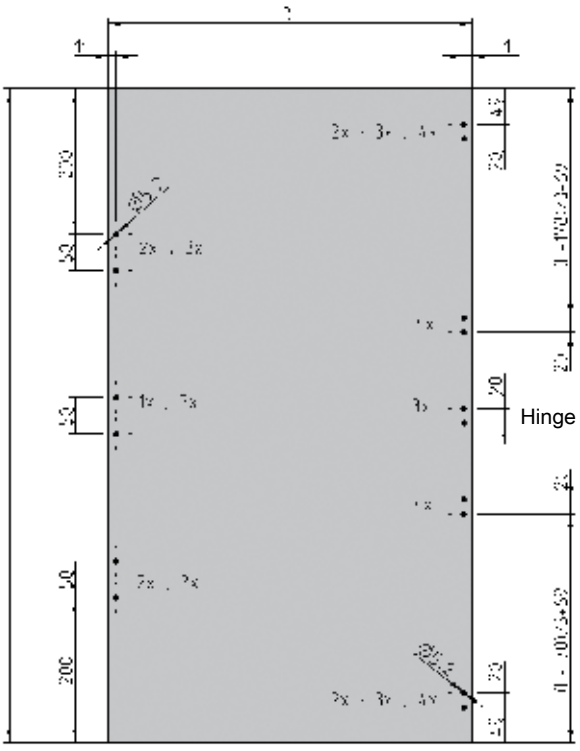
Distance between mounting points approx.

250 mm in to M5 thread gutter

Attention:
max. torque for screw = 3Nm

Fixing dimensions for window with frame

Mounting specification for aluminium window without frame 1210:
Front mounting

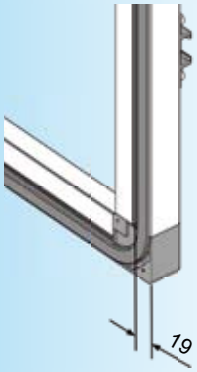


Lock side

Hinge side

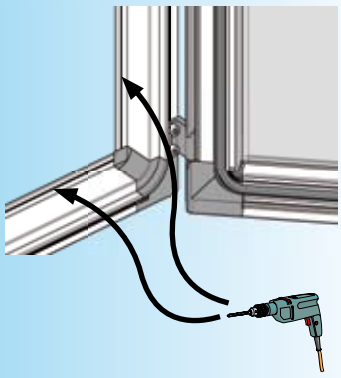
Mounting dimensions for window without frame

Rear mounting.



see mounting specification

Front mounting



Mounting according to customer requests.

Note:

Mounting point references 2x, 3x, 4x relate to the number of hinges and locks.

Further parts see page
– Aluminium window 7B-120
– Aluminium window without frame 7B-320

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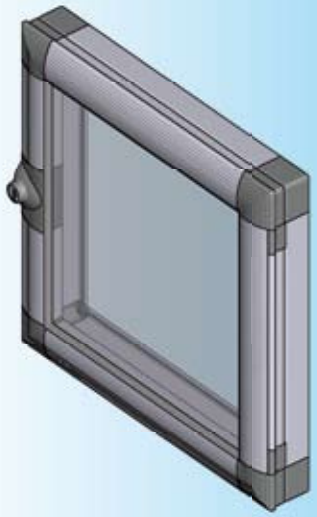
®Aluminium window - with frame, aluminium window 1220

PROGRAM 1210 EMKA PROflex



Order example:

The request is for an aluminium window, frame mounted and assembles with the dimensions H = 750 mm and W = 520 mm with lock "3mm double-bit insert".

Please order:

One aluminium window 1210-U(height) - (width) = 1210-U 750-520 + 1215-U2-U327

Number of locks and hinges:
The number of locks and hinges depends on the window dimensions. To find the exact number please round the dimensions up to the next hundred mm section. Necessary quantity see table below.
Use the same principle with the price list.

Explanation for locks and hinges specification:

Aluminium window frame mounted example:
Part number 1210-U 750-520 => 800-600 => 1 lock and 2 hinges

Aluminium window without frame example:
Part number 1220-U 750-520 => 800-600 => 1 lock and 2 hinges

IP rating: IP 65 on request

Width in mm / Height in mm	→300	→400	→500	→600	....
→400	1/2	1/2	1/2	1/2	....
→500	1/2	1/2	1/2	1/2	....
→600	1/2	1/2	1/2	1/2	....
→700	1/2	1/2	1/2	1/2	....
→800	1/2	1/2	1/2	1/2	....
....	....	....	....	....	....

Number of locks — Number of hinges

Information:

Window with frame 1210
Can be assembled with gas springs on request.

The framed articles are available with safety glass.

Width in mm / Height in mm	→300	→400	→500	→600	→700	→800	→900	→1000	
→400	1/2	1/2	1/2	1/2	1/2	req.	req.	req.	
→500	1/2	1/2	1/2	1/2	1/2	req.	req.	req.	
→600	1/2	1/2	1/2	1/2	1/2	req.	req.	req.	
→700	1/2	1/2	1/2	1/2	1/2	1/2	req.	req.	
→800	1/2	1/2	1/2	1/2	1/2	1/2	req.	req.	
→900	2/3	2/3	2/3	2/3	2/3	2/3	2/3	req.	
→1000	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	
→1100	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	
→1200	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	
→1300	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	
→1400	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	
→1500	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
→1600	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
→1700	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
→1800	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
→1900	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
→2000	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	

Further parts see page

– Aluminium window 7B-120
– Latches 7B-220
– Aluminium window 7B-320

req. = on request

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Aluminium doors
Program 1300

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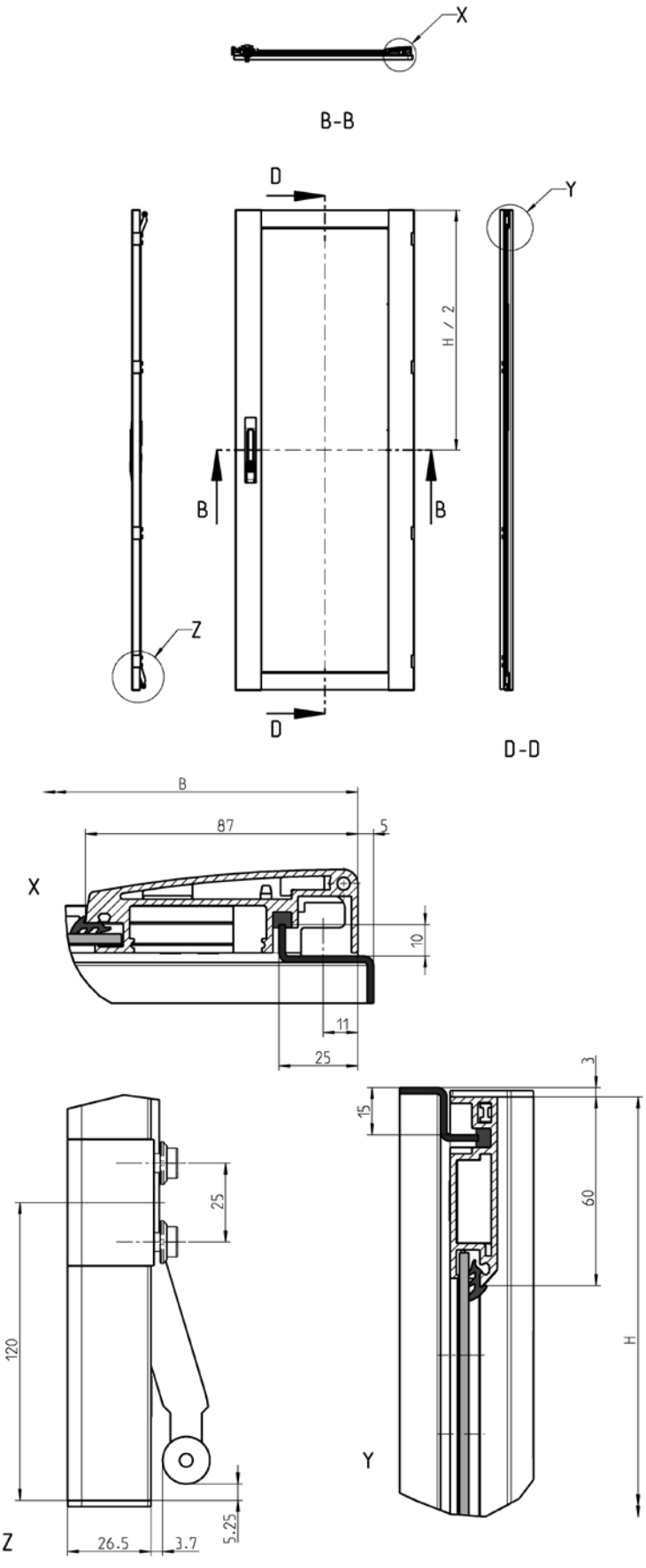
Aluminium doors

PROGRAM 1300



Manufacturing sizes (H x W):
Height from 400 to 2000
Width from 400 to 1000

Opening angle 180°
for single cabinets.

Opening angle < 120°
for in-line cabinets.

Further parts see page
– Locking set 3XA-120
3XA-240

Complete door anodized aluminium, acrylic glass, swinghandle 1180 polyamide black, hinges and edge connectors zinc alloy black p.c., cam (three-point-latch) and rod locking m.s. zinc plated, with seal.

1300-U1-BxH

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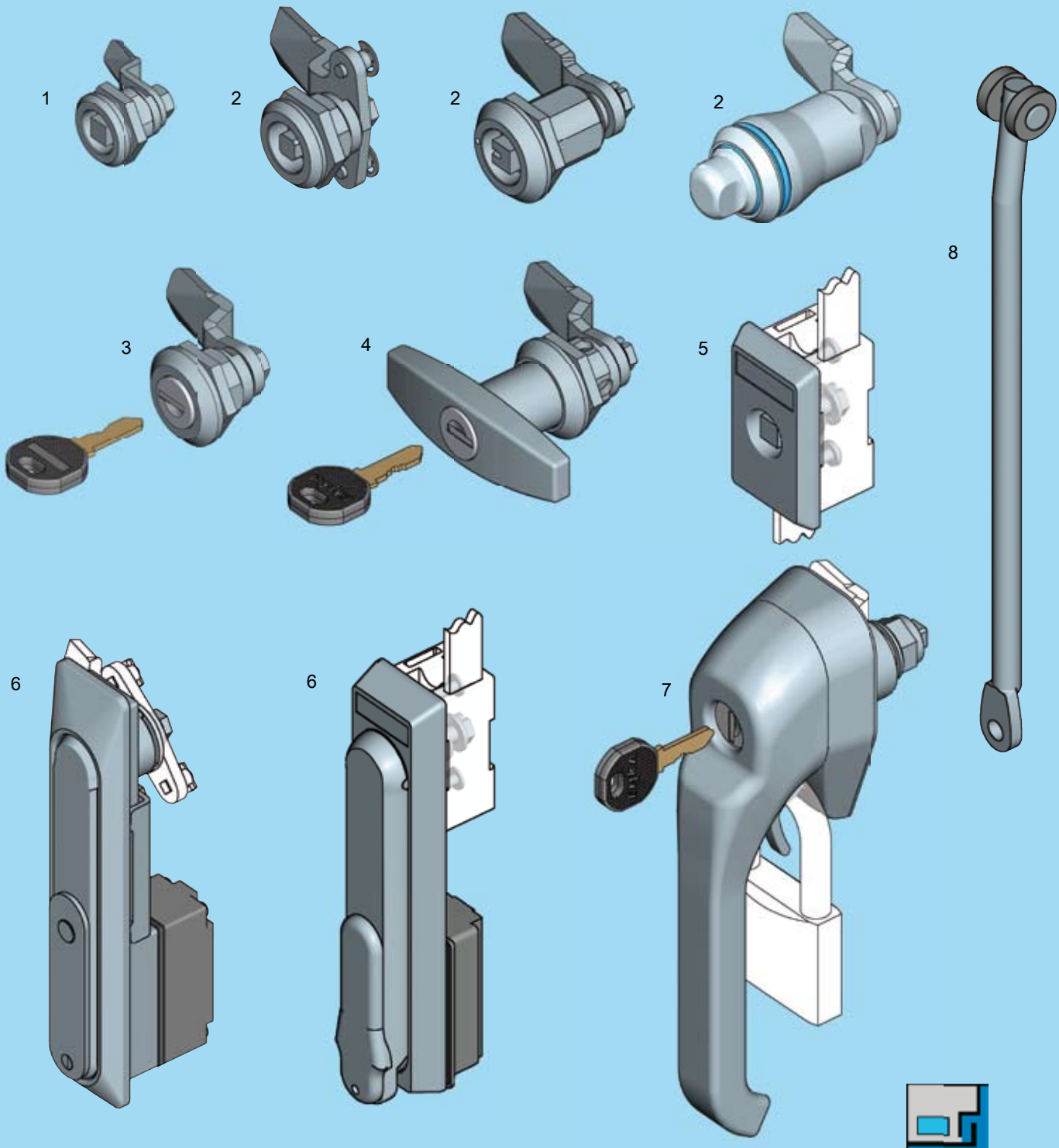
Stainless steel locks



1	Quarter turn small	Program 1022	8A-120
2	Quarter turns	Program 1000	8A-220 to 8A-244, 8A-285, 8A-290
3	Quarter turn with cylinder	Program 1000	8A-250
4	Handle	Program 1000	8A-260 to 8A-276
5	Escutcheon	Program 1000	8A-510, 8A-520
6	Swinghandle	Program 1125, 1150	8A-620 to 8A-680
7	Heavy duty latch	Program 1091	8A-840
8	Rod	Program 1000	8A-360

further articles such as cam, bearing bush, rod control, rod guide

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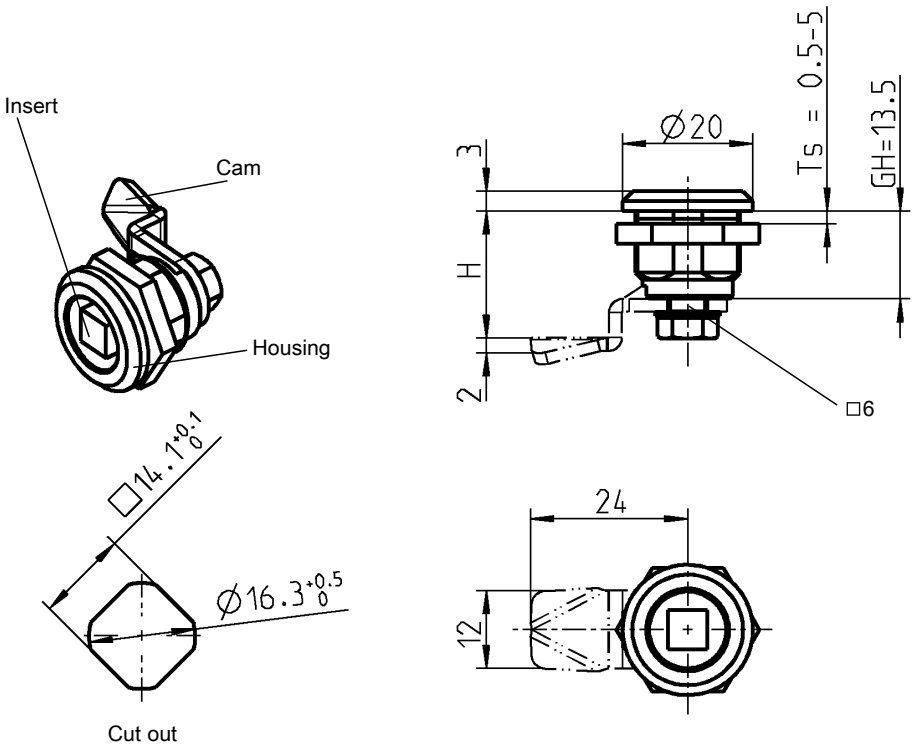
Quarter turn stainless steel

PROGRAM 1022



Housing with nut AISI 303; with seal	
	1022-U60
Insert with screw and wave washer AISI 316; with O-Ring	
Square 6	1022-U61
Triangular 6,5	1022-U62
Slot 1,5	1022-U63
Blank	1022-U64
Cam AISI 304, t = 2	
H = 7,5	1022-20-PC
13,5	1022-07-PC
19,5	1022-08-PC
Assembly on request	
with O-ring	1022-991

Application:
Small doors and covers

Further parts see page
– Key 12B-120
– Dust cap 1A-120

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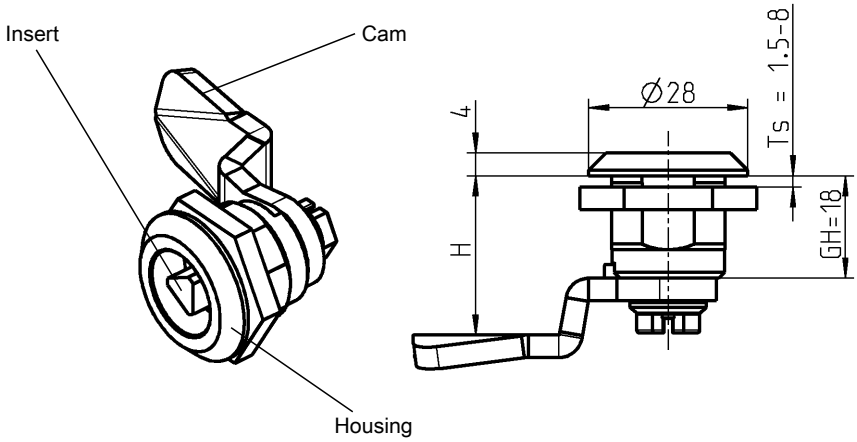
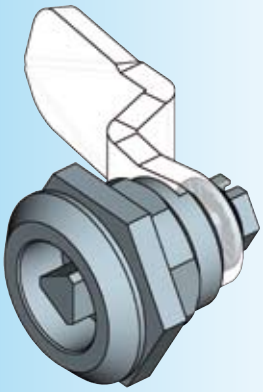
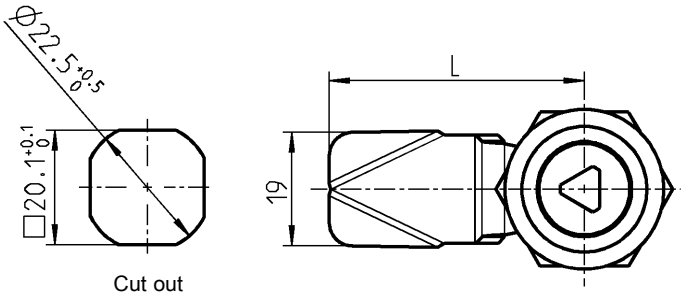
Quarter turn stainless steel

PROGRAM 1000

EMKA Beschlagteile







Housing material on choice: stainless steel with foamed seal or polyamide with O-ring, stainless steel nut		
AISI 303	**AISI 316**	**polyamide black**
1000-U134	1000-U530	1000-U156

Insert material on choice; screw and wave washer stainless steel, with O-Ring					
	AISI 303	**AISI 316**		**AISI 303**	**AISI 316**
Square 6	1000-U351	–	Double bit 5	1000-U137	1000-U534
Square 7	1000-U135	1000-U531	Slot 2 x 4	1000-U630	1000-U631
Square 8	1000-U136	1000-U532	Eastern Europe Ø 13	1000-U729	–
Square 8 slotted	1000-U352	–			
Triangular 7	1000-U334	1000-U536	Star handle	1000-U138	–
Triangular 8	1000-U335	1000-U537	Wing knob	1000-U510	–
Double bit 3	1000-U183	1000-U533			

IP 66 achieved with:	
Seal set	1000-U769

Assembly on request:	
with O-ring	1000-991

Note:
Quarter turn assembly 1B-105

Further parts see page
– Cam with pip 8A-320, 8A-340
– Key 12B-120
– Dust cap 1C-320

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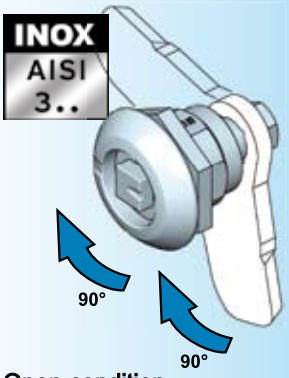
Stainless steel compression latch

PROGRAM 1000

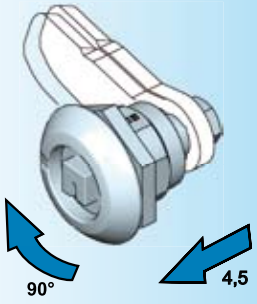
EDELSTAHL Rostfrei STAINLESS STEEL

Tamper and vibration proof

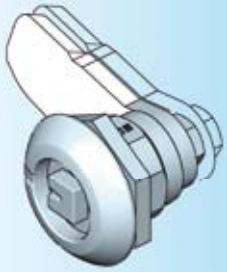
The compression latch is tamper proof as such. Depending on the installation location and the application conditions specific checks and / or supplementary measures for fixing are required.



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

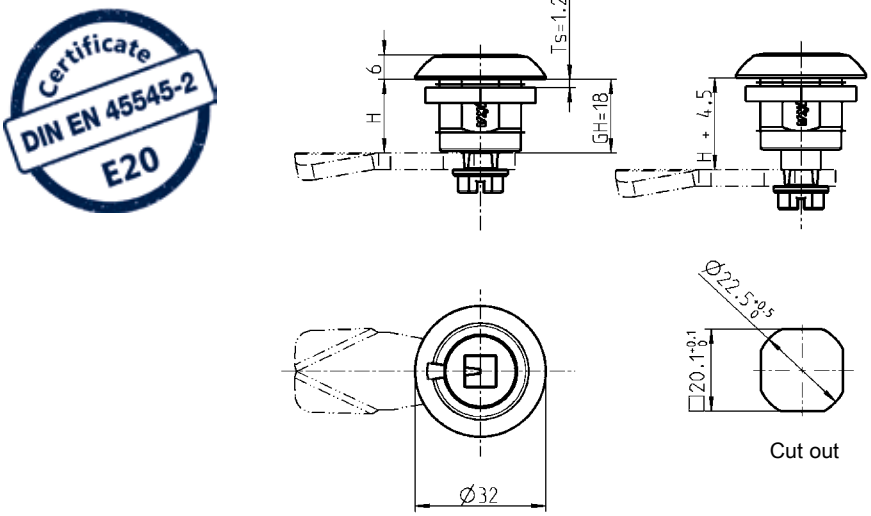


Closed condition
By turning the insert by another 90°, the cam moves 6 mm in an axial direction.



Compressed latch

Open:
Reversed movement



Housing and insert AISI 316, nut and screw stainless steel, with spring and seal;	
Square 6	on request
Square 7	1000-U859-PH
Square 8	1000-U852-PH
Triangular 6.5 CNOMO	on request
Triangular 7	1000-U864-PH
Triangular 8	1000-U853-PH
Triangular 9	on request
Triangular 10	on request
Double bit 3	1000-U854-PH
Double bit 5	1000-U855-PH
Hexagon male SW 11.1 with marking	on request
Hexagon female SW 8	on request
Hexagon female SW 8 with pin	on request
Hexagon female SW 10	on request
Square female 6	on request
Square female 7	on request
Square female 8	on request
Daimler Benz	on request
Slot 1.2 x 3	on request
Slot 2 x 4	on request
Slot 2 x 4 coinproof	on request
Crown type	on request
National railway	1000-U856-PH
Tube with marking	on request

Further articles see page
– Cam without catch 8A-320
(not for cam with rod control)
– Accessories from 1C-320
– Key 12B-120

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Stainless steel compression latch

PROGRAM 1000

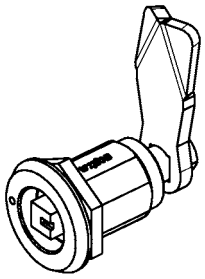
Tamper and vibration proof

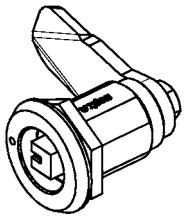
The compression latch is vibration proof as such. Depending on the installation location and the application conditions specific checks and / or supplementary measures for fixing are required.

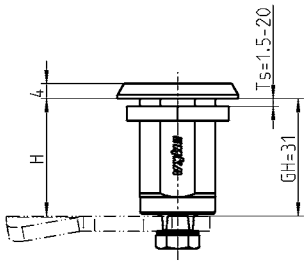
EDELSTAHL Rostfrei STAINLESS STEEL

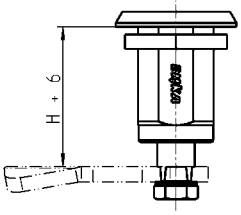
National railway type complies with RIC.

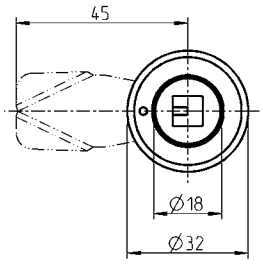
Certificate DIN EN 45545-2 E20

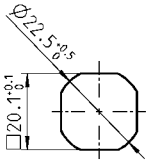




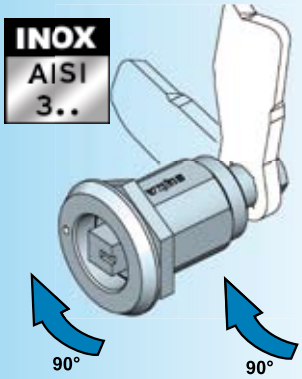




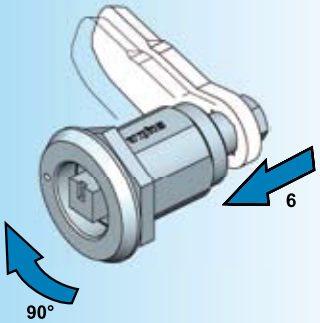




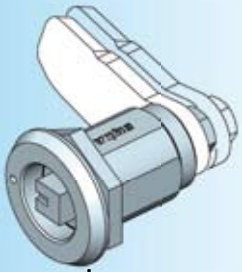
Cut out



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



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



Compressed

Open:
Reversed movement

Compression latch AISI 316, with spring and seal	
Square 8 with marking, type RH	1000-U865-REPH
Square 8 with marking type LH	1000-U865-LIPH
Hexagon male SW 10 type RH	on request
Hexagon male SW 10 type LH	on request
National railway type RH	on request
National railway LH	on request

Further articles see page
– Cam without catch (not for cam with rod control) 8A-320
– Accessories 1C-320
– Key 12B-120

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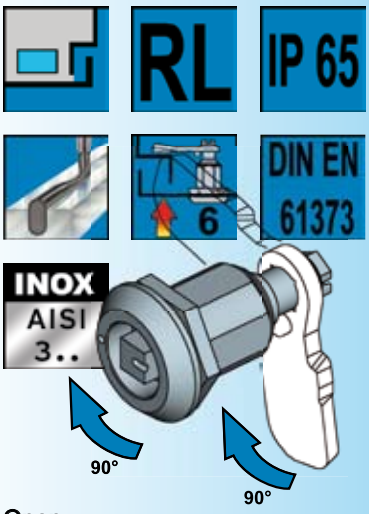
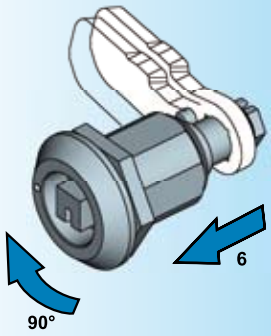
Stainless steel compression latch

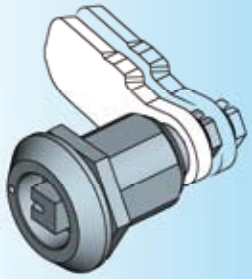
PROGRAM 1000



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



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



Compressed

Open:
Reversed movement

Note:
Further inserts on request

Further articles see page
– Cam with or without catch 8A-320
(not for cam with rod control)
– Accessories 1C-320
– Escutcheon 3B-140
– Key 12B-120

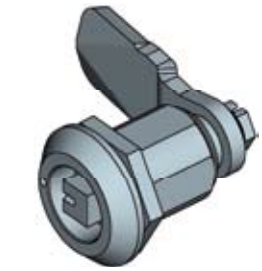
EDELSTAHL Rostfrei STAINLESS STEEL

Tamper and vibration proof

The compression latch is vibration proof as such. Depending on the installation location and application conditions specific checks and / or supplementary measures for fixing are required.

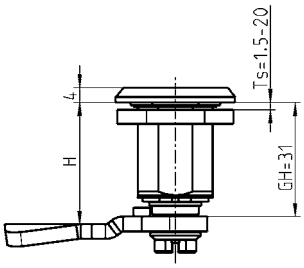
Certificate DIN EN 45545-2 E20

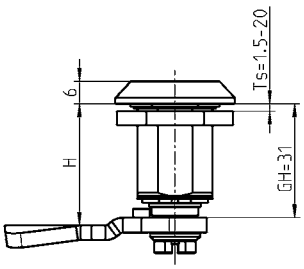
with arrowhead and red - green marking

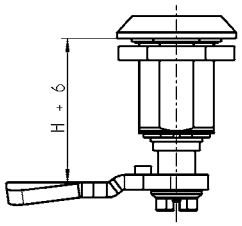


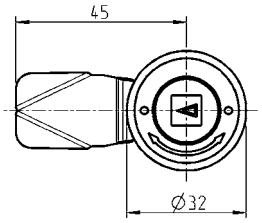
with marking

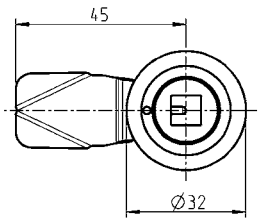
Note:
When you use the finger pull (see page 1C-320), the H dimension is reduced by 2 mm.

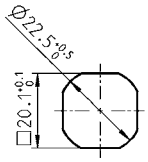












Cut out

Compression latch with arrowhead and red-green marking AISI 316, with spring and flat seal	
Square 8 type RH	1000-U834-REPH
Square 8 type LH	1000-U834-LIPH
Compression latch AISI 316, with spring and seal	
Square 8 with marking	1000-U755-01
Double bit 3	1000-U749-01
Double bit 5	1000-U748-01
Slot 2 x 4	1000-U777-01

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Stainless steel compression latch with adjustable cam height

PROGRAM 1000

Tamper and vibration proof

The compression latch is vibration proof as such. Depending on the Installation location and the application conditions specific checks and / or supplementary measures for fixing are required.

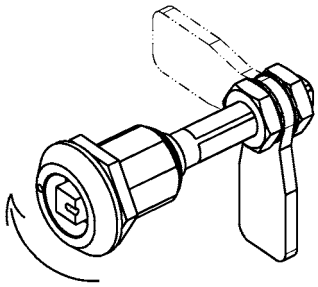
EDELSTAHL Rostfrei STAINLESS STEEL

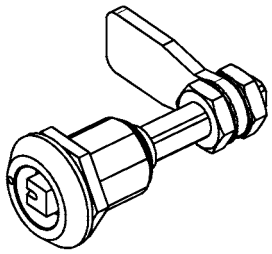
RL

IP 65

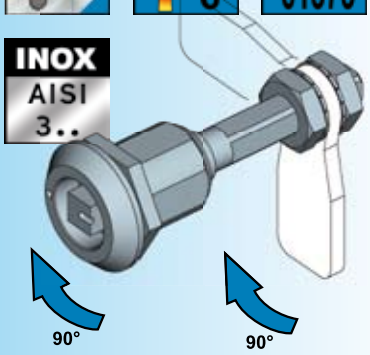
DIN EN 61373

INOX AISI 3..

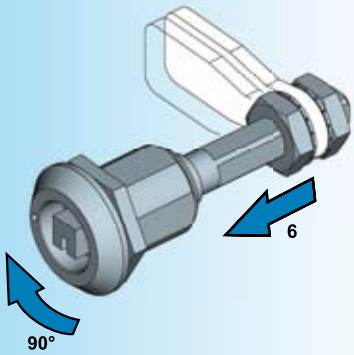




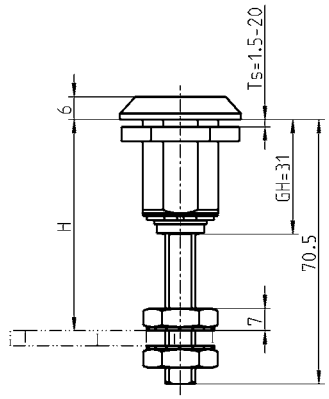
Certificate DIN EN 45545-2 E20

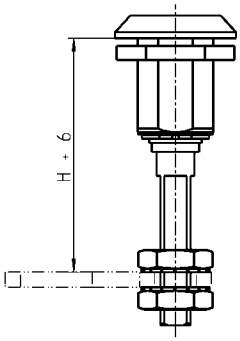


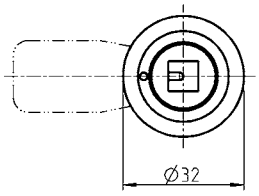
Open
By turning the insert by 90°, the cam is also turned.

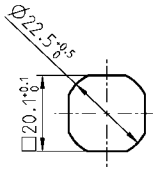


Closed
By turning the insert another 90°, the cam moves 6 mm in axial direction.

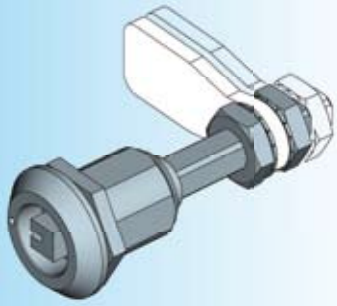








Cut out



Compressed

Open:
Reversed movement

Further articles see page

– Cam	on request
– Accessories	1C-320
– Key	12B-120

Compression latch AISI 316, with spring and seal	
Square 8 with marking	1000-U755-02

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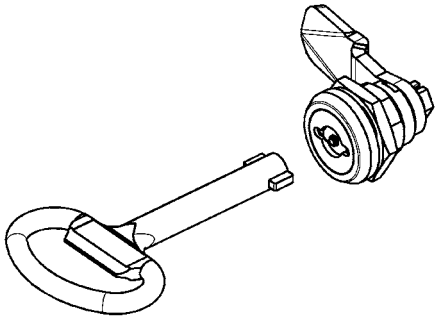
Notes:

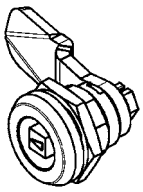
Safety quarter turn

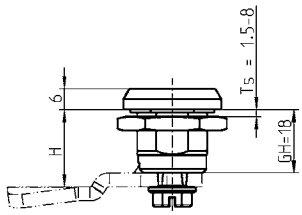
PROGRAM 1000

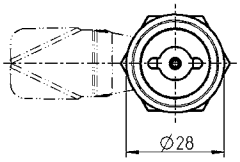


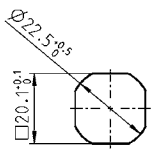
By pressing down the insert, the cam can be turned

Cam snaps into place









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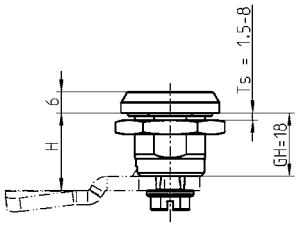

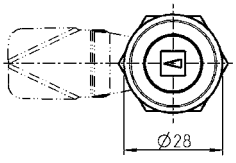

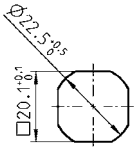

Cut out

Housing with insert, screw and nut AISI 303, with seal

	without Dust cap	with Dust cap
Double bit 3 mm RH version	1000-U714-01	1000-U725
Double bit 3 mm LH version	1000-U715-01	1000-U726
Double bit 5 mm RH version	1000-U716-01	1000-U727
Double bit 5 mm LH version	1000-U717-01	1000-U728
Square 6 mm RH/LH version	1000-U718-01	–
Square 7 mm RH/LH version	1000-U719-01	–
Square 8 mm RH/LH version	1000-U720-01	–
Triangular 7 mm RH/LH version	1000-U721-01	–
Triangular 8 mm RH/LH version	1000-U722-01	–
Slot 2x4 mm RH/LH version	1000-U723-01	–
Eastern Europe Ø half round 90° and 180° RH/LH	1000-U724-01	–
Railroad RH/LH	1000-U710-01	–
Ø 8,6 with slot RH/LH	1000-U712-01	–

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Safety quarter turn

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

With the double bit version the key is captive in the unlocked position.

Hole for double bit acc. to DIN 43668.

The whole range is IP 65 (DIN 40050).

Only available with pre-assembled cam.

Further parts see page

– Cam with catch 8A-320 8A-340 (not suited for stainless steel slam cam)
– Key 12B-120
– Dust cap 1C-320
– Escutcheon polyamide (1072-U15) 12D-120

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®Stainless steel safety quarter turn without mask

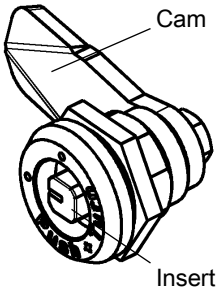
PROGRAM 1000

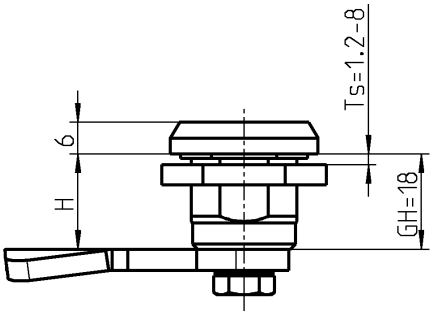
RL IP 65 DIN EN 61373 3

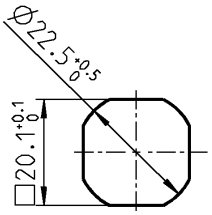
INOX AISI 3..

EDELSTAHL Rostfrei STAINLESS STEEL

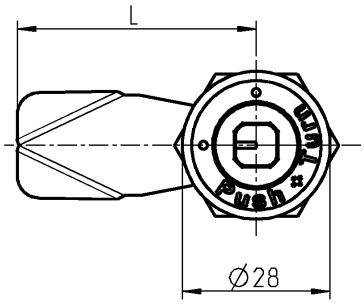
Certificate DIN EN 45545-2 E20







Cut out



Push and turn insert

Housing and insert AISI 316, nut and screw stainless steel, with spring and seal	
Square 6	1000-U817-01PH
Square 7	on request
Square 8	1000-U817-03PH
Square 8 slotted	on request
Triangular 6,5 CNOMO	on request
Triangular 7	on request
Triangular 8	1000-U817-05PH
Triangular 9	on request
Triangular 10	1000-U817-07PH
Double bit 3	on request
Double bit 5	on request
Hexagon female 8mm	1000-U817-24PH
Hexagon female 10mm	on request
Square female 6mm	on request
Square female 7	on request
Square female 8	on request
Daimler Benz	on request
Slot 1,2 x 3	on request
Slot 2 x 4	on request
Slot 2 x 4 coinproof	on request
Crown type	on request
Eastern Europe Ø 13	on request
Hexagon female 8mm with pin	on request
Railway version	on request

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

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

Further parts see page

– Cam without catch 8A-320
8A-340
(not suitable for stainless steel slam cam)
– Accessories 1C-320
up to 1C-380
– Key 12B-120

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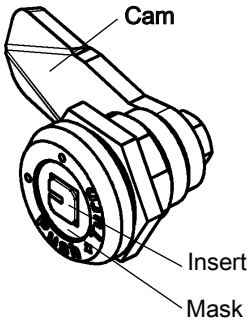
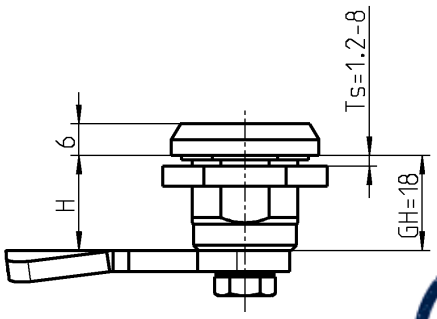
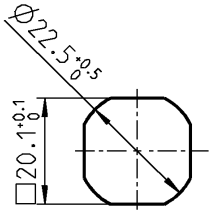
Stainless steel safety quarter turn with mask

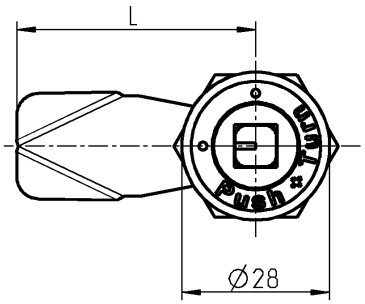
PROGRAM 1000

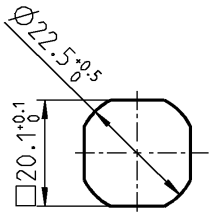




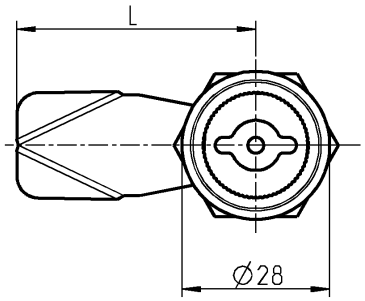


Cut out





Cut out



Insert square or triangular

Insert double bit

Push and turn insert

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

Version double bit: Key only removable in locked position.

Keyhole for double bit according to DIN 43668.

The H-dimension will be reduced by 2 mm when a finger pull is installed (see catalogue page 1C-320).

Further parts see page

– Cam without catch	8A-320 8A-340
(not suitable for stainless steel slam cam)	
– Accessories	1C-320 up to 1C-380
– Key	12B-120

Housing and insert AISI 316, nut and screw stainless steel, with spring and seal	
Square 6	on request
Square 7	on request
Square 8	on request
Square 8 slotted	on request
Triangular 6,5 CNOMO	on request
Triangular 7	on request
Triangular 8	on request
Triangular 9	on request
Triangular 10	on request
Housing and insert AISI 316, mask stainless steel, nut and screw stainless steel, with spring and seal	
Double bit 3 mm RH version	on request
Double bit 3 mm LH version	on request
Double bit 5 mm RH version	on request
Double bit 5 mm LH version	on request

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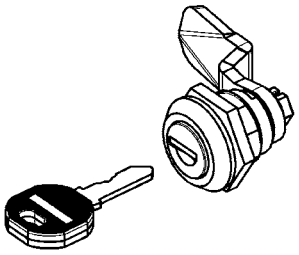
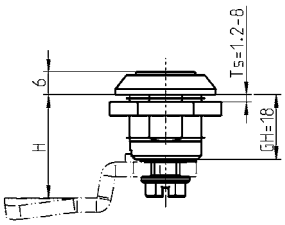
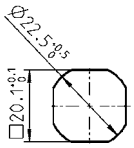
Stainless steel quarter turn with cylinder

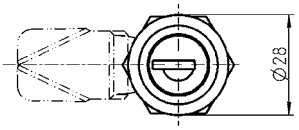
PROGRAM 1000







Cut out



Key removable in both positions.

Further parts see page
– Cam with catch 8A-320
(not for cam with rod control)
– Key 12B-140

Quarter turn with cylinder AISI 316, round cylinder, screw and washer stainless steel. Each cylinder has one silver steel key with polyamide GF grip black.	
keyed EK 333	1048-U6-PH
keyed different	1048-U7-PH

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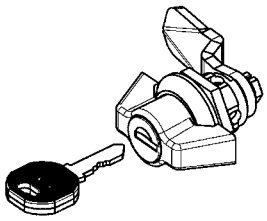
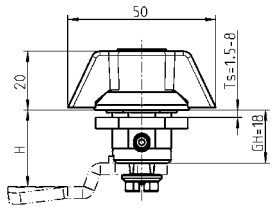
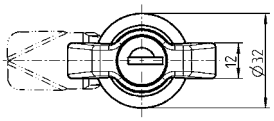
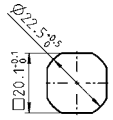
Handle stainless steel

PROGRAM 1000









Cut out

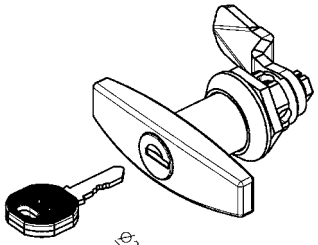
EDELSTAHL Rostfrei STAINLESS STEEL

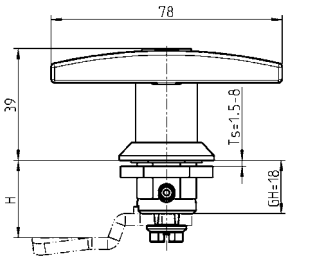
RL IP 65

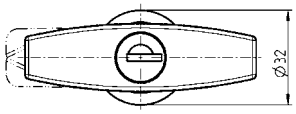
INOX AISI 3..

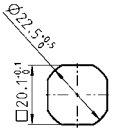
Wingknob quarter turn AISI 316, with seal

	non locking	keyed EK 333	keyed different
	1000-U665	1000-U150-PH	1000-U151-PH









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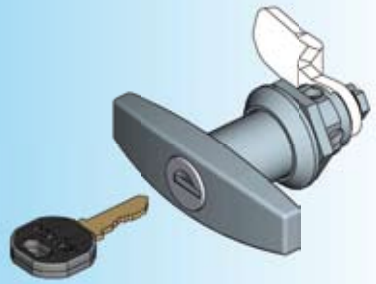
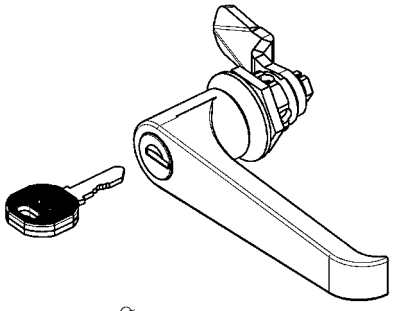
EDELSTAHL Rostfrei STAINLESS STEEL

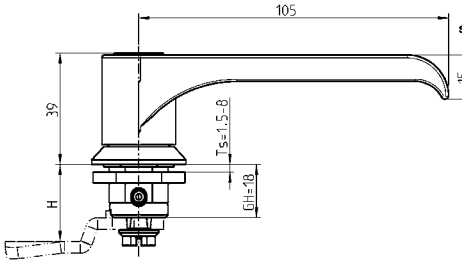


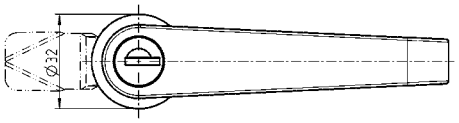
T-handle quarter turn AISI 316, with seal

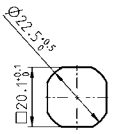
	non locking	keyed EK 333	keyed different
	1000-U664	1000-U10-PH	1000-U11-PH

Each cylinder with one key silver steel with polyamide grip black. Key removable in both positions.



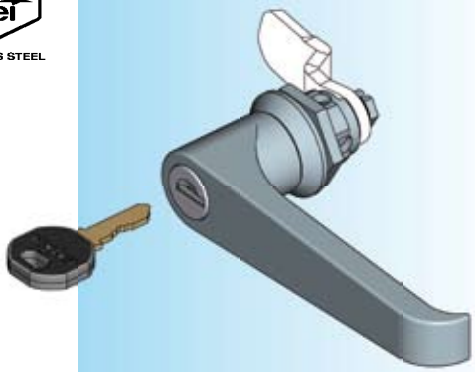






Cut out

EDELSTAHL Rostfrei STAINLESS STEEL



L-handle quarter turn AISI 316, with seal

	non locking	keyed EK 333	keyed different
	1000-U658	1000-U15-PH	1000-U16-PH

Further parts see page

– Cam with catch 8A-320
8A-340
(not suitable for stainless steel slam cam)
– Dust cap for T-handle 1C-340
– Spare key 12B-140

EMKA®

Beschlagteile

Stainless steel ring handle quarter turn

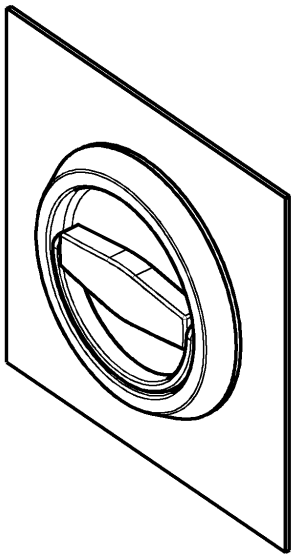
PROGRAM 1098

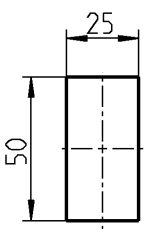
RL

IP 65

INOX AISI 3..

EDELSTAHL Rostfrei STAINLESS STEEL





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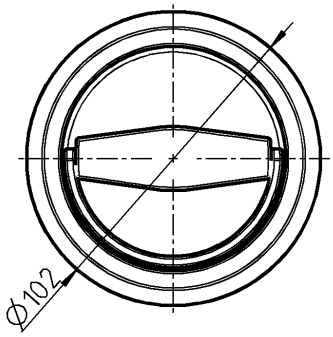
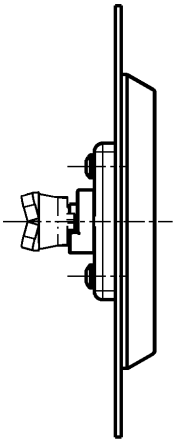
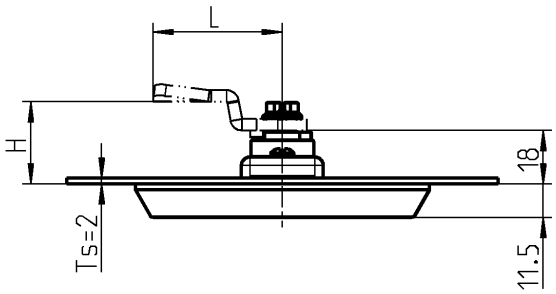






Further articles see page
– Cam with catch 8A-320
8A-340
(not suitable for stainless steel slam cam)

Ring handle quarter turn AISI 316 Ti, with seal

1098-U2

© EMKA Beschlagteile GmbH & Co. KG 2014

Stainless steel wing knob quarter turn for padlock

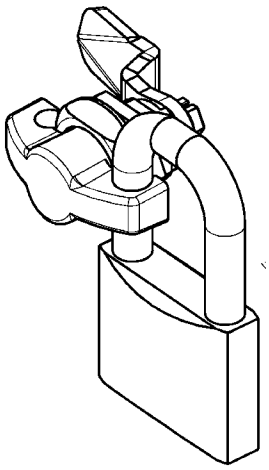
PROGRAM 1000

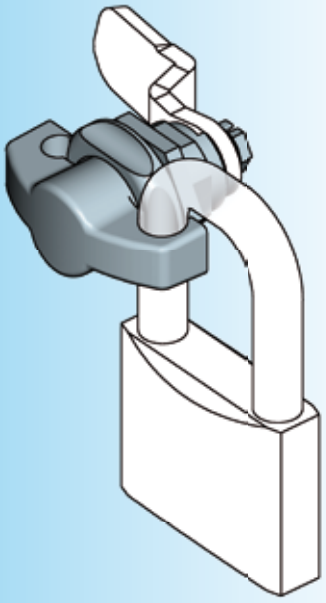
EDELSTAHL Rostfrei STAINLESS STEEL

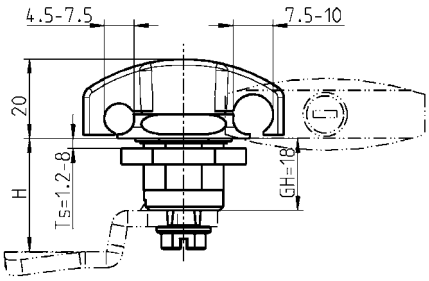
RL

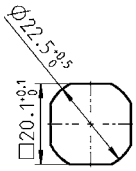
IP 65

INOX AISI 3..









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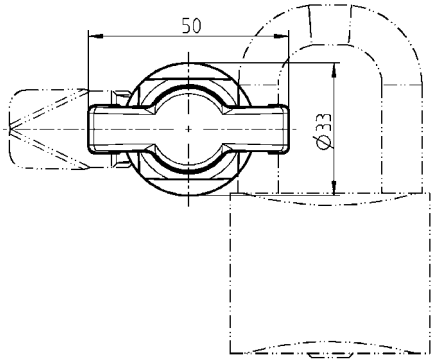

Further articles see page
– Cam with catch 8A-320
8A-340
(not suitable for stainless steel slam cam)

Wing knob quarter turn AISI 316, with seal

1000-U429-01PH

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EMKA®

Beschlagteile

Stainless steel L-handle quarter turn for padlock

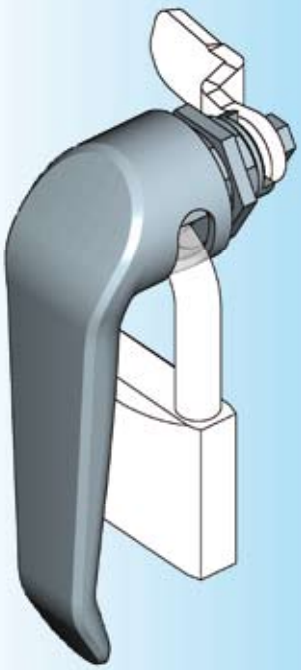
PROGRAM 1000

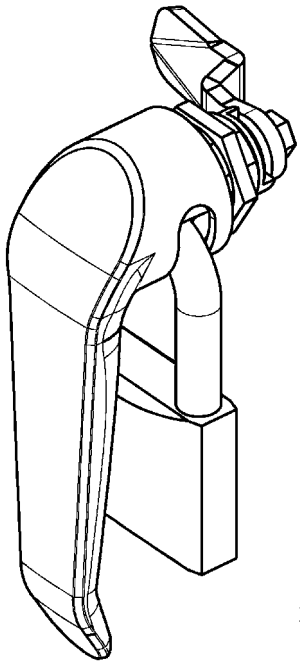
EDELSTAHL Rostfrei STAINLESS STEEL

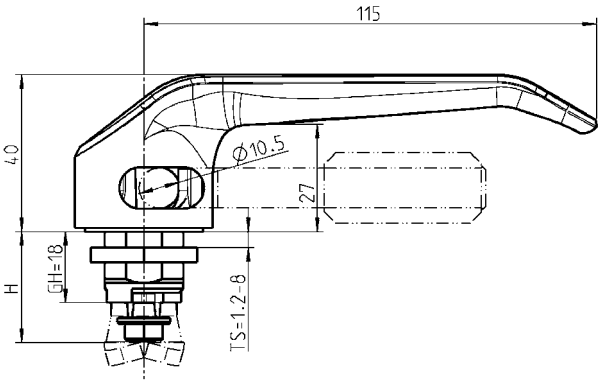
RL

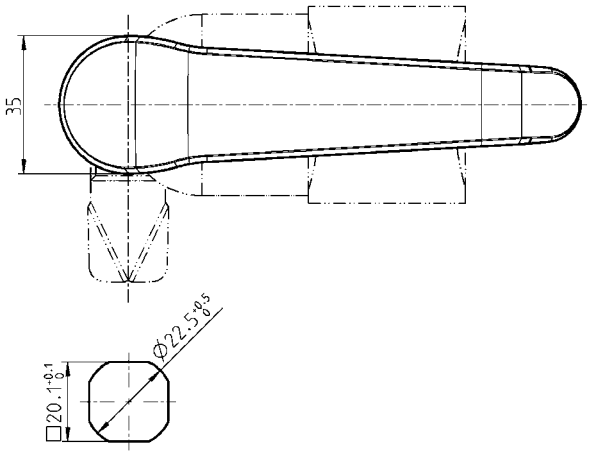
IP 65

INOX AISI 3..









Cut out

Attention:
L-handle ist locked when a padlock is fitted.

Further articles see page
– Cam with catch 8A-320
8A-340
(not suitable for stainless steel slam cam)

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

1000-U860

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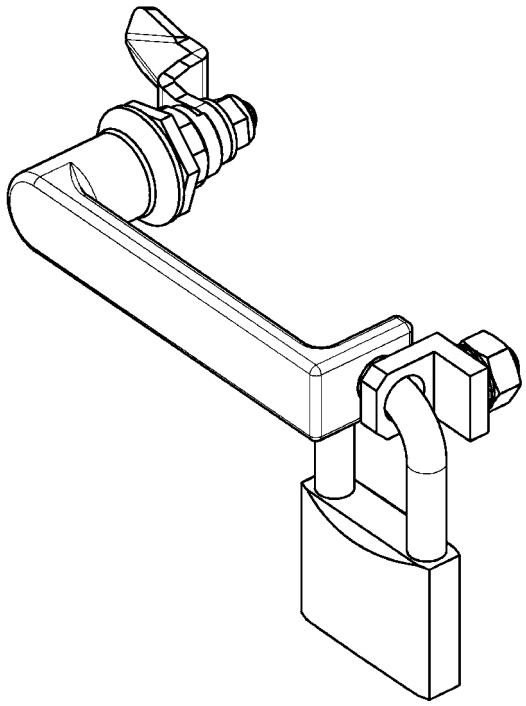
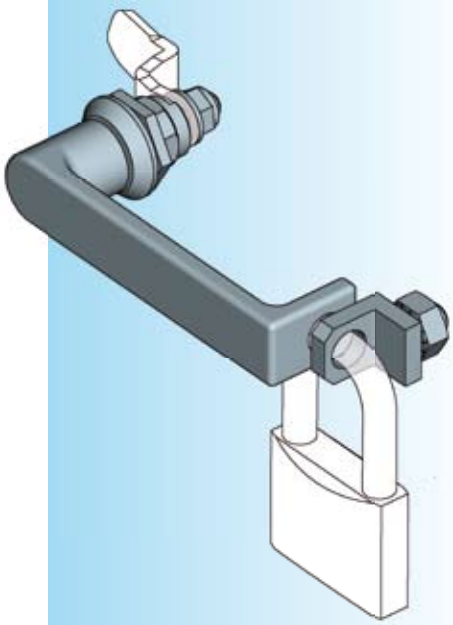
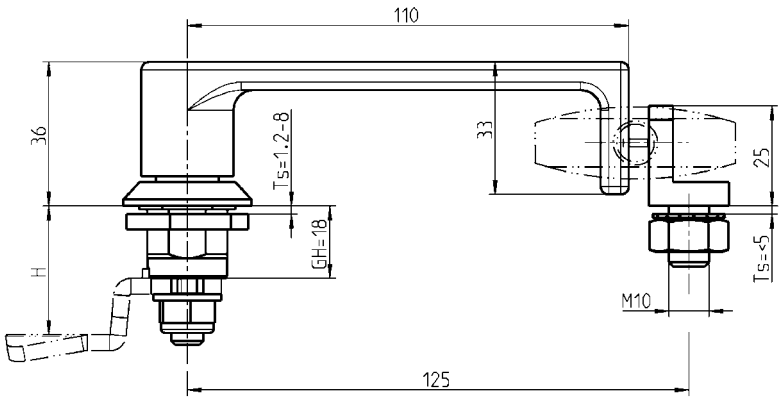
Stainless steel L-handle quarter turn for padlock

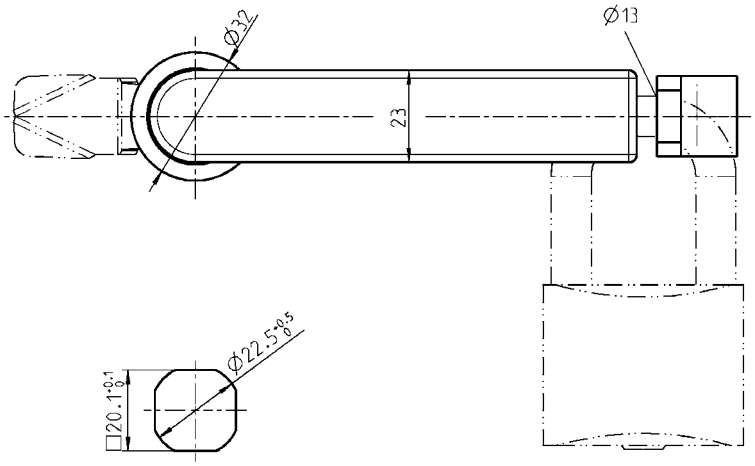
PROGRAM 1000

EMKA® Beschlagteile









Cut out

Further articles see page
– Cam with catch 8A-320
8A-340
(not suitable for stainless steel slam cam)

Handle, housing and angle AISI 316; nut and washers stainless steel; with seal

1000-U842

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EMKA

Beschlagteile

®Stainless steel compression latch for hygienic areas

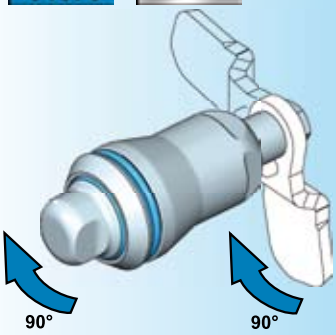
PROGRAM 1000

EDELSTAHL® Rost frei STAINLESS STEEL

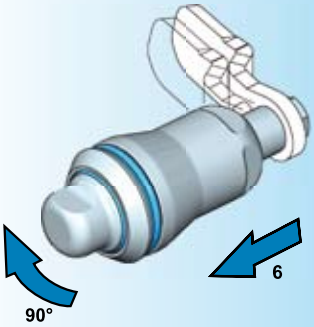
The quarter turn for hygienic areas meets the hygiene requirement acc. to DIN EN 1672-2 and DIN EN 14159

This item is completely IP65, not only from outside to inside

Tamper and vibration proof
The compression latch is vibration proof as such. Depending on the installation location and the application conditions specific checks and / or supplementary measures for fixing are required.



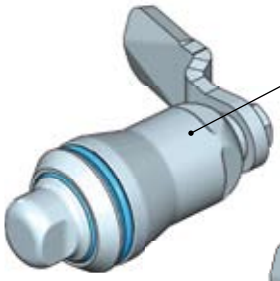
Open
By turning the insert by 90°, the cam is turned.



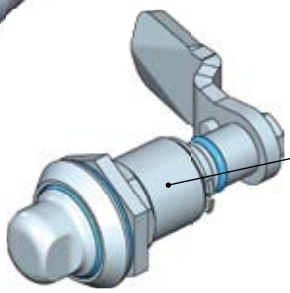
Closed
By turning the insert another 90°, the cam is moved 6 mm in axial direction.

Compressed

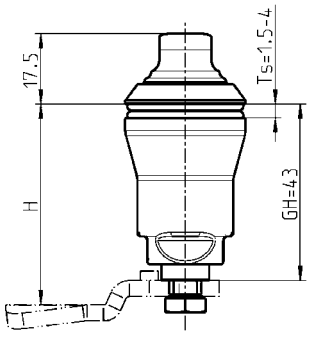
Open:
Reversed movement

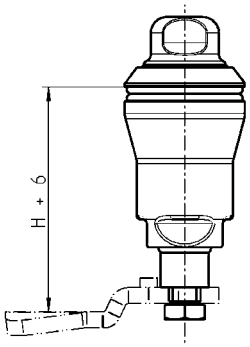


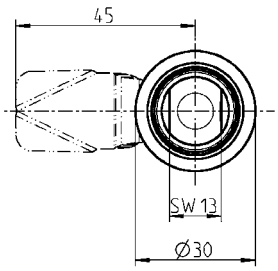
1000-U861
Hygiene type for outside and inside the cabinet

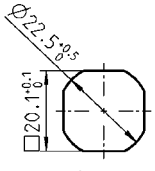


1000-U862
Hygiene type for outside the cabinet, not for inside









Cut out

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

Further articles see page
– Cam with or without catch 8A-320

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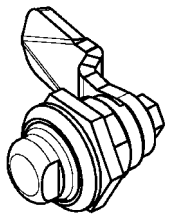
Stainless steel quarter turns for hygienic areas
Stainless steel national railway quarter turns

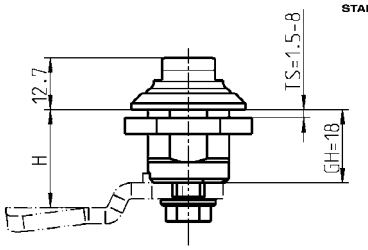
PROGRAM 1000

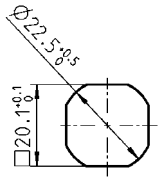
EMKA Beschlagteile

for hygienic areas

EDELSTAHL® Rostfrei STAINLESS STEEL







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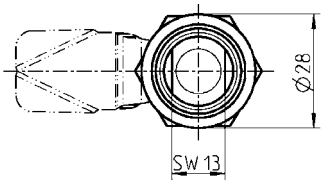
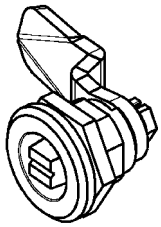
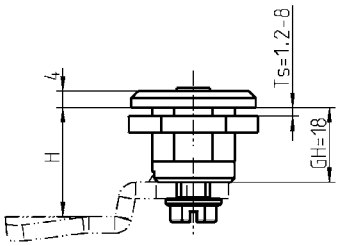


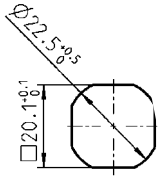
Quarter turn AISI 316 Ti, with seal	
	1000-U838
Key zinc die raw	
	1004-53

National railway

EDELSTAHL® Rostfrei STAINLESS STEEL







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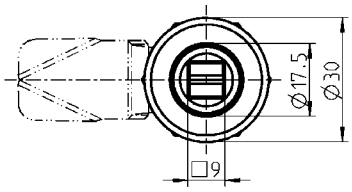

Housing with insert, screw and nut AISI 304	
	1000-U431-PF
IP 65 is achieved by	
flat seal	1000-23
O-ring	1000-24
IP 66 is achieved by:	
Seal set	1000-U769
Assembly on request:	
without O-ring	1000-990
with O-ring	1000-991

Note:
The quarter turn for hygienic areas meets the hygiene requirements acc. to DIN EN 1672-2 and DIN EN 14159

Further articles see page
– Cam with catch 8A-320
8A-340
(not suitable for stainless steel slam cam)

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EMKA

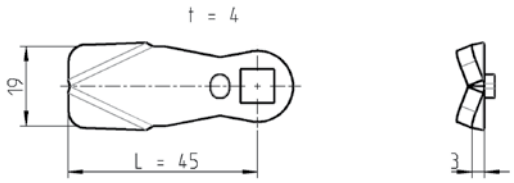
Beschlagteile

®Stainless steel cam with catch
Stainless steel cam without catch

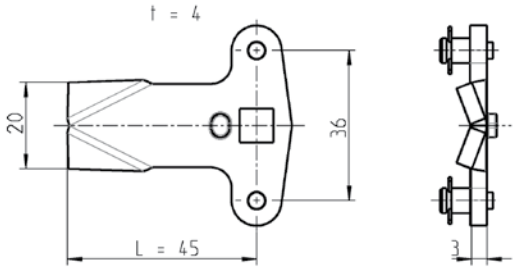
PROGRAM 1000

EDELSTAHL Rostfrei STAINLESS STEEL

Version 1
Cam

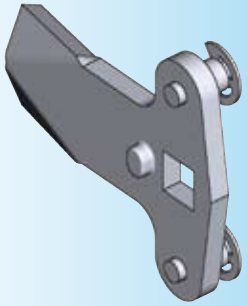


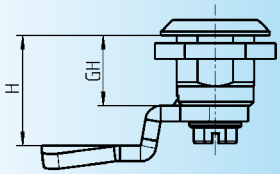
Version 2
Cam with rod control (flank cam)



Cam with catch

Cam without catch





PO sample for a cam without catch:
To order a cam without catch, complete the selected item no. from the below table with a Z.
Example: You require a cam for a housing GH = 18 without catch with the H dimension 22 made of one of the available materials: AISI 304 or AISI 316.

Please order with the following item no.:
for cam without catch of AISI 304 . . . . . = 1000-179-**Z**
for cam without catch of AISI 316 . . . . . = 1000-179-**ZPD**

Attention: cam with rod control without catch on request

Cam with catch material as requested

H-Maße für GH =				Version 1		Version 2
18	31	43		AISI 304	AISI 316	AISI 304
4	17	29		-	-	-
6	19	31		1000-221	1000-221-PD	-
8	21	33		-	-	-
10	23	35		1000-223	1000-223-PD	-
13	26	38		-	-	-
14	27	39		1000-225	1000-225-PD	-
16	29	41		-	-	-
18	31	43		1000-227	1000-227-PD	-
20	33	45		1000-228	1000-228-PD	-
22	35	47		1000-179	1000-179-PD	1000-U139
24	37	49		1000-229	1000-229-PD	-
25	38	50		-	-	-
26	39	51		1000-230	1000-230-PD	-
28	41	53		1000-180	1000-180-PD	1000-U140

Further parts see page

– Ramp		1C-170
– Rod		8A-360
– Quarter turns		8A-220
	up to	8A-230
		8A-240
	to	8A-290

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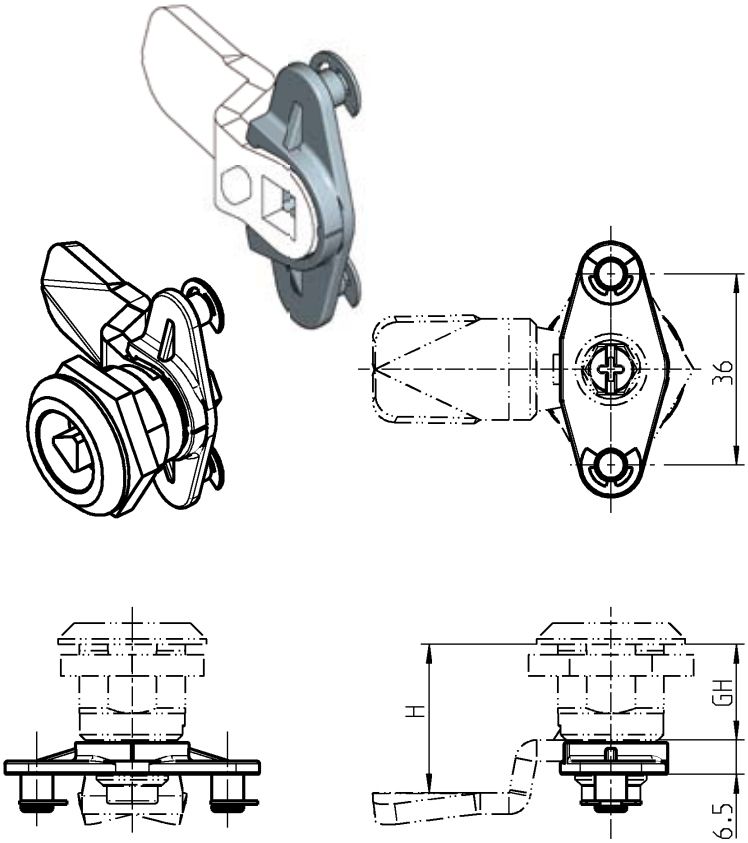
Stainless steel rod control
Stainless steel slam cam

PROGRAM 1000

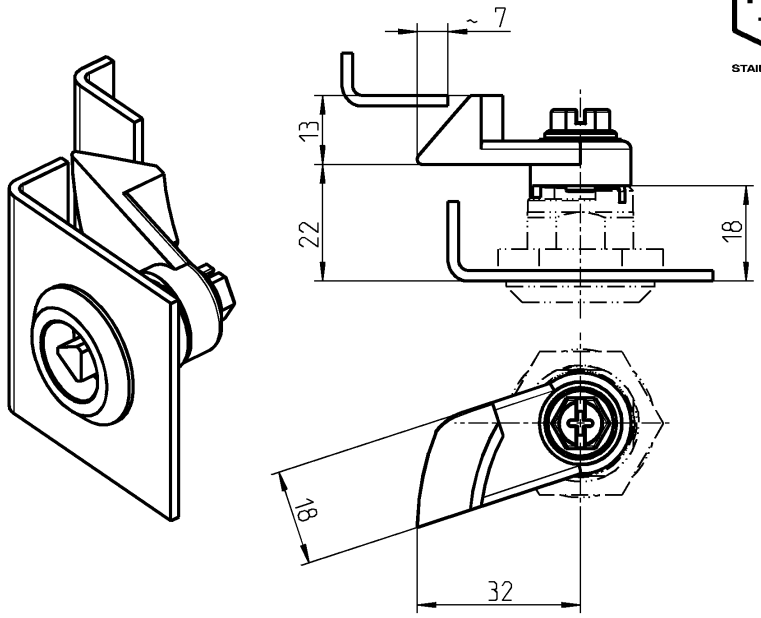
Stainless steel rod control



Further parts see page
– Cam with or without catch 8A-320
– Rod 8A-360
– Ramp 1C-170

3-point rod control for cams program 1000 AISI 316	
	1000-U776-PH

Stainless steel slam cam



Slam cam AISI 316, spacer, screw stainless steel		
for quarter turn see catalogue page	RH	LH
8A-220	1000-U235-NPH	1000-U236-NPH

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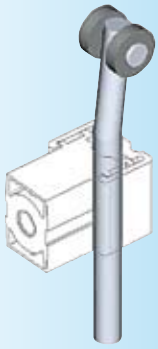
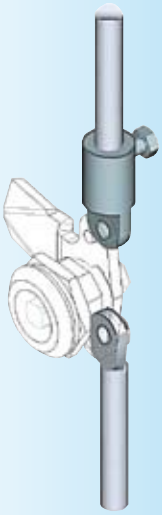
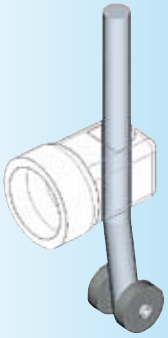
Beschlagteile

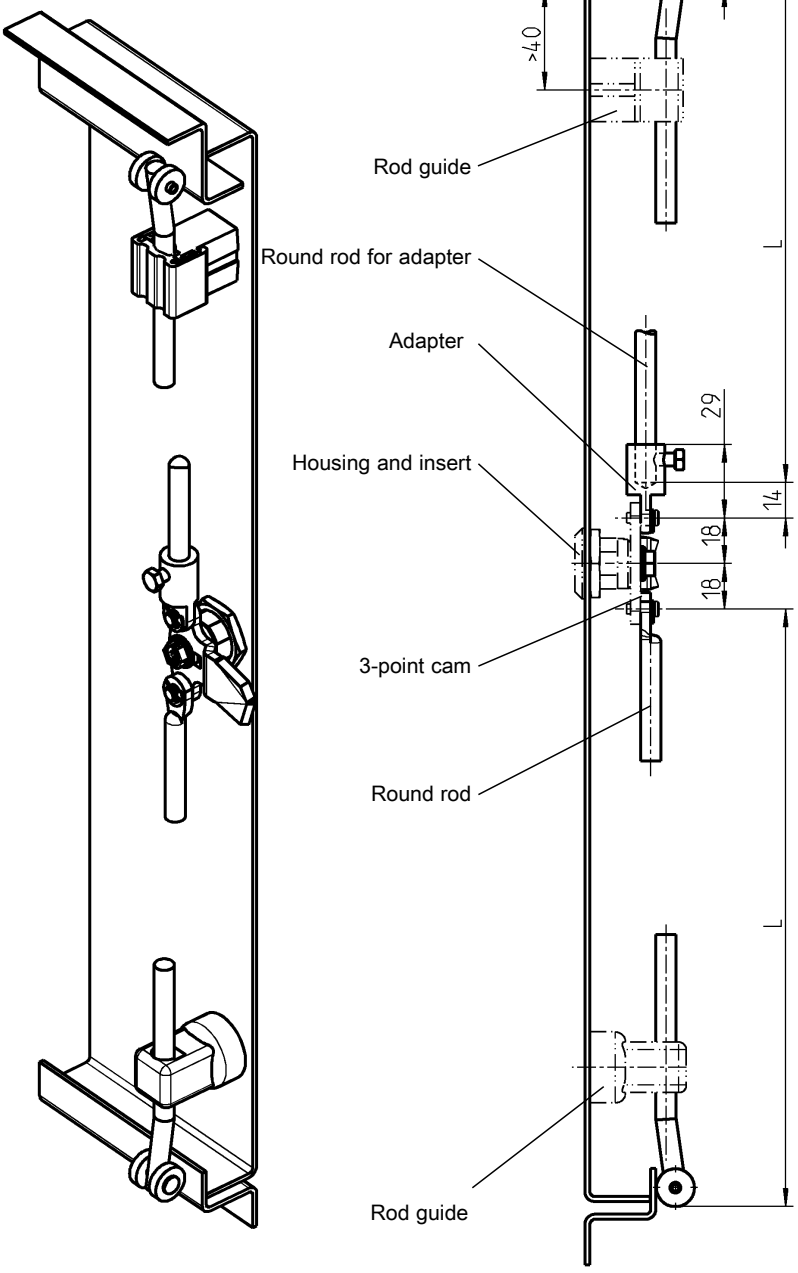
3 point locking system stainless steel

PROGRAM 1000









Rod Ø 8 AISI 304 with rollers polyamide black			
L		L	
600	1049-U12	900	1049-U15
700	1049-U13	1000	1049-U16
800	1049-U14	1100	1049-U17
Adapter AISI 303			
			1000-U141
Rod Ø 8 with eye AISI 304 and rollers polyamide black			
Expl.: Length 938 mm	1000-U538-L 938	1000-U538-L in mm	
		(1000-U538-01 to -09)	
		see price list	

Further parts see page

– 3-point cam 8A-320
8A-340

– Rod guide (see dimension A) 1C-640

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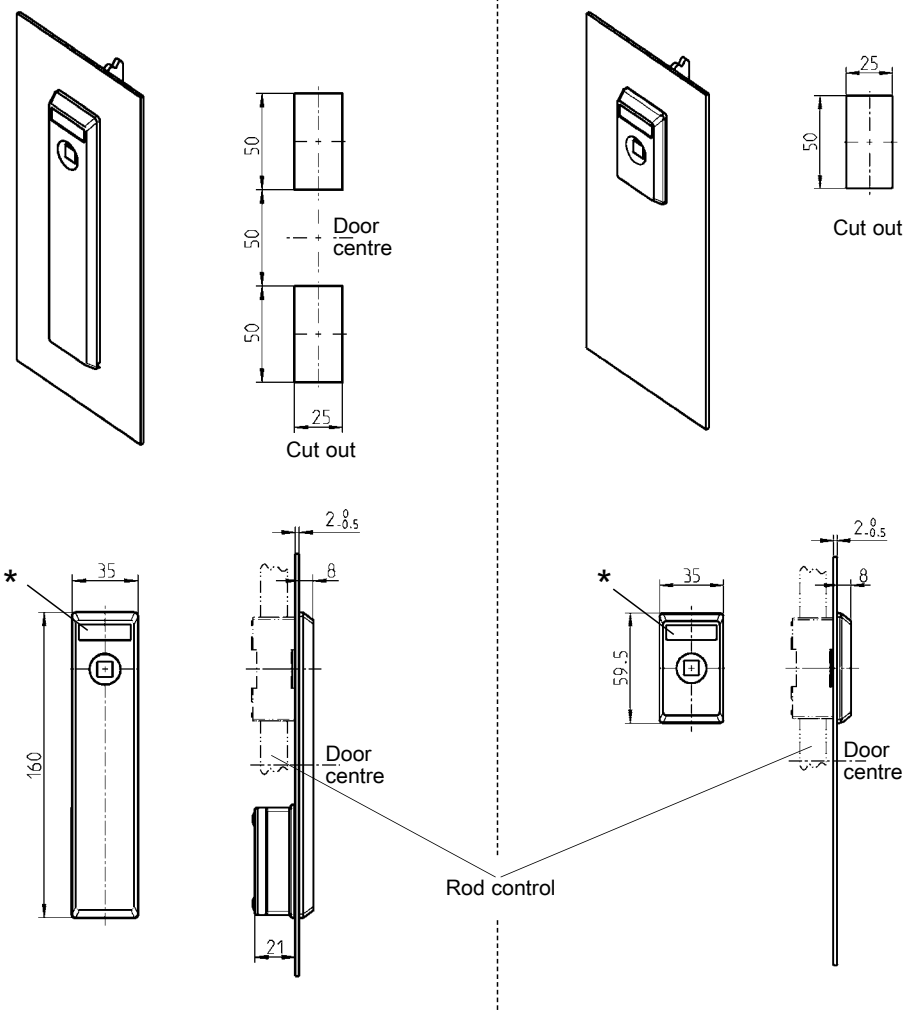
Stainless steel escutcheon with insert

PROGRAM 1125

EDELSTAHL Rostfrei STAINLESS STEEL

Escutcheon long



Escutcheon short

Escutcheon AISI 316, cap polyamide GF black (only for escutcheon long version), fixing material stainless steel, with seal			
	Escutcheon long	Escutcheon short	
for square, triangular, double bit, Daimler-Benz, slot	1121-U133-6PH	1121-U22-6PH	
Insert AISI 316, fastening material stainless steel			
Square 6	on request	Double bit 3	1121-U16-PH
Square 7	1121-U12-PH	Double bit 5	1121-U17-PH
Square 8	on request	Square female 8	on request
Triangular 6,5 CNOMO	on request	Daimler Benz	on request
Triangular 7	1121-U14-PH	Slot 2 x 4	on request
Triangular 8	on request		

* Logo recessed: 27 x 8 x 0,5
Multicolour print possible

Further parts see page

– Key	12B-120
– Rod control for long version	8A-720
Short version	8A-740
– Bearing bush	8A-780

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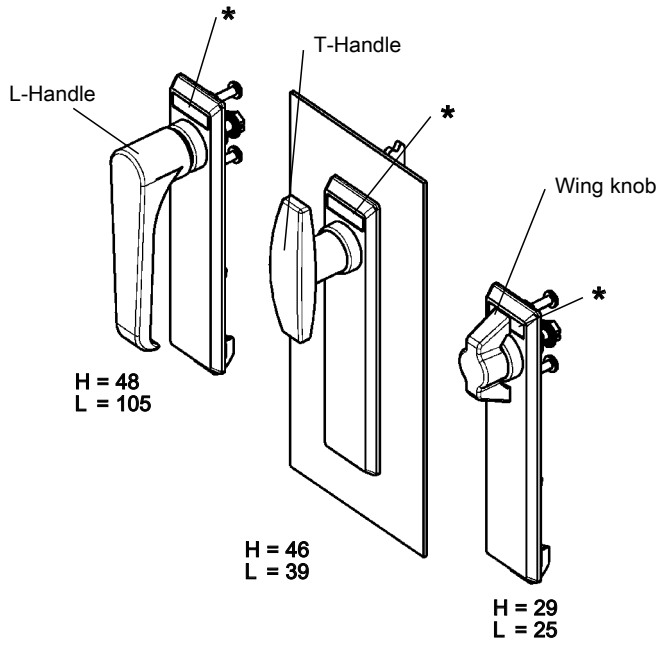
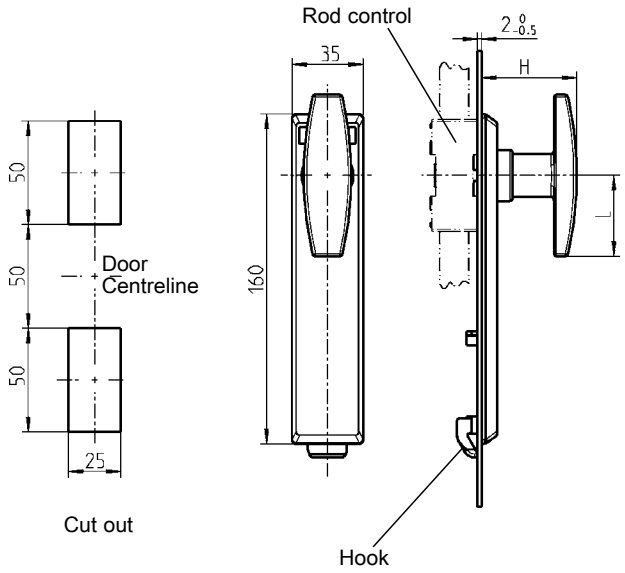
Escutcheon with stainless steel handle

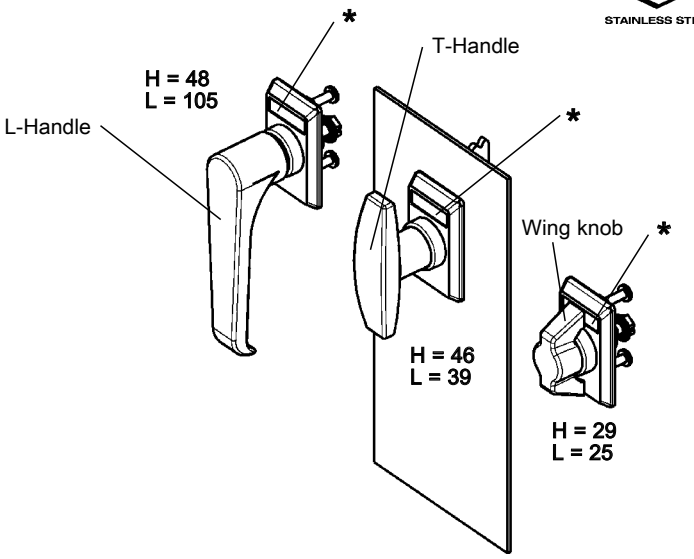
PROGRAM 1125

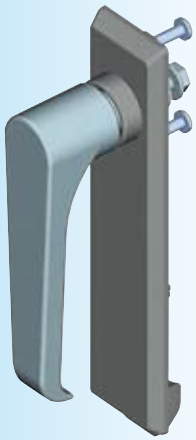


Escutcheon long

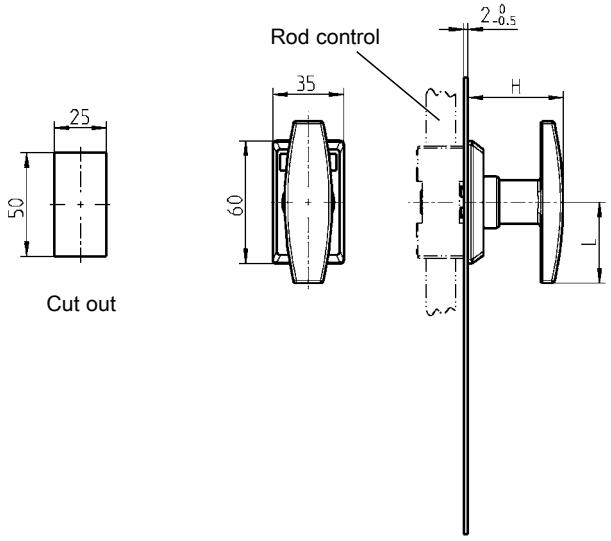


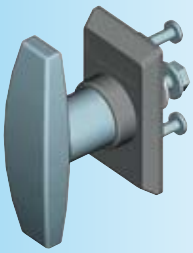
Escutcheon long polyamide GF black, fastening material stainless steel, with seal			
	Hook IP 40	snap on cap IP 40	screw on cap IP 65
L-handle AISI 316			
without cylinder	1123-U34-6	1123-U34-N6	1123-U35-6
T-handle AISI 316			
without cylinder	1123-U38-6	1123-U38-N6	1123-U39-6
Wing knob AISI 316			
without cylinder	1123-U41-6	1123-U41-N6	1123-U42-6

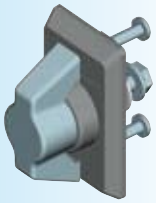




Escutcheon short







Escutcheon short polyamide GF black, fastening material stainless steel, with seal IP 65	
L-handle AISI 316	
without cylinder	1123-U36-6
T-handle AISI 316	
without cylinder	1123-U37-6
Wing knob AISI 316	
without cylinder	1123-U40-6

* Logo recessed 27 x 8 x 0,5
Multicolour print possible

Further parts see page

– Rod control	
long version	8A-740
Short version	8A-720
– Bearing bush	8A-780
	3YB-120

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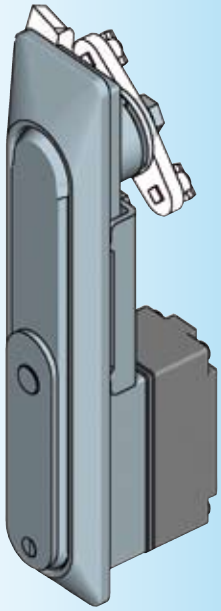
Stainless steel swinghandle 1154

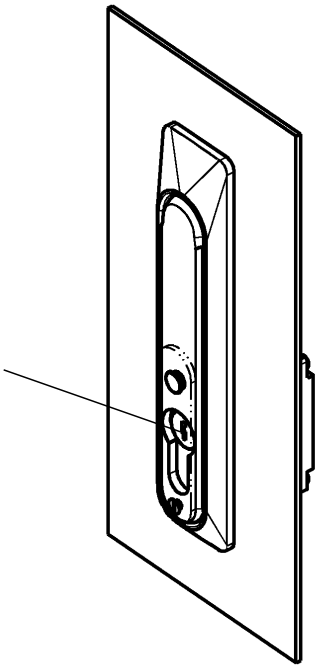
PROGRAM 1150

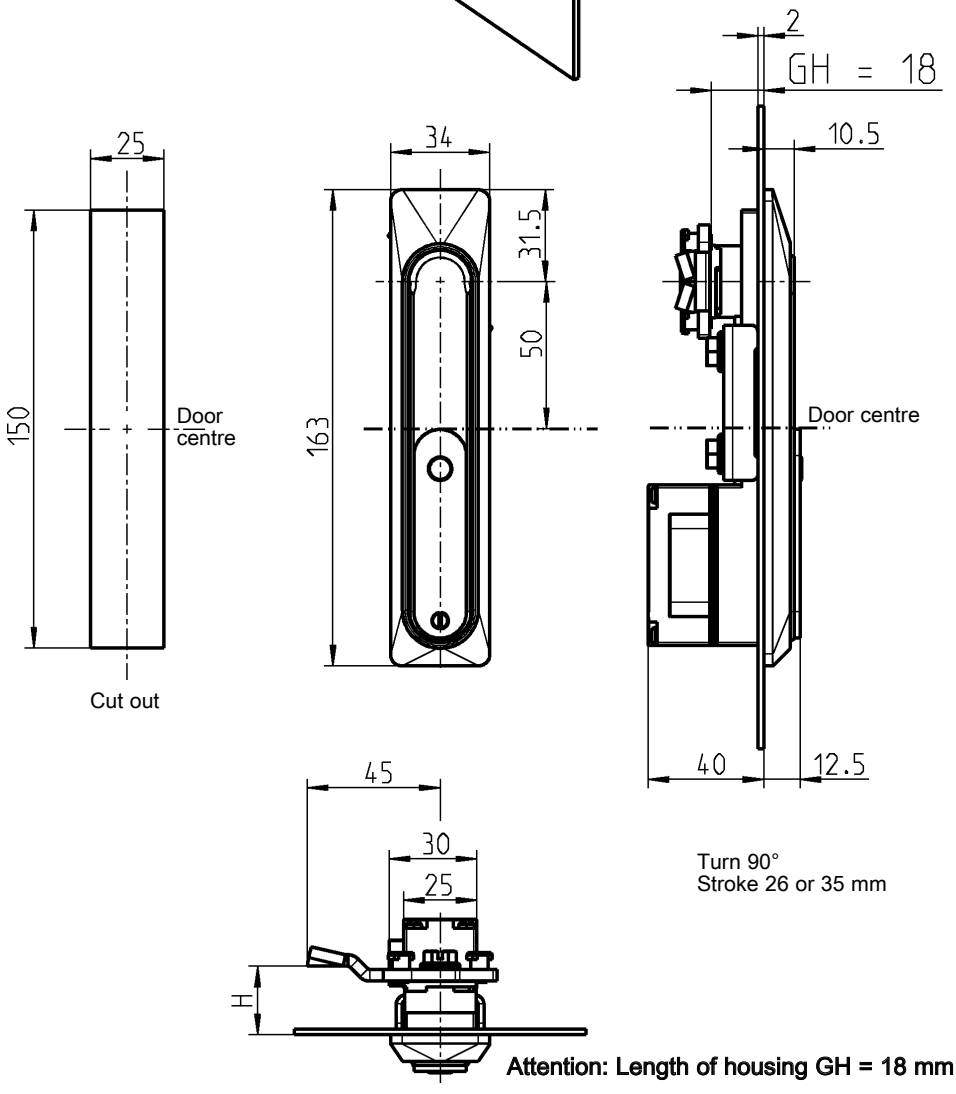
RL IP 65 INOX AISI 3..

EDELSTAHL Rostfrei STAINLESS STEEL

Vandalism resistant







Suitable for Profile half cylinder (length A = 30)DIN 18252 (EN 1303)

Attention: Length of housing GH = 18 mm

Further parts see page

– 3-point cam	8A-790
– Cam	3YC-120
– Rod (Version A)	3ZB-540
– Profile half cylinder	3XB-120

Swinghandle AISI 316, shaft AISI 303, cap polyamide black, fixing material stainless steel, with seal	
for profile half cylinder 40	1154-U2

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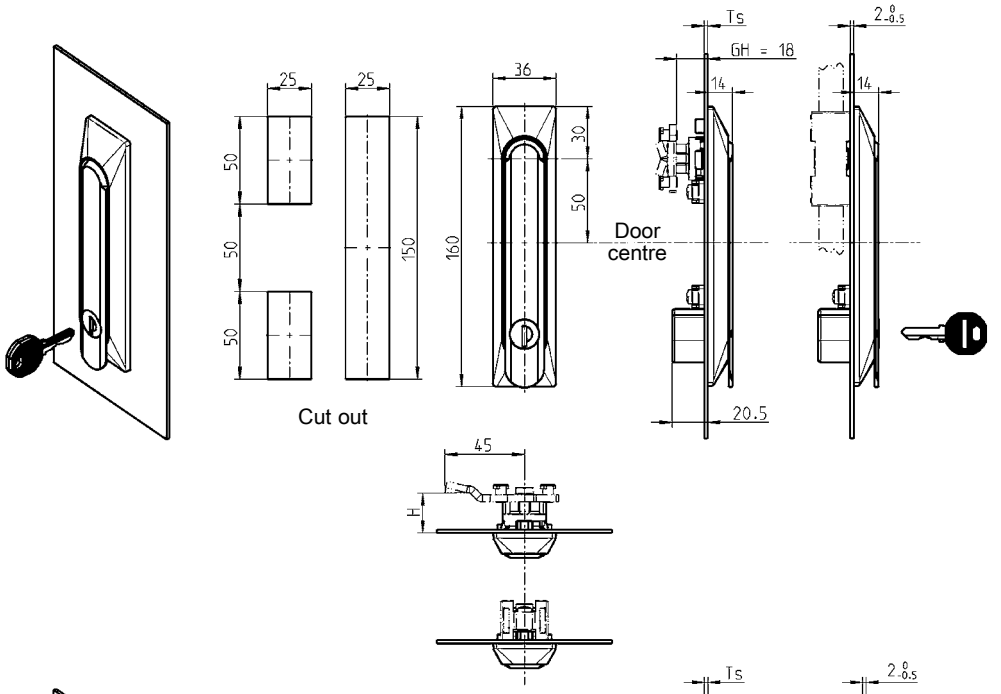
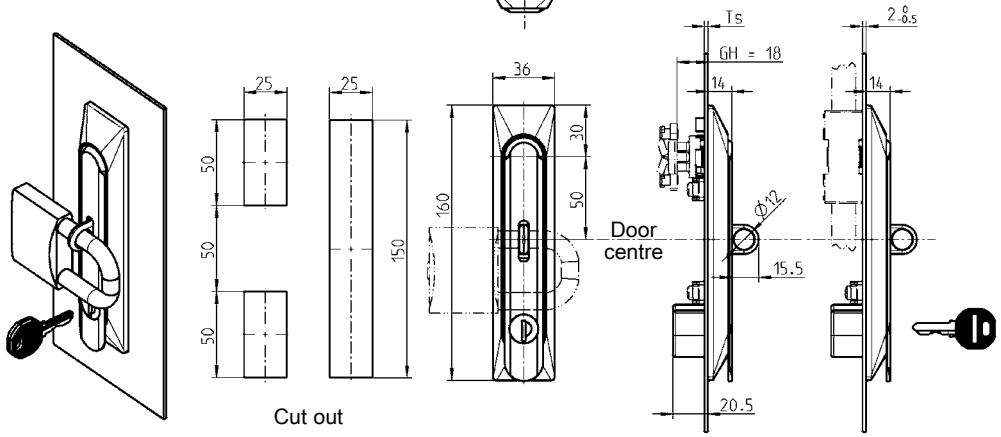
Stainless steel swinghandle* 1150 with universal escutcheon

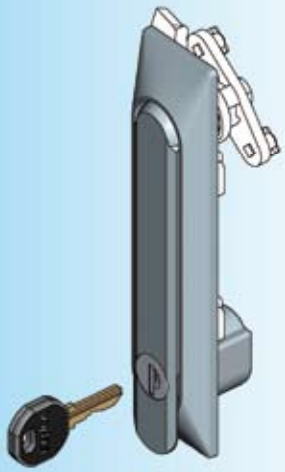
PROGRAM 1150

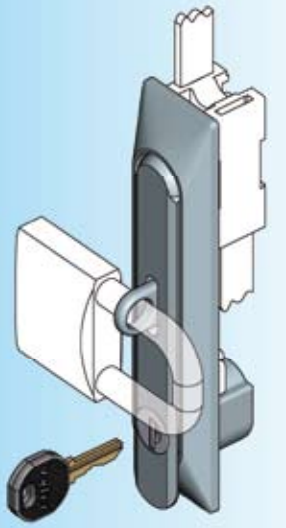
Attention:
Please order fixing material separately
Ts = 1.0 to 3.0 mm depending on choice of fixing material.





Swinghandle and escutcheon AISI 316, shaft AISI 303, with seal round cylinder AISI 316 with stainless steel cap and shutter Each round cylinder has one silver steel key with polyamide grip GF black.	
keyed EK 333	1150-U33-22PH
keyed EK 333 and for padlock	1150-U33-13PH
keyed different	1150-U34-22PH
Insert AISI 316	
Square 6	on request
Square 7	1150-U37-22PH
Square 8	1150-U38-22PH
Triangular 6,5 CNOMO	on request
Triangular 7	1150-U40-22PH
Triangular 8	1150-U41-22PH
Double bit 3	1150-U42-22PH
Double bit 5	1150-U43-22PH
Daimler Benz	on request
Slot 2x4	1150-U35-22PH
Hexagon 8 mm female with pin	on request
Male hexagon 11 mm	on request





* can be assembled in cut out of 1125/1225

Further parts see page

– Fixing material	8A-634
– Cam (GH = 18)	3YC-120
– 3-point cam	8A-790
– Rod control	8A-740
– Key	12B-120
– Spare key	12B-140

On request:
– Key retained in the unlocked position
– Other inserts

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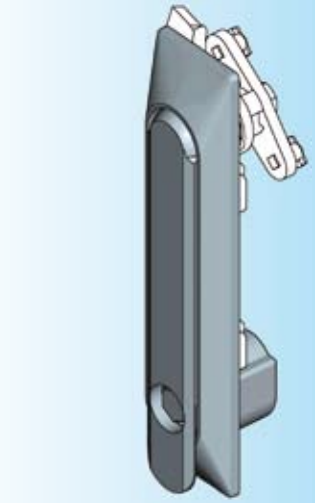
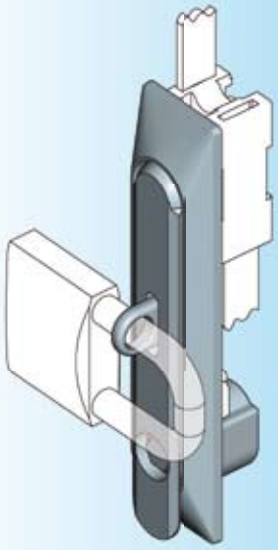
Beschlagteile

®Stainless steel swinghandle* 1150 “Push to Lock” function with universal escutcheon

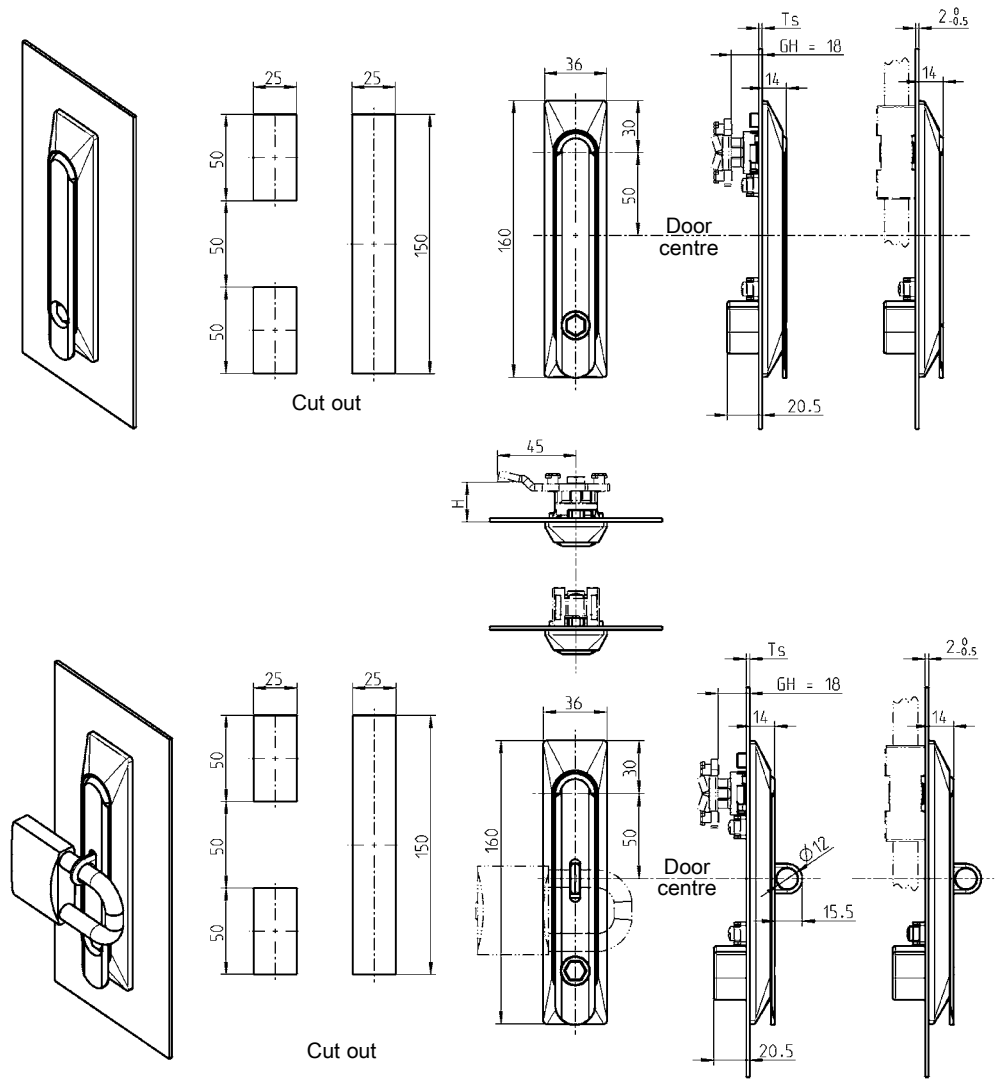
PROGRAM 1150





EDELSTAHL® Rostfrei STAINLESS STEEL

Attention:
Please order fixing material separatly
Ts = 1.0 to 3.0 mm depending on choice of fixing material



Swinghandle and escutcheon AISI 316, shaft AISI 303, with seal		
Insert AISI 316	**Push to lock**	**Push to lock and for padlock**
Square 6	on request	on request
Square 7	on request	on request
Square 8	on request	on request
Triangular 6,5 CNOMO	on request	on request
Triangular 7	on request	on request
Triangular 8	on request	on request
Double bit 3	on request	on request
Double bit 5	on request	on request
Daimler Benz	on request	on request
Slot 2x4	on request	on request
Hexagon 8 mm female with pin	on request	on request
Male hexagon 11 mm	1150-U46-30PH	1150-U46-31PH

* can be assembled in cut out of 1125/1225

Further parts see page

– Fixing material	8A-634
– Cam (GH = 18)	3YC-120
– 3-point cam	8A-790
– Rod control	8A-740
– Key	12B-120
– Spare key	12B-140

On request:
– Other inserts

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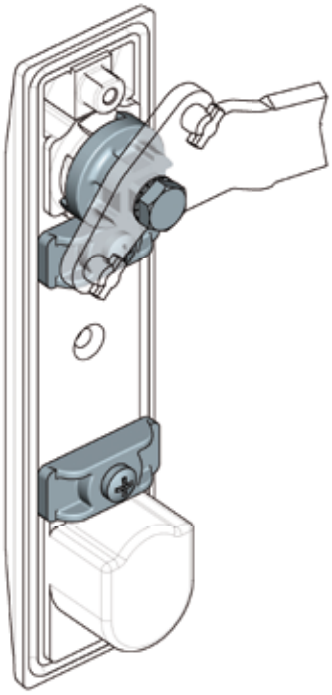
Fixing material for stainless steel swinghandle with universal escutcheon

PROGRAM 1150

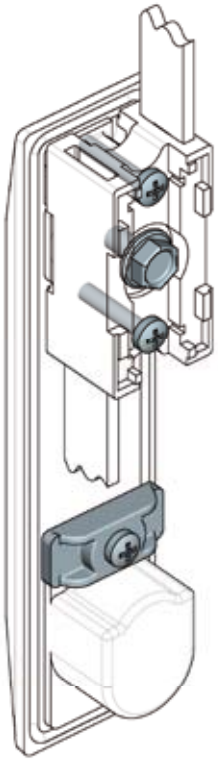
Fixing material for stainless steel swinghandle with cam



Bridge and adapter AISI 316, stainless steel fixing material

Ts = 1.0 to 3.0	1150-U52-PH

Fixing material for stainless steel swinghandle with rod control



Bridge AISI 316, stainless steel fixing material

Ts = 2.0- 0.5	1150-U53-PH

Further parts see page

– Stainless steel swinghandle with universal escutcheon	8A-630 8A-632
– Cam (GH = 18)	3YC-120
– 3-point cam	8A-790
– Rod control	8A-740

On request:
– Other door thicknesses

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EMKA®

Beschlagteile

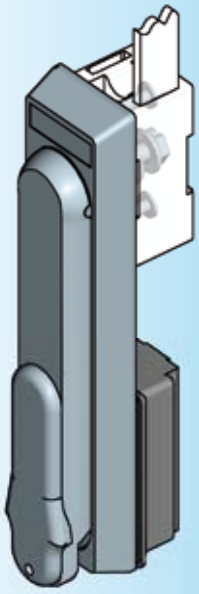
Stainless steel swinghandle

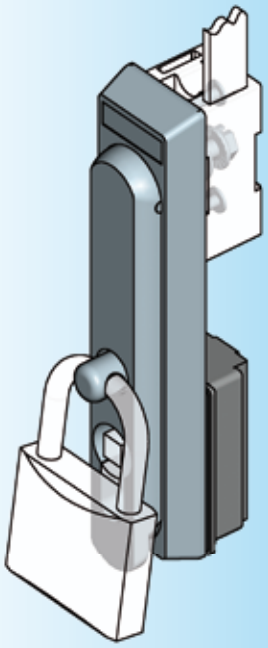
PROGRAM 1125

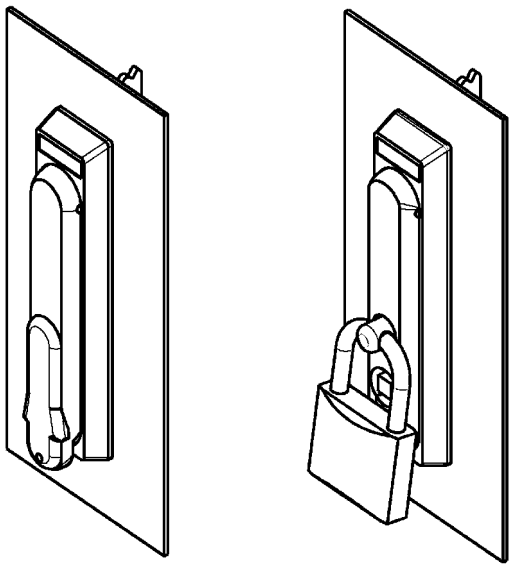
EDELSTAHL Rostfrei STAINLESS STEEL

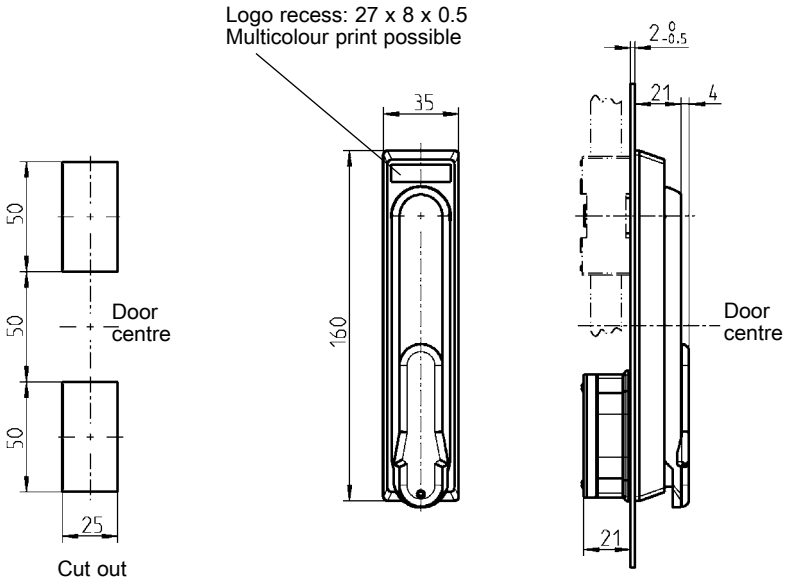
RL

IP 65 IP 66 INOX AISI 3..









Further parts see page

– Rod control	8A-740
– Bearing bush	8A-780
	3YB-120
– Profile half cylinder	3XB-120

Swinghandle AISI 316 for 40 mm profile half cylinder, shaft and padlock device AISI 303; cap polyamide black, with seal	
with dust cap; IP 66	1125-U191-APH
for padlocking < Ø 7,5; IP 65	1125-U184-APH

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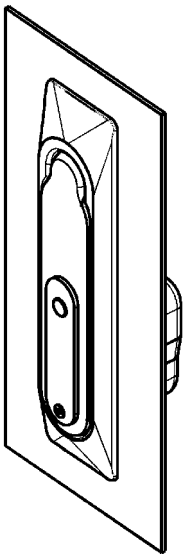
Stainless steel swinghandle 1154 with WK2

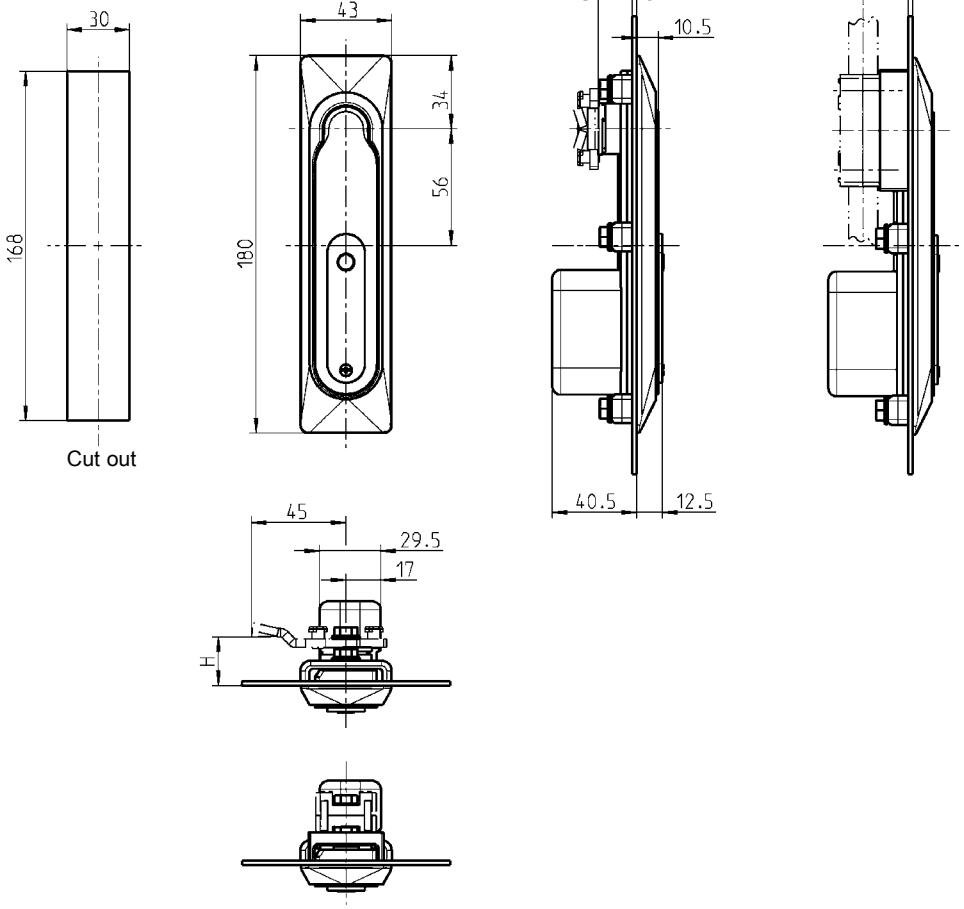
PROGRAM 1150

Suitable for profile half cylinder
(Length A = 30) DIN 18252 (EN 1303)

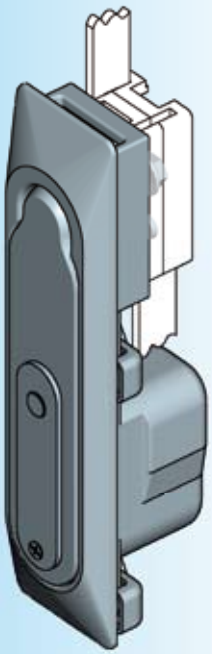
EDELSTAHL Rostfrei STAINLESS STEEL



PIV certificate 20-15/07
The swinghandle has successfully passed the test according to WK 2 DIN V ENV 1630.
The test was approved by the Test Institute for Locks and Fittings in Velbert.



Turn 90° with cam



Swinghandle AISI 316, shaft AISI 303, fastening material stainless steel, with seal	
for cam	1154-U4
for rod control	1154-U5

Further parts see page

– 3-point cam	8A-790
– Cam (GH=18)	3YC-120
– Rod control	8A-760
– Profile half cylinder	3XB-120

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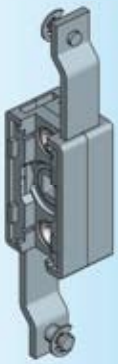
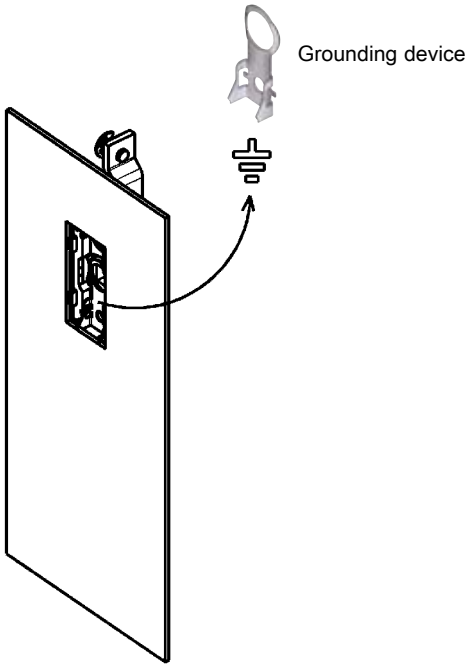
Stainless steel rod control

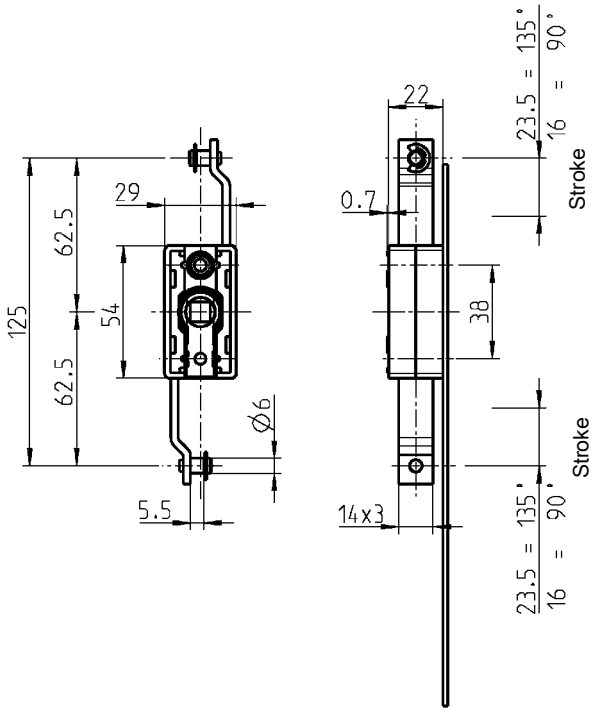
PROGRAM 1125

EDELSTAHL Rostfrei STAINLESS STEEL

INOX AISI 3..







Further parts see page
– Rods
inside 3ZB-120
3ZB-220
– Grounding device 3YA-720

Program 1125
– Escutcheon short 8A-510
8A-520

Rod control housing AISI 316, rods AISI 304

1121-U138

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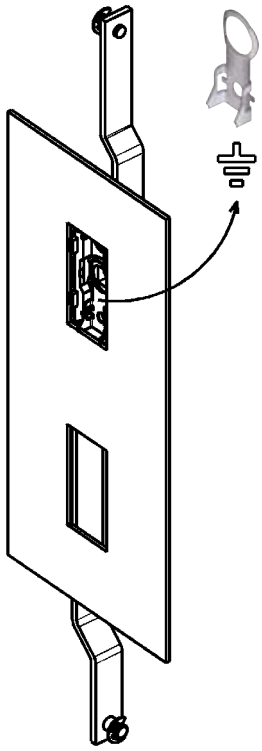
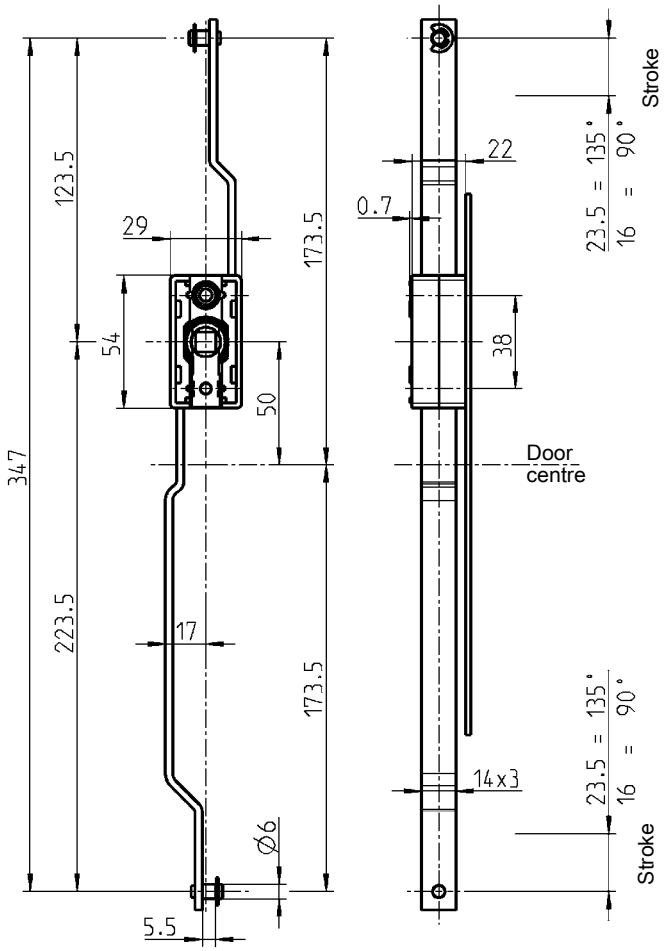
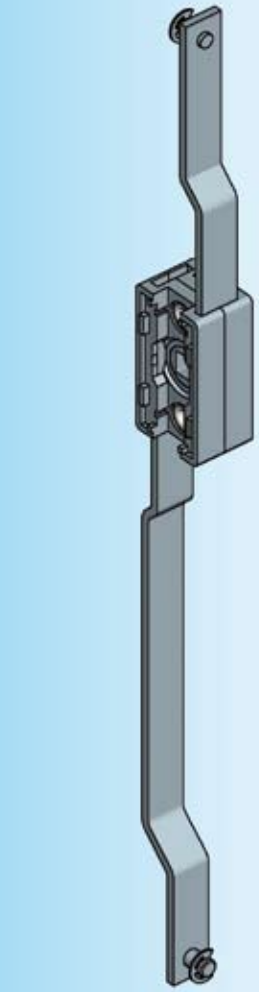
Stainless steel rod control

PROGRAM 1125







Further parts see page

– Rods

outside	3ZA-120 3ZA-320
inside	3ZB-120 3ZB-220
– Grounding device	3YA-720

Program 1125

– Escutcheon long	8A-510 8A-520
– Swinghandle	8A-660

Rod control housing AISI 316, rods AISI 304

1121-U139

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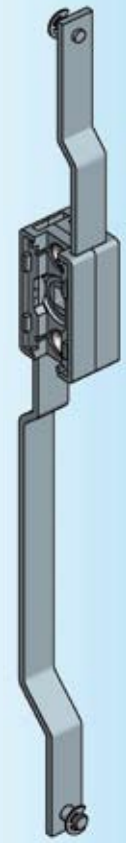
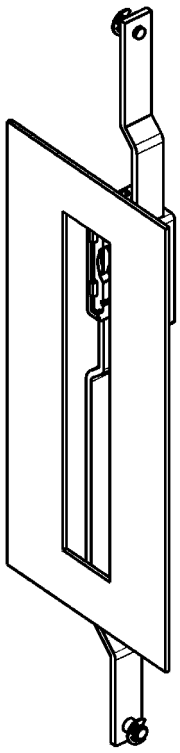
®Stainless steel rod control for swinghandle 1154-U5

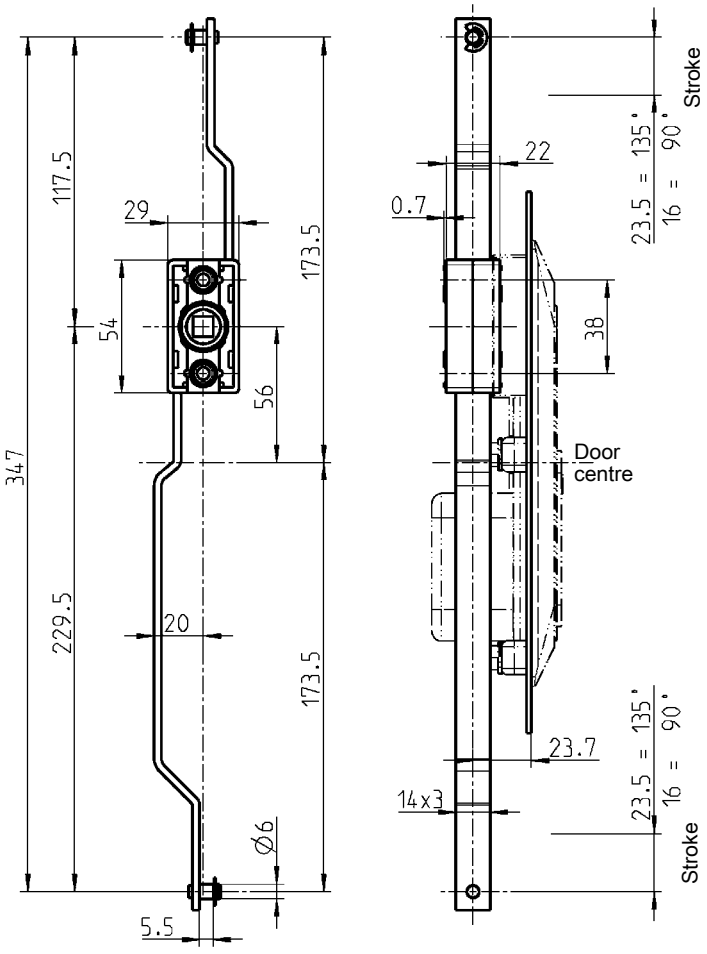
PROGRAM 1150

EDELSTAHL Rost frei STAINLESS STEEL

INOX AISI 3..







Further parts see page
– Rods on request

Program 1150
– Swinghandle 1154 with WK2 8A-680

Rod control housing AISI 316, rods AISI 304

1121-U140

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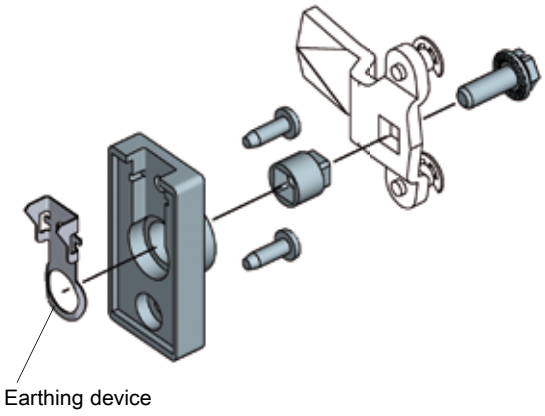
Stainless steel bearing bush, stainless steel rod guide

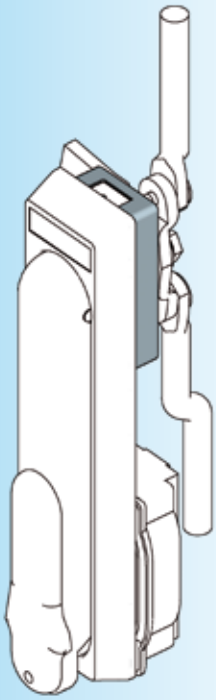
PROGRAM 1121, 1125

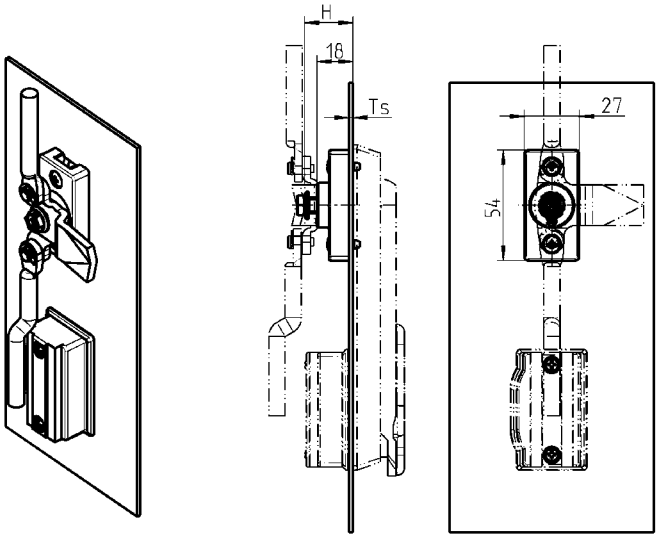
EDELSTAHL Rostfrei STAINLESS STEEL

RL

INOX AISI 3..





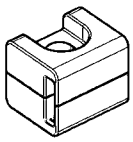


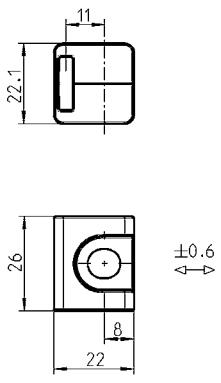
Bearing bush AISI 316	
for Ts 2,0	1125-81-020PH
Order separately: Adapter AISI 316, fixing material stainless steel	
for swinghandle	1125-U284-PH
for escutcheon	1125-U286-PH

Further parts see page
– 3-point cam 8A-790
– Rods 8A-360
– Leading ramp 1C-170

Program 1125
– Escutcheon 8A-510
8A-520
– Swinghandle 8A-660

EDELSTAHL Rostfrei STAINLESS STEEL





Rod guide AISI 316 for weld studs or countersunk screw	
	1121-U71-PH

Further parts see page
– Rods 3ZA-120

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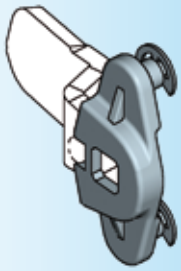
Stainless steel rod control

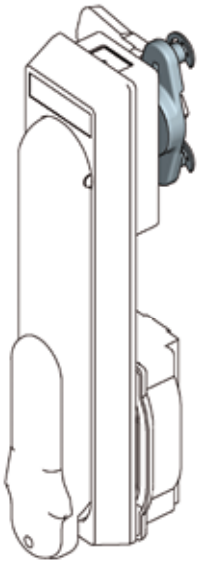
PROGRAM 1125, 1150

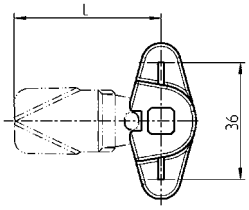
EDELSTAHL Rostfrei STAINLESS STEEL

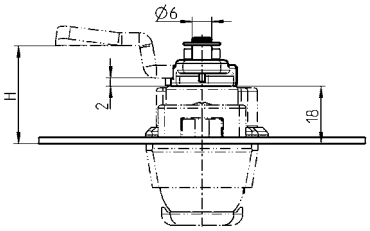


Attention:
By using the rod control the H-dimension of the cam increases by 2 mm

Stroke 18 mm

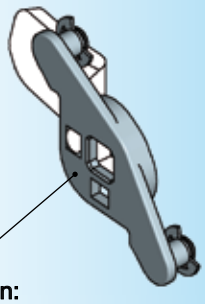






Note:
Rod for rod control combinded with swinghandle 1154 with WK 2 on request only!

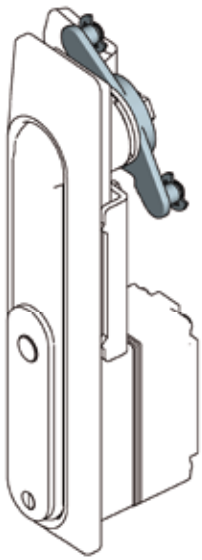
Rod control AISI 316	
	1107-U246-PH

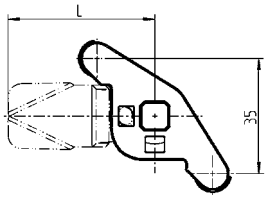


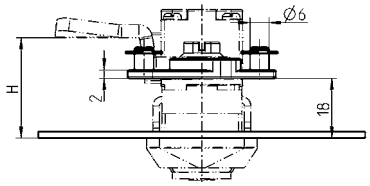
Attention:
Use only rod with eye!

EDELSTAHL Rostfrei STAINLESS STEEL

Stroke 35 mm







Note:
Rod for rod control combinded with swinghandle 1154 with WK 2 on request only!

Rod control AISI 316	
	1150-U57

Further parts see page

– Cam with and without pip	8A-320
– Rod inside (not for swinghandle 1154 with WK2)	8A-360
Program 1091	
– Heavy duty latch	8A-840
Program 1125	
– Bearing bush	8A-780
Program 1150	
– Swinghandle 1154	8A-620
– Swinghandle 1154 with WK2	8A-680

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Stainless steel heavy duty latch

PROGRAM 1091

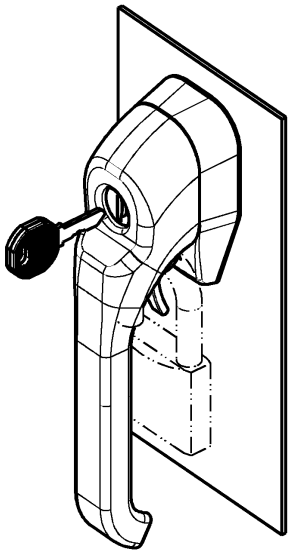
EMKA Beschlagteile

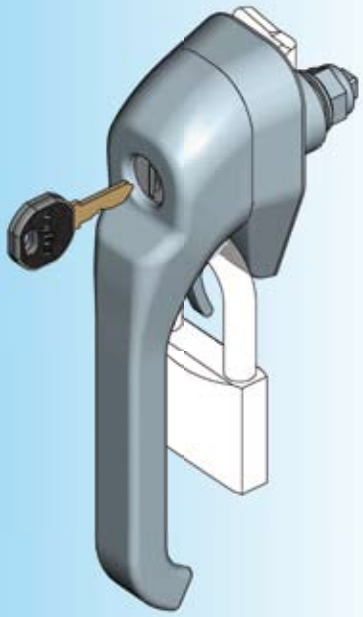
EDELSTAHL Rost frei STAINLESS STEEL

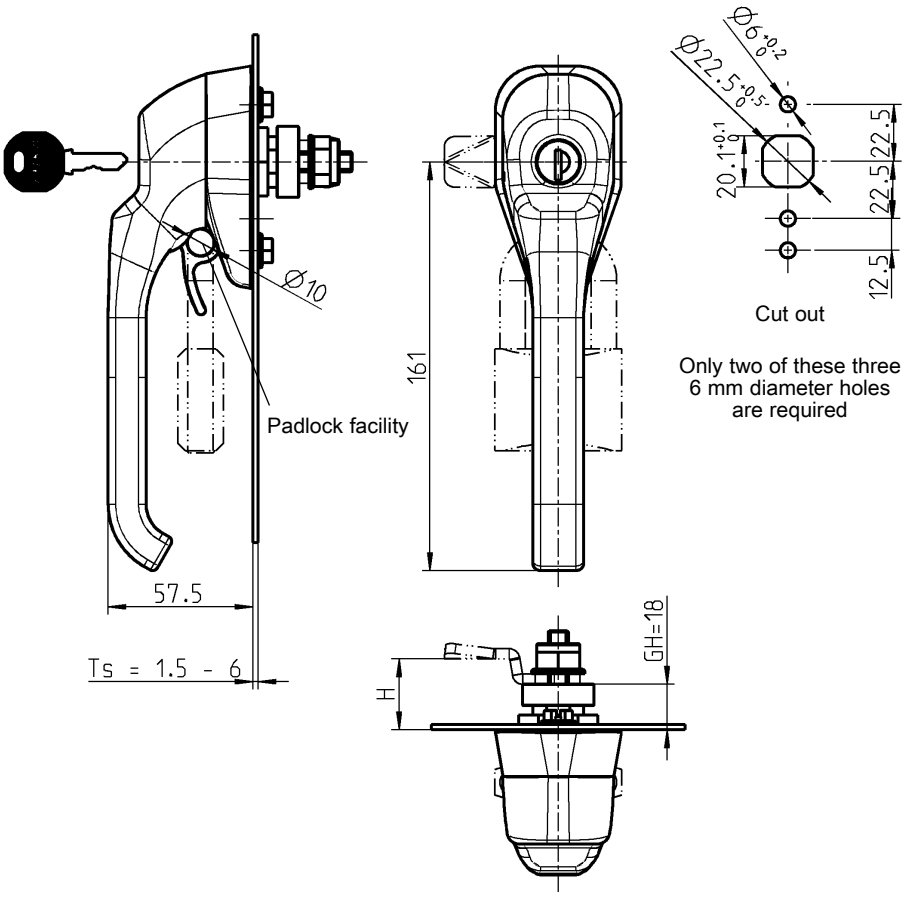
RL

IP 65

INOX AISI 3..







Heavy duty latch AISI 316, round cylinder with stainless steel cap and dust cap zinc die chrome plated Each cylinder has one silver steel key with polyamide GF grip black.	
spring loaded	
without insert	1091-U142
keyed EK 333	1091-U142-02
keyed different	1091-U142-03
Slot 2 x 4	1091-U142-01

Further parts see page

– Cam with pip	8A-320
– 3-point cam	8A-790
– Spare key	12B-140

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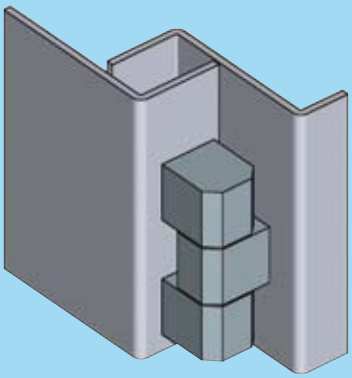
Notes:

Stainless steel hinges

1



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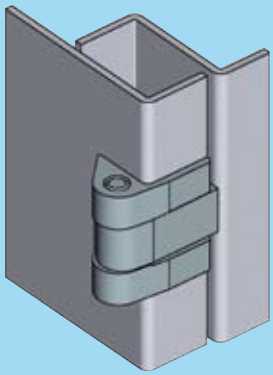

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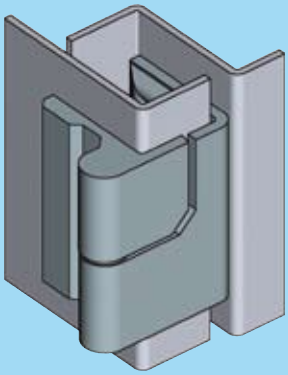

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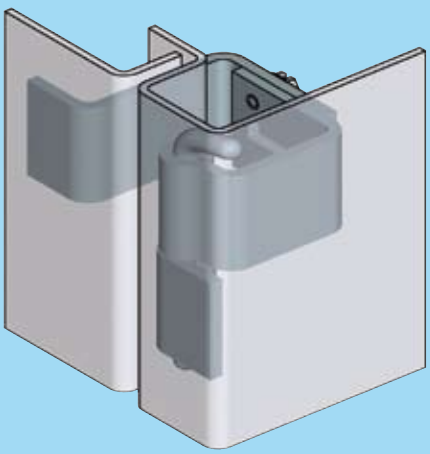

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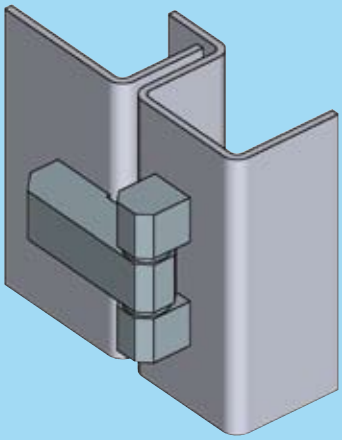

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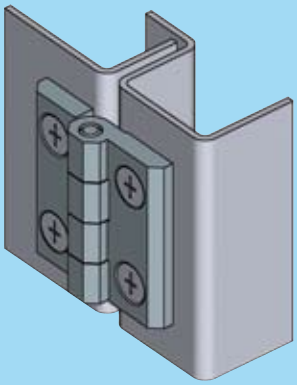
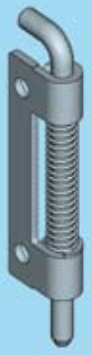


Door and housing/frame pictured transparent

3

3



1 Hinge for prominent door 8B-120 to 8B-180, 8B-400

2 Hinge for flush door 8B-320 to 8B-400

3 Pin hinge 8B-520

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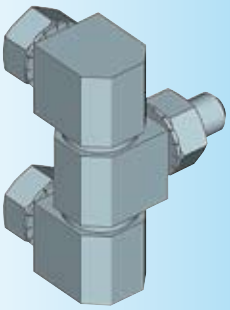
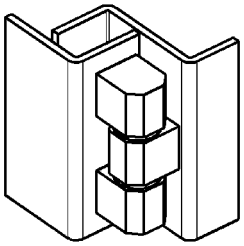
Screw-on hinge stainless steel

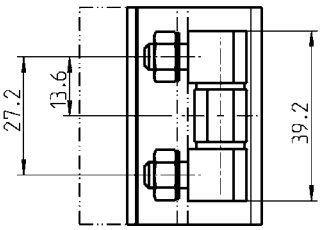
PROGRAM 1039, 1055

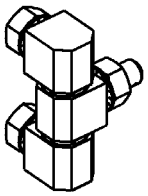
EDELSTAHL Rostfrei STAINLESS STEEL

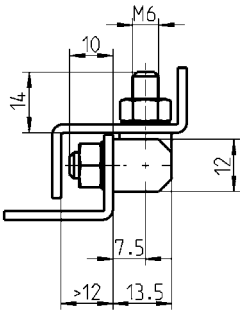
INOX AISI 3..





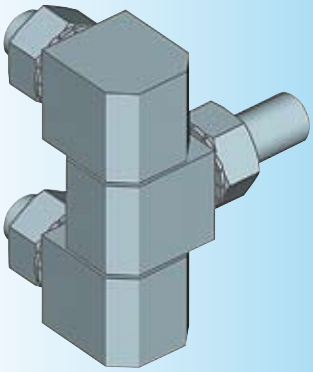


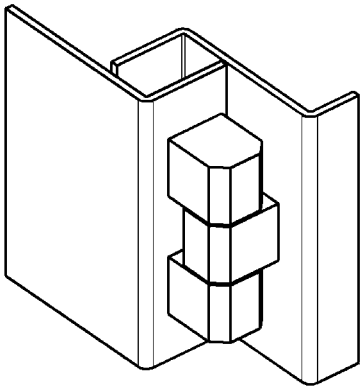


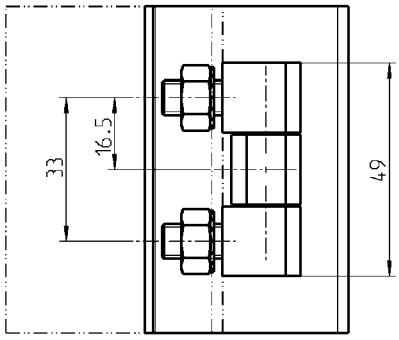


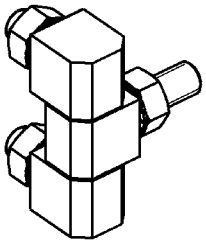
Screw-on hinge	
AISI 303	1055-U6
AISI 316	1055-U8

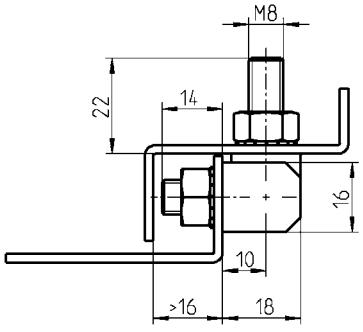
EDELSTAHL Rostfrei STAINLESS STEEL











Screw-on hinge	
AISI 303	1039-U19
AISI 316	1039-U26

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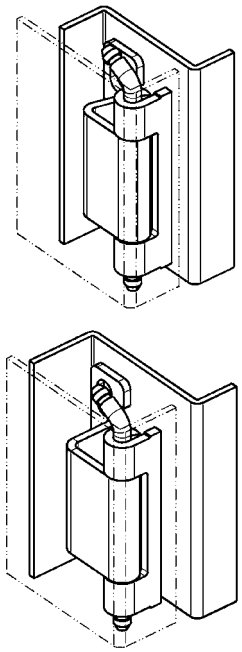
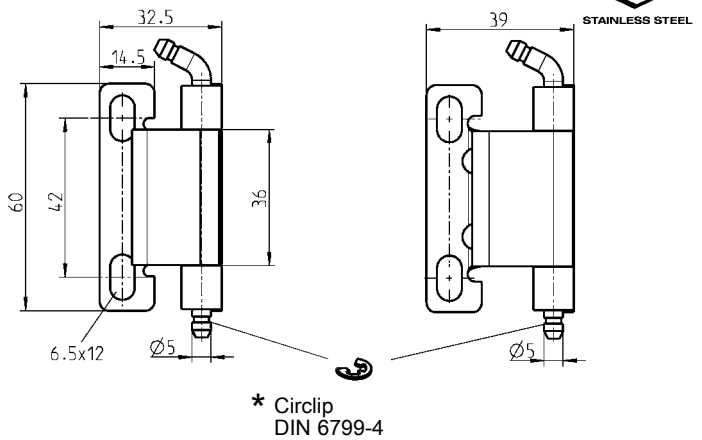
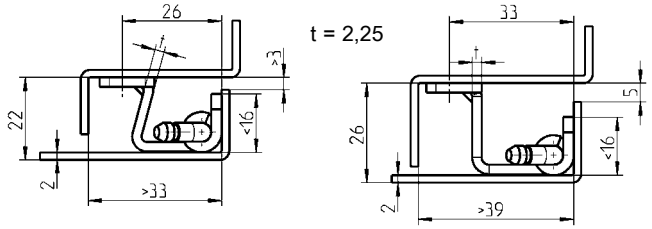
Hinge stainless steel

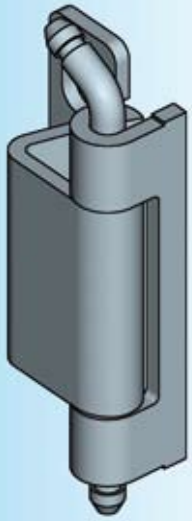
PROGRAM 1032, 1069

120° hinge for 22 or 26 mm door return



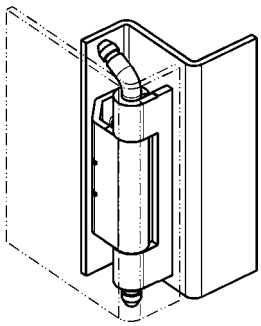


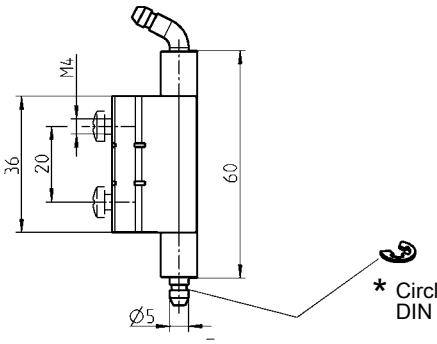


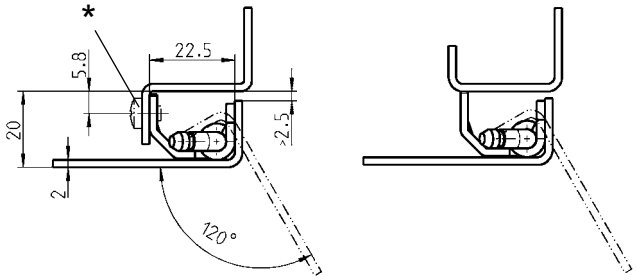


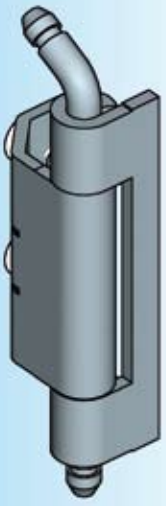
120° hinge AISI 304			
(Dim. 22)	1032-U2	(Dim. 26)	1031-U2

120° hinge for 20 mm door return









Hinge AISI 304			
Screw-on	1069-U4	weld-on	1069-U3

* not included

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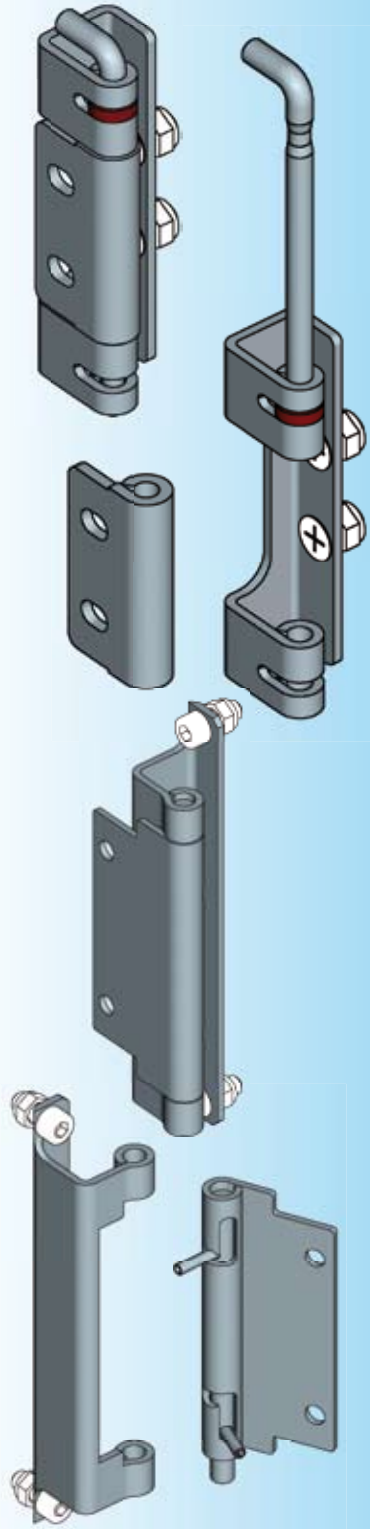
®115° and 125° stainless steel hinge with captive pin

PROGRAM 1031

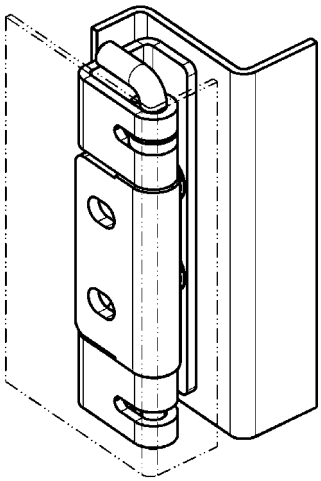


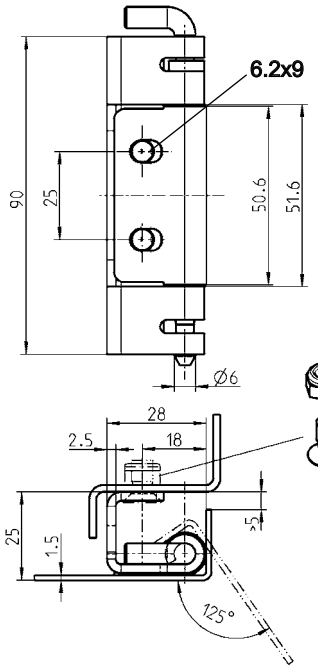
* not included

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

125° hinge for single cabinets for 25 mm door return

EDELSTAHL® Rost frei STAINLESS STEEL





* Safety nut M6

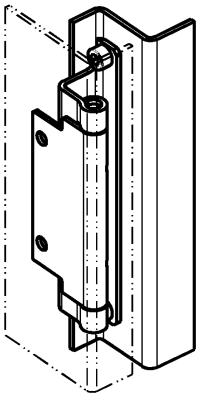
* Countersunk screw with small head M6x...

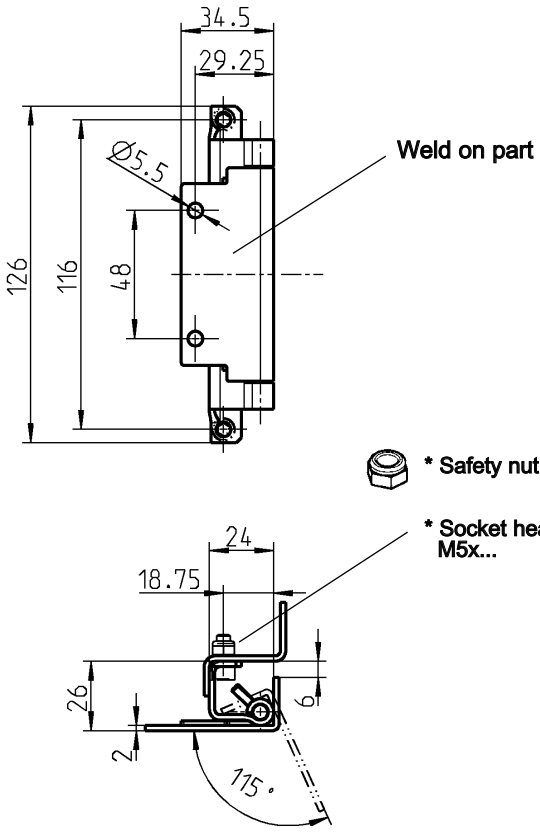
125° hinge AISI 304, shaft clamping ring POM red

1031-U13

115° hinge for single cabinets with 26 mm door return

EDELSTAHL® Rost frei STAINLESS STEEL





* Safety nut M5

* Socket head screw M5x...

115° hinge AISI 304

1031-U14

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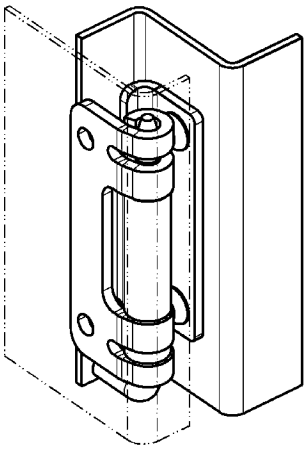
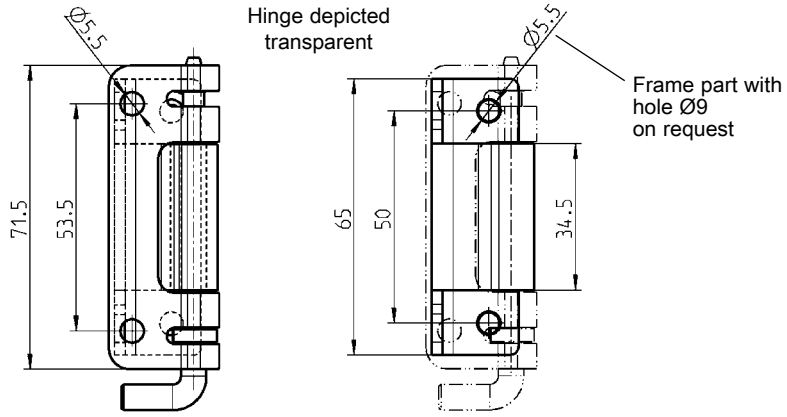
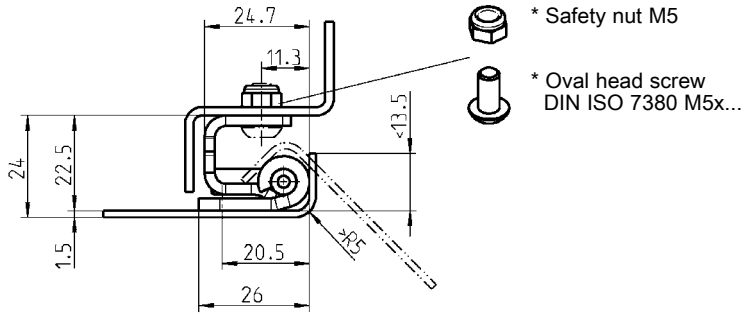
135° stainless steel hinge with captive pin

PROGRAM 1056, 1079

135° hinge for single cabinets for 24 mm door return

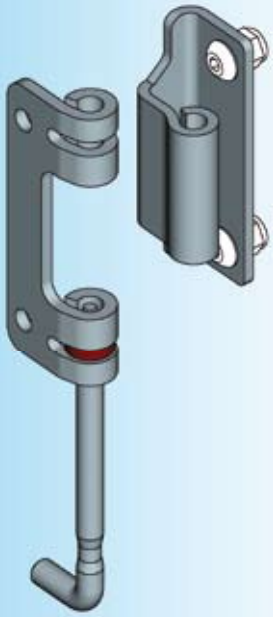


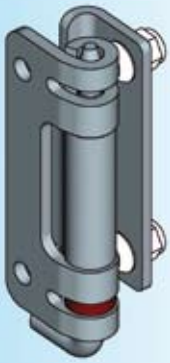




* Safety nut M5

* Oval head screw DIN ISO 7380 M5x...





*** not included**

135° hinge AISI 304; pin AISI 303; shaft clamping ring POM red

Fixing points according to common standards	1031-U15

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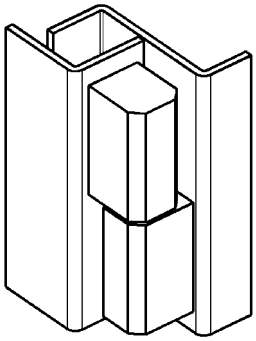
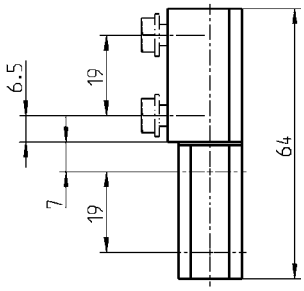
Notes:

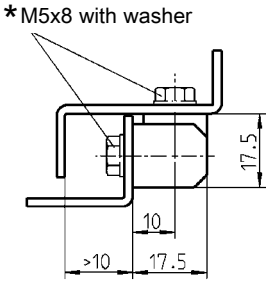
Screw-on hinge stainless steel

PROGRAM 1056, 1079

180° screw-on hinge



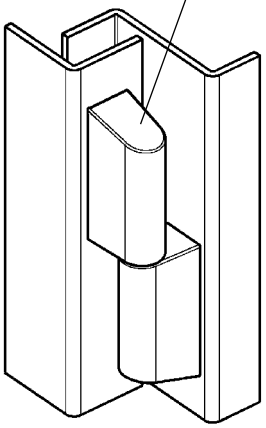


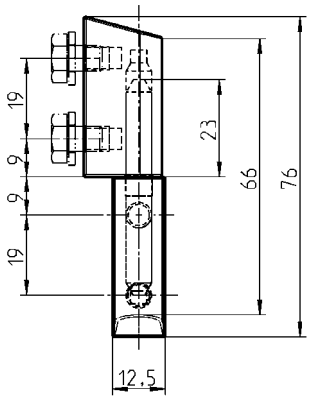


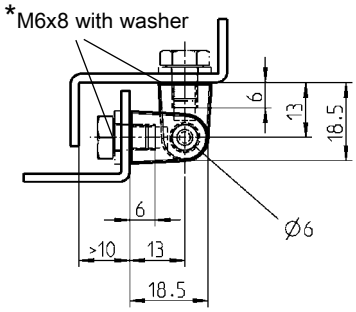
180° screw-on hinge AISI 316

1056-U34-PH

180° screw-on hinge

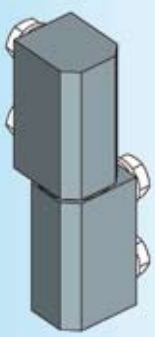


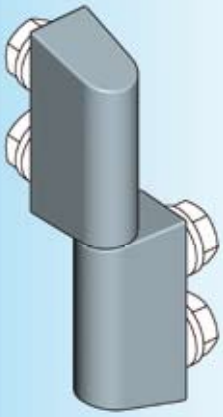




180° screw-on hinge AISI 316

1079-U5-PH





* not included

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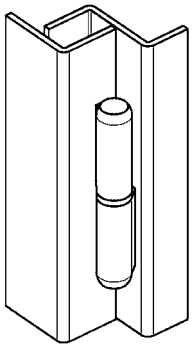
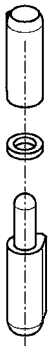
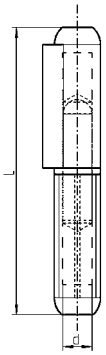
Weld-on hinge stainless steel

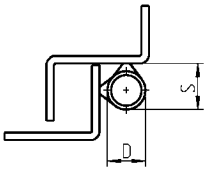
PROGRAM 1033

EDELSTAHL Rostfrei STAINLESS STEEL









Version, with fixed hinge pin AISI 304					
L	**D**	**d**	**S**		
40	8	5	9,5		1033-U76
50	8	5	9,5		1033-U77
60	10	6	12,0		1033-U70
70	11,5	7	13,5		1033-U78
80	13	8	15,5		1033-U71
100	16	10	20,0		1033-U72
120	16	11	20,0		1033-U73
135	18	12	22,0		1033-U79
150	20	13	25,0		1033-U74
180	20	14	25,0		1033-U75

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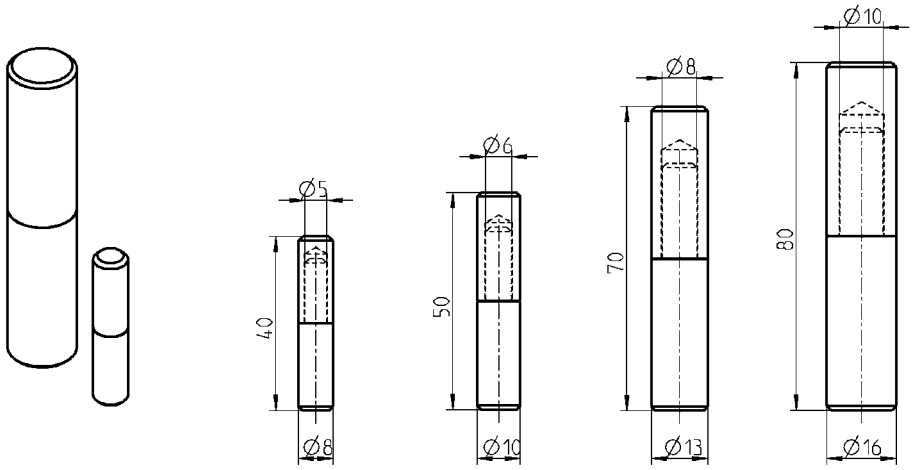
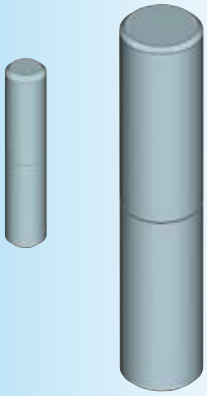
Hinge stainless steel

PROGRAM 1033, 1110

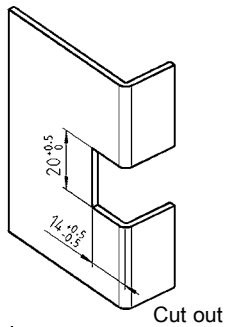
Weld-on hinge





Hinge weld-on				
AISI 304	1033-U45	1033-U46	1033-U47	1033-U48
AISI 316	1033-U49	1033-U50	1033-U51	1033-U52

180° hinge for single cabinets with 20 mm door return



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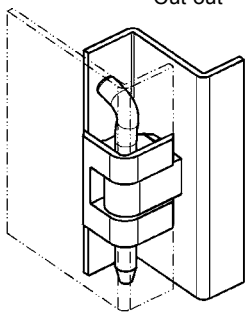
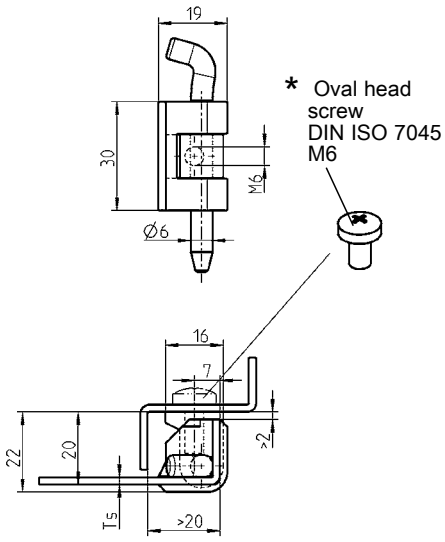
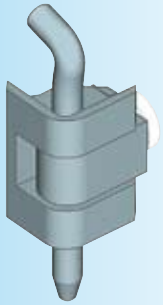




* Oval head screw DIN ISO 7045 M6

with gasket > 25



180° hinge AISI 316, pin AISI 303		
Ts=	0,8 – 1,0	1110-U51
	1,5 – 2,0	1110-U50

* not included

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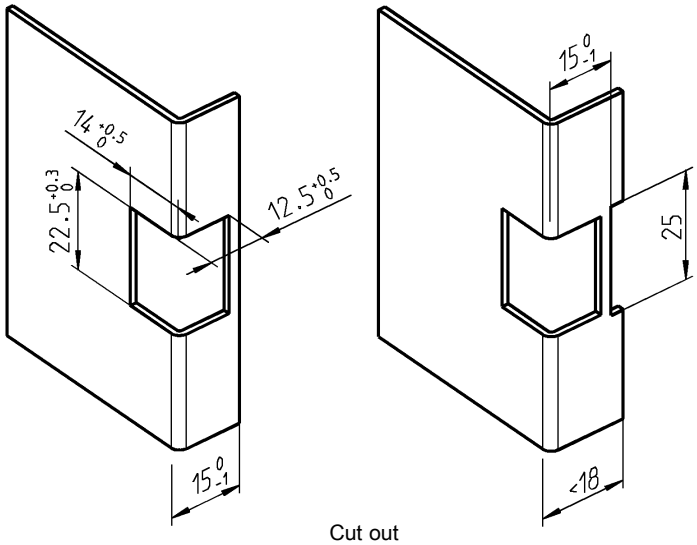
180° hinge stainless steel

PROGRAM 1110

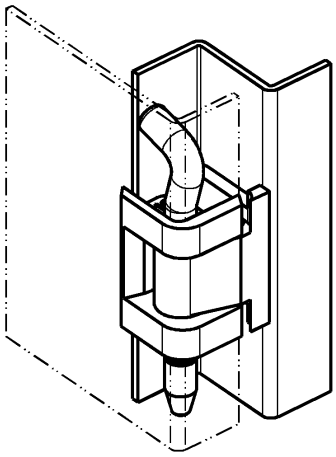
EDELSTAHL Rostfrei STAINLESS STEEL

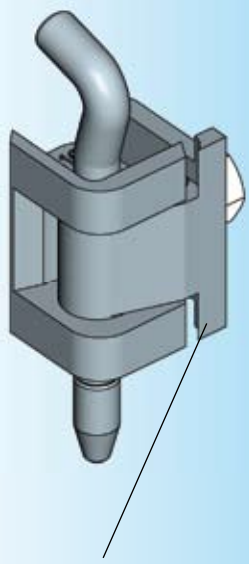
INOX AISI 3..

180° hinge for single cabinets with 20 mm door return

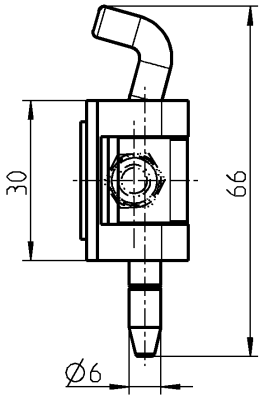


Cut out
as requested

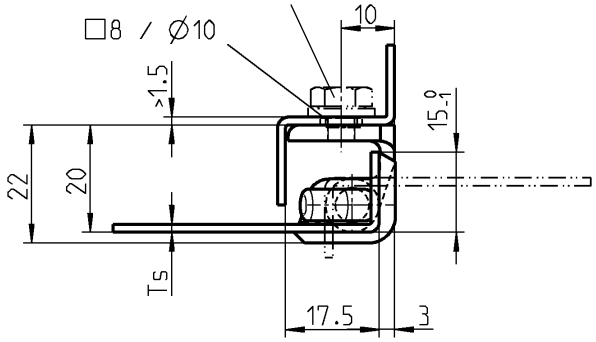




Frame part with
M6-thread and
centering bolt



* Washer DIN ISO 7089 - 6 and
hexagon screw DIN ISO 4017 M6 x 6
for metal gauge 1.5



180° hinge AISI 316, pin AISI 303	
for Ts 1.5	1110-U131
for Ts 2.0	1110-U132

* not included

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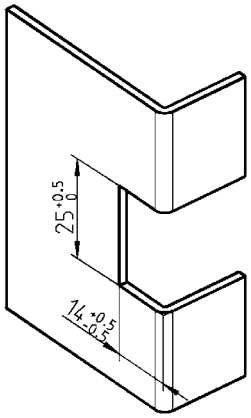
180° hinge stainless steel

PROGRAM 1110

180° hinge for single cabinets for 25 mm door return



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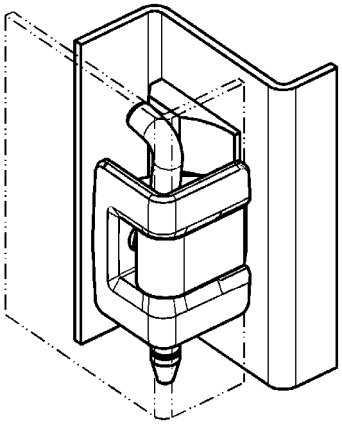

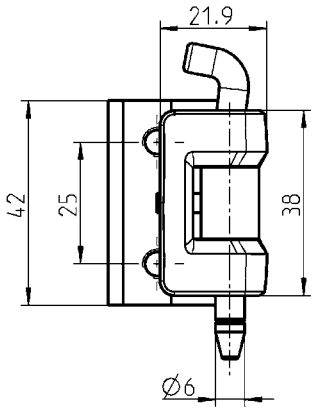

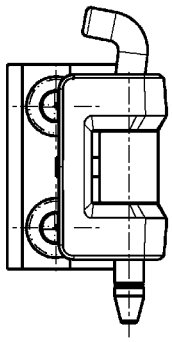

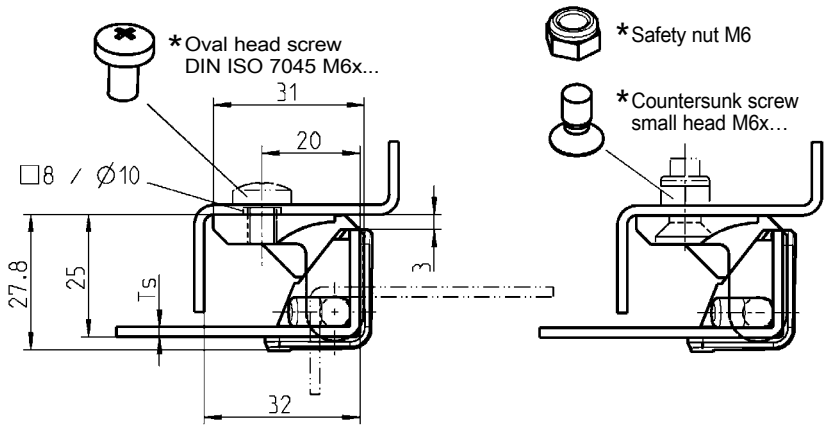

* not included

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

180° hinge AISI 316; pin AISI 303		
	Ts 0.8 - 1.0	**Ts 1.5 - 2.0**
Locking screw M6	1110-U134	1110-U135
Countersunk screw M6 (2D-nut possible)	1110-U136	1110-U137

Further parts see page
– 2D-nut 12E-120

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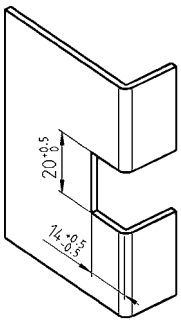
Notes:

180° hinge stainless steel

PROGRAM 1110

180° hinge for in-line cabinets with adjacent door for 20 mm door return

EDELSTAHL Rostfrei STAINLESS STEEL



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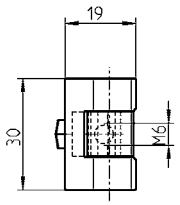
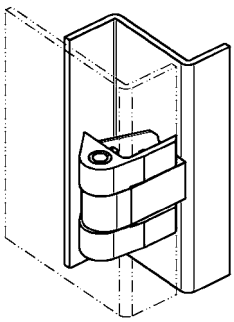
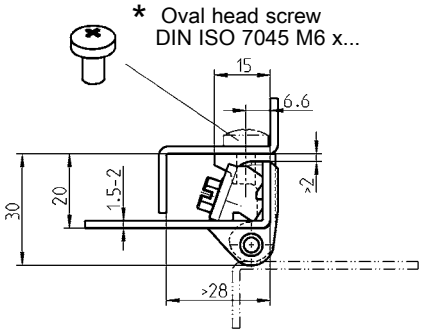
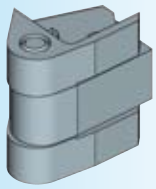




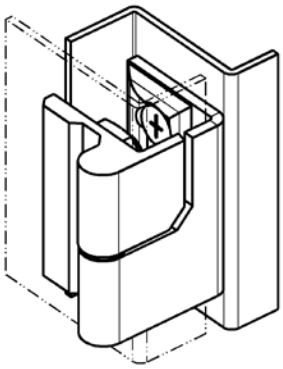


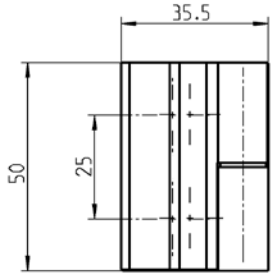
180° hinge AISI 316; pin AISI 304; screw AISI 303	
	1110-U5-NPH

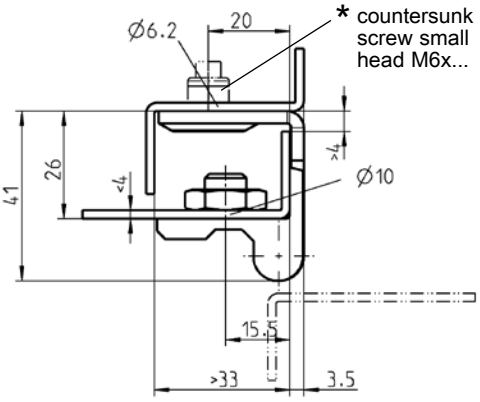


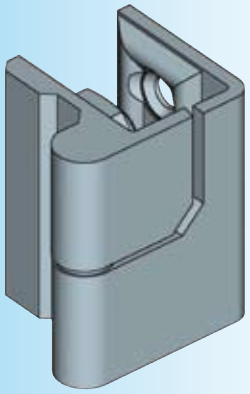
180° hinge for in-line cabinets with adjacent door for 26 mm door return

EDELSTAHL Rostfrei STAINLESS STEEL









180° hinge AISI 316, pin and nut AISI 304		
LH	(2D-nut possible)	1110-U120-PH
RH	(2D-nut possible)	1110-U121-PH

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

* not included

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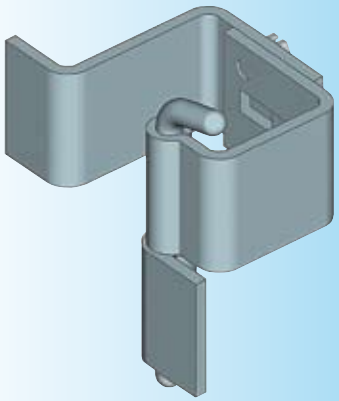
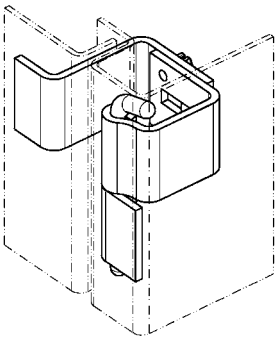
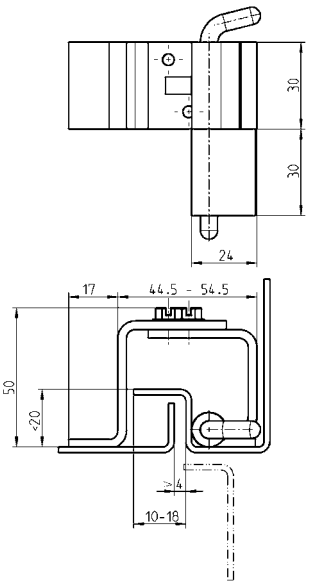
Concealed hinge stainless steel

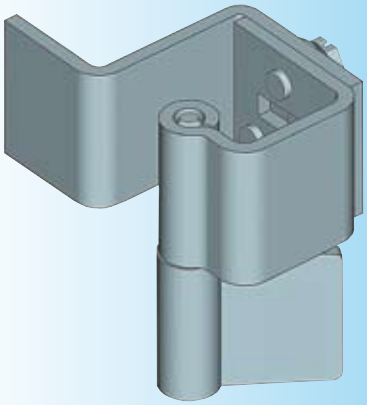
PROGRAM 1006, 1046

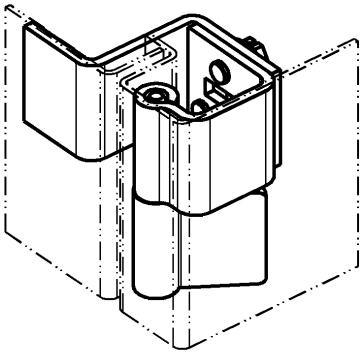


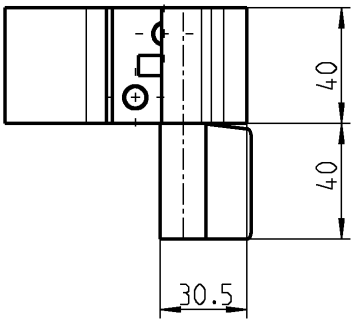


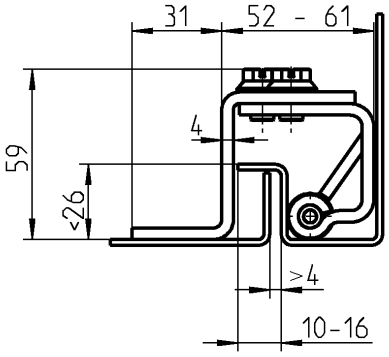


Concealed hinge AISI 304 and AISI 303	
	1006-U1-PC









Concealed hinge AISI 304 and AISI 303	
	1046-U5

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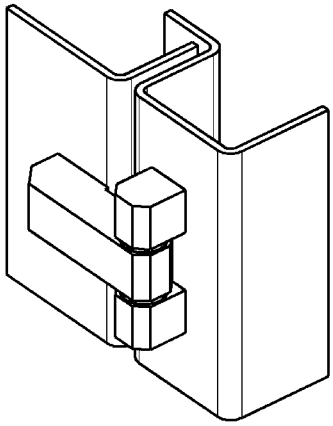
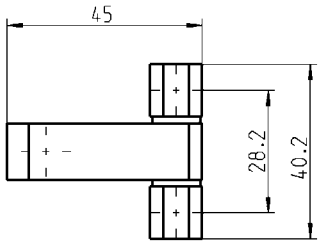
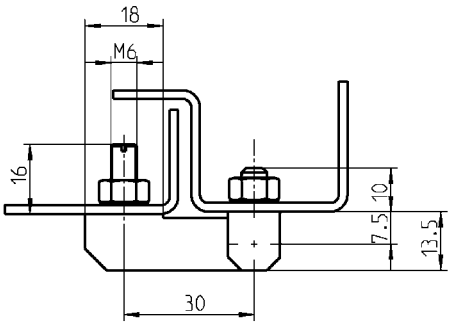
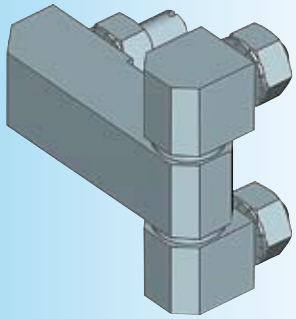
Screw-on hinge stainless steel

PROGRAM 1039, 1055

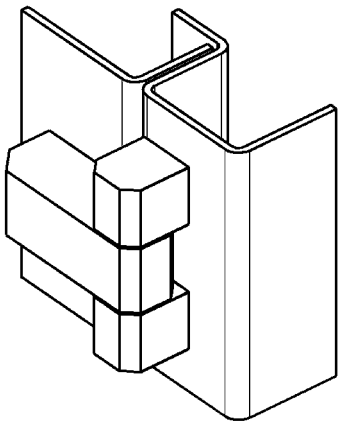


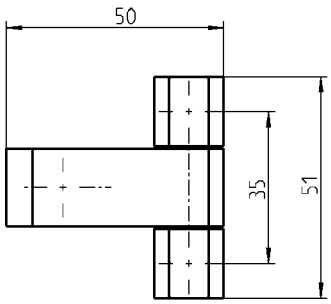


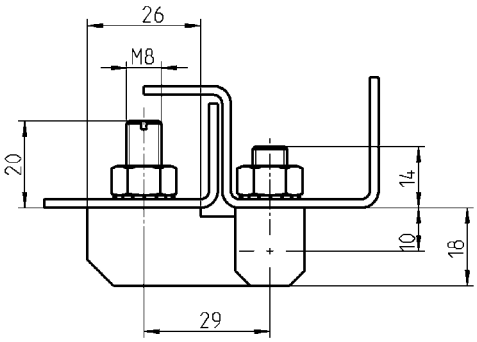


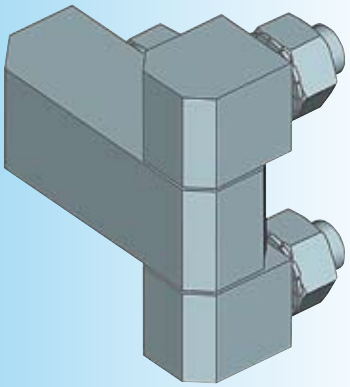


Screw-on hinge	
AISI 303	1055-U7
AISI 316	1055-U9









Screw-on hinge	
AISI 303	1039-U18
AISI 316	1039-U25

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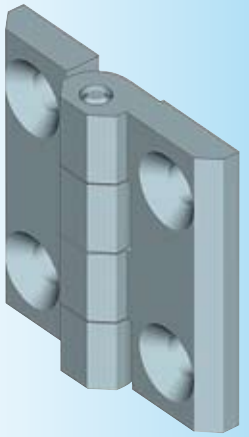
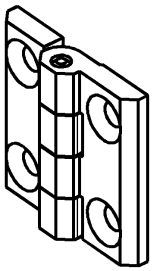
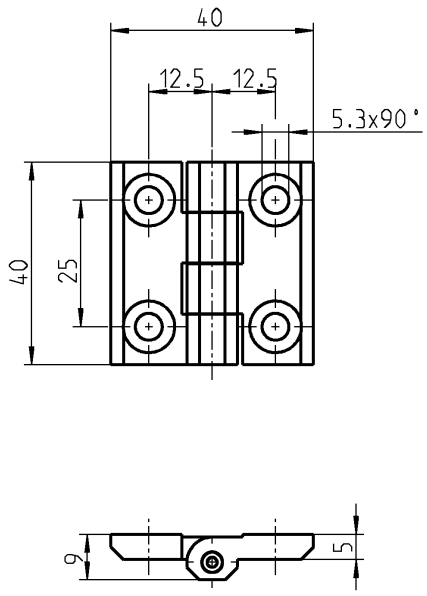
Stainless steel - 180° screw-on hinge

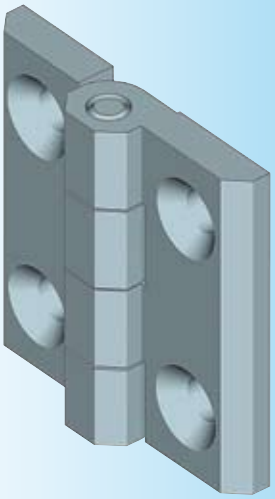
PROGRAM 1056

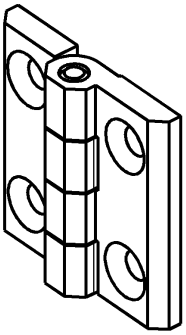


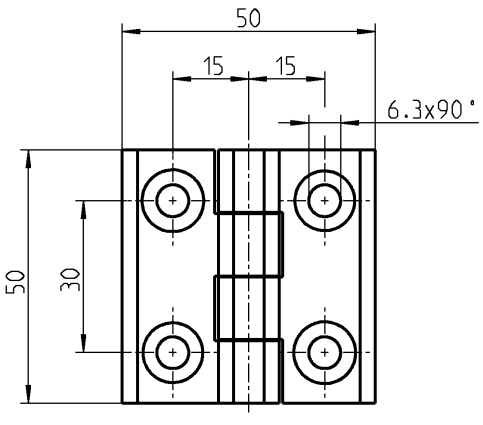




Screw-on hinge AISI 316 for countersunk screw M5	
	1056-U5-PH







Screw-on hinge AISI 316 for countersunk screw M6	
(2D-nut possible)	1056-U9-PH

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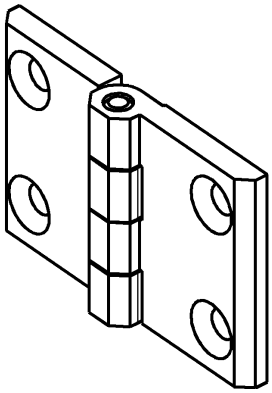
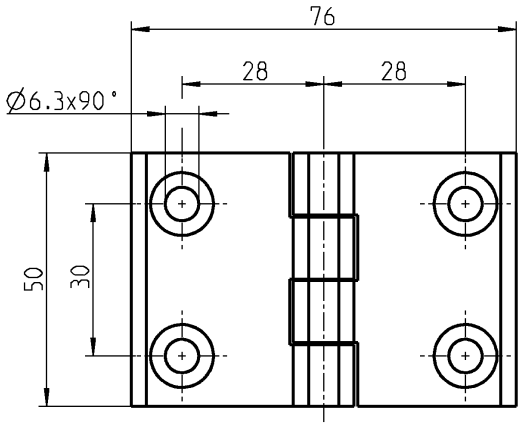
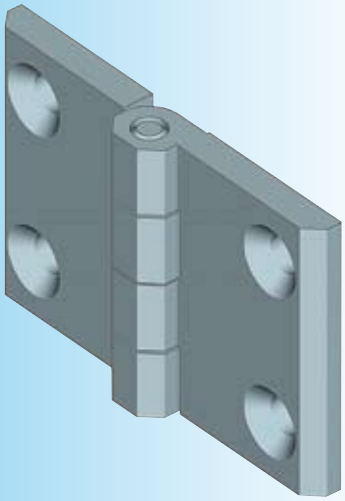
Stainless steel 180° and 270° screw-on hinge

PROGRAM 1056

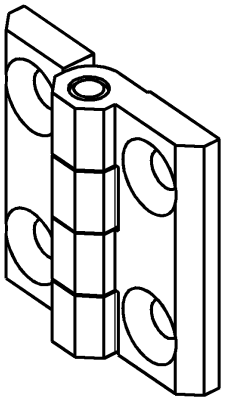


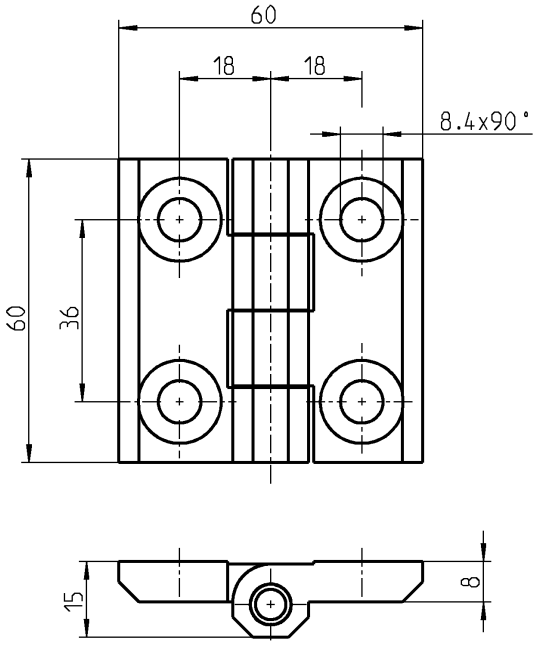


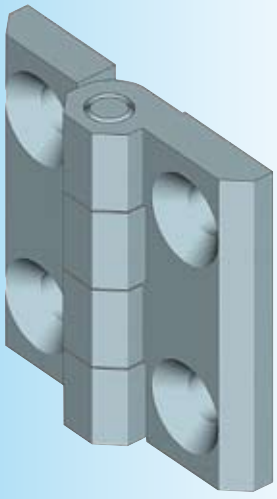


270° screw-on hinge AISI 316 for countersunk screws M6

(2D-nut possible)	1056-U17-PH







180° screw-on hinge AISI 316 for countersunk screw M8

	1056-U13-PH

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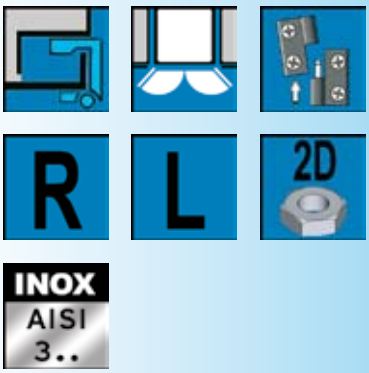
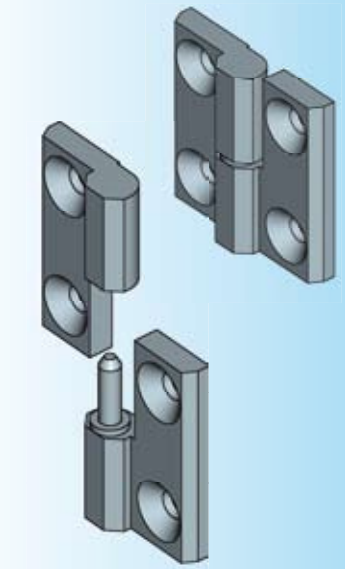
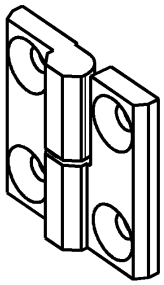
Stainless steel - 180° screw-on hinge

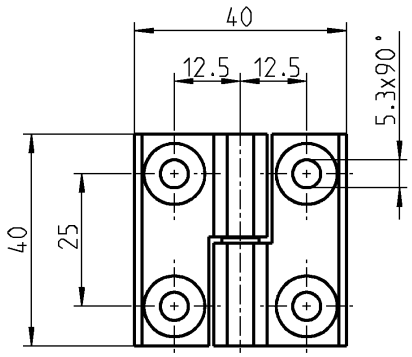
PROGRAM 1056



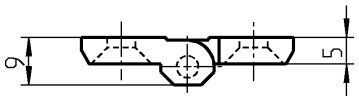


EDELSTAHL Rostfrei STAINLESS STEEL

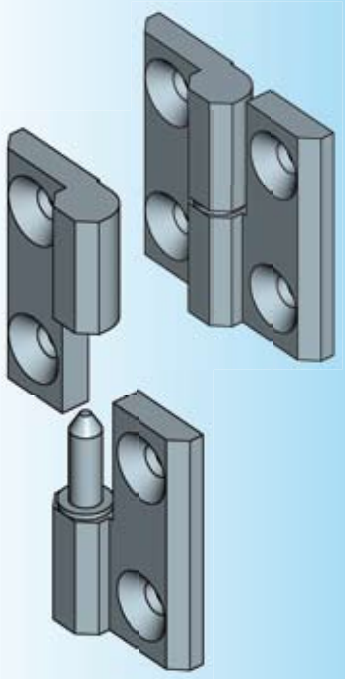




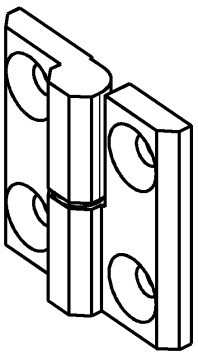
Right-hand version shown
Left-hand version is a mirror-image

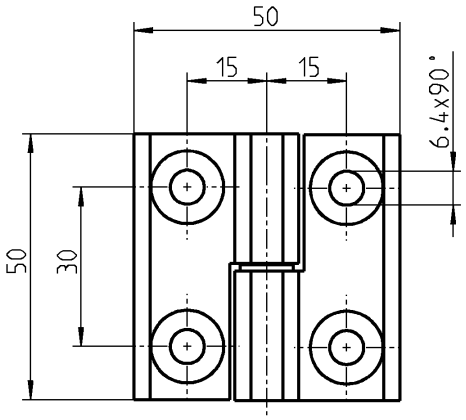


Screw-on hinge AISI 316, washer and pin stainless steel, for countersunk screw M5	
LH version	1056-U54-PH
RH version	1056-U53-PH

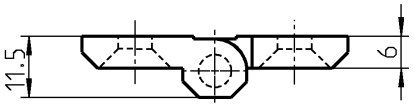


EDELSTAHL Rostfrei STAINLESS STEEL





Right-hand version shown
Left-hand version is a mirror-image



Screw-on hinge AISI 316, washer and pin stainless steel, for countersunk screw M6 (2D-nut possible)	
LH version	1056-U56-PH
RH version	1056-U55-PH

Further parts see page
– 2D-nut 12E-120

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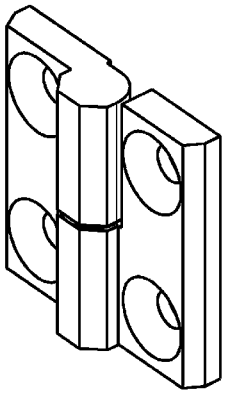
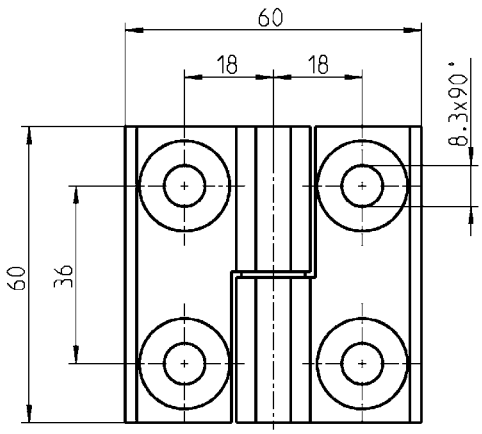
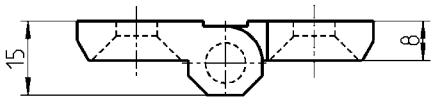
Stainless steel - 180° screw-on hinge

PROGRAM 1056

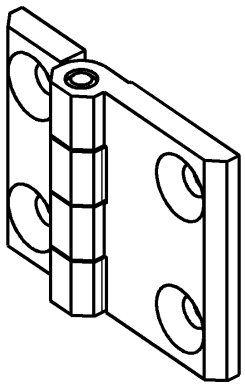


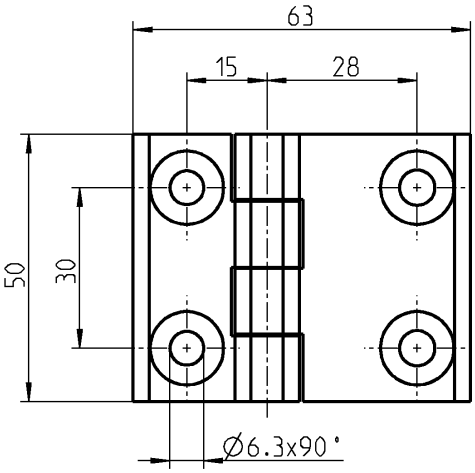
Right-hand version shown
Left-hand version is a mirror-image

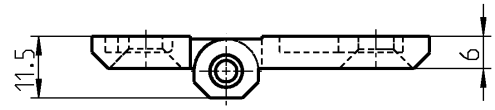




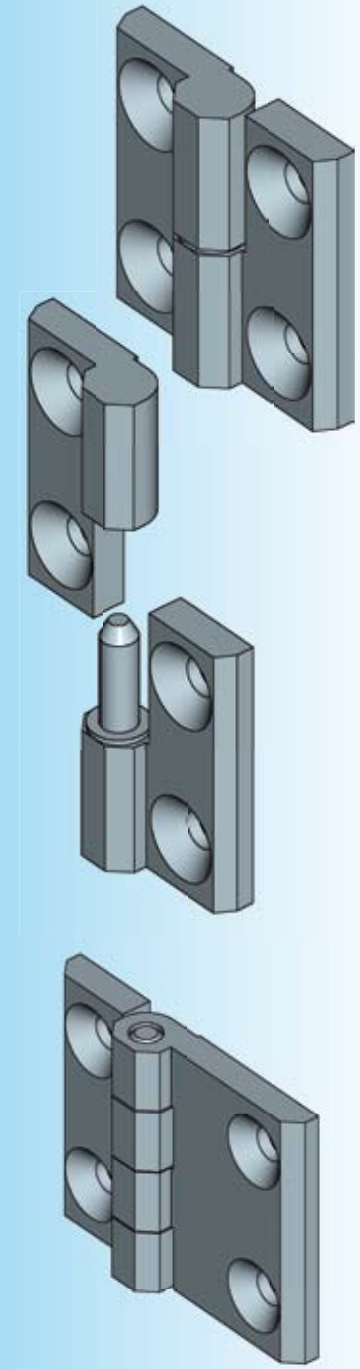
Screw-on hinge AISI 316, washer and pin stainless steel, for countersunk screw M8	
LH version	1056-U58-PH
RH version	1056-U57-PH







Screw-on hinge AISI 316, pin stainless steel, for countersunk screw M6	
(2D-nut possible)	1056-U59-PH



Further parts see page
– 2D-nut 12E-120

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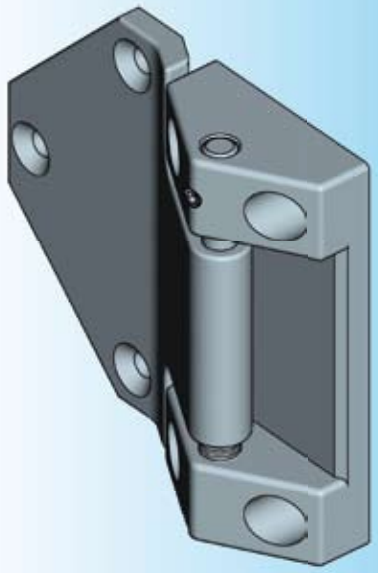
180° screw-on hinge stainless steel adjustable

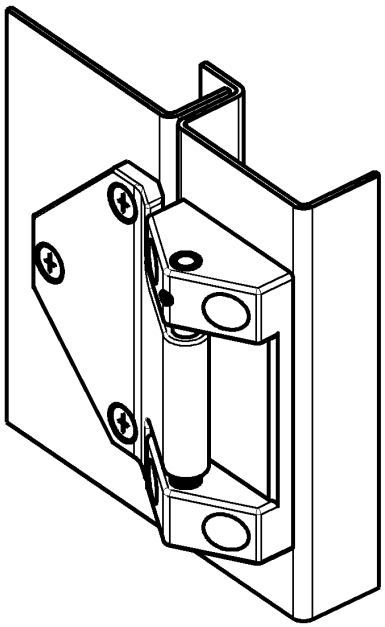
PROGRAM 1054

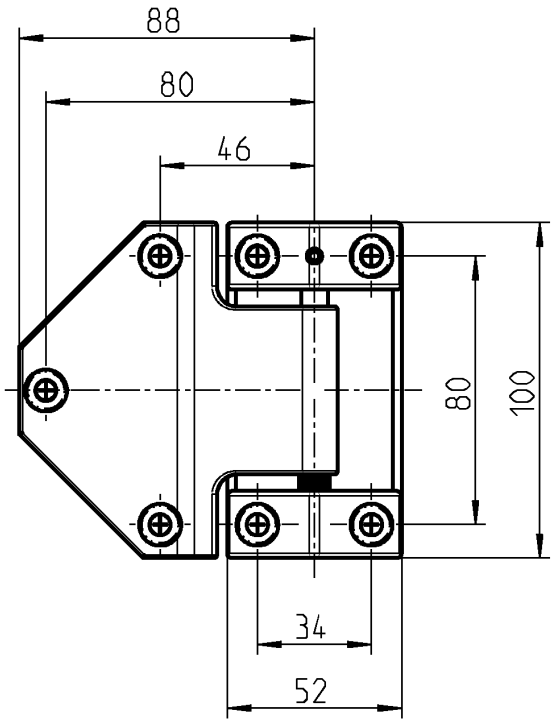
EDELSTAHL Rostfrei STAINLESS STEEL



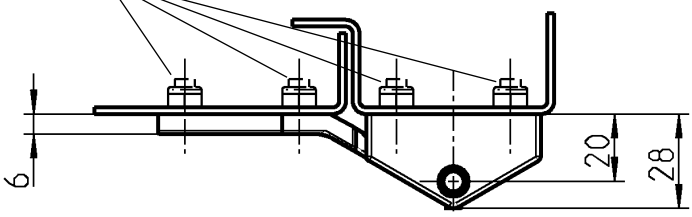
Height adjustment ±4 mm

RH or LH version by turning around the door part





* Countersunk screw small head M6x…



* 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

1054-U39

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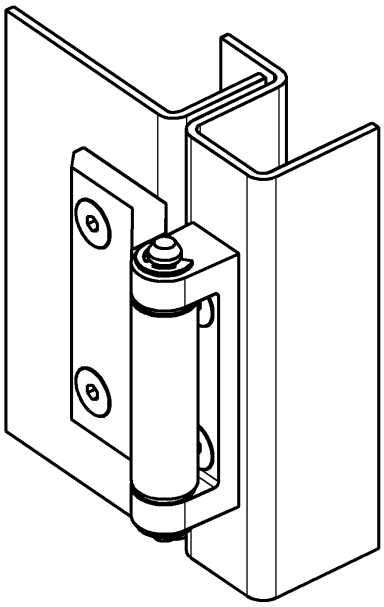
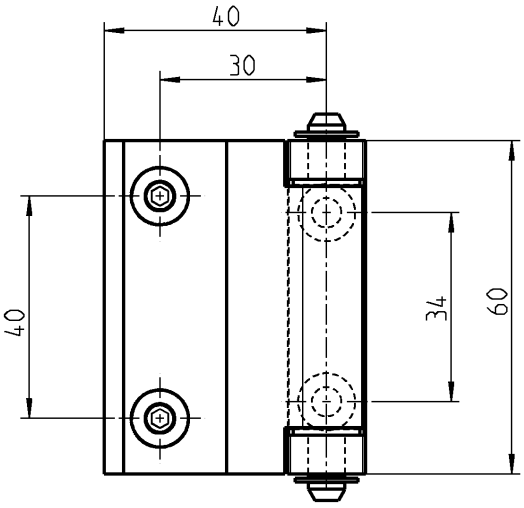
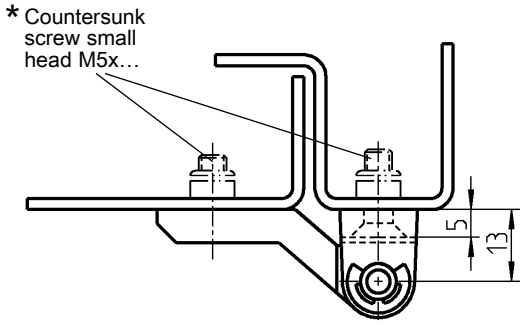
Stainless steel - 180° screw-on hinge

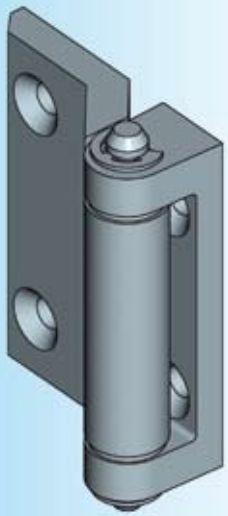
PROGRAM 1054

EDELSTAHL Rost frei STAINLESS STEEL









* not included

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

Screw on hinge AISI 316, bushes polyamide

1054-U5-PH

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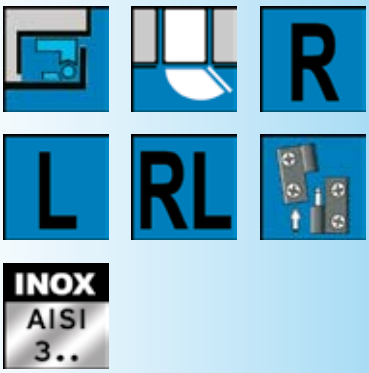
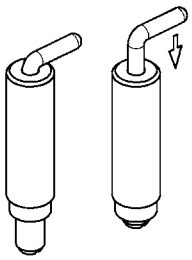
Pin hinge stainless steel

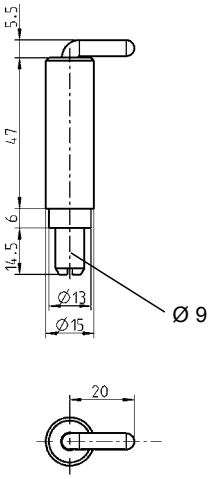
PROGRAM 1117



EDELSTAHL Rost frei STAINLESS STEEL

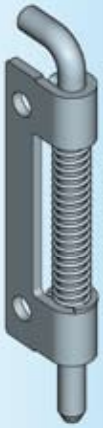
Spring loaded



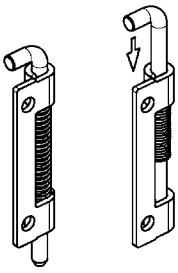


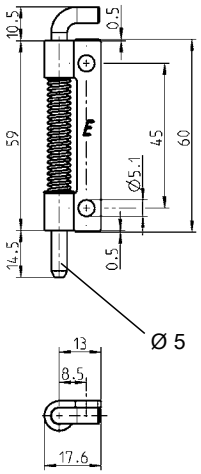
Pin hinge AISI 304, pin AISI 303, spring stainless steel	
	1117-U1-PF

EDELSTAHL Rost frei STAINLESS STEEL



Spring loaded





Pin hinge AISI 304, pin AISI 303, spring stainless steel	
RH	1117-U4-PC
LH	1117-U5-PC

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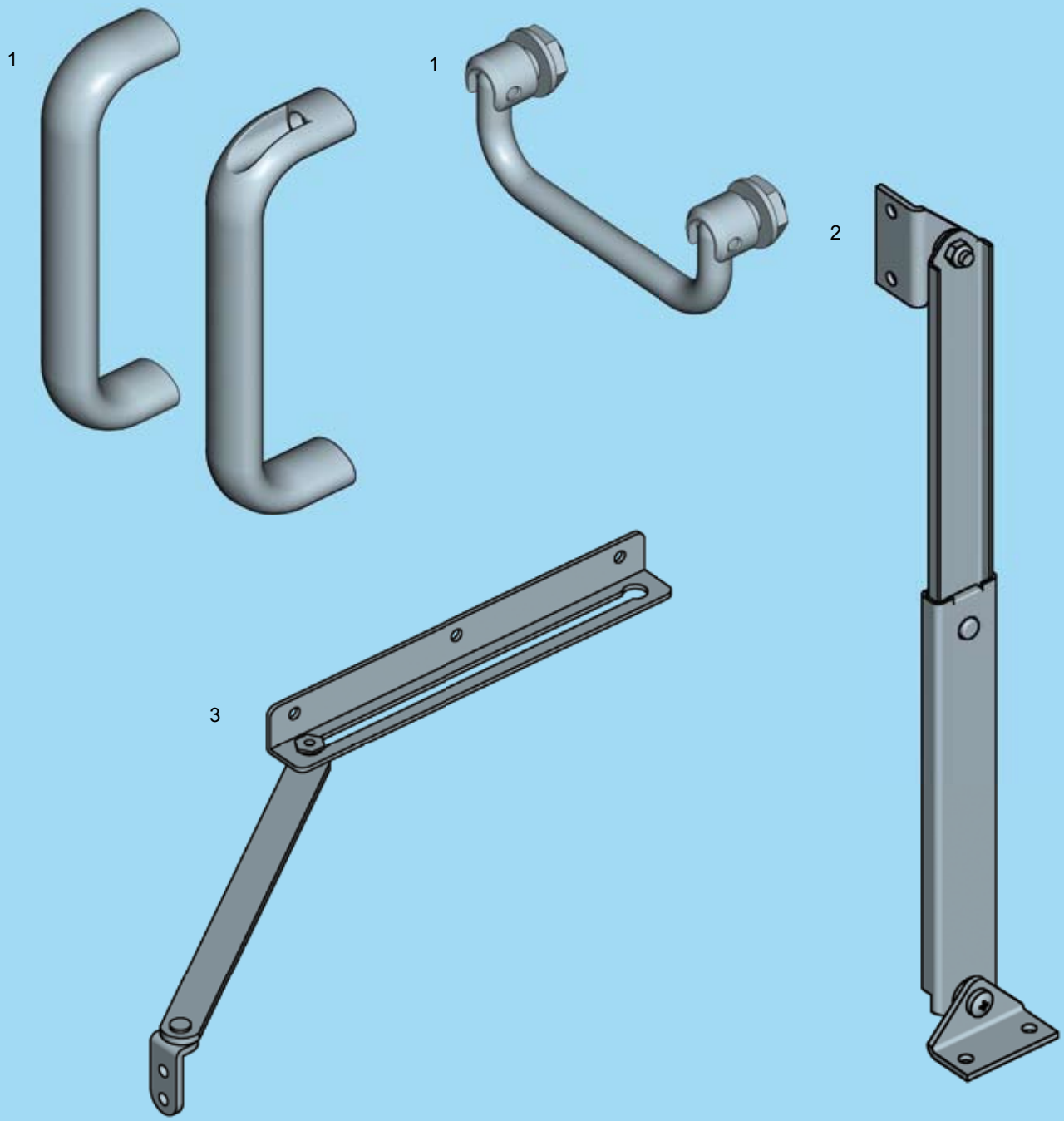
Stainless steel program
Miscellaneous



1	Handles	8C-320
2	Telescopic cover stay	8C-520
3	Door stop	8C-540

8C-100

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Beschlagteile

® Stainless steel bow-type handle
Stainless steel folding handle

PROGRAM 1095

INOX AISI 3..

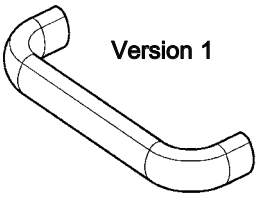
Version 1

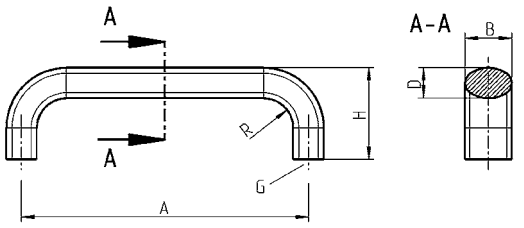
Version 2

Fixing material is not included in delivery.

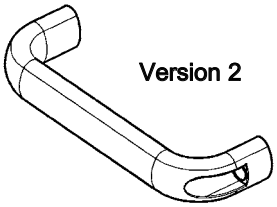
EDELSTAHL Rost frei STAINLESS STEEL

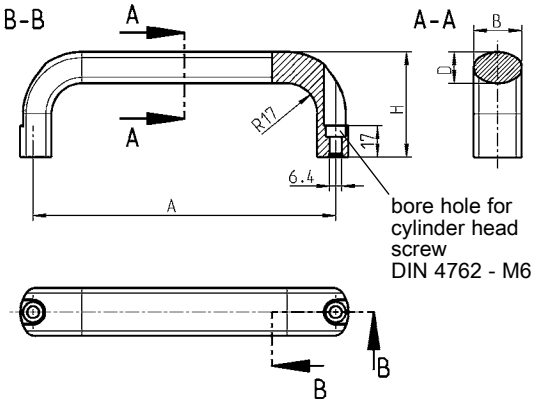
Version 1





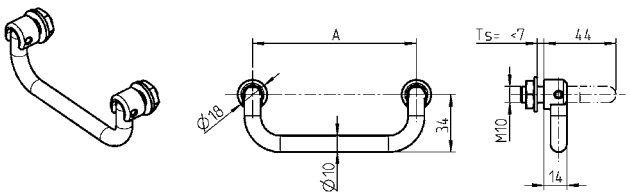
Version 2





Bow-type handle AISI							
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
Version 2							
A	B	D		H			AISI 316
116	26	17		53			1095-28-116PH

EDELSTAHL Rost frei STAINLESS STEEL



Folding handle AISI 303, fixing material AISI 303	
A	
100	1095-U32-100PF
120	1095-U32-120PF
180	1095-U32-180PF

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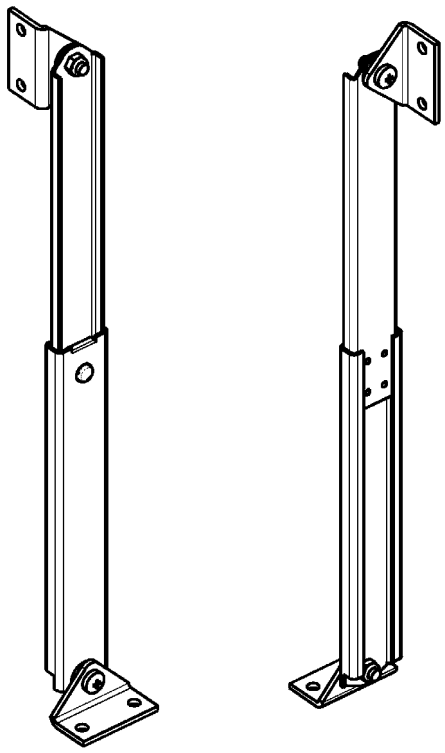
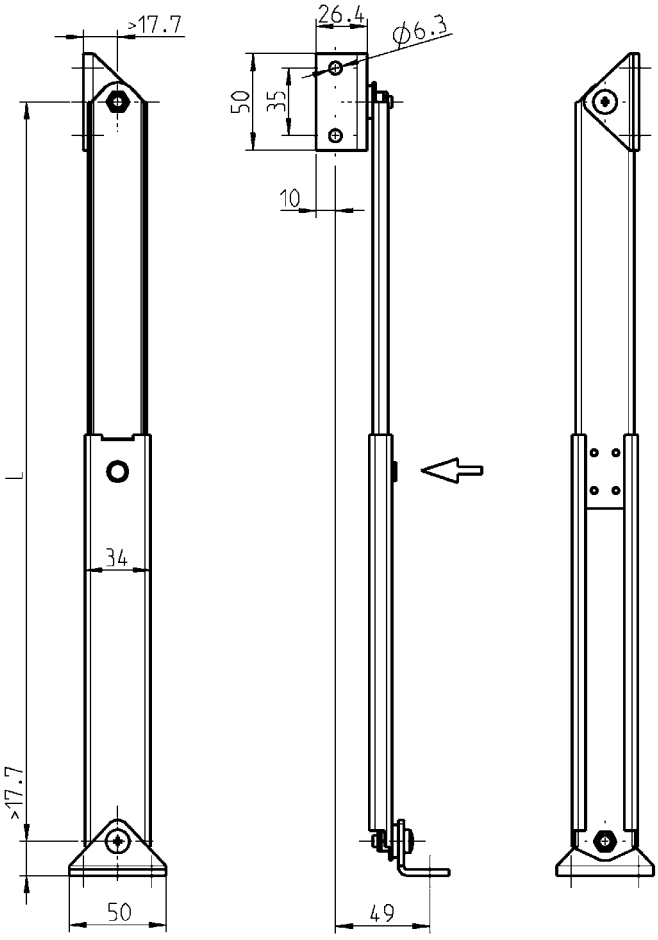
Stainless steel telescopic cover stay with push button for unlocking

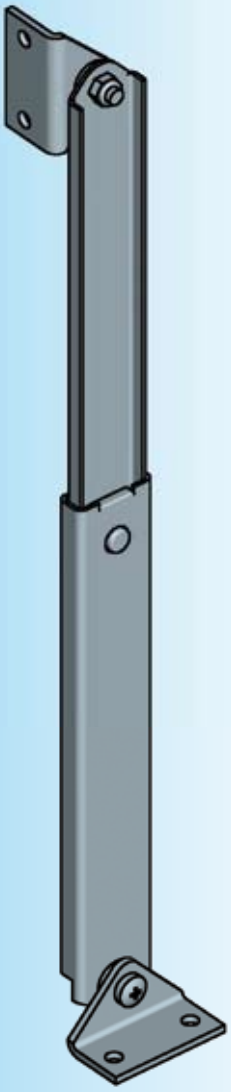
PROGRAM 1097

EMKA

Beschlagteile







Telescopic cover stay AISI 304, push button AISI 303			
	retracted	extended	
Dimension L	213	382	1097-U5-PC

Further parts see page

– Hinge	chapter 8B
– 2D-nut	12E-120

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EMKA®

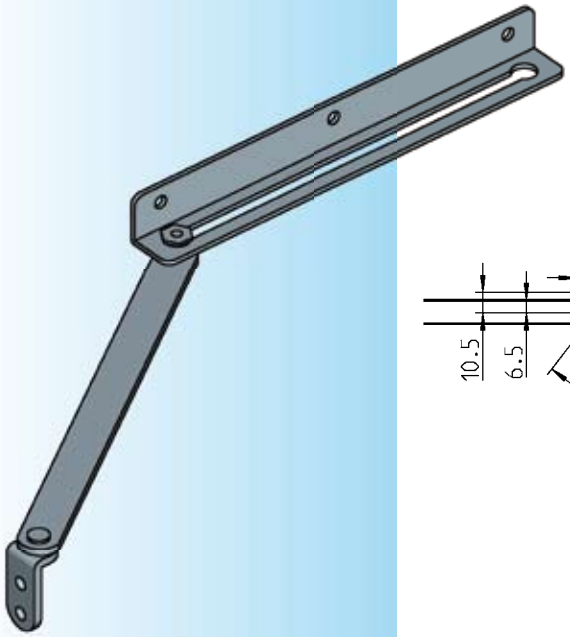
Beschlagteile

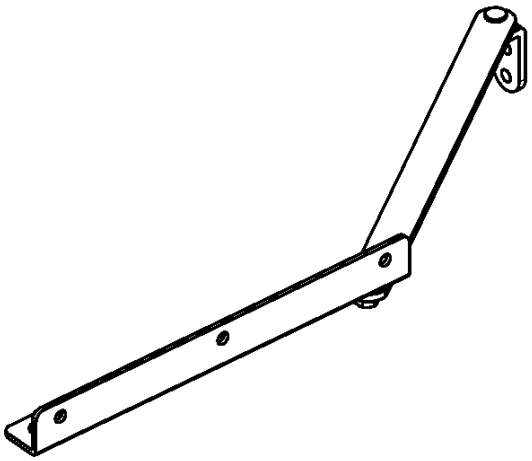
Stainless steel door stop

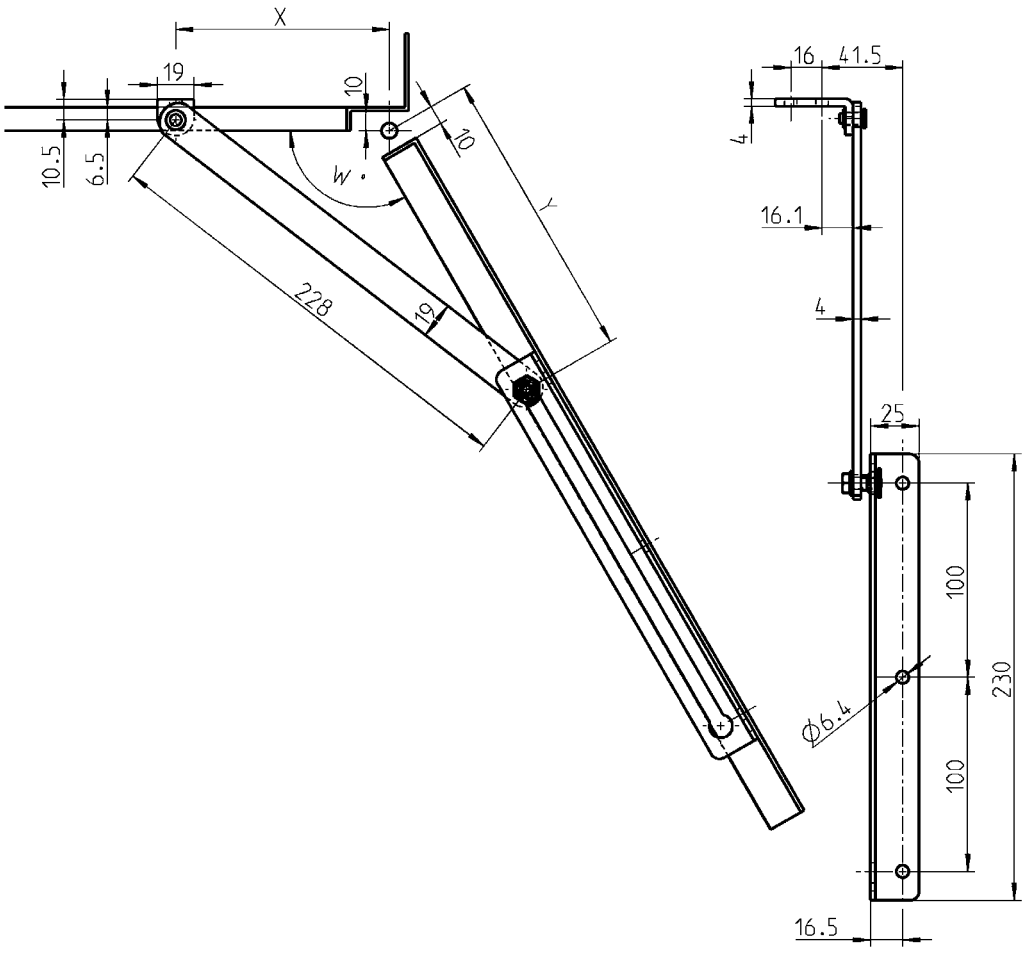
PROGRAM 1087

RL | 2D | INOX AISI 3..

EDELSTAHL Rostfrei STAINLESS STEEL







W	X	Y	minimal door width
90°	140	180	403
105°	120	166	389
120°	110	150	373
135°	100	146	369
in case of other variations y = x + >40			

Further parts see page
– Hinge chapter 8B
– 2D-nut 12E-120

Door stop AISI 304, locking bush and rivet AISI 303

1087-U1-PC

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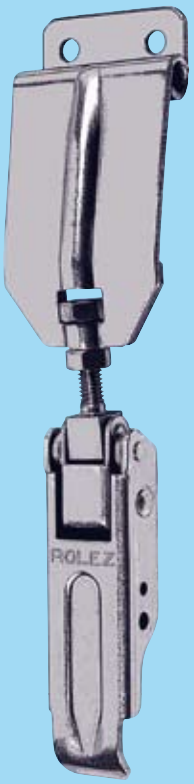
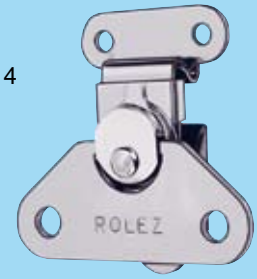
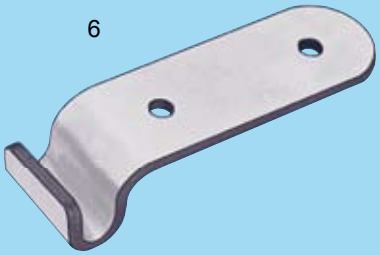
Toggle latch and hook
Program 6000







1	Wire toggle latch	9A-120
2	Rigid wire toggle latch	9A-160
3	Spring loaded toggle latch	9A-220 to 9A-240
4	Special toggle latch	9A-260, 9A-280
5	Adjustable toggle latch	9A-320
6	Catch plate	9A-520 to 9A-660

Surface with steel parts:
zinc plated, thick-film passivated (DS)
and Top Coat sealed.

9A-100

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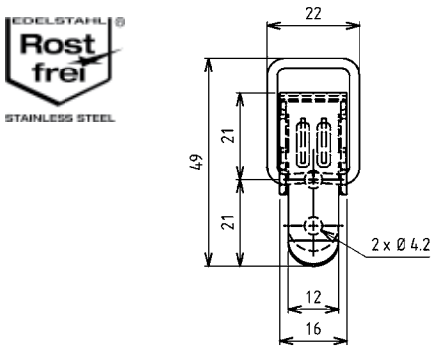
Wire toggle latches

PROGRAM 6000

INOX AISI 3..

Further parts see page
possible catch plates

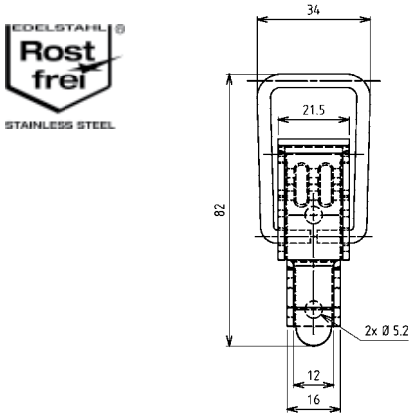
6010-01-xxx	9A-520
6010-11-xxx	9A-540
6010-08-xxx	9A-620



Toggle latch	Without padlock-facility	With padlock-facility
Raw steel drilled	6000-U42-KA	6000-U43-KA
Raw steel undrilled	6000-U42-01KA	6000-U43-01KA
Zinc plated steel DS plus Top Coat drilled	6000-U42-JQ	6000-U43-JQ
AISI 304 drilled	6000-U42-PC	6000-U43-PC
AISI 304, undrilled	6000-U42-01PC	6000-U43-01PC

Further parts see page
possible catch plates

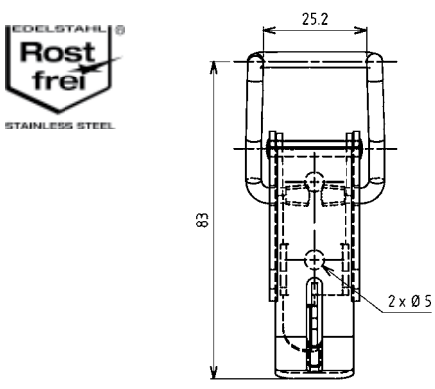
6010-02-xxx	9A-520
6010-03-xxx	9A-520
6010-09-xxx	9A-620



Toggle latch	Without padlock-facility	With padlock-facility
Raw steel drilled	6000-U44-KA	6000-U45-KA
Raw steel undrilled	6000-U44-01KA	6000-U45-01KA
Zinc plated steel DS plus Top Coat drilled	6000-U44-JQ	6000-U45-JQ
AISI 304 drilled	6000-U44-PC	6000-U45-PC
AISI 304, undrilled	6000-U44-01PC	6000-U45-01PC

Further parts see page
possible catch plates

6010-02-xxx	9A-520
6010-09-xxx	9A-620



Toggle latch	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	6000-U135-JQ	6000-U635-JQ
AISI 304 drilled	6000-U135-PC	6000-U635-PC

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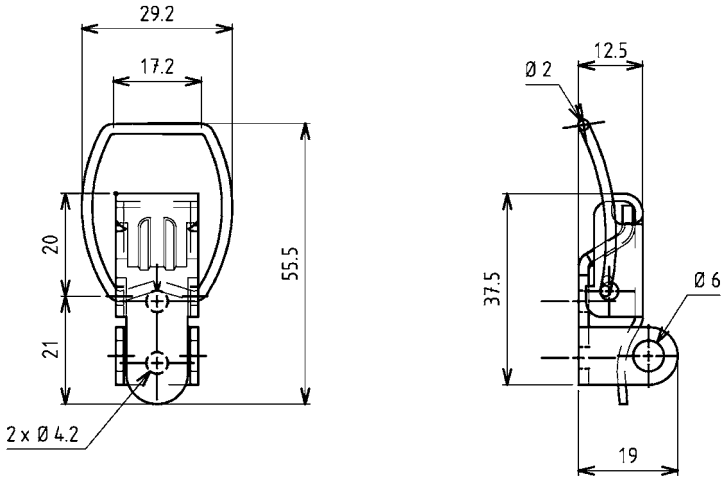
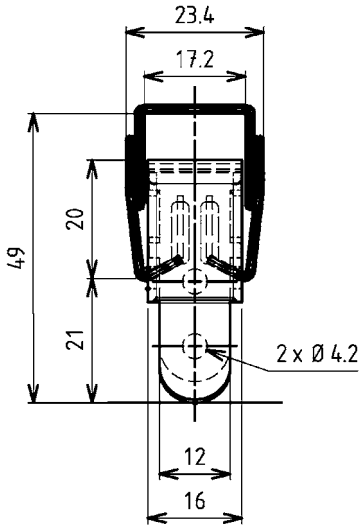
Flexible wire toggle latches

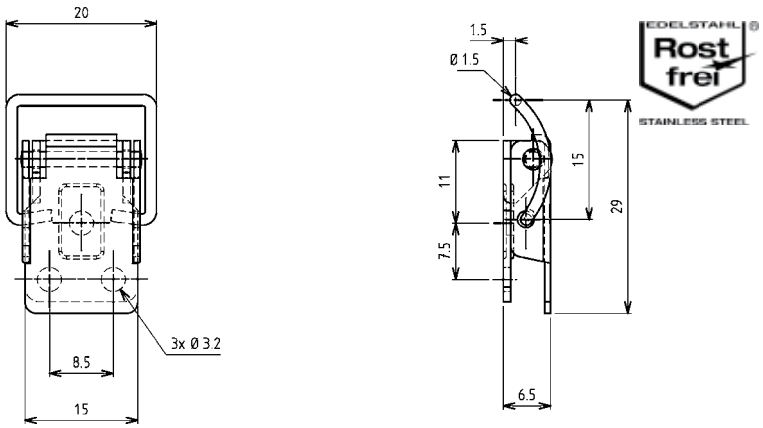
PROGRAM 6000



Toggle latch	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	6001-U32-JQ	6001-U33-JQ



Toggle latch	Without padlock-facility
Zinc plated steel DS plus Top Coat drilled	6001-U36-JQ



Toggle latch	Without padlock-facility
Raw steel drilled	6001-U139-KA
Zinc plated steel DS plus Top Coat drilled	6001-U139-JQ
AISI 304 drilled	6001-U139-PC

INOX AISI 3..

Further parts see page
possible catch plates

6010-01-xxx	9A-520
6010-11-xxx	9A-540
6010-08-xxx	9A-620

Further parts see page
possible catch plates

6010-01-xxx	9A-520
6010-11-xxx	9A-540
6010-08-xxx	9A-620

Further parts see page
possible catch plates

6010-139-xxx	9A-560

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Rigid wire toggle latches

PROGRAM 6000

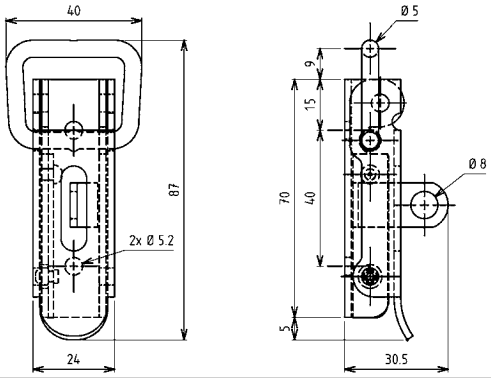
INOX AISI 3..

Further parts see page
possible catch plates
6010-12-xxx 9A-620
6010-13-xxx 9A-640
6010-14-xxx 9A-640
6010-339-xxx 9A-640
6010-958-xxx 9A-660

Further parts see page
possible catch plates
6010-12-xxx 9A-620
6010-13-xxx 9A-640
6010-14-xxx 9A-640
6010-339-xxx 9A-640
6010-958-xxx 9A-660

Further parts see page
possible catch plates
6010-16-xxx 9A-660
6010-17-xxx 9A-660

EDELSTAHL Rostfrei STAINLESS STEEL

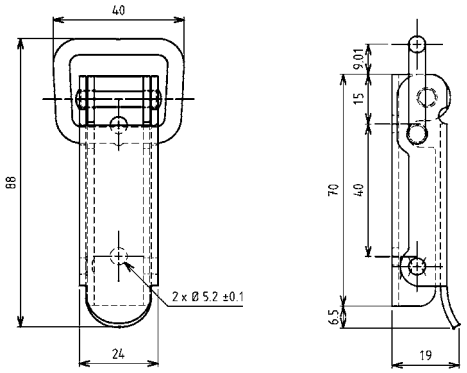


Toggle latch with high opening resistance

	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

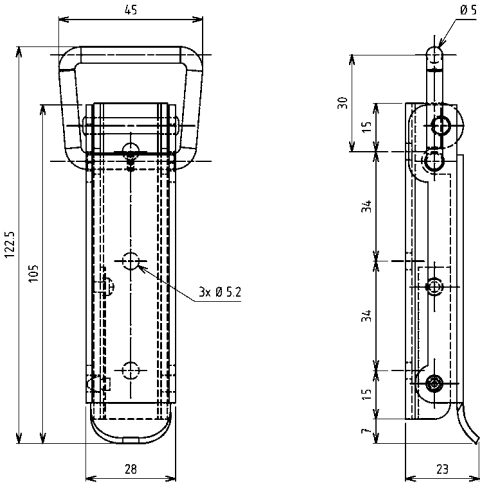
	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	6002-U77-JQ	6002-U73-JQ
AISI 304 drilled	6002-U77-PC	6002-U73-PC



Toggle latch with low opening resistance, economic version

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

EDELSTAHL Rostfrei STAINLESS STEEL



Toggle latch with high opening resistance

	Without padlock-facility	With padlock-facility
Raw steel drilled	6002-U15-KA	6002-U14-KA
Zinc plated steel DS plus Top Coat drilled	6002-U15-JQ	6002-U14-JQ
AISI 304 drilled	6002-U15-PC	6002-U14-PC

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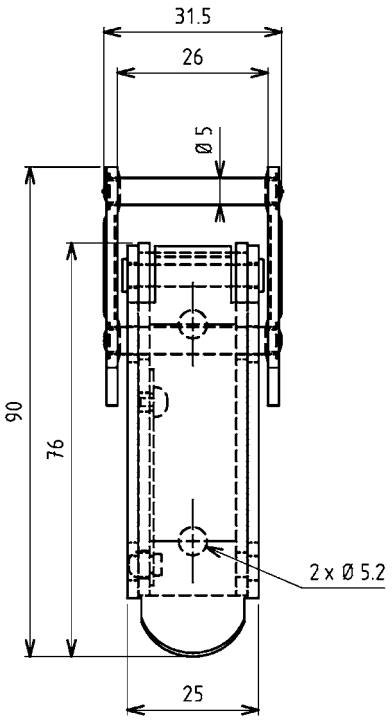
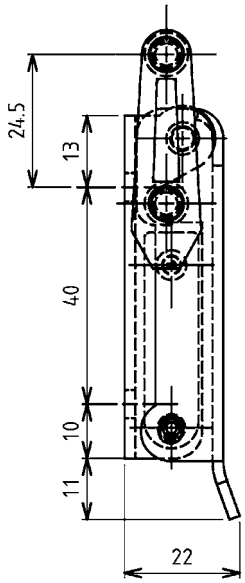
Toggle latch with links

PROGRAM 6000





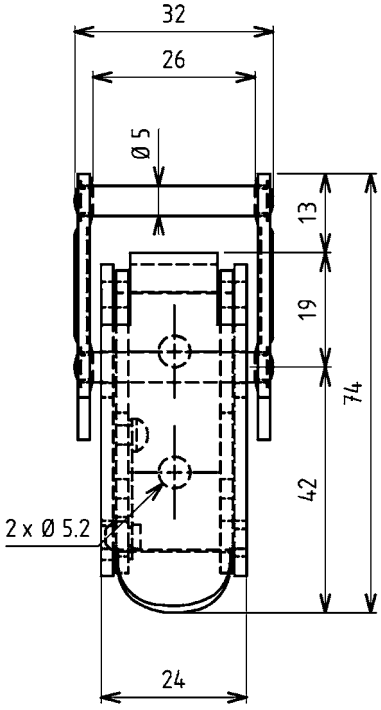
Toggle latch with low opening resistance

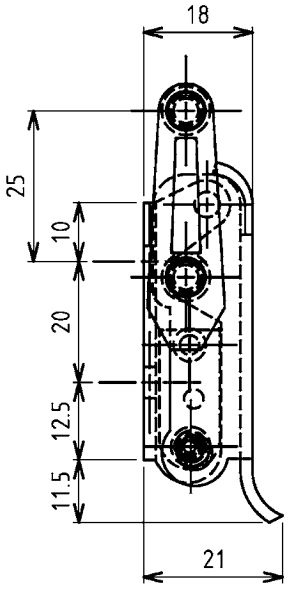
	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	6003-U79-JQ	6003-U80-JQ

INOX AISI 3..

Further parts see page
possible catch plates

6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-958-xxx	9A-660
– Back plate	9A-680





Toggle latch with low opening resistance

	Without padlock-facility
Zinc plated steel DS plus Top Coat drilled	6003-U71-JQ
AISI 304 drilled	6003-U71-PC

Further parts see page
possible catch plates

6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-958-xxx	9A-660

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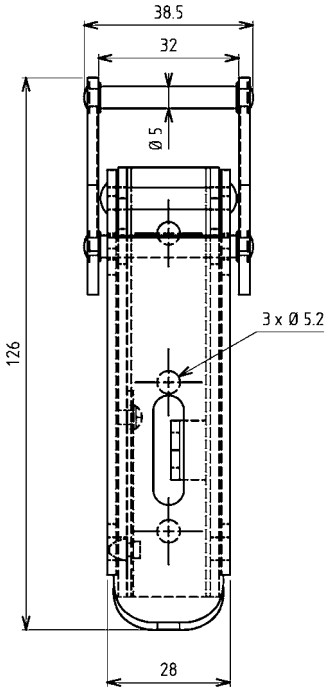
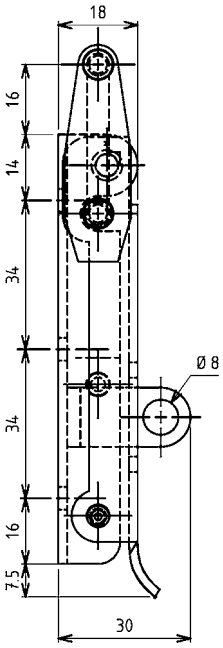
Toggle latch with links

PROGRAM 6000

INOX AISI 3..





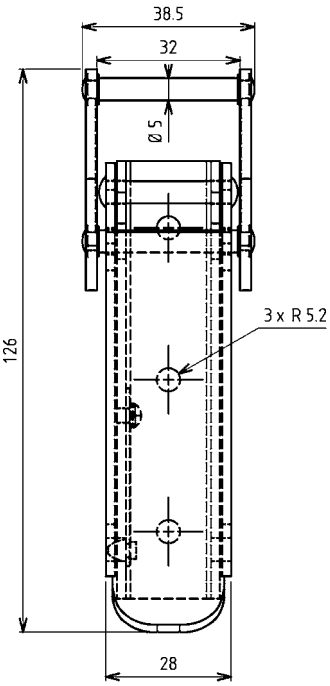
Further parts see page
possible catch plates

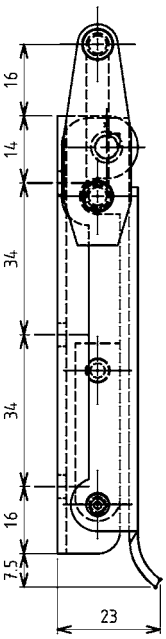
6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-339-xxx	9A-640
6010-958-xxx	9A-660

Toggle latch with high opening resistance

	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	6003-U82-JQ	6003-U81-JQ

EDELSTAHL Rost frei STAINLESS STEEL





Further parts see page
possible catch plates

6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-958-xxx	9A-660

Toggle latch with low opening resistance

	Without padlock-facility
AISI 304 drilled	6003-U86-PC

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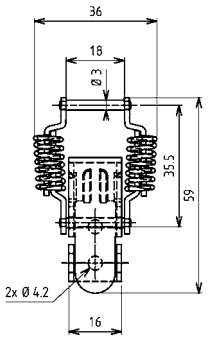
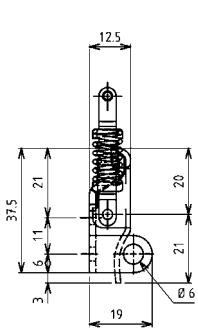
Spring loaded toggle latches

PROGRAM 6000





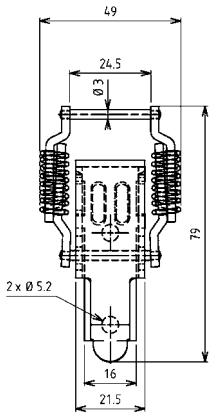
EDELSTAHL Rost frei STAINLESS STEEL

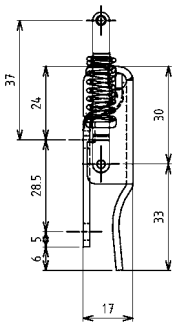
Toggle latch	Without padlock-facility	With padlock-facility
Raw steel drilled	6004-U22-KA	6004-U23-KA
Zinc plated steel DS plus Top Coat drilled	6004-U22-JQ	6004-U23-JQ
AISI 304 drilled	6004-U22-PC	6004-U23-PC

INOX AISI 3..

Further parts see page
possible catch plates

6010-04-xxx	9A-520
6010-05-xxx	9A-540
6010-08-xxx	9A-620
6010-243-xxx	9A-570
6010-316-xxx	9A-570



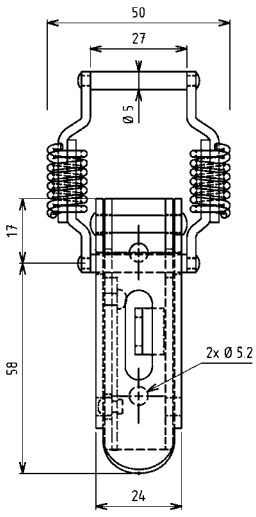


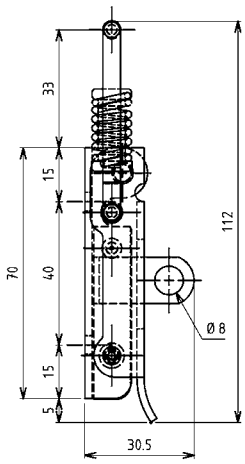
EDELSTAHL Rost frei STAINLESS STEEL

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

Further parts see page
possible catch plates

6010-06-xxx	9A-540
6010-09-xxx	9A-620
6010-12-xxx	9A-620
6010-315-xxx	9A-570
6010-316-xxx	9A-570
6010-958-xxx	9A-660





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

Further parts see page
possible catch plates

6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-339-xxx	9A-640
6010-958-xxx	9A-660

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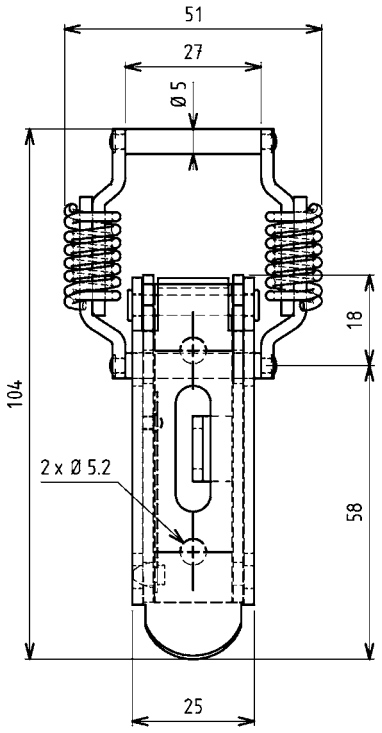
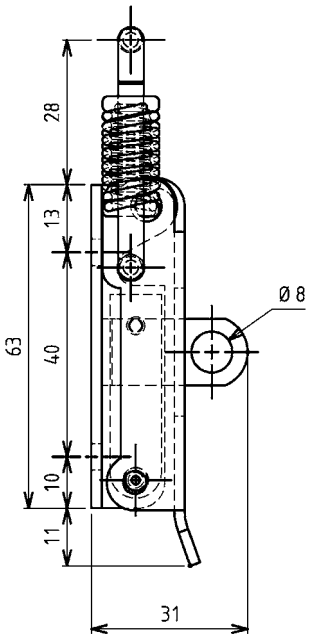
Spring loaded toggle latches

PROGRAM 6000

Further parts see page
possible catch plates

6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-339-xxx	9A-640
6010-958-xxx	9A-660



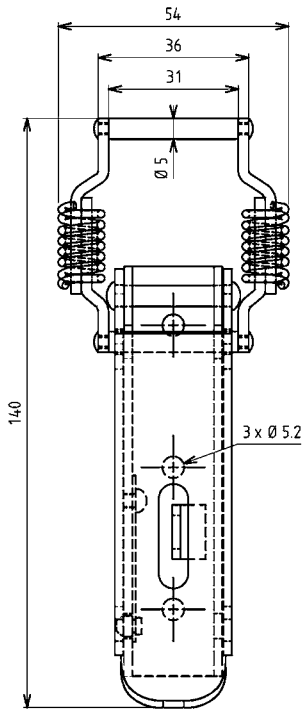


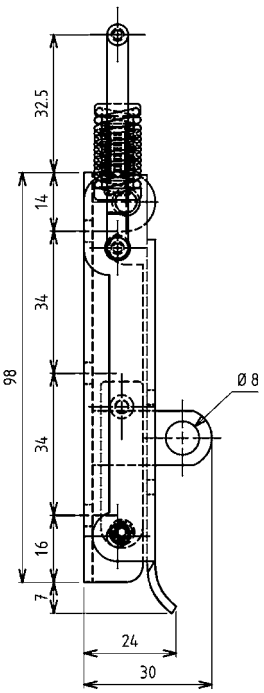
Toggle latch with low opening resistance

	Without padlock-facility	With padlock-facility
Raw steel drilled	6004-U30-KA	6004-U31-KA
Zinc plated steel DS plus Top Coat drilled	6004-U30-JQ	6004-U31-JQ

Further parts see page
possible catch plates

6010-15-xxx	9A-640
6010-16-xxx	9A-660
6010-17-xxx	9A-660





Toggle latch with high opening resistance

	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	6004-U27-JQ	6004-U34-JQ

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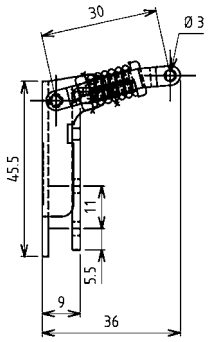
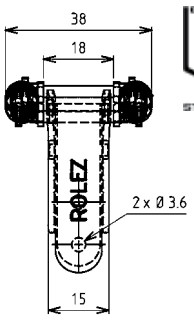
Spring loaded toggle latches

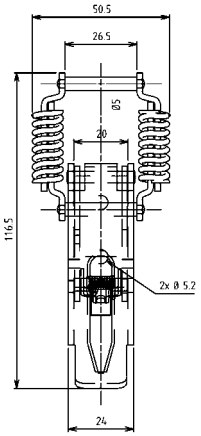
PROGRAM 6000

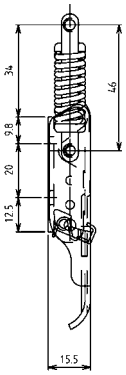




EDELSTAHL Rost frei STAINLESS STEEL

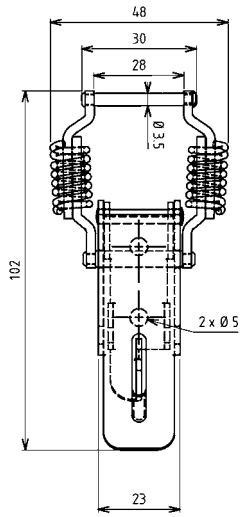
Toggle latch with corner function	
	Without padlock-facility
Zinc plated steel DS plus Top Coat drilled	6004-U20-JQ
AISI 304 drilled	6004-U20-PC

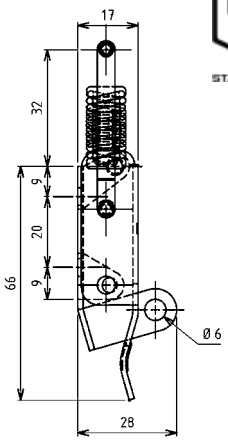




EDELSTAHL Rost frei STAINLESS STEEL

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

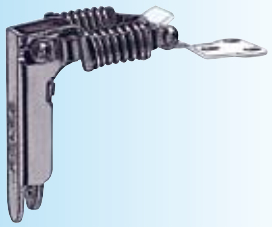




EDELSTAHL Rost frei STAINLESS STEEL

Toggle latch with high opening resistance		
	Without padlock-facility	**With padlock-facility**
Raw steel drilled	6004-U18-KA	6004-U518-KA
Zinc plated steel DS plus Top Coat drilled	6004-U18-JQ	6004-U518-JQ

INOX AISI 3..



Further parts see page
possible catch plates

6010-04-xxx	9A-520
6010-05-xxx	9A-540
6010-243-xxx	9A-570
6010-316-xxx	9A-570

Further parts see page
possible catch plates

6010-12-xxx	9A-620
6010-13-xxx	9A-640
6010-14-xxx	9A-640
6010-339-xxx	9A-640
6010-958-xxx	9A-660

Further parts see page
possible catch plates

6010-06-xxx	9A-540
6010-09-xxx	9A-620
6010-12-xxx	9A-620
6010-315-xxx	9A-570
6010-958-xxx	9A-660

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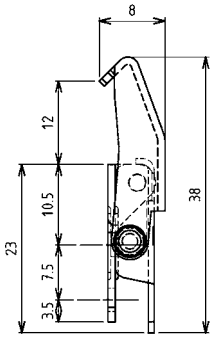
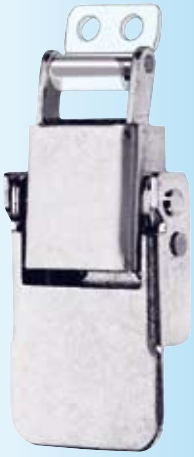
INOX AISI 3..

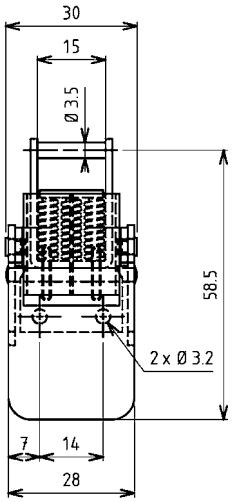
Further parts see page
possible catch plates
6010-200-xxx 9A-560

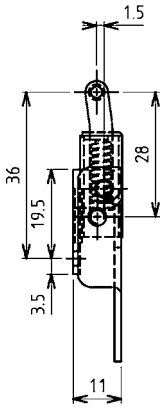


Toggle latch with claw links	
Raw steel drilled	6005-U200-KA
Zinc plated steel DS plus Top Coat drilled	6005-U200-JQ
AISI 304 drilled	6005-U200-PC

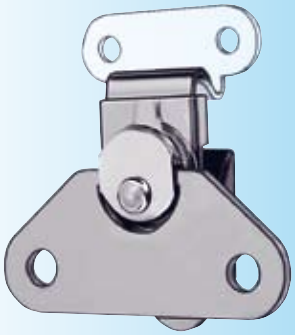


Further parts see page
possible catch plates
6010-07-xxx 9A-540

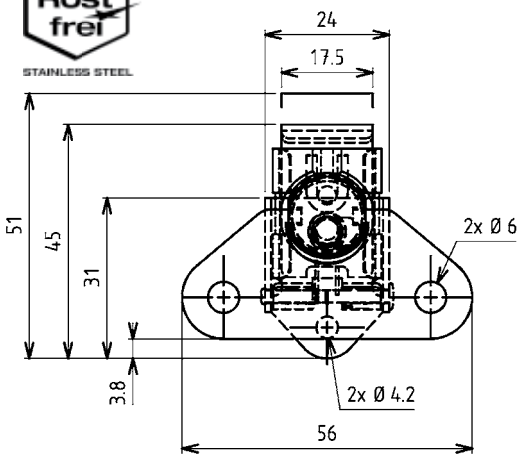


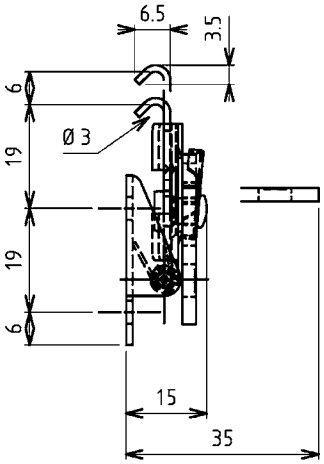


Toggle latch with claw links	
Zinc plated steel DS plus Top Coat drilled	6005-U28-JQ
AISI 304 drilled	6005-U28-PC



Further parts see page
possible catch plates
6010-20-xxx 9A-560





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

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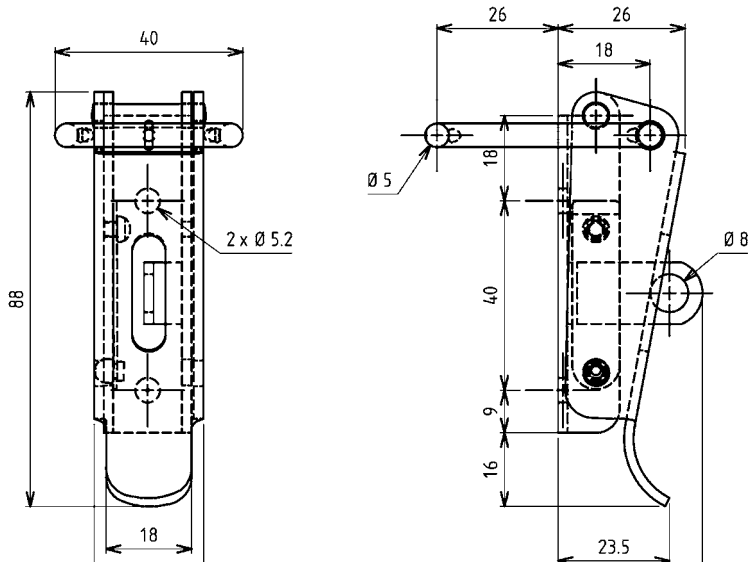
Special toggle latches

PROGRAM 6000



Toggle latch with corner function		
	Without padlock-facility	**With padlock-facility**
Zinc plated steel DS plus Top Coat drilled	6006-U46-JQ	6006-U47-JQ

Further parts see page
possible catch plates
6010-12-xxx 9A-620
6010-958-xxx 9A-660

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®Adjustable toggle latches

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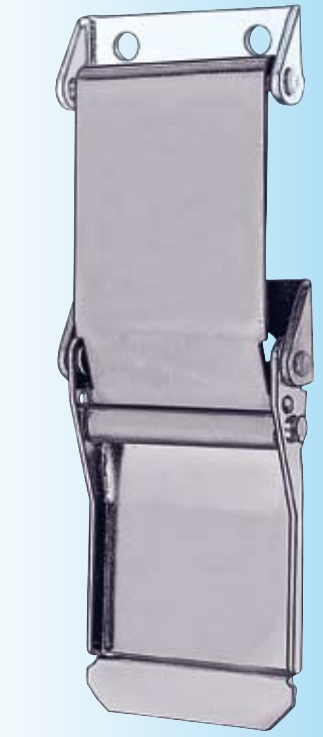
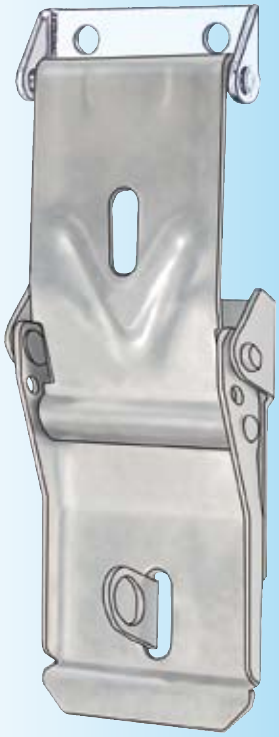
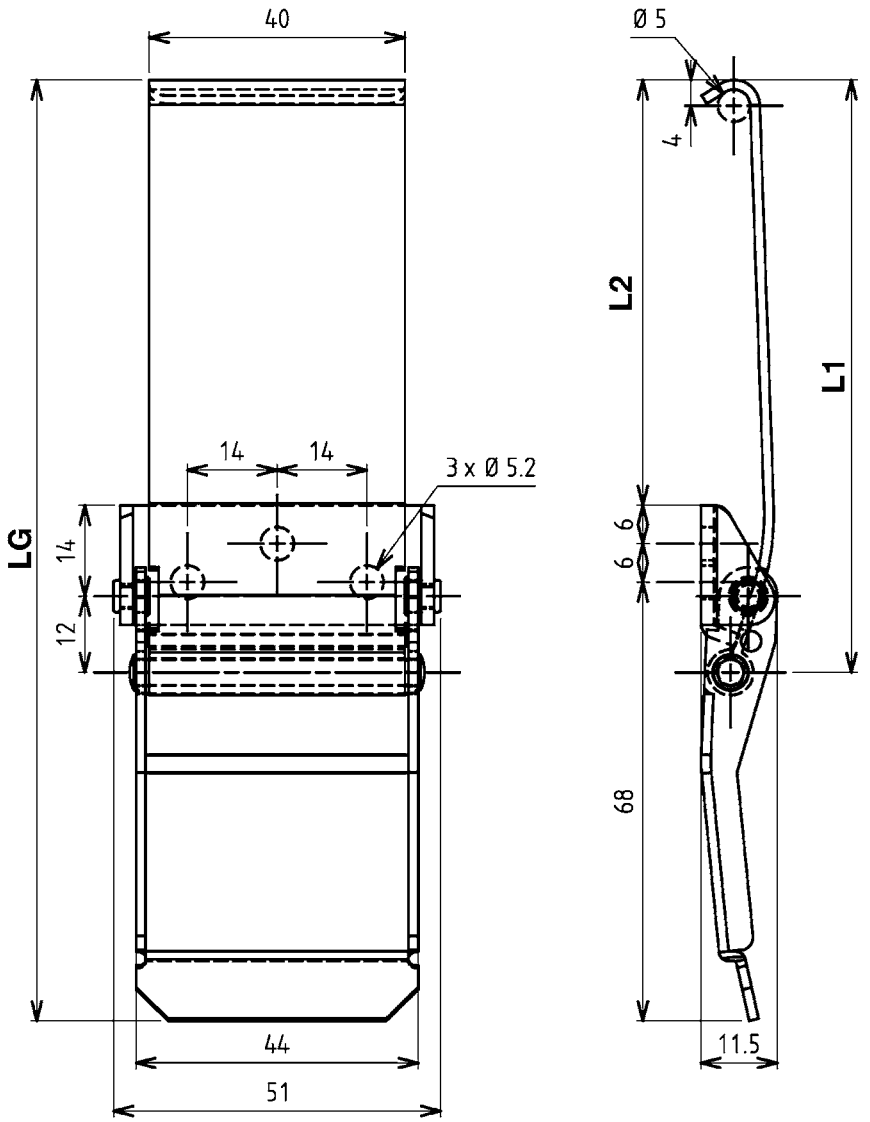
PROGRAM 6000

INOX AISI 3..

EDELSTAHL Rost frei STAINLESS STEEL







Toggle latch	LG	L1	L2	Without padlock-facility	With padlock-facility
Zinc plated steel DS plus Top Coat drilled	110	56	29	6007-U689-56JQ	
AISI 304 drilled	110	56	29	6007-U689-56PC	
Zinc plated steel DS plus Top Coat drilled	120	67	39	6007-U689-67JQ	6007-U692-67JQ
AISI 304 drilled	120	67	39	6007-U689-67PC	6007-U692-67PC
Zinc plated steel DS plus Top Coat drilled	131	77	50	6007-U689-77JQ	
AISI 304 drilled	131	77	50	6007-U689-77PC	
Zinc plated steel DS plus Top Coat drilled	147	93	66	6007-U689-93JQ	
AISI 304 drilled	147	93	66	6007-U689-93PC	

Further parts see page
possible catch plates
6010-18-xxx 9A-560
6010-261-xxx 9A-580
6010-690-xxx 9A-580
6010-694-xxx 9A-580

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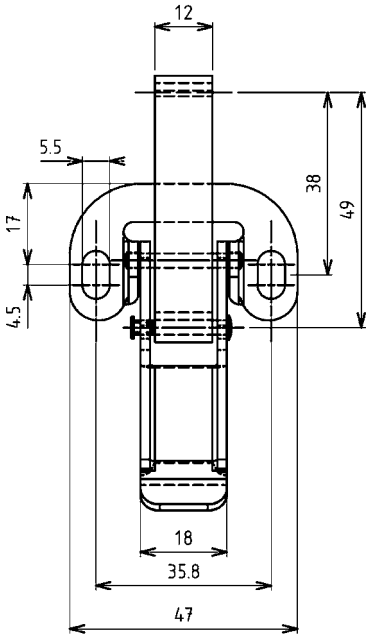
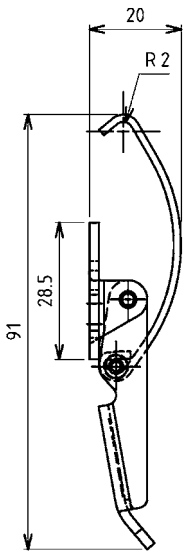
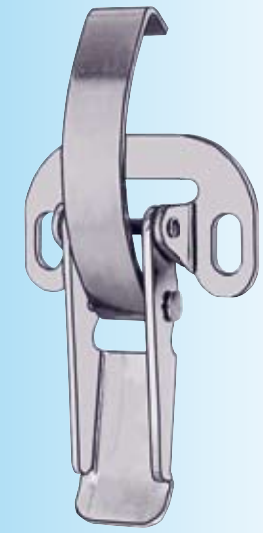
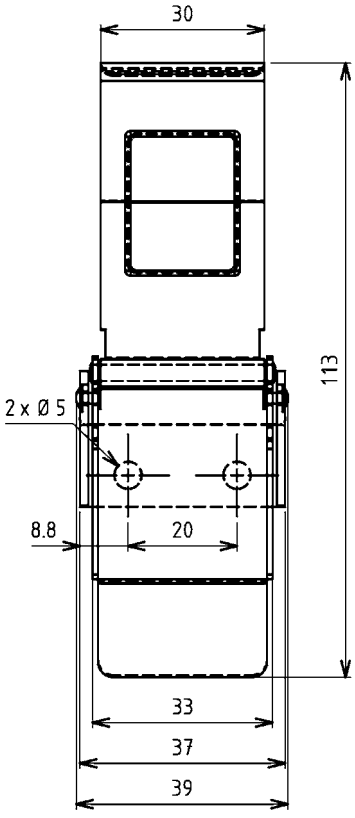


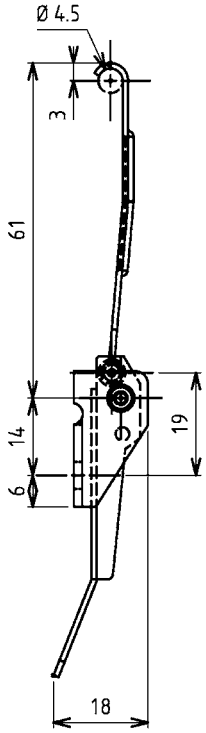


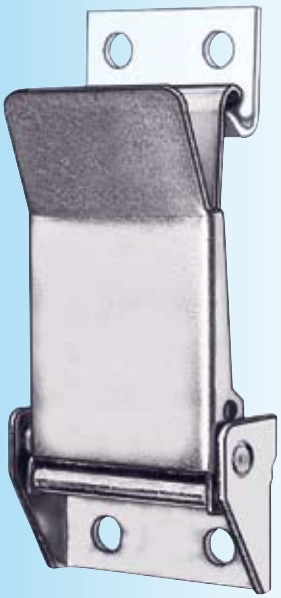


Toggle latch	
Zinc plated steel DS plus Top Coat drilled	6007-U435-JQ
AISI 304 drilled	6007-U435-PC

Further parts see page
possible catch plates
6010-01-xxx 9A-520
6010-05-xxx 9A-540
6010-316-xxx 9A-570







Toggle latch	
Zinc plated steel DS plus Top Coat drilled	6007-U80-JQ
AISI 304 drilled	6007-U80-PC

Further parts see page
possible catch plates
6010-241-xxx 9A-570
6010-866-xxx 9A-580

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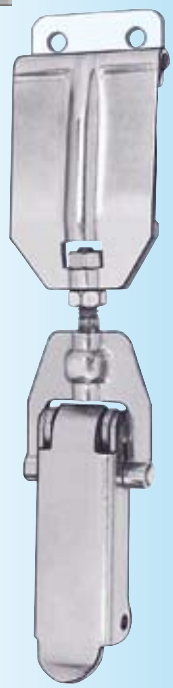
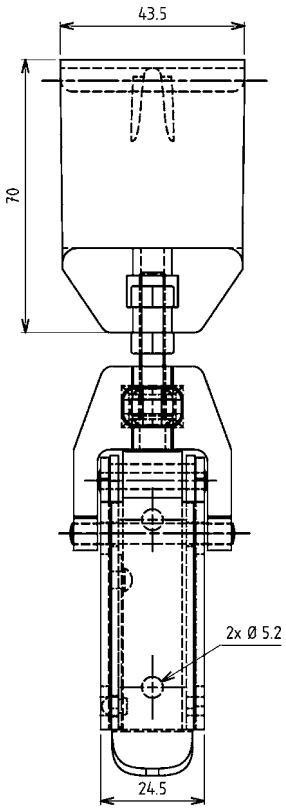
Adjustable toggle latches

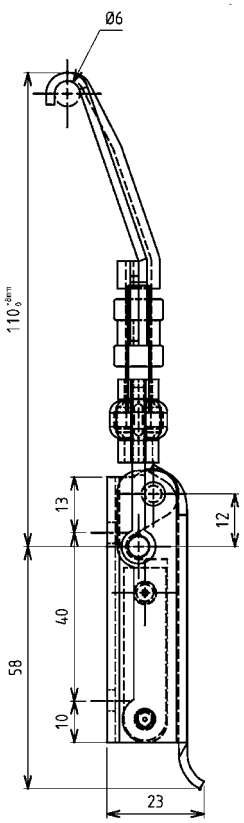
PROGRAM 6000

INOX AISI 3..



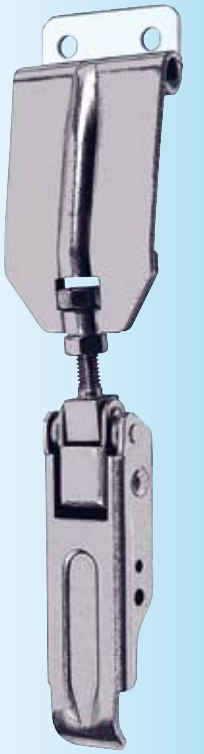
Further parts see page
possible catch plates
6010-18-xxx 9A-560
6010-261-xxx 9A-580



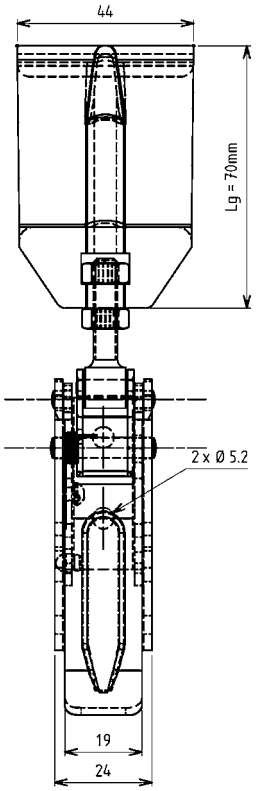


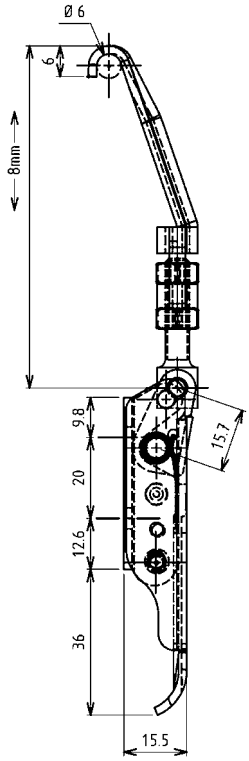
Toggle latch	Without padlock-facility
Zinc plated steel DS plus Top Coat drilled	6008-U364-JQ

EDELSTAHL Rostfrei STAINLESS STEEL



Further parts see page
possible catch plates
6010-18-xxx 9A-560
6010-261-xxx 9A-580





Toggle latch	Without locking latch	With locking latch
Zinc plated steel DS plus Top Coat drilled	6008-U365-JQ	6008-U865-JQ
AISI 304 drilled	6008-U365-PC	6008-U865-PC

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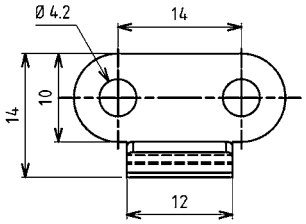
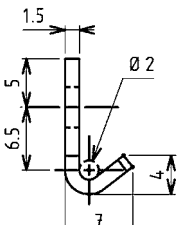
Catch plate

PROGRAM 6000



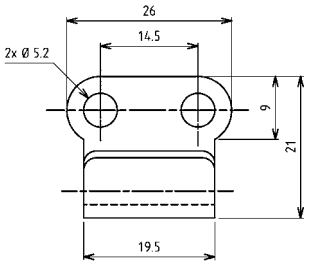


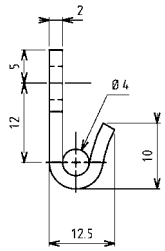
EDELSTAHL Rostfrei STAINLESS STEEL

INOX AISI 3..

Catch plate	
Raw steel drilled	6010-01-KA
Raw steel undrilled	6010-01-01KA
Zinc plated steel DS plus Top Coat drilled	6010-01-JQ
AISI 304 drilled	6010-01-PC
AISI 304, undrilled	6010-01-01PC

Further parts see page
– Toggle latch 9A-120
9A-140
9A-310

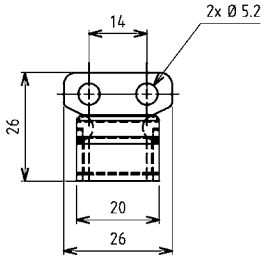


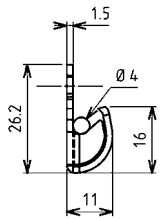


EDELSTAHL Rostfrei STAINLESS STEEL

Catch plate	
Raw steel drilled	6010-02-KA
Raw steel undrilled	6010-02-01KA
Zinc plated steel DS plus Top Coat drilled	6010-02-JQ
AISI 304 drilled	6010-02-PC
AISI 304, undrilled	6010-02-01PC

Further parts see page
– Toggle latch 9A-120

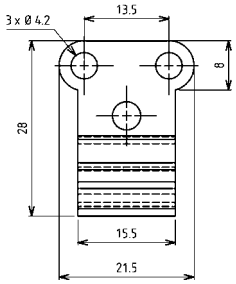


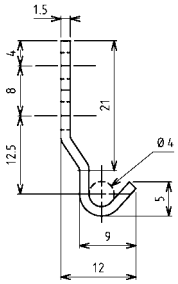


EDELSTAHL Rostfrei STAINLESS STEEL

Catch plate	
Raw steel drilled	6010-03-KA
Zinc plated steel DS plus Top Coat drilled	6010-03-JQ
AISI 304 drilled	6010-03-PC

Further parts see page
– Toggle latch 9A-120





EDELSTAHL Rostfrei STAINLESS STEEL

Catch plate	
Raw steel drilled	6010-04-KA
Zinc plated steel DS plus Top Coat drilled	6010-04-JQ
AISI 304 drilled	6010-04-PC

Further parts see page
– Toggle latch 9A-220
9A-240

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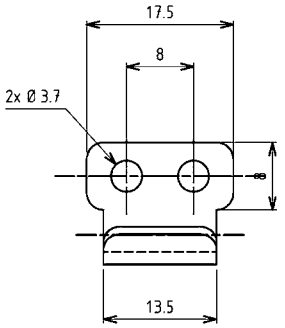
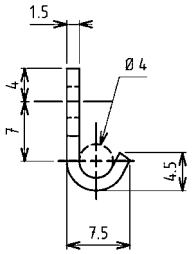
Catch plate

PROGRAM 6000

INOX AISI 3..

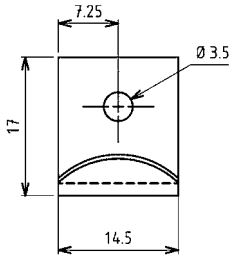
Further parts see page
– Toggle latch 9A-260

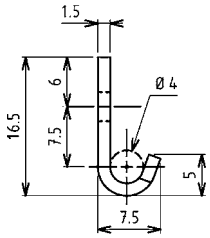




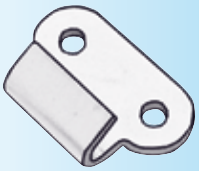
Catch plate	
Zinc plated steel DS plus Top Coat drilled	6010-07-JQ
AISI 304 drilled	6010-07-PC

Further parts see page
– Toggle latch 9A-120
9A-140

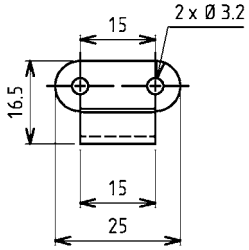


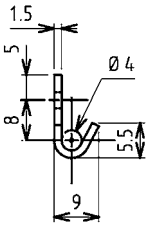


Catch plate	
Raw steel drilled	6010-11-KA
Bare steel undrilled	6010-11-01KA
Zinc plated steel DS plus Top Coat drilled	6010-11-JQ
AISI 304 drilled	6010-11-PC
AISI 304, undrilled	6010-11-01PC



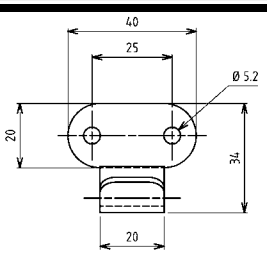
Further parts see page
– Toggle latch 9A-220
9A-240
9A-310

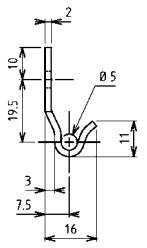




Catch plate	
Bare steel drilled	6010-05-KA
Zinc plated steel DS plus Top Coat drilled	6010-05-JQ
AISI 304 drilled	6010-05-PC

Further parts see page
– Toggle latch 9A-220
9A-240





Catch plate	
Raw steel drilled	6010-06-KA
Zinc plated steel DS plus Top Coat drilled	6010-06-JQ
AISI 304 drilled	6010-06-PC

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Catch plate

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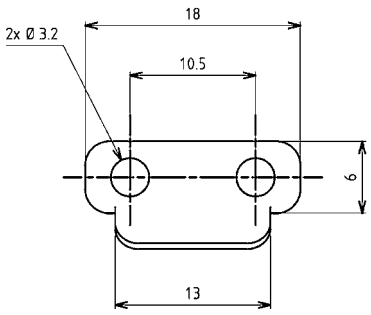
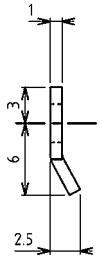


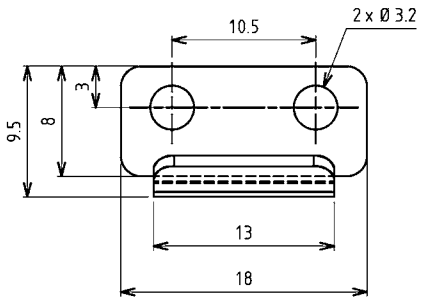


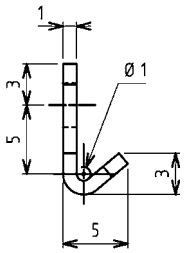
EDELSTAHL Rost frei STAINLESS STEEL

INOX AISI 3..

Catch plate	
Raw steel drilled	6010-200-KA
Zinc plated steel DS plus Top Coat drilled	6010-200-JQ
AISI 304 drilled	6010-200-PC

Further parts see page
– Toggle latch 9A-260

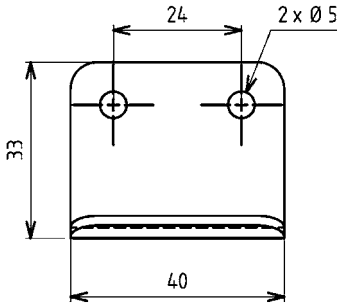


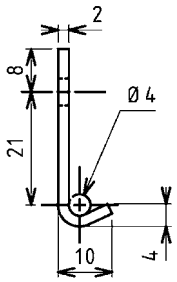


EDELSTAHL Rost frei STAINLESS STEEL

Catch plate	
Raw steel drilled	6010-139-KA
Zinc plated steel DS plus Top Coat drilled	6010-139-JQ
AISI 304 drilled	6010-139-PC

Further parts see page
– Toggle latch 9A-140

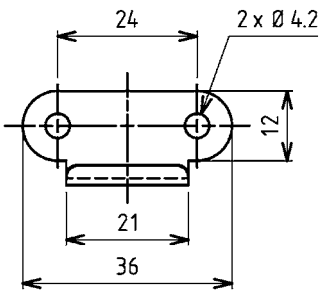


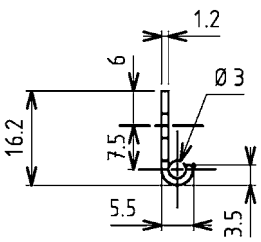


EDELSTAHL Rost frei STAINLESS STEEL

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

Further parts see page
– Toggle latch 9A-320





EDELSTAHL Rost frei STAINLESS STEEL

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

Further parts see page
– Toggle latch 9A-260

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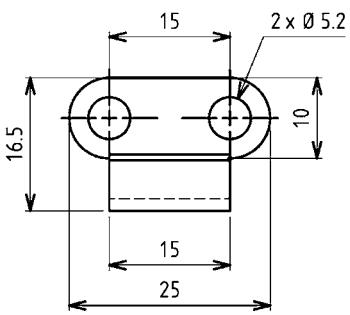
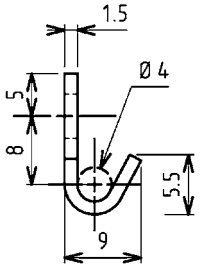
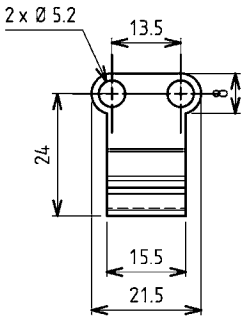
Further parts see page
– toggle latch 9A-220
9A-240
9A-310

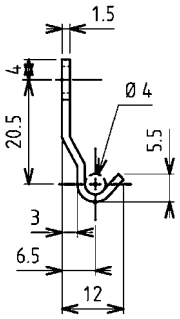




Catch plate	
Zinc plated steel DS plus Top Coat drilled	6010-316-JQ

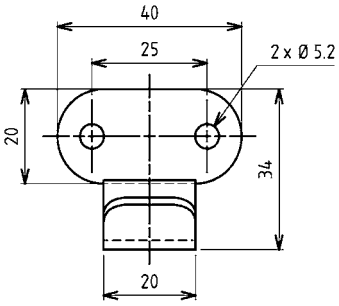
Further parts see page
– Toggle latch 9A-220
9A-240

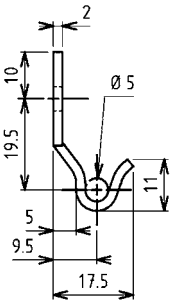




Catch plate	
Zinc plated steel DS plus Top Coat drilled	6010-243-JQ

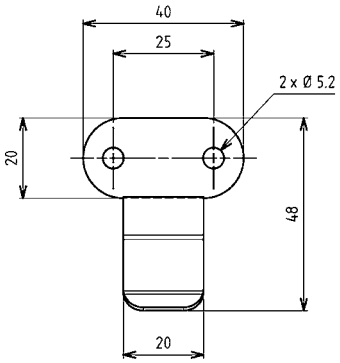
Further parts see page
– Toggle latch 9A-220
9A-240

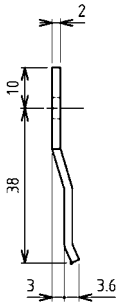




Catch plate	
Zinc plated steel DS plus Top Coat drilled	6010-315-JQ

Further parts see page
– Toggle latch 9A-310





Hook	
Zinc plated steel DS plus Top Coat drilled	6010-241-JQ

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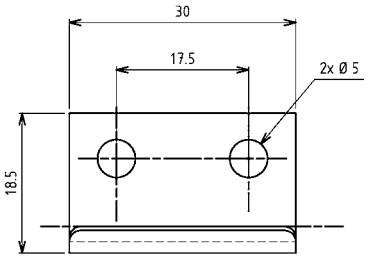
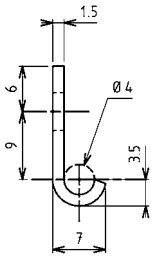
Catch plate

PROGRAM 6000



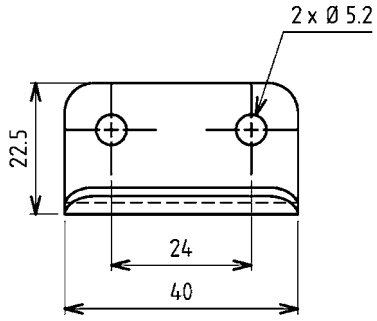


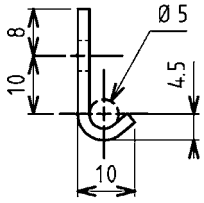
EDELSTAHL Rost frei STAINLESS STEEL

INOX AISI 3..

Catch plate	
Zinc plated steel DS plus Top Coat drilled	6010-866-JQ
AISI 304 drilled	6010-866-PC

Further parts see page
– Toggle latch 9A-310

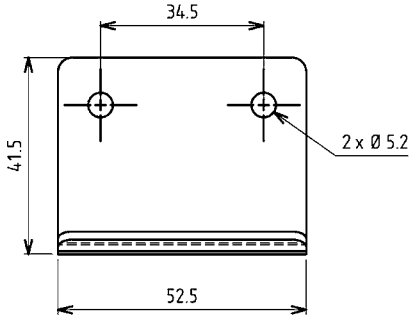


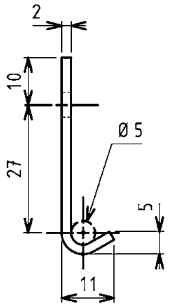


EDELSTAHL Rost frei STAINLESS STEEL

Catch plate	
Zinc plated steel DS plus Top Coat drilled	6010-261-JQ
AISI 304 drilled	6010-261-PC

Further parts see page
– Toggle latch 9A-300
9A-320

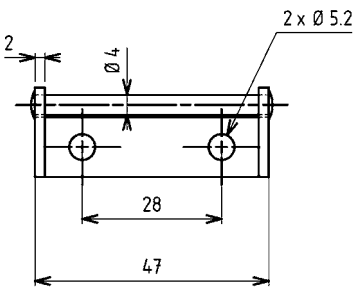


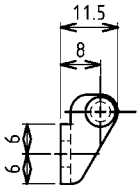


EDELSTAHL Rost frei STAINLESS STEEL

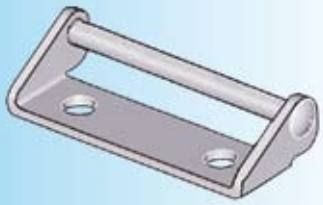
Catch plate	
Zinc plated steel DS plus Top Coat drilled	6010-690-JQ
AISI 304 drilled	6010-690-PC

Further parts see page
– Toggle latch 9A-300





EDELSTAHL Rost frei STAINLESS STEEL



Catch plate	
Zinc plated steel DS plus Top Coat drilled	6010-694-JQ
AISI 304 drilled	6010-694-PC

Further parts see page
– Toggle latch 9A-300

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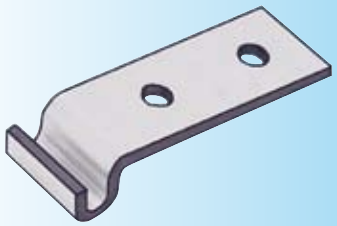
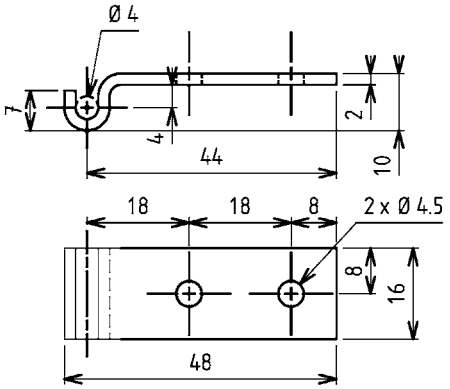
Catch plate

PROGRAM 6000

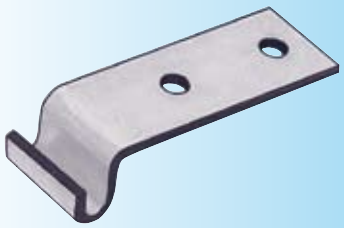
INOX AISI 3..



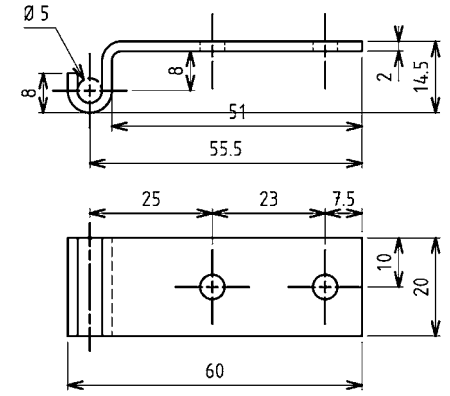
Further parts see page
– Toggle latch 9A-120 9A-140 9A-220



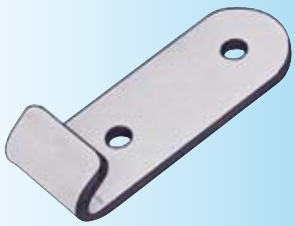
Catch plate	
Raw steel drilled	6010-08-KA
Raw steel undrilled	6010-08-01KA
Zinc plated steel DS plus Top Coat drilled	6010-08-JQ
AISI 304 drilled	6010-08-PC
AISI 304, undrilled	6010-08-01PC



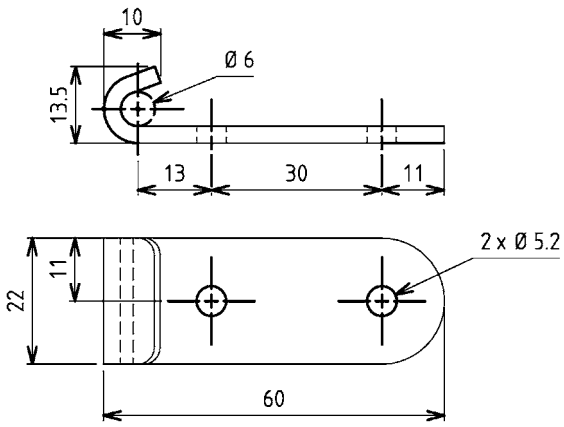
Further parts see page
– Toggle latch 9A-120 9A-220 9A-240



Catch plate	
Raw steel drilled	6010-09-KA
Raw steel undrilled	6010-09-01KA
Zinc plated steel DS plus Top Coat drilled	6010-09-JQ
AISI 304 drilled	6010-09-PC
AISI 304, undrilled	6010-09-01PC



Further parts see page
– Toggle latch 9A-160 9A-180 9A-200 9A-220 9A-230 9A-240 9A-280



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

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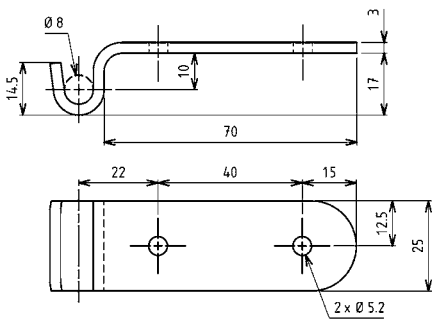
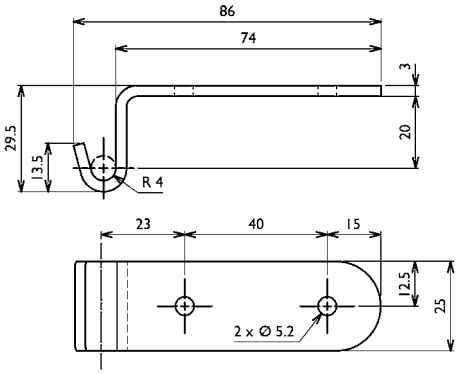
Catch plate

PROGRAM 6000



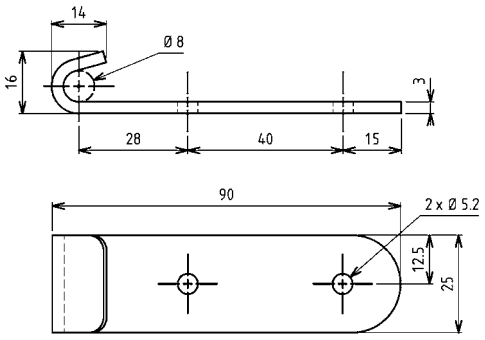
Catch plate	
Raw steel drilled	6010-13-KA
Zinc plated steel DS plus Top Coat drilled	6010-13-JQ
AISI 304 drilled	6010-13-PC

Further parts see page
– Toggle latch 9A-160, 9A-180, 9A-200, 9A-220, 9A-230, 9A-240
– Back plate 9A-680



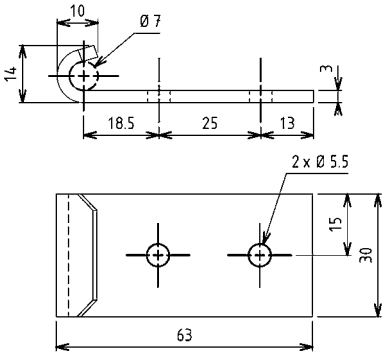
Catch plate	
Zinc plated steel DS plus Top Coat drilled	6010-339-JQ

Further parts see page
– Toggle latch 9A-160, 9A-180, 9A-200, 9A-220, 9A-230, 9A-240
– Back plate 9A-680

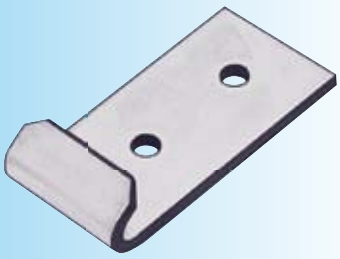


Catch plate	
Raw steel drilled	6010-14-KA
Zinc plated steel DS plus Top Coat drilled	6010-14-JQ
AISI 304 drilled	6010-14-PC

Further parts see page
– Toggle latch 9A-160, 9A-180, 9A-200, 9A-220, 9A-230, 9A-240
– Back plate 9A-680



Hook	
Zinc plated steel DS plus Top Coat drilled	6010-15-JQ



Further parts see page
– Toggle latch 9A-230

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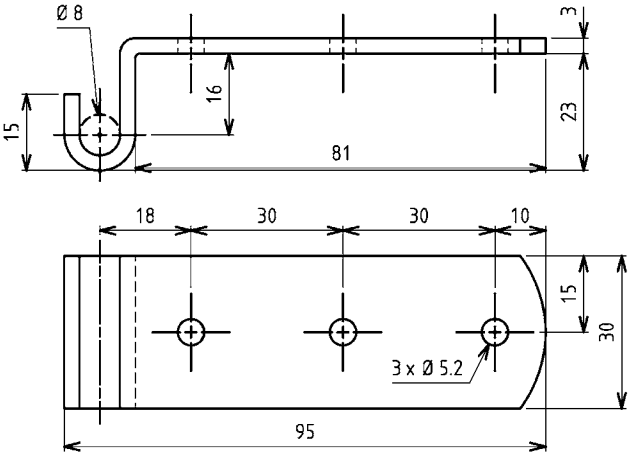
Catch plate

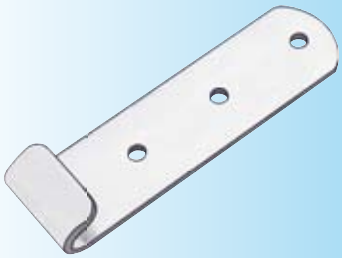
PROGRAM 6000

INOX AISI 3..

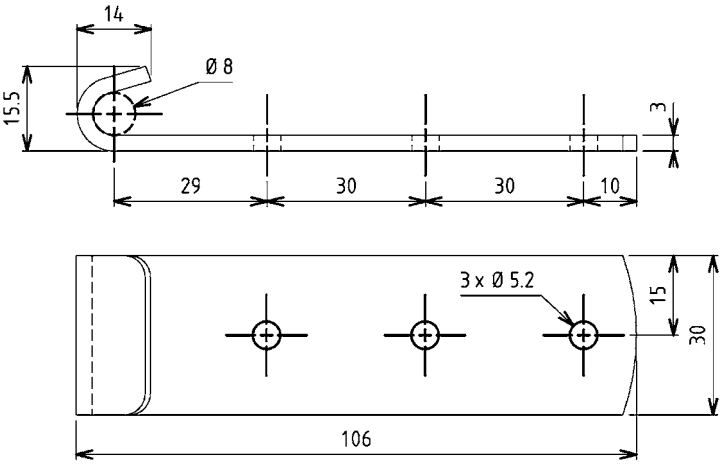
Further parts see page
– Toggle latch 9A-160
9A-230



Catch plate	
Raw steel drilled	6010-16-KA
Zinc plated steel DS plus Top Coat drilled	6010-16-JQ
AISI 304 drilled	6010-16-PC

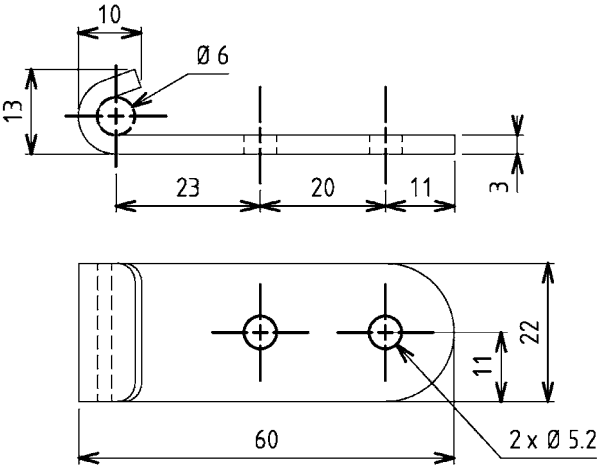


Further parts see page
– toggle latch 9A-160
9A-230



Catch plate	
Raw steel drilled	6010-17-KA
Zinc plated steel DS plus Top Coat drilled	6010-17-JQ
AISI 304 drilled	6010-17-PC

Further parts see page
– Toggle latch 9A-160
9A-180
9A-200
9A-220
9A-230
9A-240
9A-280



Catch plate	
Zinc plated steel DS plus Top Coat drilled	6010-958-JQ
AISI 304 drilled	6010-958-PC

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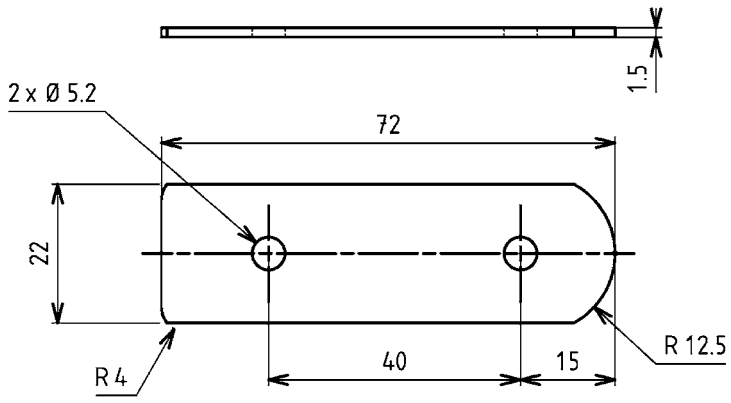
Back plate

PROGRAM 6000



Back plate for toggle latch and catch plate	
Raw steel	6042-82-KA
Zinc plated steel DS plus Top Coat drilled	6042-82-JQ
AISI 304	6042-82-PC

Further parts see page

– Toggle latch 9A-180
– Catch plate 9A-640

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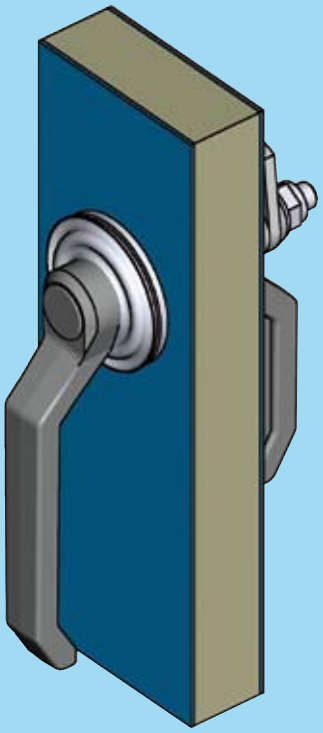
Air-Conditioning Program 1091

1



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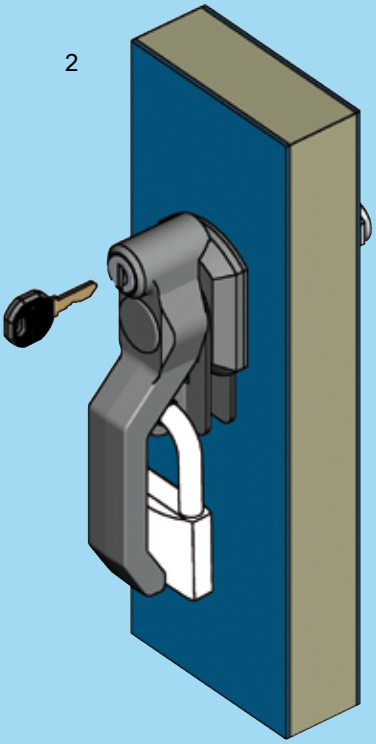

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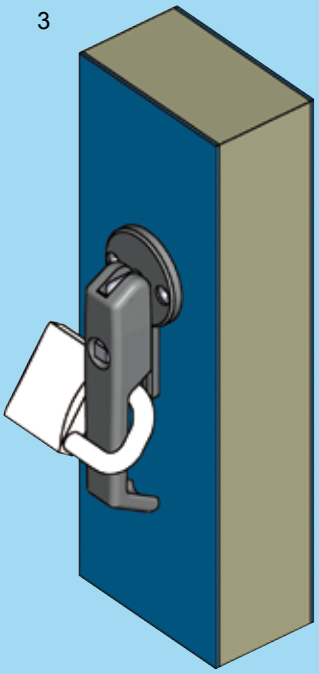

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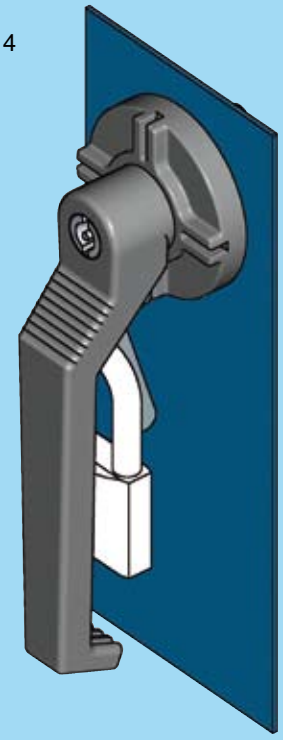

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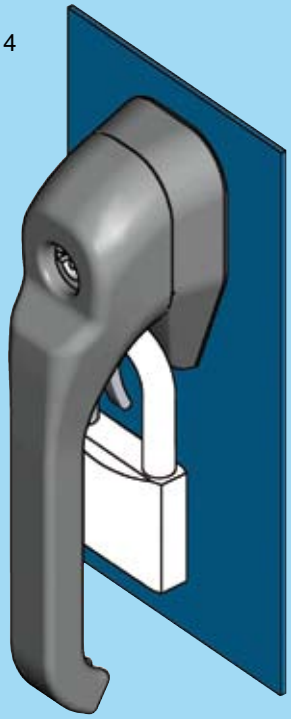

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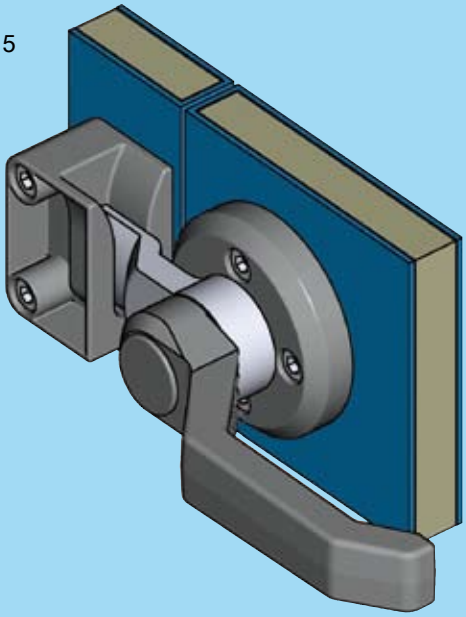

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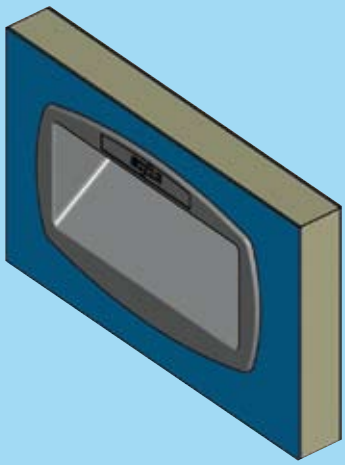

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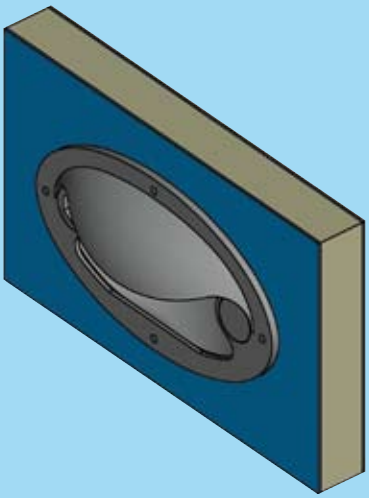

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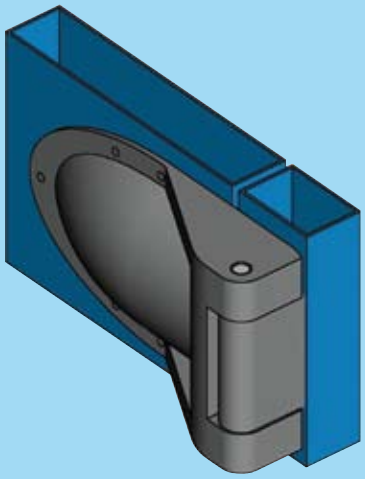
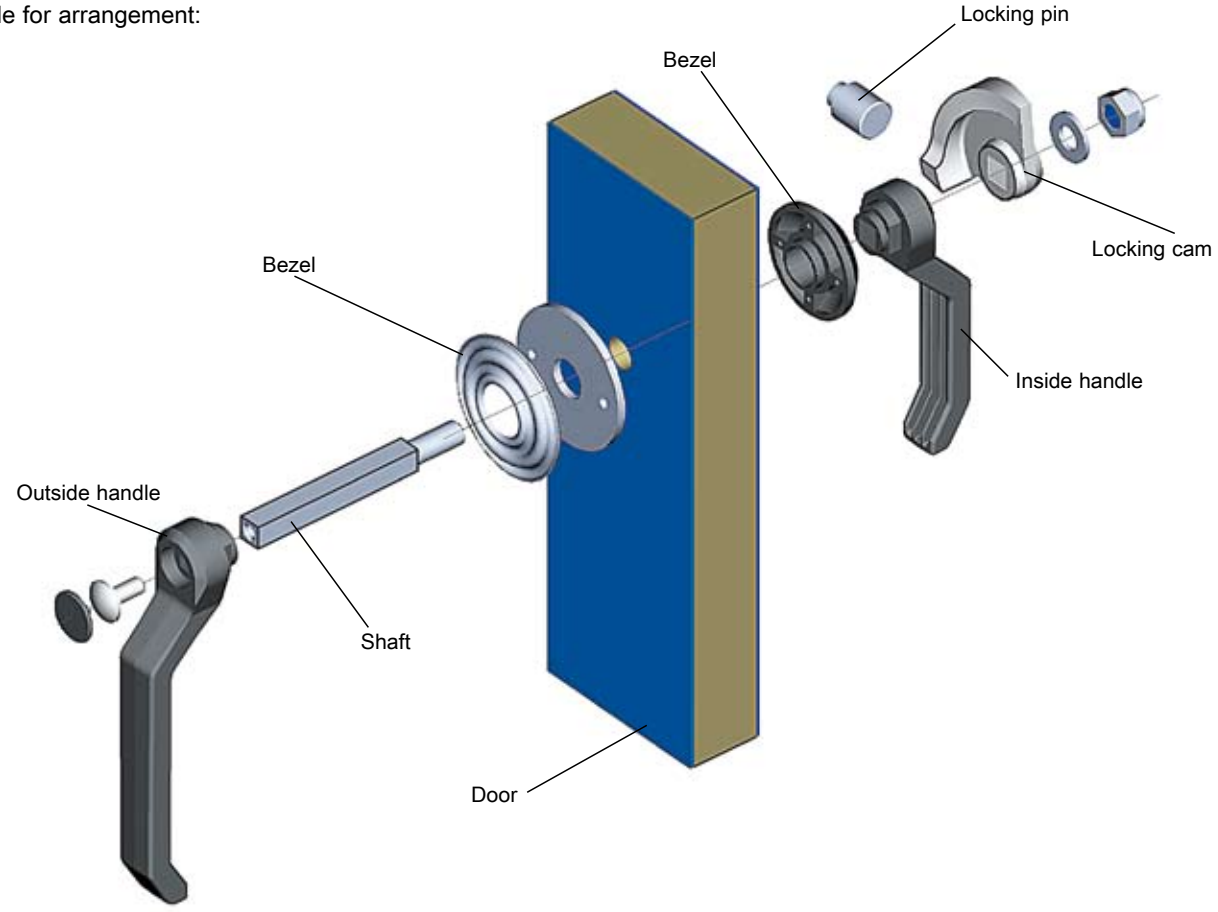


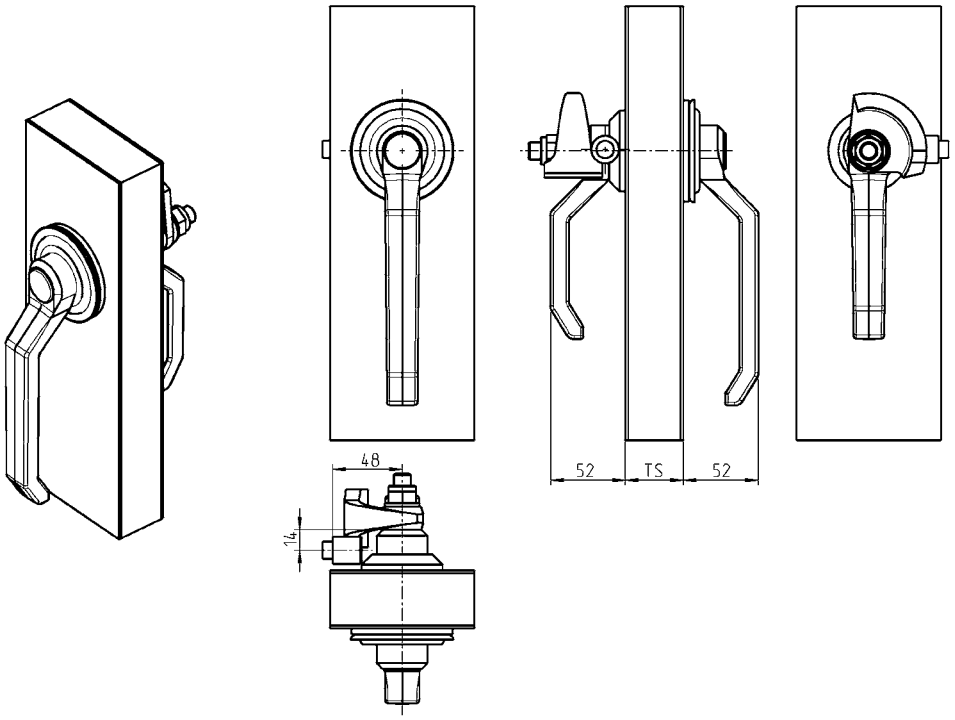
1	Heavy Duty latch with mild steel shaft	10A-120 to 10A-180, 10A-320
2	Heavy Duty latch	10A-220, 10A-340
3	Lift and turn latch	10A-520
4	Heavy Duty latch	10A-620, 10A-640
5	Heavy Duty latch, outside the door	10A-420
6	Pull	10A-720 to 10A-760, 10A-820
7	Pull with quarter turn	10A-820
8	180° hinge	10A-840

Heavy duty latch with m.s. shaft

PROGRAM 1091

Example for arrangement:





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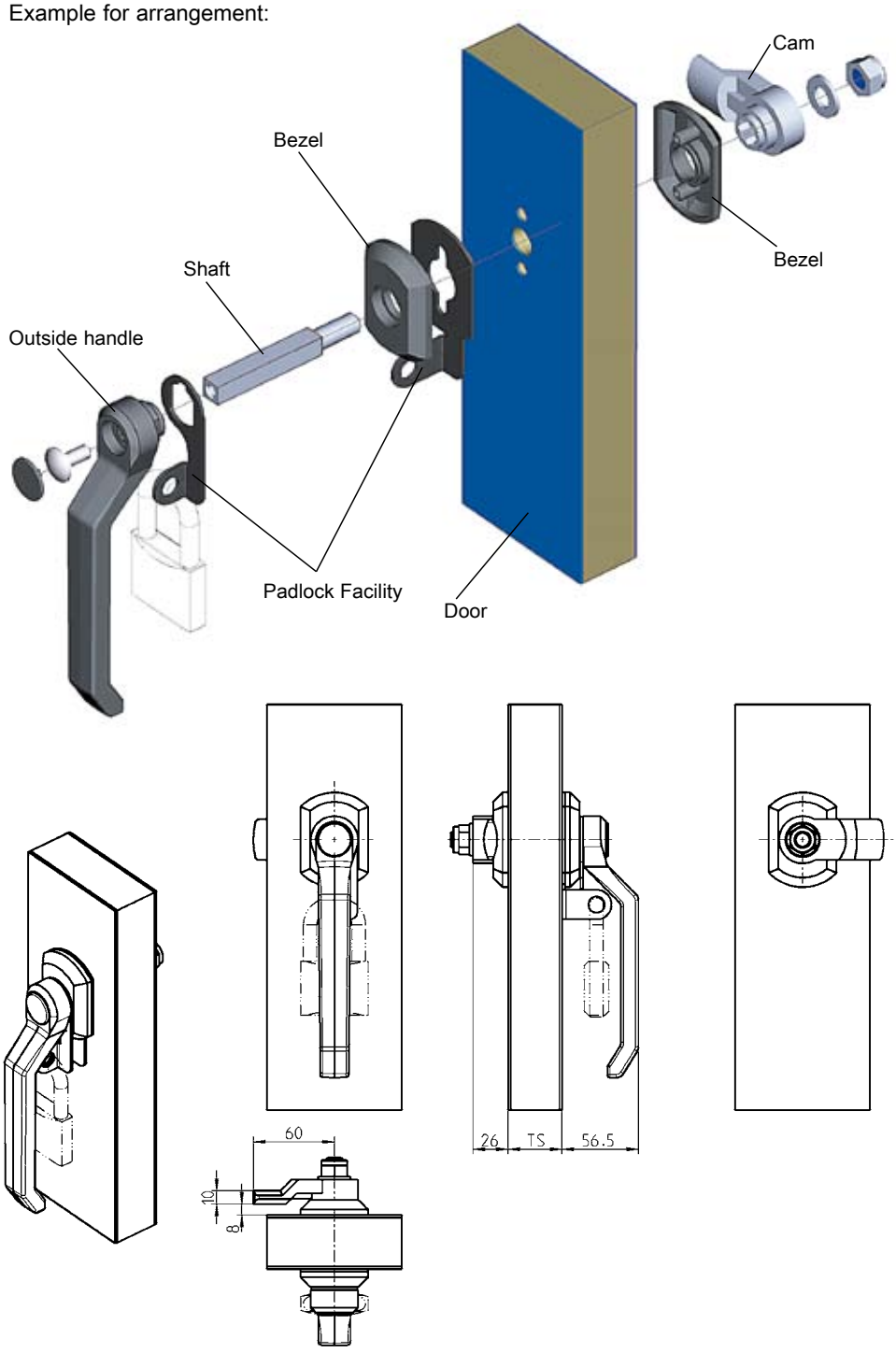
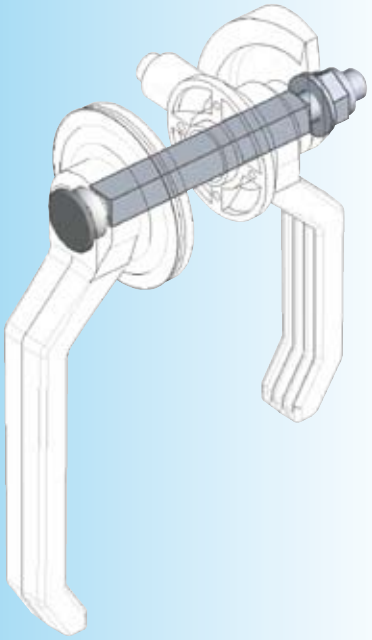
Example for arrangement:





Heavy duty latch consisting of:

Shaft m.s. zinc plated, screw M8, washer A13, Nyloc nut M12, m.s. zinc plated and plastic plug black polyamide

Ts	20	30	40	50	60	80	100	Toler-ance
for cam and inside handle								
	1091-U8	1091-U9	1091-U10	1091-U11	1091-U12	1091-U13	1091-U14	± 5
for cam without inside handle								
	1091-U6	1091-U7	1091-U8	1091-U9	1091-U10	1091-U12	1091-U13	- 10
for inside handle, or spacer and locking cam								
	1091-U8	1091-U9	1091-U10	1091-U11	1091-U12	1091-U13	1091-U14	± 5

Further parts see page

– Handle 10A-140
– Bezel 10A-180
– Locking cam 10A-160
– Cam 10A-160

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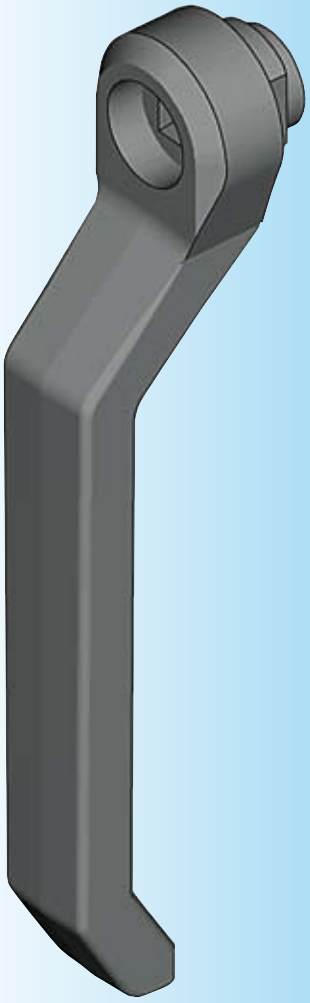
Accessories for heavy duty latch

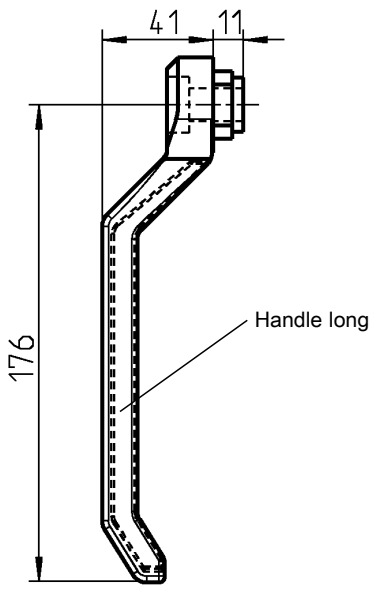
PROGRAM 1091

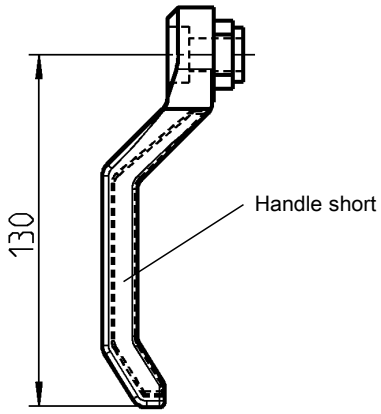
RL



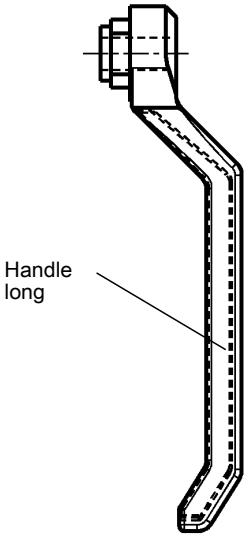
Handle

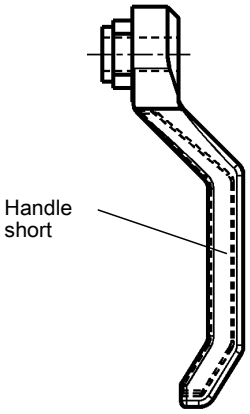
Outside

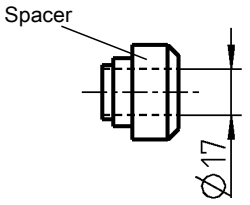




Inside







Handle long polyamide GF black	
	1091-20
Handle long polyamide GF black with embedded steel	
	1091-22
Handle short polyamide GF black	
	1091-21
Handle short polyamide GF black with embedded steel	
	1091-23

Handle long polyamide GF black	
	1091-24
Handle long polyamide GF black with embedded steel	
	1091-26
Handle short polyamide GF black	
	1091-25
Handle short polyamide GF black with embedded steel	
	1091-27
Spacer (replaces handle), m.s. zinc plated	
	1091-28

Attention:
The spacer is needed when using the cam lock without inner handle.

Further parts see page
– Heavy duty latch 10A-120
– Heavy duty latch, outside the door 10A-420

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Accessories for heavy duty latch

PROGRAM 1091

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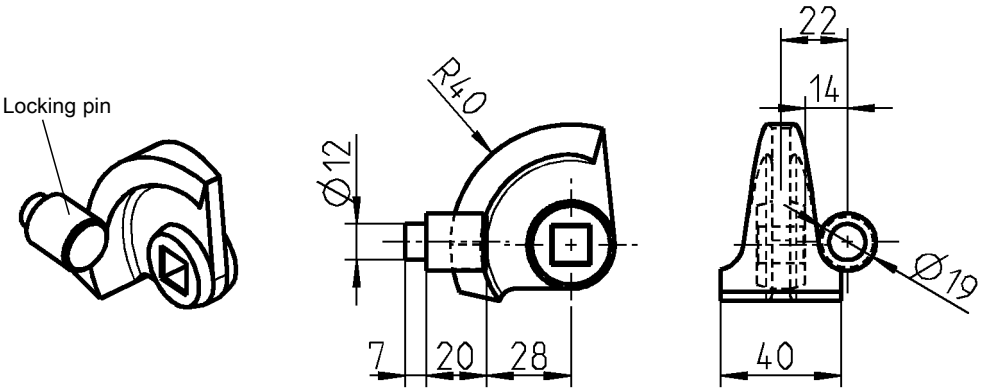
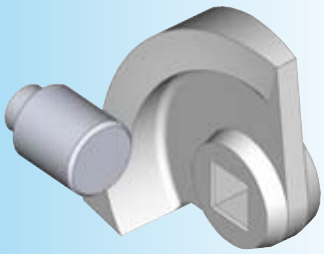
RL

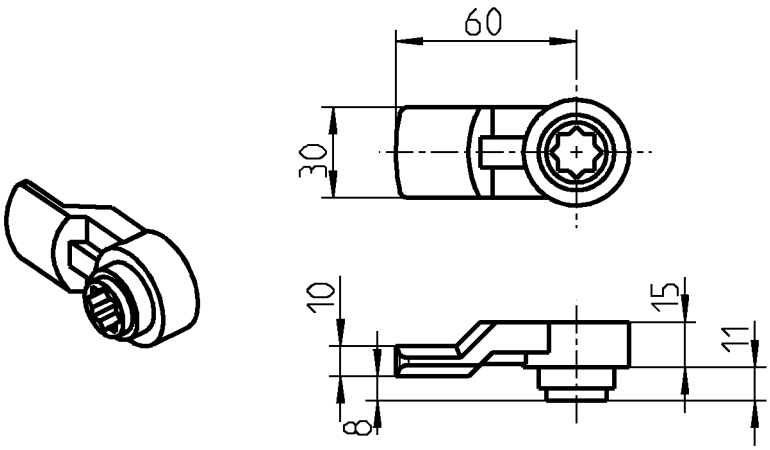
Locking cam

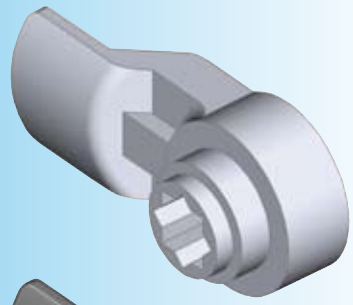


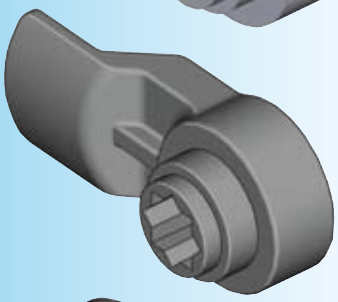


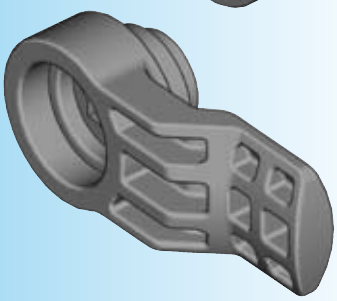
Locking cam zinc die	
	1091-04
Locking stud m.s. zinc plated	
	1091-01

Cam









Cam zinc die zinc plated	
	1091-18
Cam Polyamide GF Black	
	1091-18-01

Further parts see page
– Heavy duty latch 10A-120
10A-220
– Heavy duty latch, outside the door 10A-420

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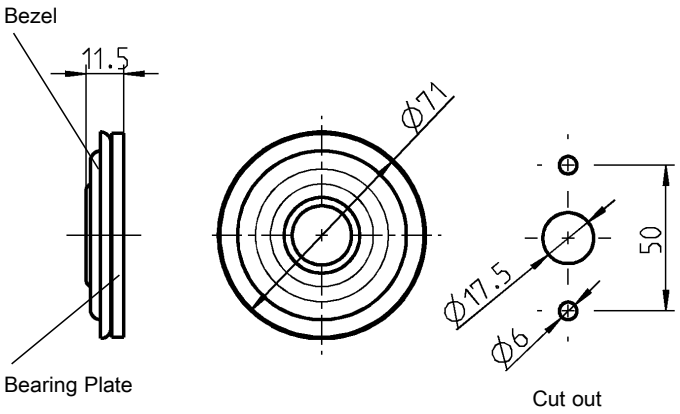
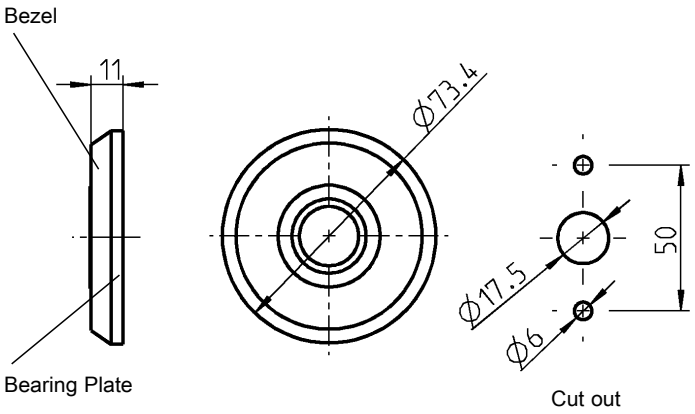
Accessories for heavy duty latch

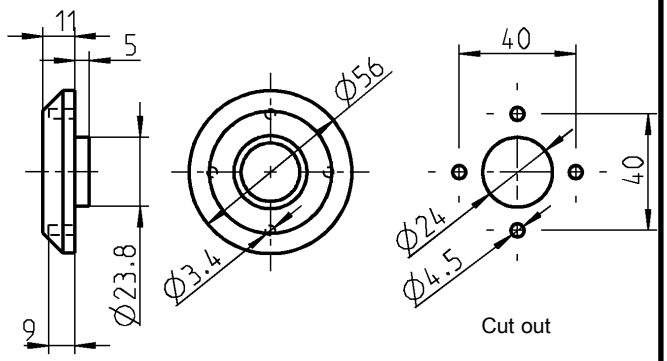
PROGRAM 1091



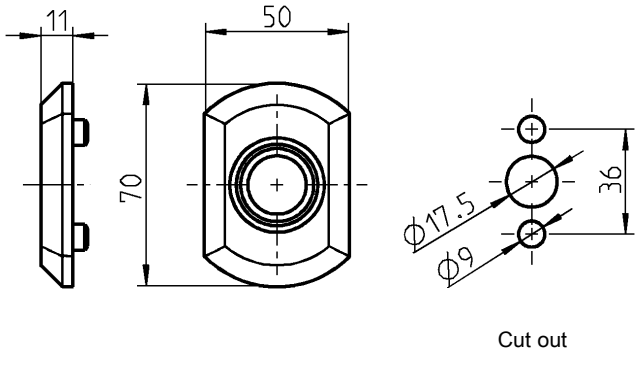
Bezel, m.s. zinc plated	1091-07
Bearing plate, m.s. zinc plated	
	1091-06



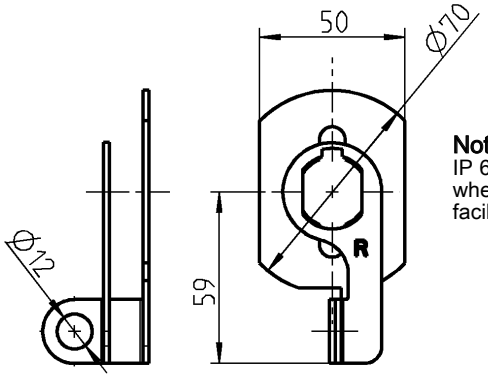
Bezel, polyamide GF black	1091-31
Bearing plate, m.s. zinc plated	
	1091-06



Bezel, polyamide GF black	1091-30

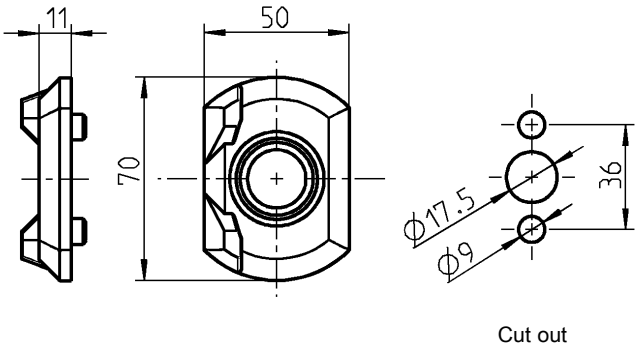


Bezel, polyamide GF black	1091-17



Note:
IP 65 is not possible when using the padlock facility.

Padlock facility, m.s. black powder coated	
RH version	1091-U86
LH version	1091-U87



Bezel with dogs, Polyamide GF black	1091-17-01

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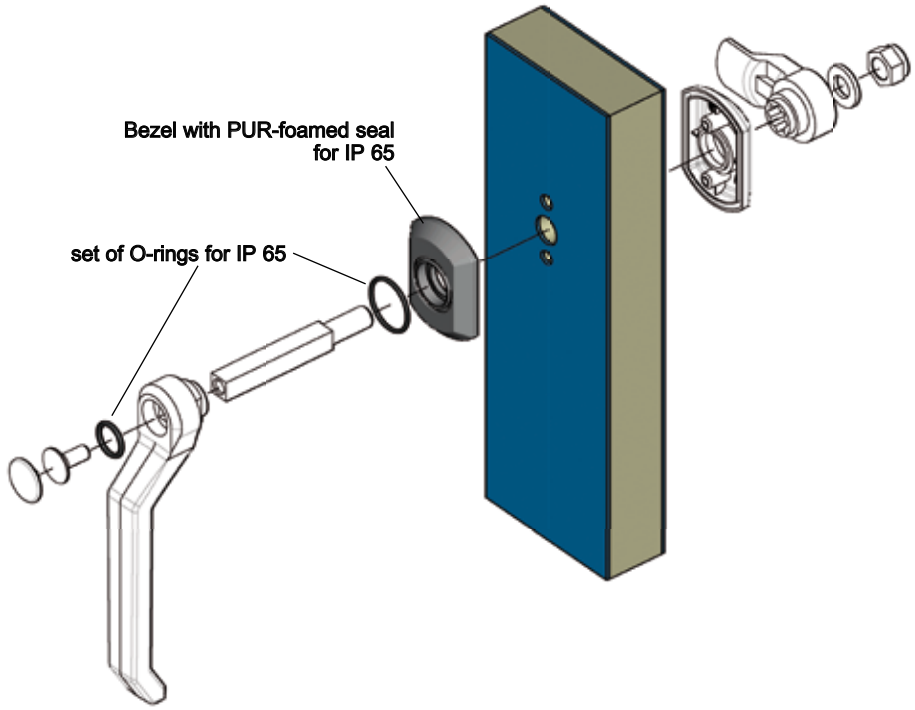
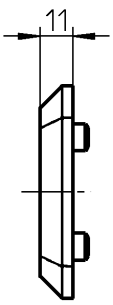
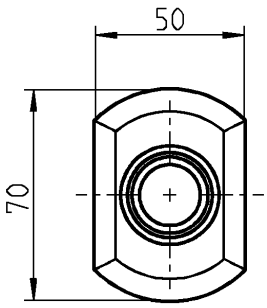
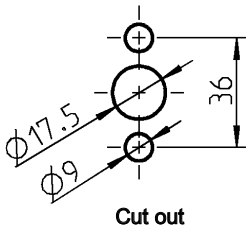


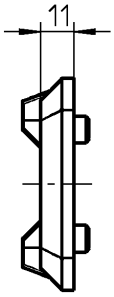


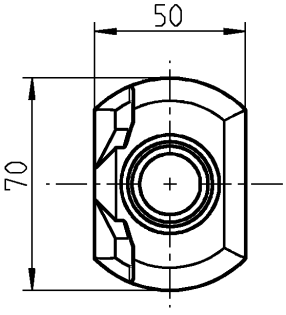


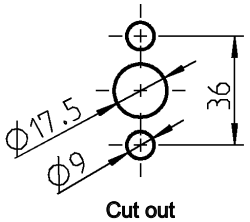


Cut out

Bezel, polyamide GF black, with foamed seal	
	1091-17-G
IP 65 with:	
set of O-rings	1091-U90







Cut out

Bezel with stop dogs, polyamide GF black, with foamed seal	
	1091-17-01G
IP 65 with:	
set of O-rings	1091-U90

Further parts see page
– Heavy duty latch 10A-120
10A-220
10A-320
10A-340

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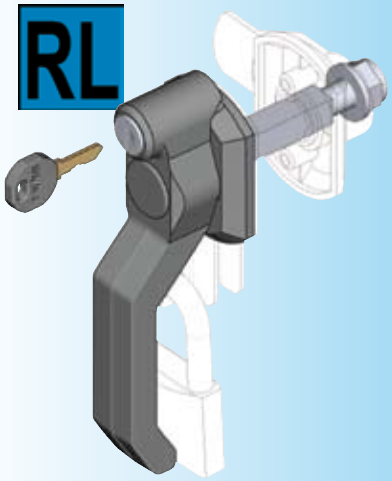
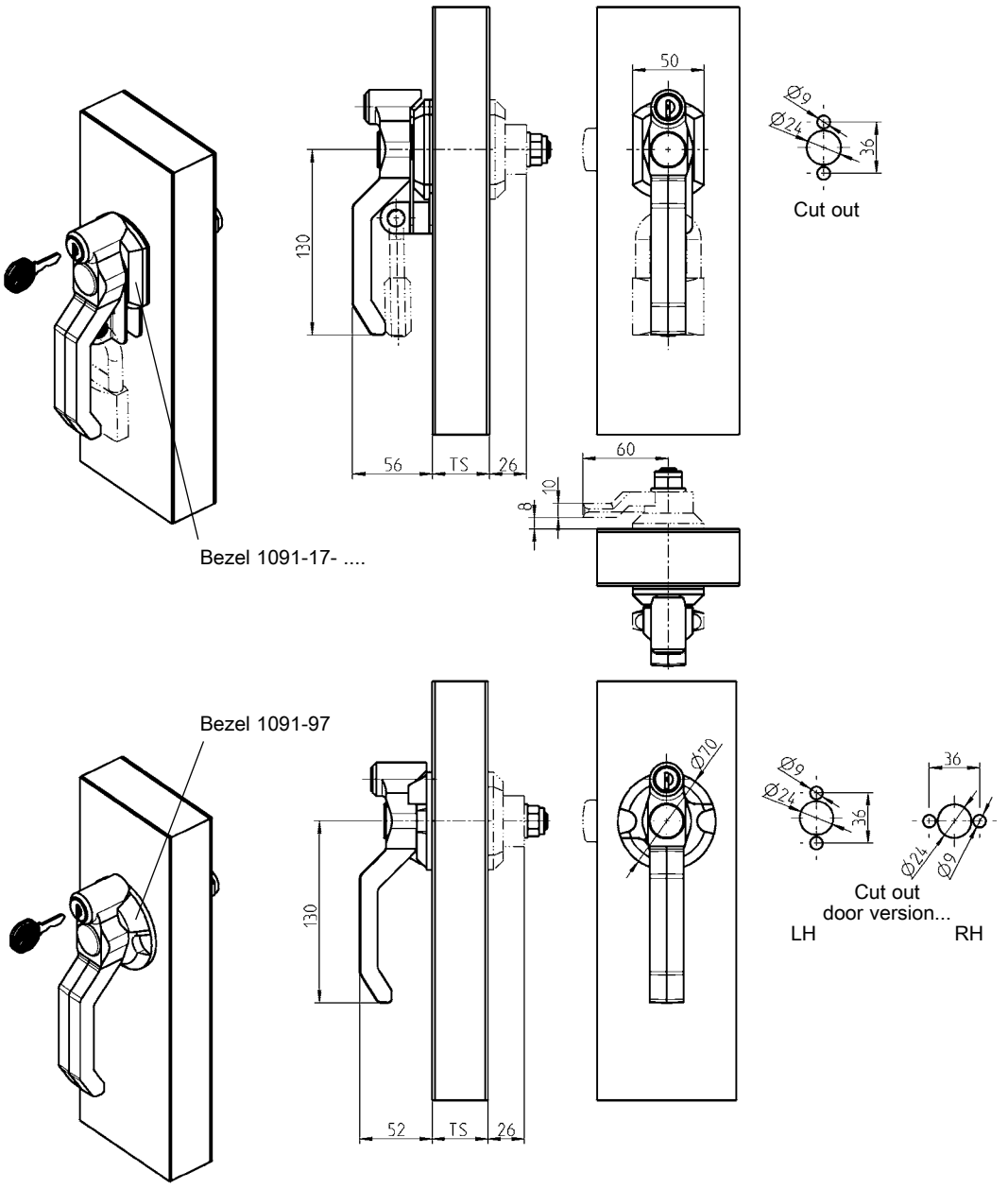
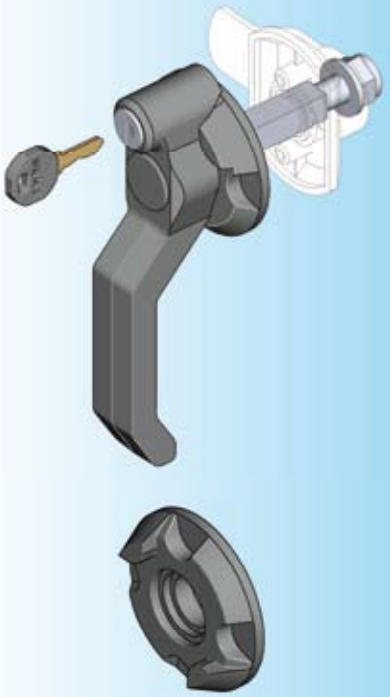
Heavy duty latch with m.s. shaft

PROGRAM 1091

R L RL







Round bezel with 90°-stopper 1091-97 also suitable for non-locking handles.

Other inserts available on request

Further parts see page

– Cam 10A-160
– Locking cam 10A-160
– Spacer 10A-140
– Padlock facility 10A-180
– Key 12B-120
– Spare key 12B-140

Handle Polyamide GF black for m.s. shaft, round cylinder zinc die with stainless steel cap and dust cover, insert zinc die chrome plated			
keyed EK 333	1091-U50	keyed different	1091-U51
Square 7	1091-U52	Square 8	1091-U53
Triangular 8	1091-U54	Double bit 3	1091-U55
Double bit 5	1091-U56	Slot 2 x 4	1091-U57
Bezel Polyamide black for lockable handle			
180°-stopper	1091-17-03	90°-stopper, LH	1091-17-04
90°-stopper, RH	1091-17-05	90°-stop, round bezel	1091-97

Shaft m.s., screw, nut M12 and washer A13 m.s. zinc plated, blind plug Polyamide GF black							
Ts	**20**	**30**	**40**	**50**	**60**	**80**	**100**
for cam							
	1091-U6	1091-U7	1091-U8	1091-U9	1091-U10	1091-U12	1091-U13
for spacer and locking cam							
	1091-U8	1091-U9	1091-U10	1091-U11	1091-U12	1091-U13	1091-U14

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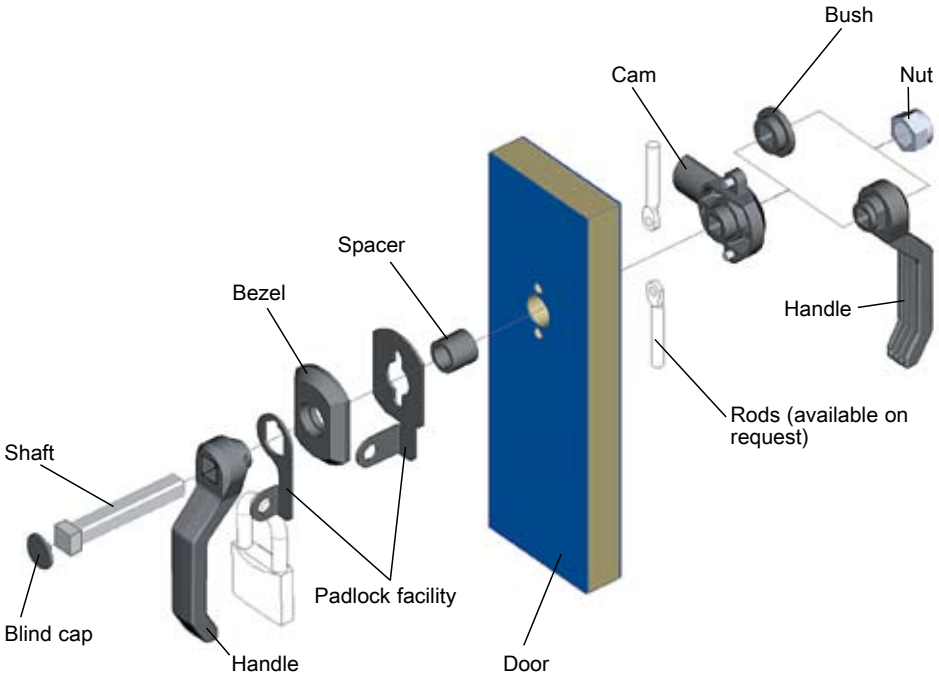
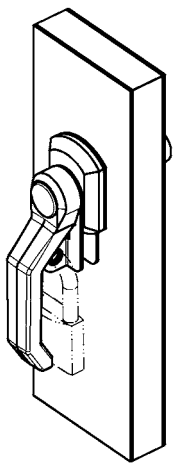
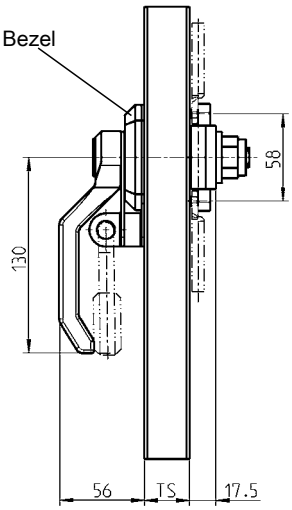
Heavy duty latch with zinc die shaft

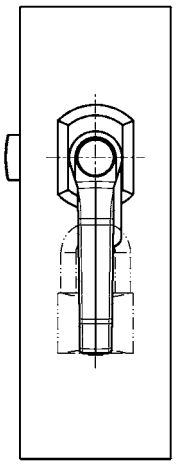
PROGRAM 1091

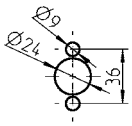
Example for arrangement



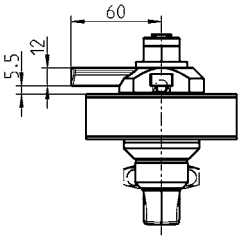


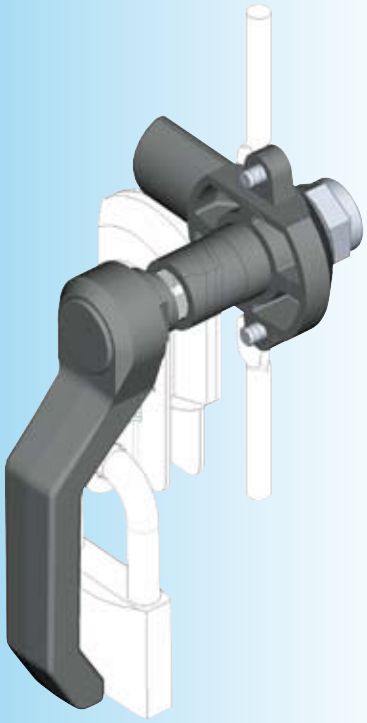






Cut out





Attention:
If an internal handle is installed, the maximum door gauge is reduced by 10 mm.

Handle Polymide GF black (outside and inside)			
			1091-42
Shaft zinc die, Nut m.s.zinc plated, cam, spacer, bush and blind plug Polyamide GF black			
Ts	**10 – 30**	**31 – 50**	**51 – 70**
with single point cam	1091-U80	1091-U81	1091-U82
with 3-point cam	1091-U83	1091-U84	1091-U85

Further parts see page

– Bezel	10A-180
– Padlock facility	10A-180
– Rod	on request

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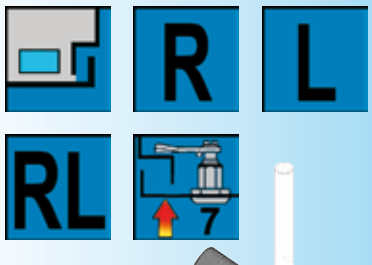
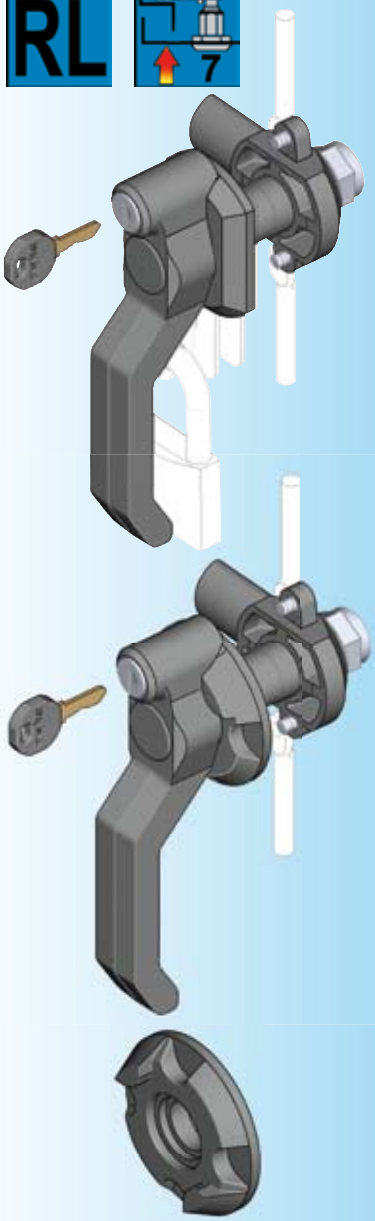
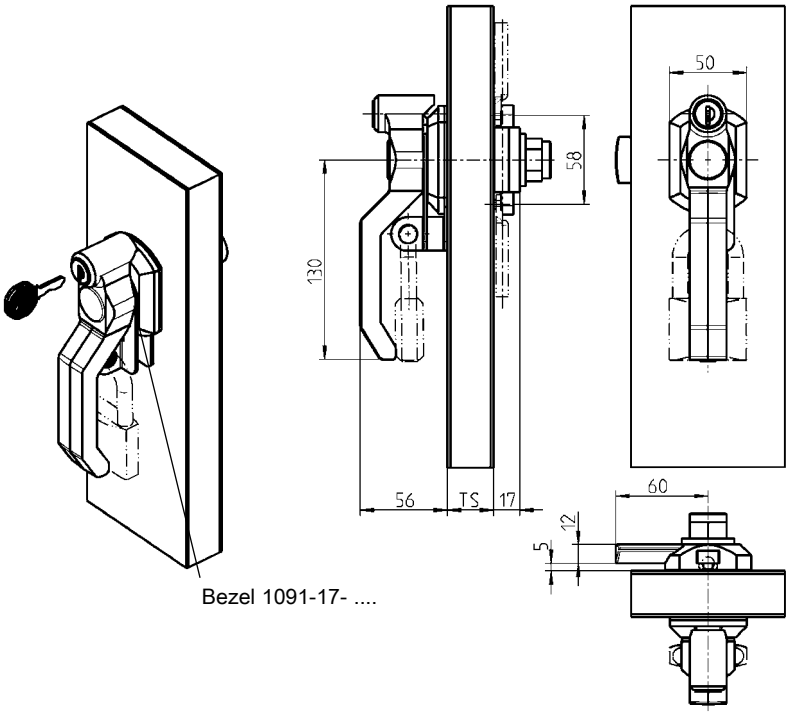
Heavy duty latch with zinc die shaft

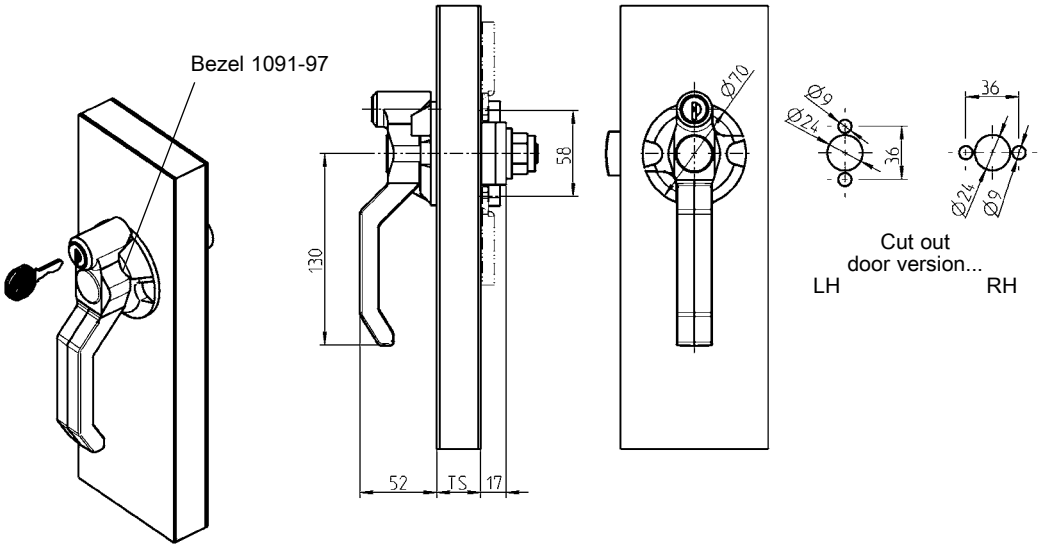
PROGRAM 1091





Round bezel with 90°-stopper 1091-97 also suitable for non-locking handles.





Handle Polyamide GF black for zinc die shaft,round cylinder zinc die with stainless steel cap and dust cover, insert zinc die chrome plated			
keyed EK 333	1091-U72	keyed different	1091-U73
Square 7	1091-U74	Square 8	1091-U75
Triangular 8	1091-U76	Double bit 3	1091-U77
Double bit 5	1091-U78	Slot 2 x 4	1091-U79
Bezel Polyamide black for lockable handle			
180°-stopper	1091-17-03	90°-stopper, LH	1091-17-04
90°-stopper, RH	1091-17-05	90°-stop, round bezel	1091-97
Shaft zinc die, nut M12 m.s., cam, spacer, bush and blind plug Polyamide GF black			

Ts	10 – 30	31 – 50	51 – 70
with single point cam	1091-U80	1091-U81	1091-U82
with 3-point cam	1091-U83	1091-U84	1091-U85

Other inserts available on request

Further parts see page

– Padlock facility	10A-180
– Rod	on request
– Key	12B-120
– Spare key	12B-140

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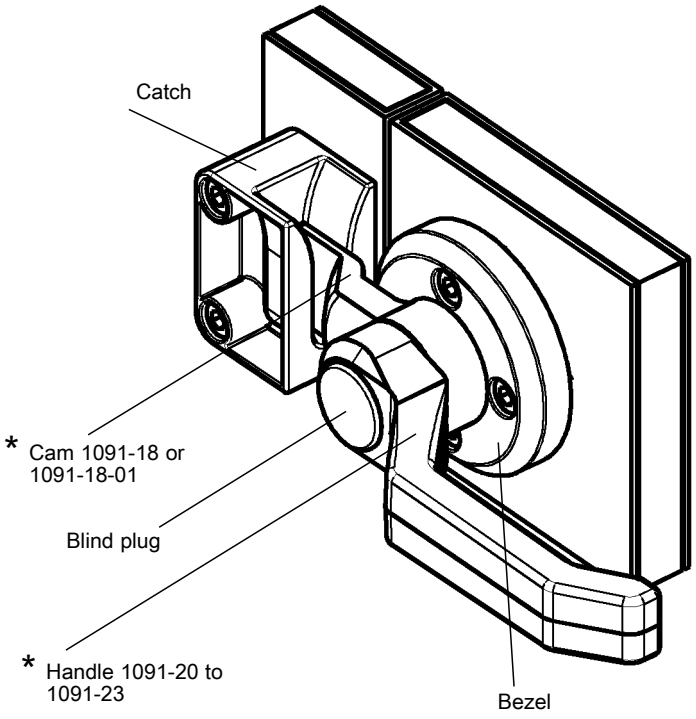
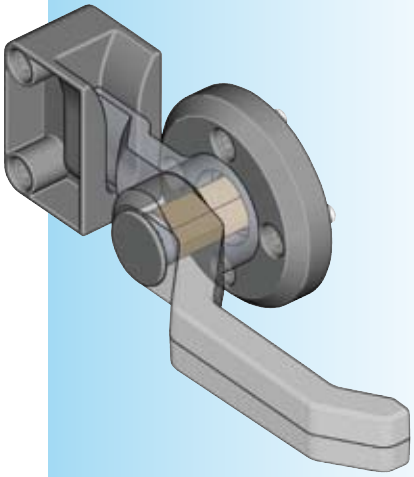
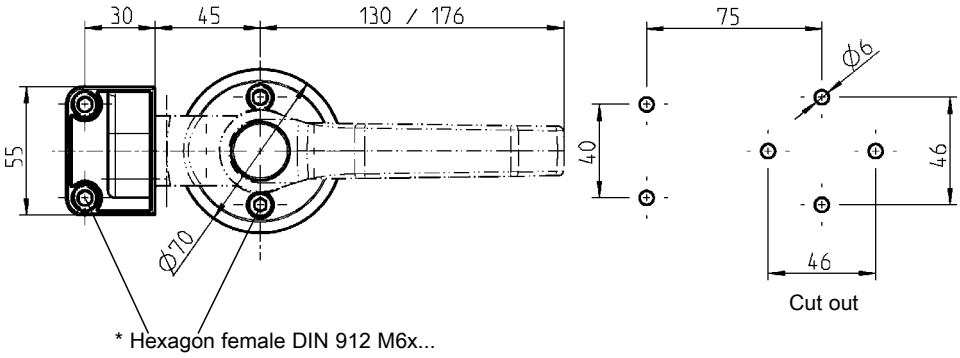
Heavy Duty latch, outside the door

PROGRAM 1091

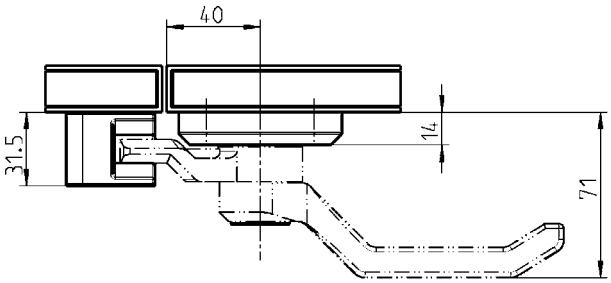




Combination of:
1091-U121; 1091-96,
handle 1091-21 and
cam 1091-18



* Hexagon female DIN 912 M6x...



*** must order separately**

Bezel and blind plug Polyamide GF black **Shaft brass, fixing m.s. zinc plated**	
	1091-U121
Catch Polyamide GF black	
	1091-96

Further parts see page

– Outside handle	10A-140
– Cam	10A-160

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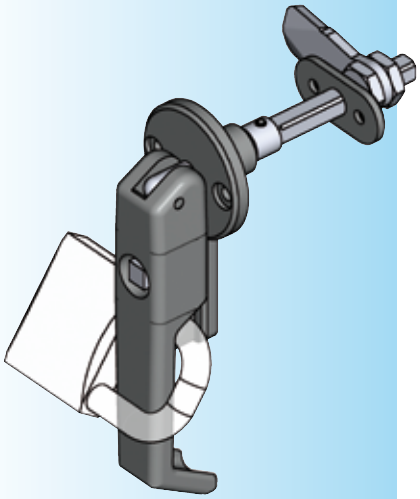
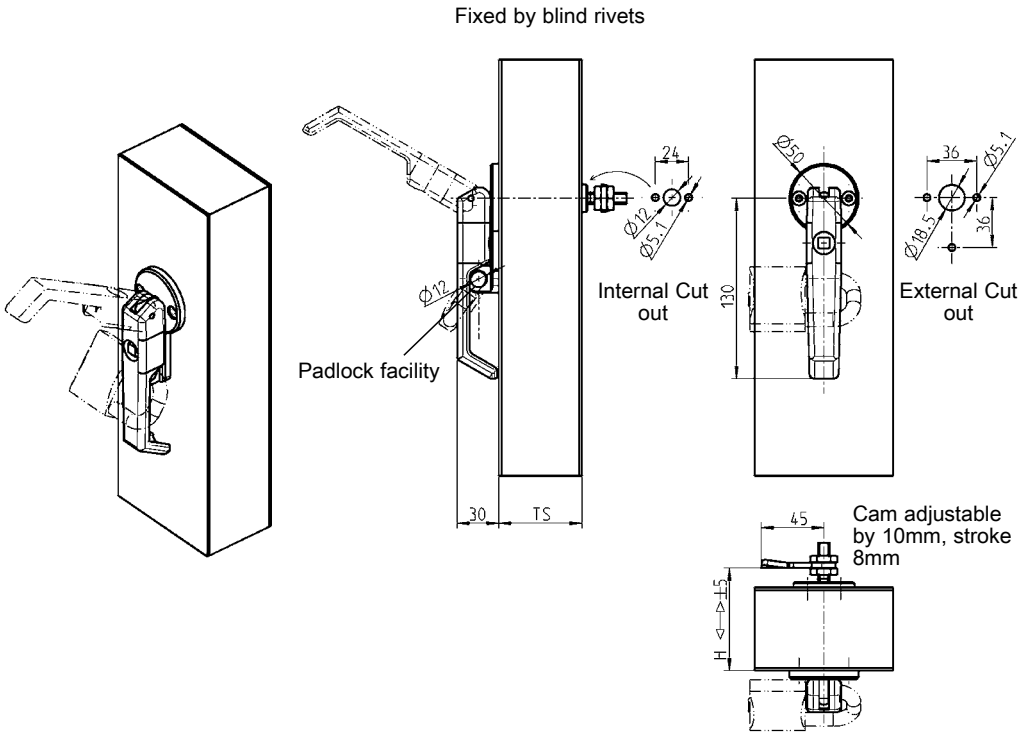
Lift and turn latch

PROGRAM 1091





Lift and turn handle consisting of Handle Polyamide GF black with shaft m.s. zinc plated, back plate zinc die black powder coated, cam for insert m.s. zinc plated, bearing plate zinc die zinc plated, pins and nuts			
			1091-U95
Cam m.s. zinc plated			
straight			1000-203
cranked 10 mm			1000-392
cranked 20 mm			1000-391
cranked 30 mm			1000-390
Insert zinc die chrome plated			
Square 6	1121-U11	Double bit 5	1121-U17
Square 7	1121-U12	Daimler Benz	1121-U18
Square 8	1121-U13	Slot 2 x 4	1121-U123
Triangular 7	1121-U14	Eastern European 13 mm dia	1121-U143
Triangular 8	1121-U15	Blind plug	1091-83-AA
Double bit 3	1121-U16	Assembly	1000-990

Shaft m.s. zinc plated (to be pinned to the handle boss)

Ts	H-dim. depends on the cam				
max.	1000 – 390	1000 – 391	1000 – 392	1000 – 203	
40	20 – 30	30 – 40	40 – 50	50 – 60	1091-59-01
60	40 – 50	50 – 60	60 – 70	70 – 80	1091-59-02
80	60 – 70	70 – 80	80 – 90	90 – 100	1091-59-03
100	80 – 90	90 – 100	100 – 110	110 – 120	1091-59-04
120	100 – 110	110 – 120	120 – 130	130 – 140	1091-59-05
140	120 – 130	130 – 140	140 – 150	150 – 160	1091-59-06

Further parts see page
– Key 12B-120

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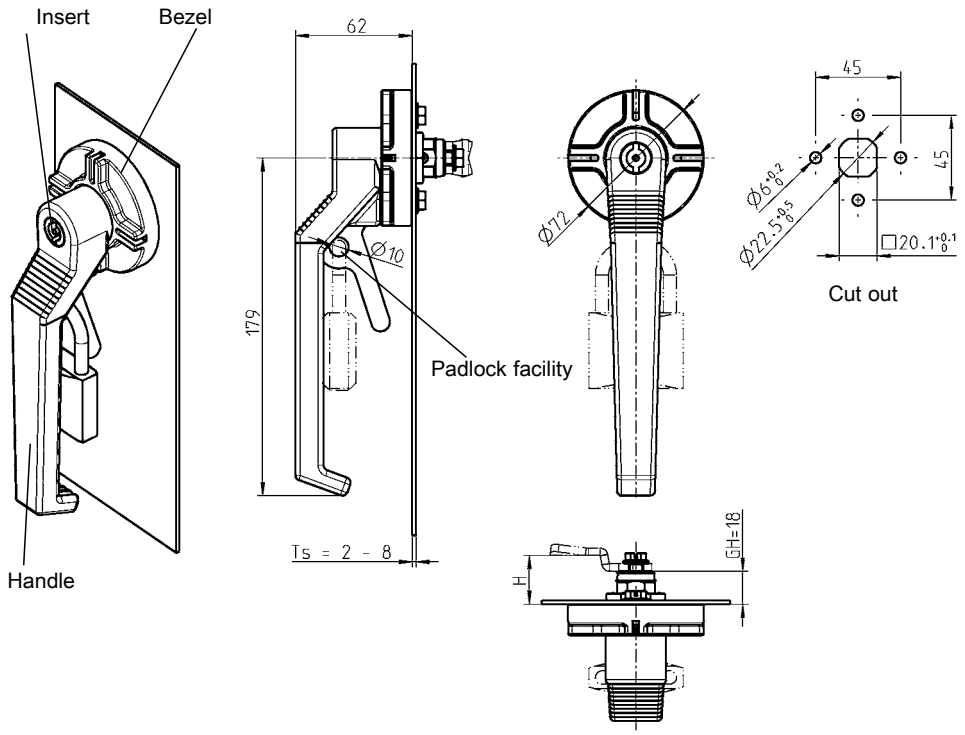
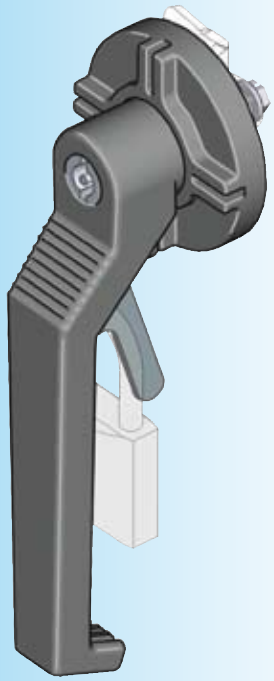
Heavy duty latch

PROGRAM 1091





Insert is spring loaded

Other inserts available on request

Handle zinc die black p.c., insert zinc die chrome plated, round cylinder with stainless steel cap and dust cover, padlock facility stainless steel			
without insert	1091-U99	Slot 2 x 4	1091-U108
Double bit 3	1091-U105	keyed EK 333	1091-U110
Slot 1,2 x 3	1091-U109	keyed different	1091-U111
Bezel zinc die black p.c., earthing nut m.s. zinc pl., with seal			
LH version			1091-U112
RH version			1091-U113

Further parts see page
– Cam with catch (GH=18) 1C-120 up to 1C-160
– Ramp 1C-170
– Key 12B-120
– Spare key 12B-140

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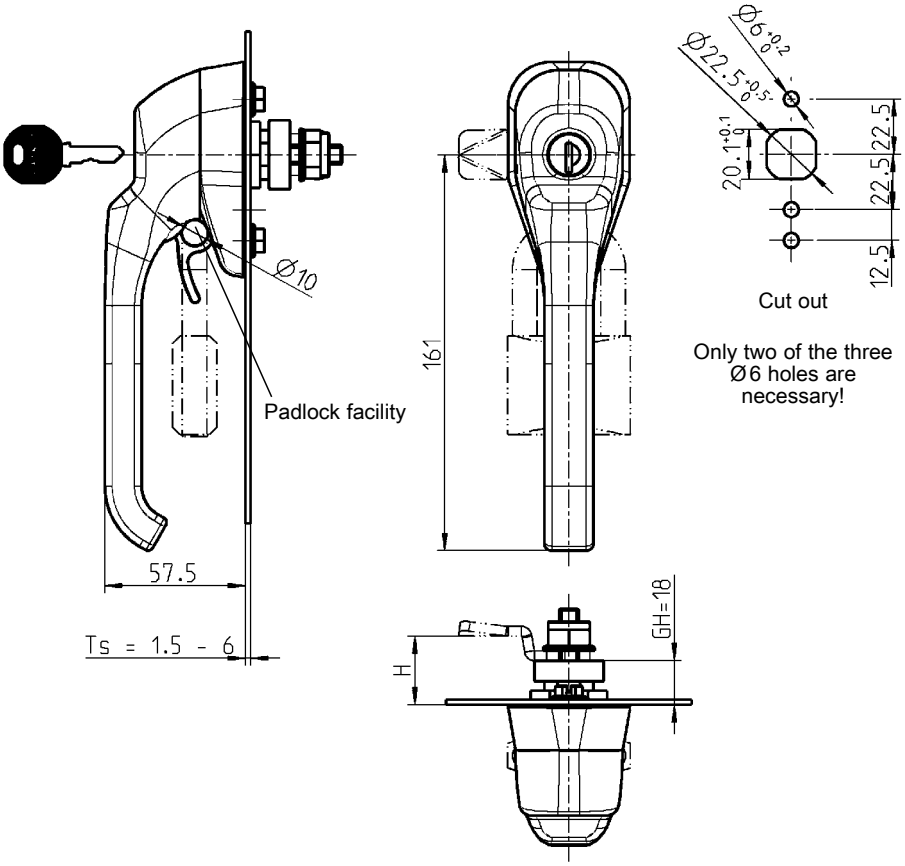
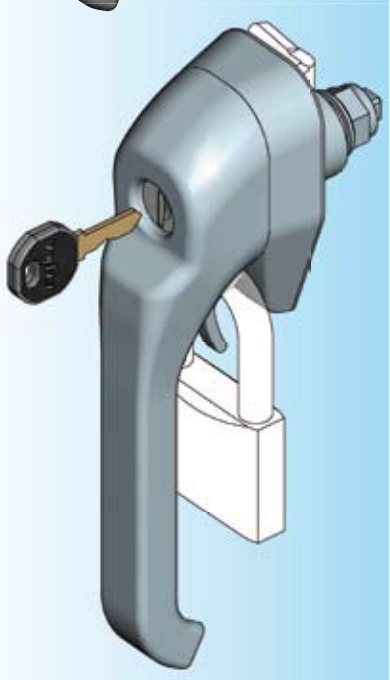
Heavy duty latch

PROGRAM 1091

EDELSTAHL Rostfrei STAINLESS STEEL





Handle zinc die black p.c., round cylinder with stainless steel cap and dust cap, insert and lever zinc die chrome plated, stop plate zinc die zinc plated, fixing material m.s. zinc plated. Each round cylinder has one silver steel key with polyamide grip GF black.			
spring loaded			
without insert	1091-U122	Triangular 8	1091-U131
keyed EK 333	1091-U123	Double bit 3	1091-U132
keyed different	1091-U124	Double bit 5	1091-U133
Square 6	1091-U125	Hexagon female 8	1091-U134
Square 7	1091-U126	Hexagon female 10	1091-U135
Square 8	1091-U127	Square female 8	1091-U136
Square 8 slotted	1091-U128	Slot 2 x 4	1091-U137
Triangular 6,5 CNOMO	1091-U129	Daimler Benz	1091-U138
Triangular 7	1091-U130	Eastern Europe Ø13 half round	1091-U139
without spring-load			
keyed EK 333	1091-U140	keyed different	1091-U141
Heavy duty latch AISI 316, round cylinder with stainless steel cap and dust cap zinc die chrome plated Each cylinder has one silver steel key with polyamide GF grip black.			
spring loaded			
without insert	1091-U142	keyed different	1091-U142-03
keyed EK 333	1091-U142-02	Slot 2 x 4	1091-U142-01

Further parts see page
– Cam with catch (GH=18) 1C-120 up to 1C-160
– Ramp 1C-170
– Key 12B-120
– Spare key 12B-140

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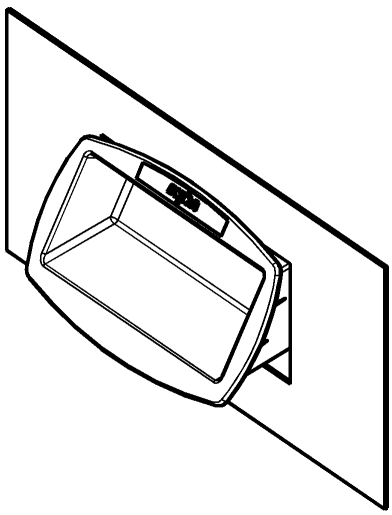
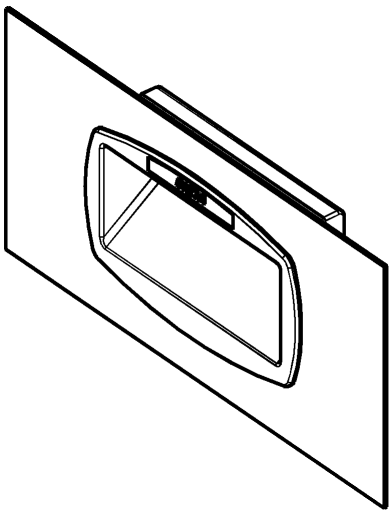
Pull

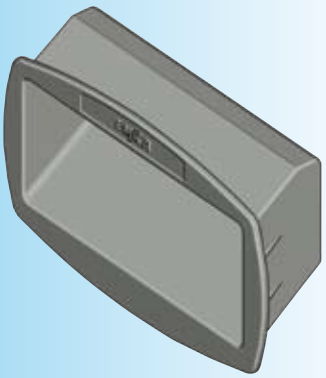
PROGRAM 1091

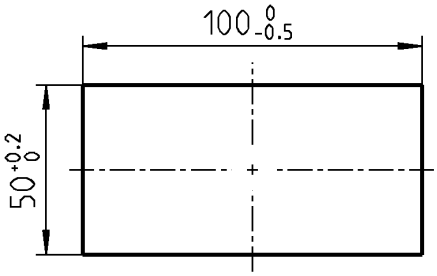


Pull can be clipped into cut out

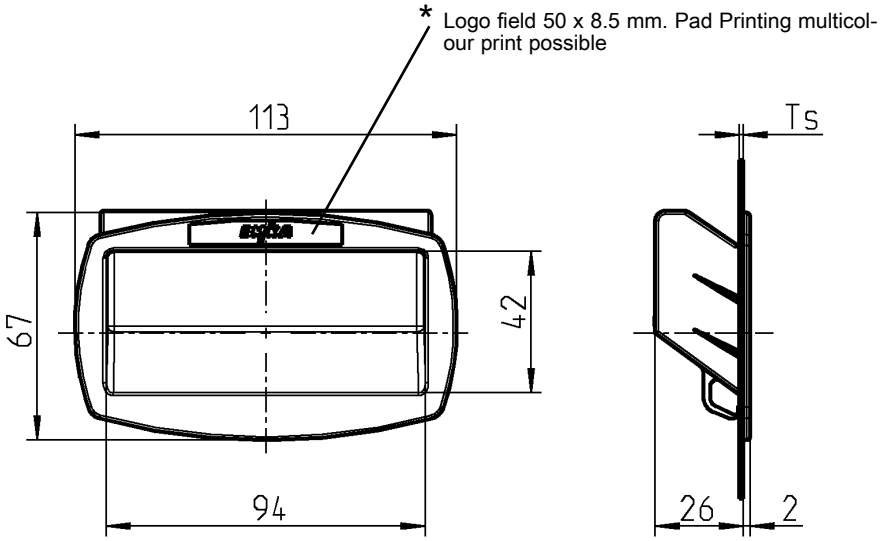


Ready for operating





Cut out



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

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

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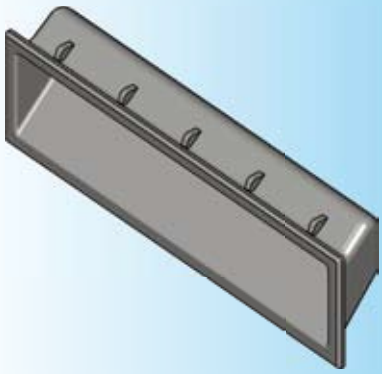
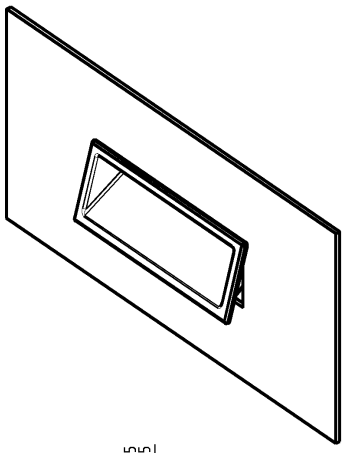
Pull

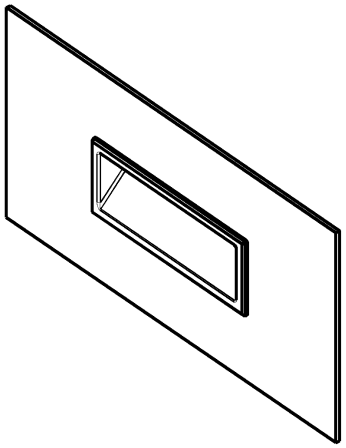
PROGRAM 1091

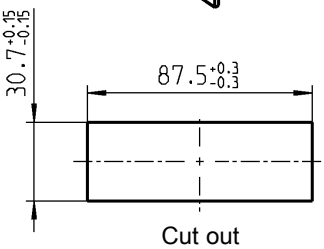


Press pull into cut out



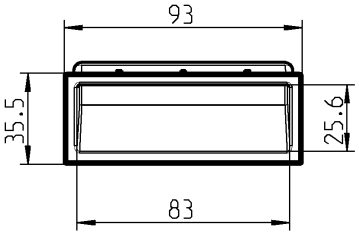
Ready for operating

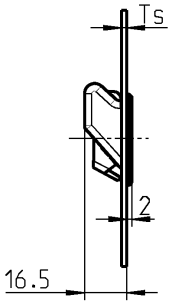


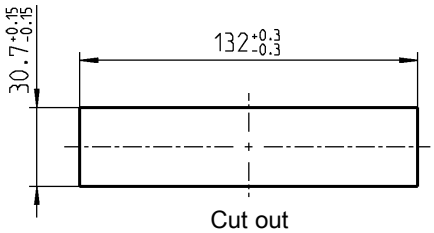


Cut out

Version A

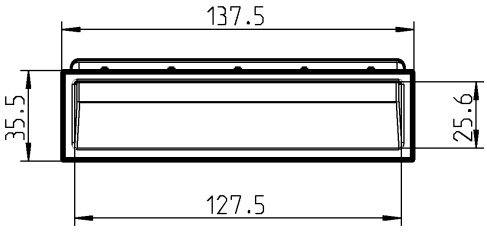


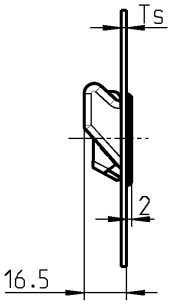




Cut out

Version B





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

Pulls for other door thickness on request

Pull Polyamide GF Black		
	Version A	**Version B**
Ts 0,8 - 1,2 mm	1091-103-01	1091-109-01
Ts 1,2 - 1,6 mm	1091-103-02	1091-109-02
Ts 1,75 - 2,2 mm	1091-103-03	1091-109-03

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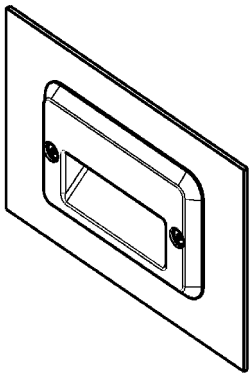
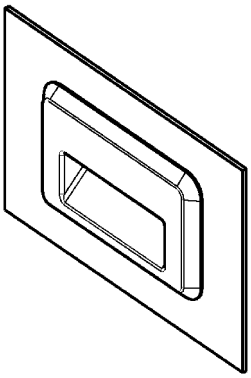
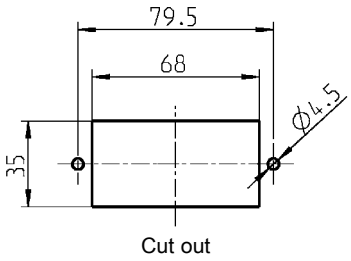
Pull

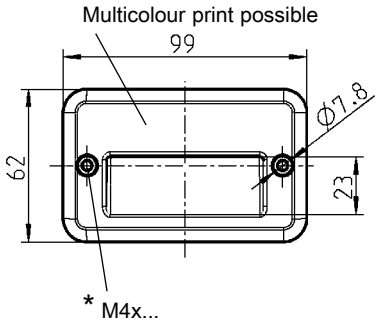
PROGRAM 1091

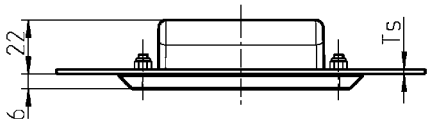




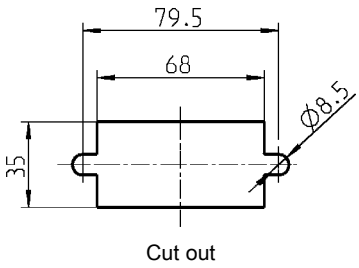
Version A

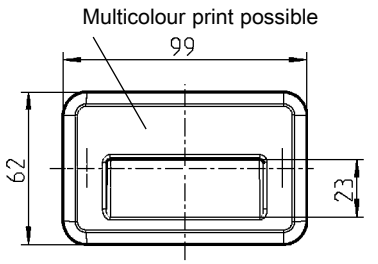


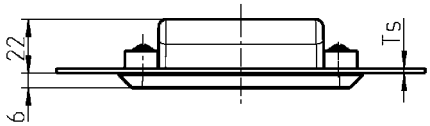




Version B

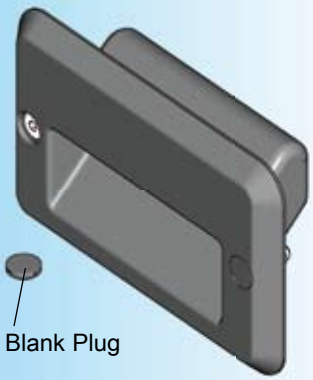






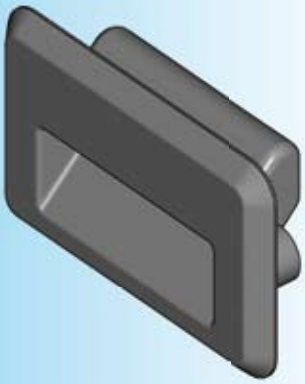
Pull polyamide GF black, with seal Version B clip polyamide GF black, fixing material m.s. zinc pl.			
Version A	IP 54	Ts 0.8 - 7	1091-105
Version B	IP 65	Ts 0,8 - 3 **	1091-U144
Plug polyethylene black for version A			
(2 plugs are needed per pull)			1091-106

Version A



Blank Plug

Version B



* not included

** other door thickness on request

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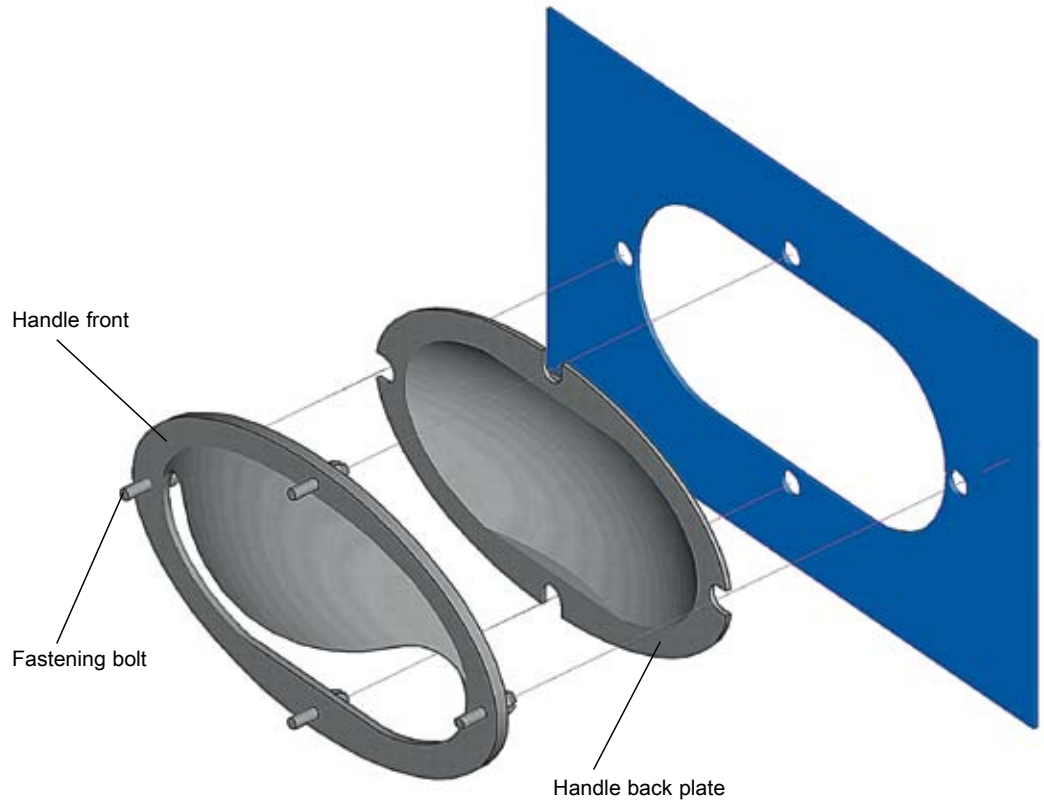
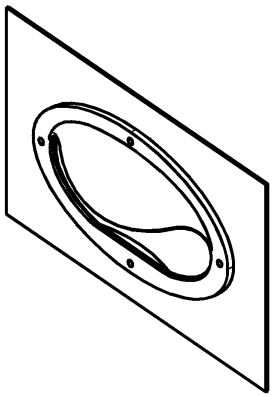
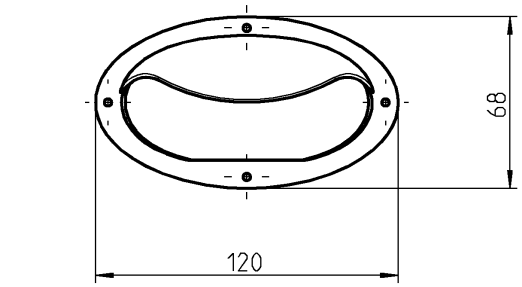
Pull

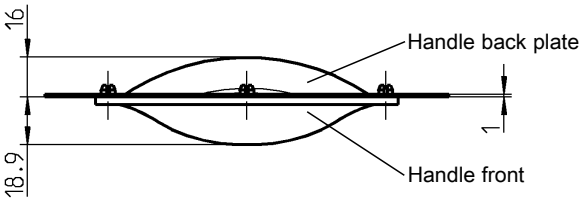
PROGRAM 1091

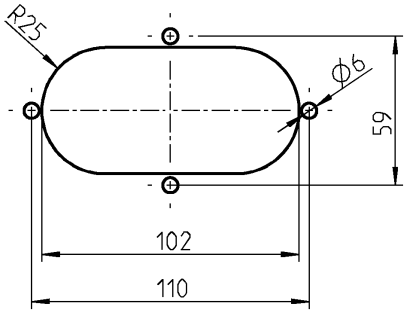
Pull Handle











Cut out

Pull Handle Polyamide GF black

1091-U97

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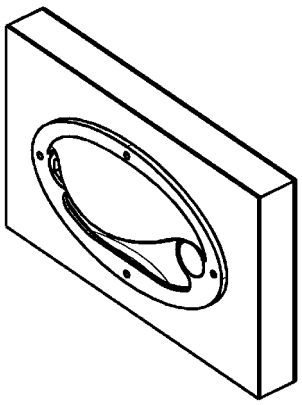
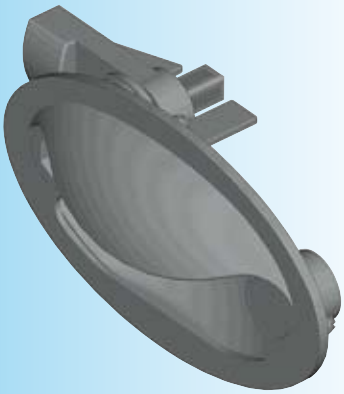
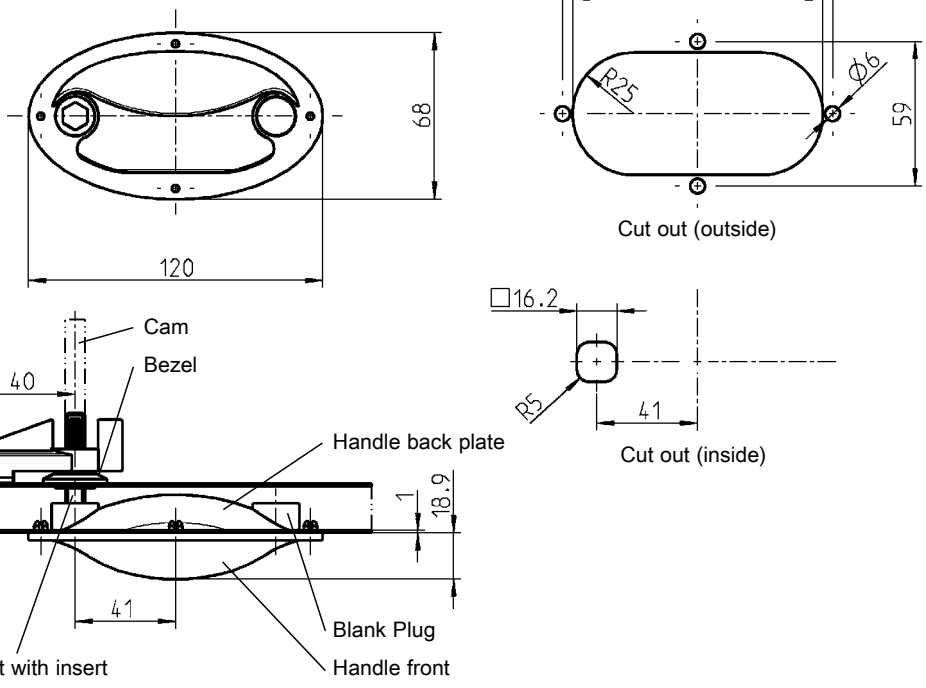
Pull with quarter turn







Assembly:
Hammer the fastening bolts until flush. Cam is clipped to shaft. The quarter turn can be opened with standard male hexagon key SW10 (acc. to DIN ISO 2936)

Handle, shaft, bezel, cam and plug Polyamide GF black with seal	
Version with shaft for Ts = 20-30 mm	1091-U98
Version with shaft for Ts = 20-60 mm	1091-U98-01

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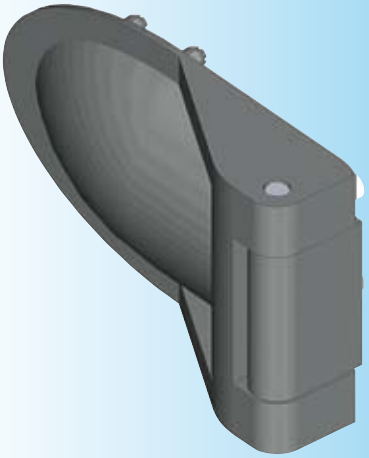
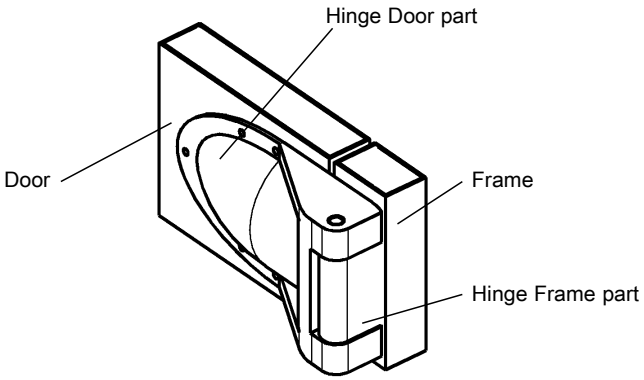
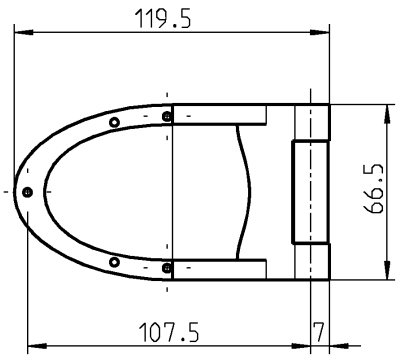
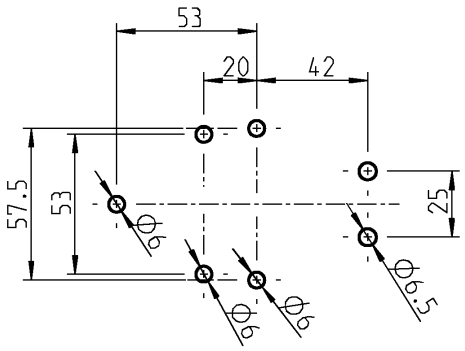
180°hinge

PROGRAM 1091

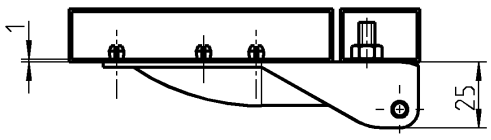








Cut out



Assembling:
Door part fixings are hammered flush. Frame part is fixed with M6 screws.

Hinge door part and frame part Polyamide GF black, pin m.s. zinc plated	
	1091-U96

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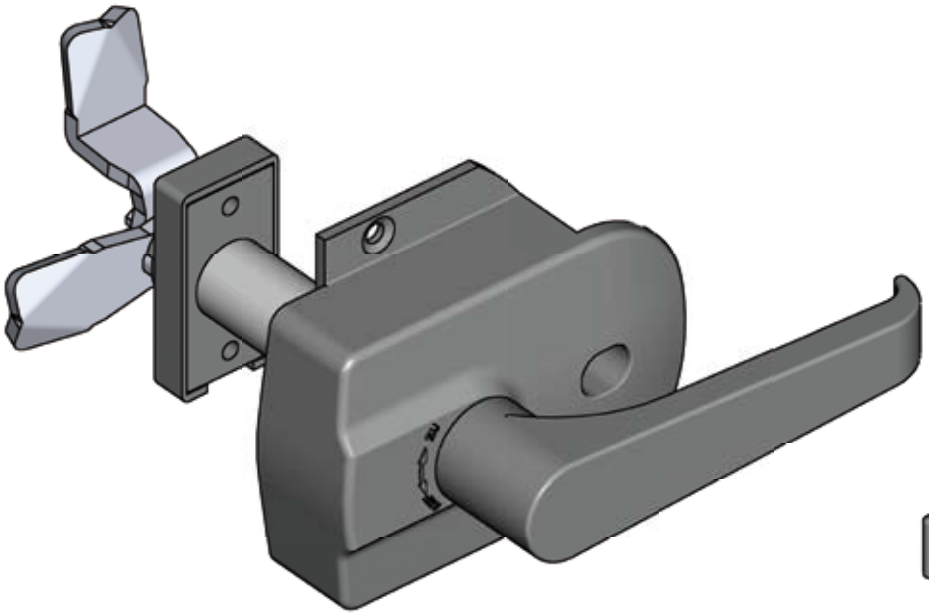
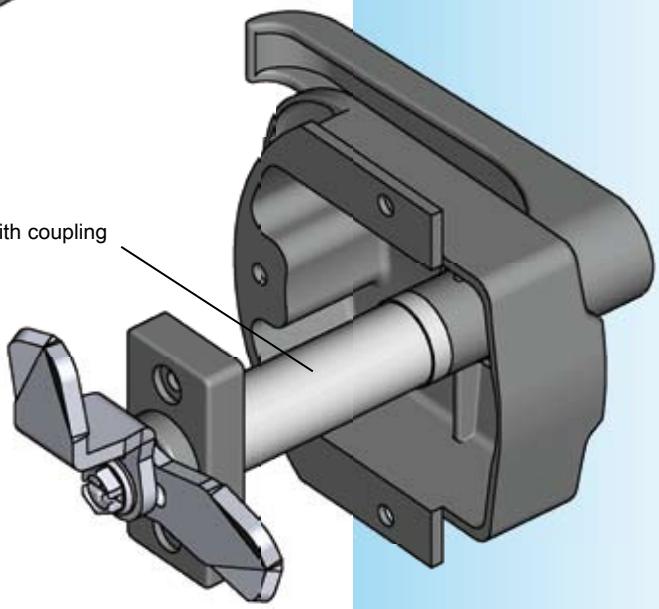
Example

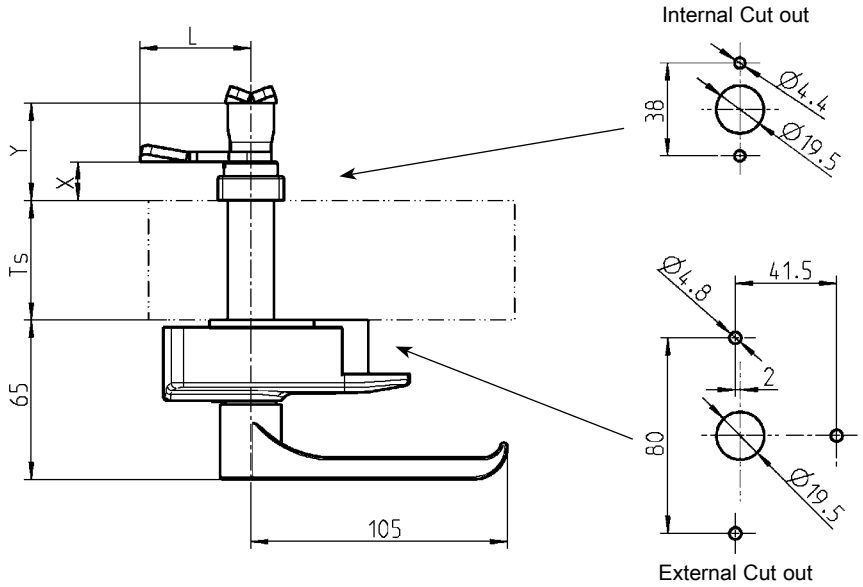




Combination of articles according to customers' request.

The Ts dimension of square shaft and spacer piece is defined exactly according to customers's request.

The measurements X and L are fixed according to customer information.



Attention:
Measurements Ts, X and L are specified according to customer information

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Surface mounted door lock with internal handle

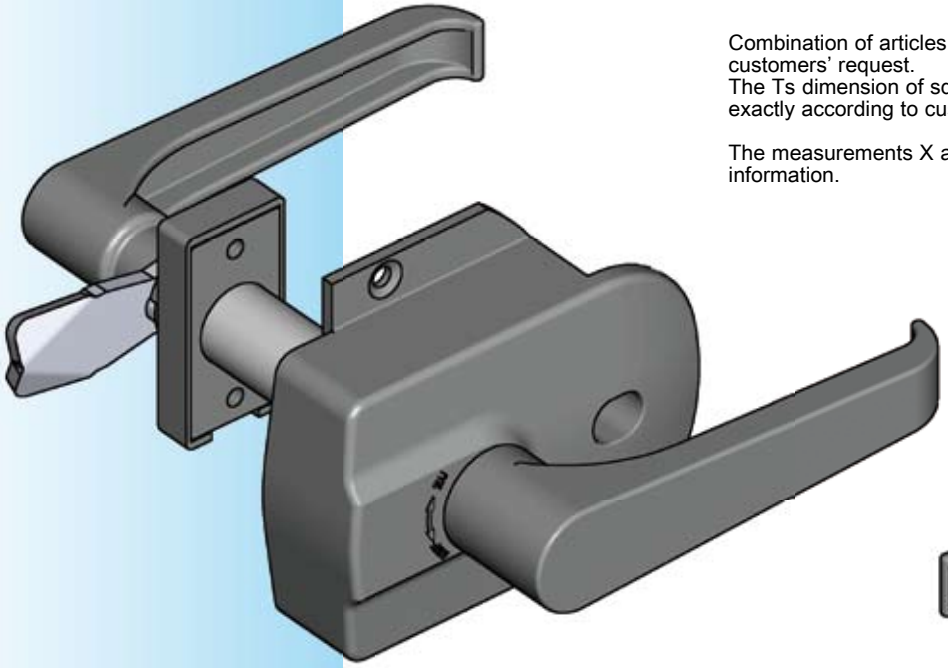
PROGRAM 1000

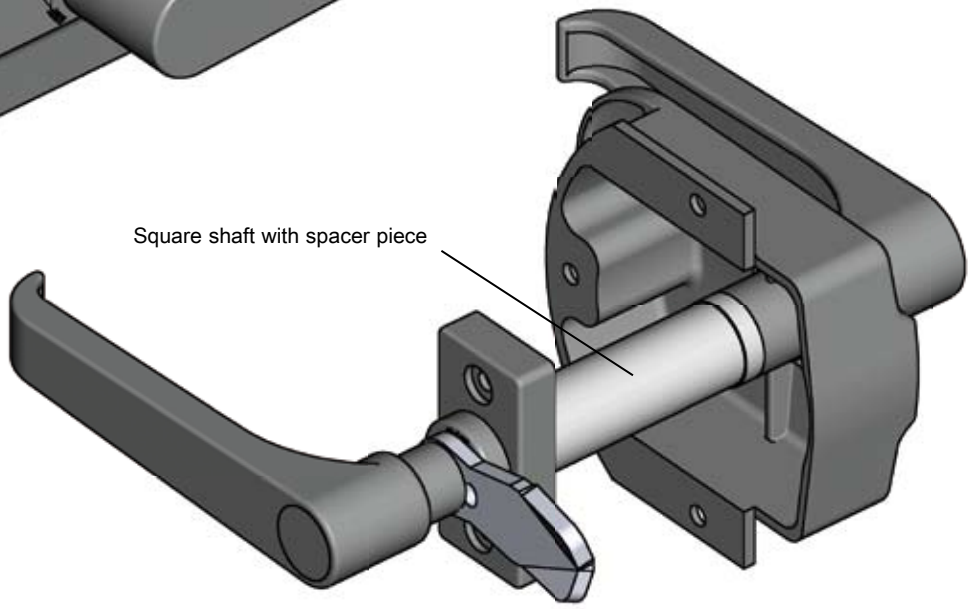
RL

Example

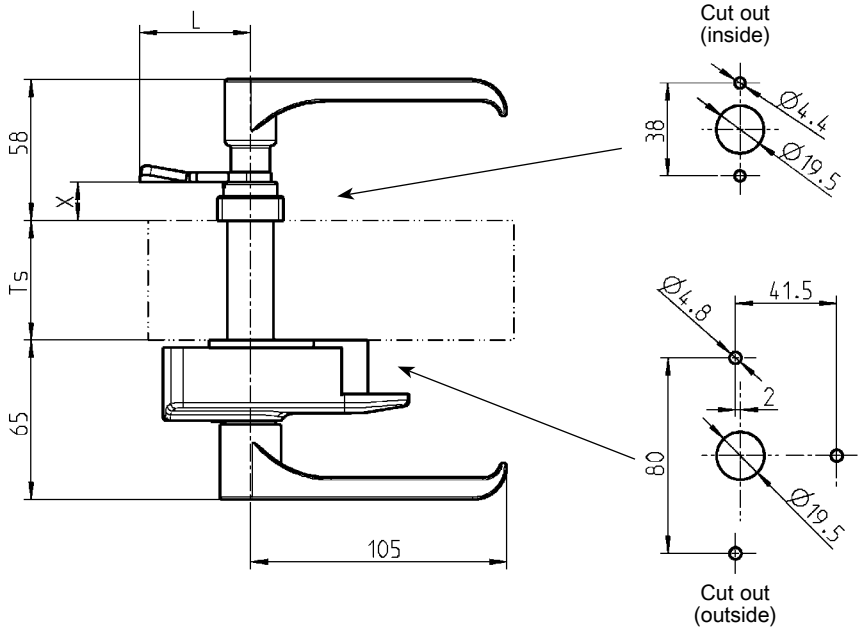
Combination of articles according to customers' request.
The Ts dimension of square shaft and spacer piece is defined exactly according to customers's request.

The measurements X and L are fixed according to customer information.





Attention:
Measurements Ts, X and L are specified according to customer information



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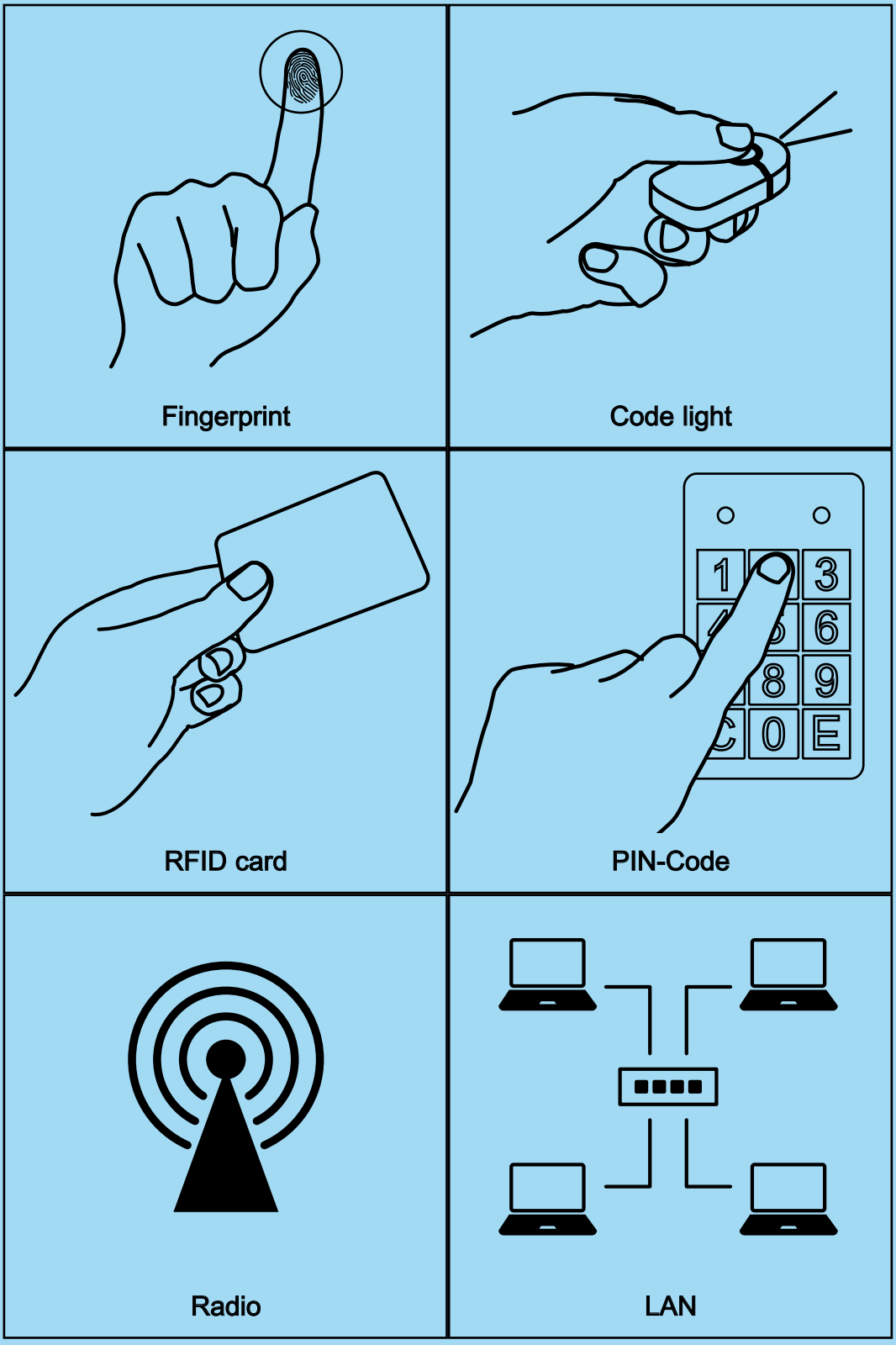
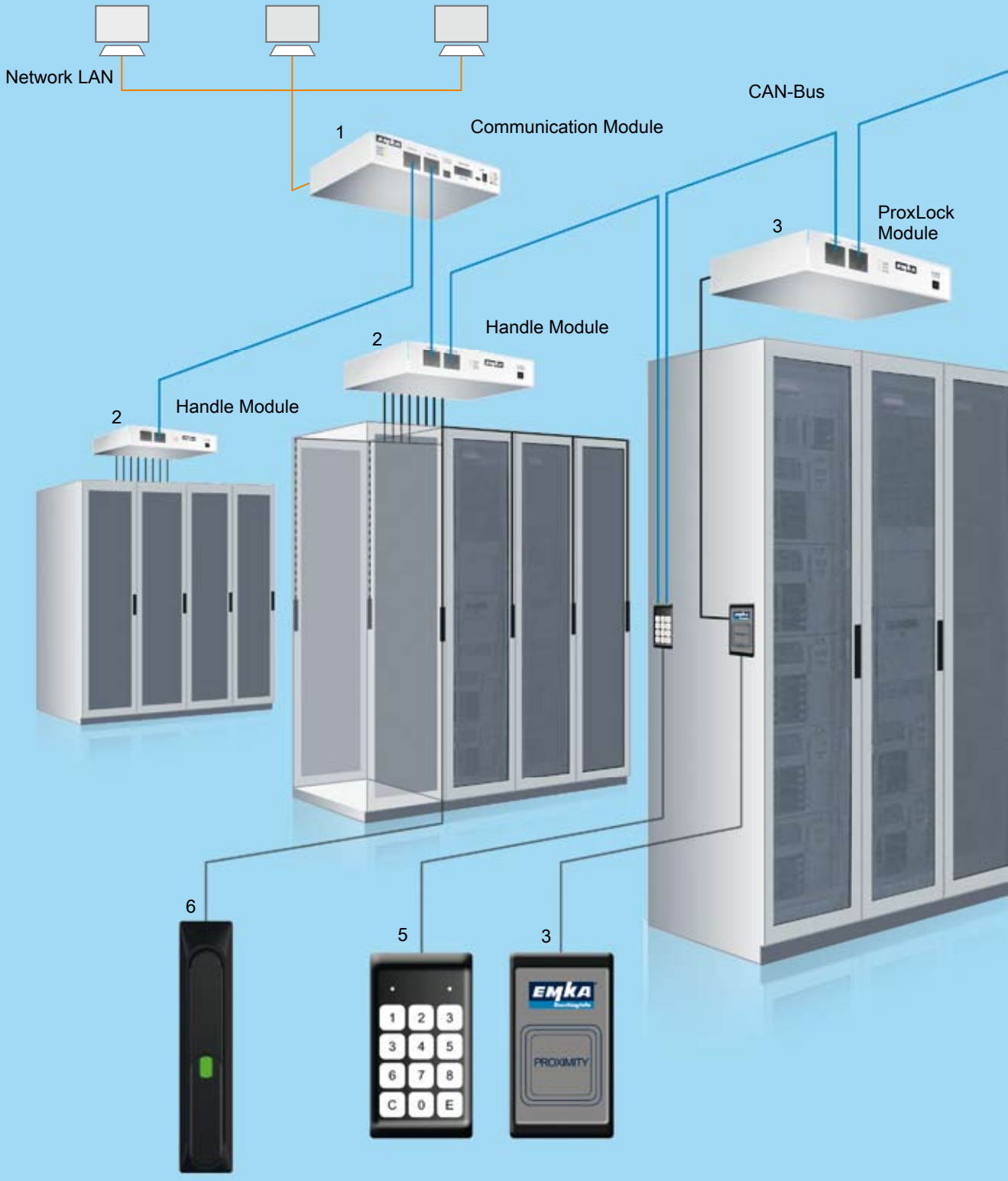
EMKA Electronics

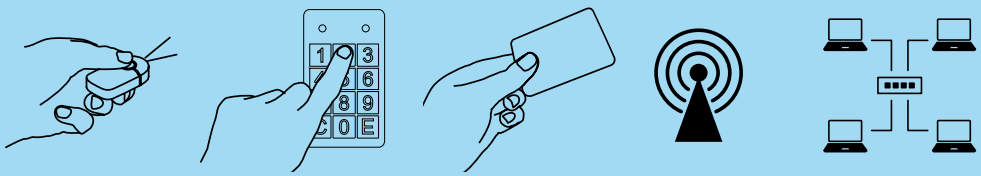
Electronic Locking Systems

Control technologies for secure access

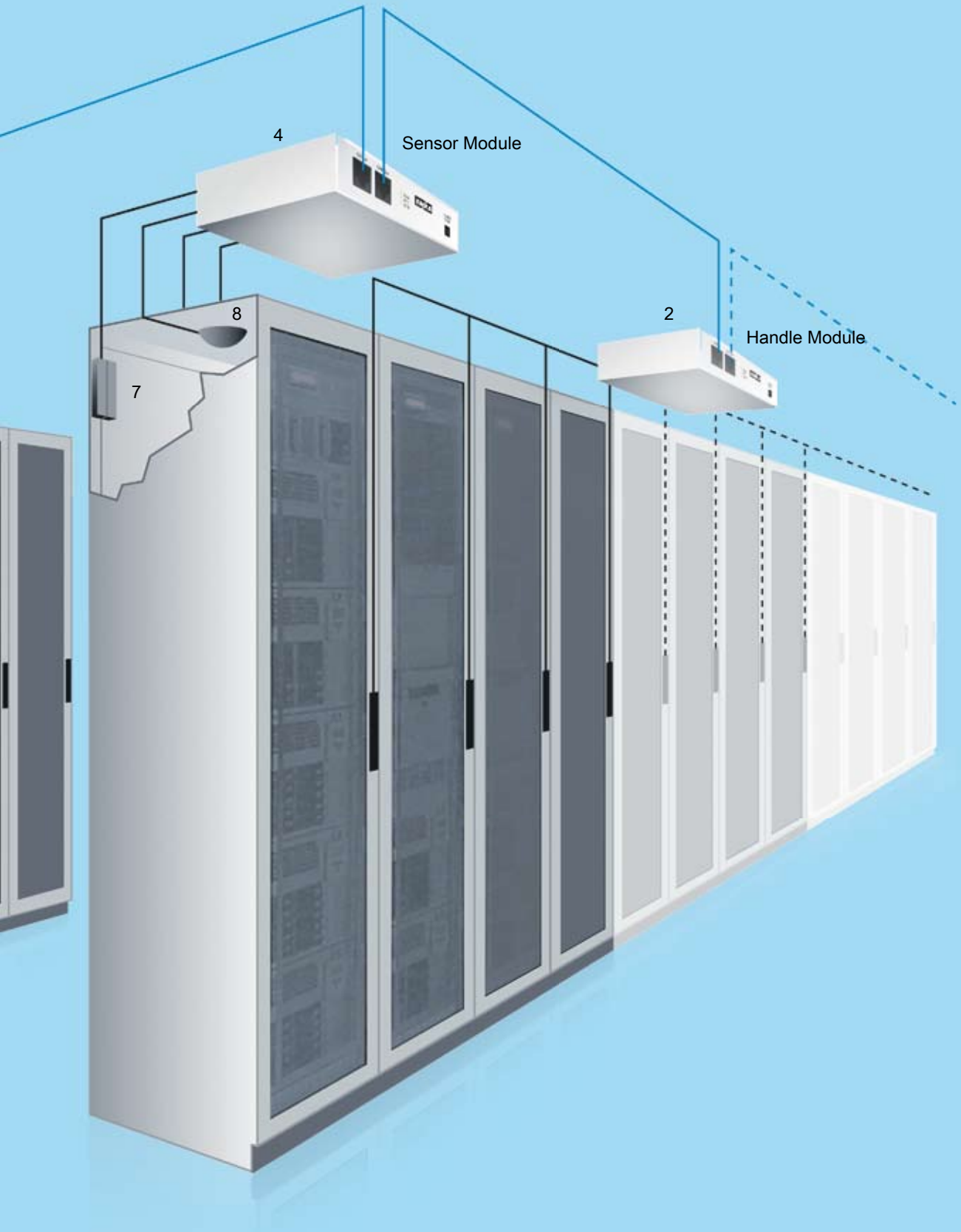


EMKA Electronics
Locking and Monitoring System





Program 3000: Network Solutions



1	Communication Module	11A-140
2	Handle Module	11A-160
3	ProxLock module with card reader	11A-180
4	Sensor Module	11A-140
5	Keypad Module	11A-200
6	Swinghandle 1150 electromechanical	11A-340
7	Temperature Sensor	11A-520
8	Smoke Sensor	11A-560

ELM System Overview

PROGRAM 3000

The requirements of modern IT infrastructure demand a maximum of physical security and have pushed the development of purely mechanical to mechatronical handle systems.

In the field of electronic opening and monitoring EMKA offers high-performance locking technology and sensors with its “Electronic Locking & Monitoring” (ELM) portfolio.

The product range is complemented by comprehensive hardware and software solutions making the convenient control of all elements and the analysis of recorded parameters up to complete rack management applications possible.

A wide range of electromechanical locking solutions are provided for server racks:
- Unlockable or spring-loaded handles with or without emergency opening
- Handles with integrated keypad
- Versions for single or multiple point latches
- Universal locks for any housing

All locks are fitted with a flotating status contact serving the purpose of signalling the handle status remotely. The control is simply effected by triggering a DC signal. When it is non-operating, no power is required.

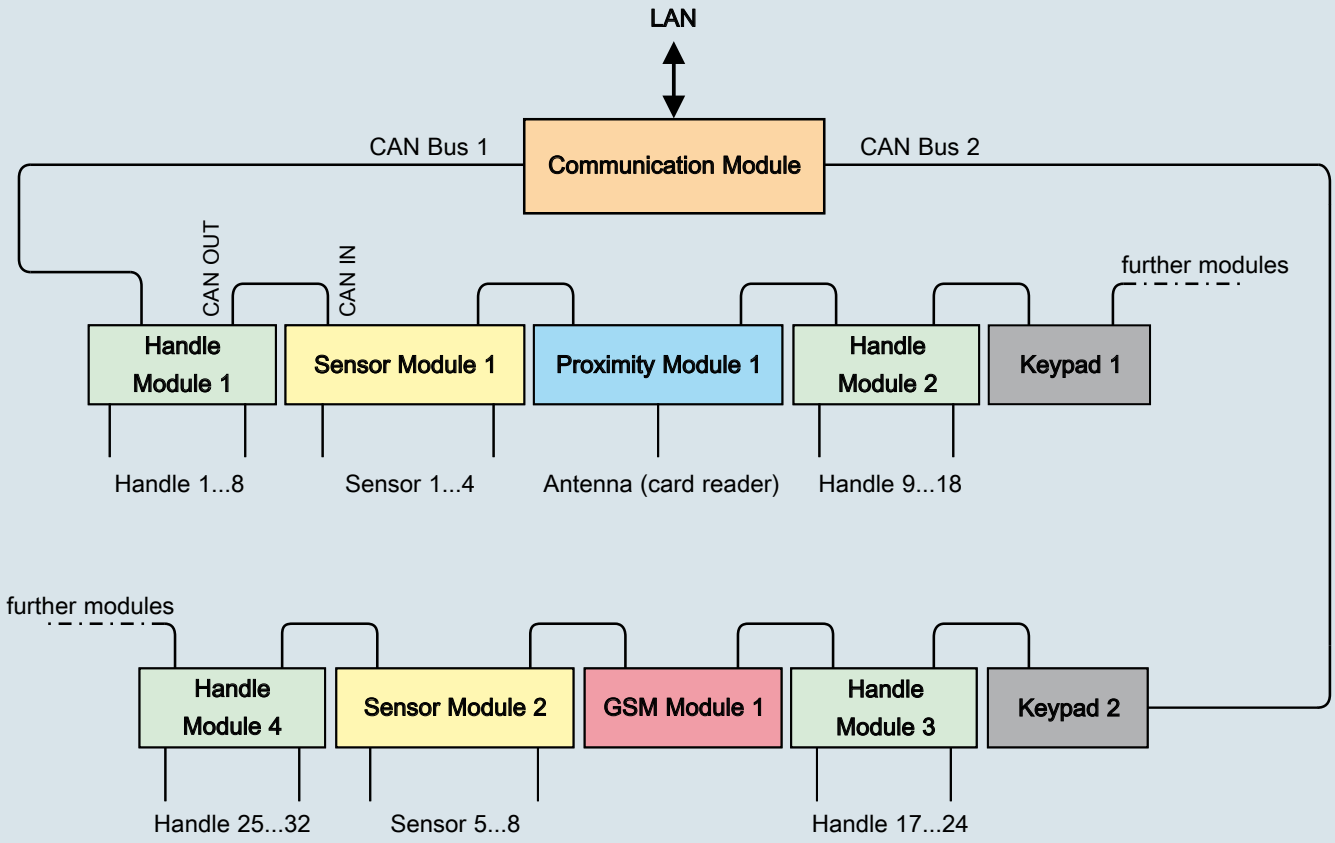
Various combinable components are provided for reliable access control:
- Keypad with PIN code
- Reader for different card systems (Legic©, HID)
- GSM unit for remote opening by mobile phone
- Remote control of opening command via software application

The combination of keypad with personal password and card reader makes a “two-factor authentication” possible for maximum security.

The secure monitoring of different operating states in the racks is effected by different sensors of the ELM product range. That way the detected values can be registered and processed:

- Temperature, humidity sensor for climate parameters
- Smoke detector and vandalism sensor for signalling immediate danger
- Sensors for electrical parameters (current, voltage, output) for measuring and optimising the power demand.
- Further analog sensors can be connected without any problem

ELM System - Modular Design



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ELM Components

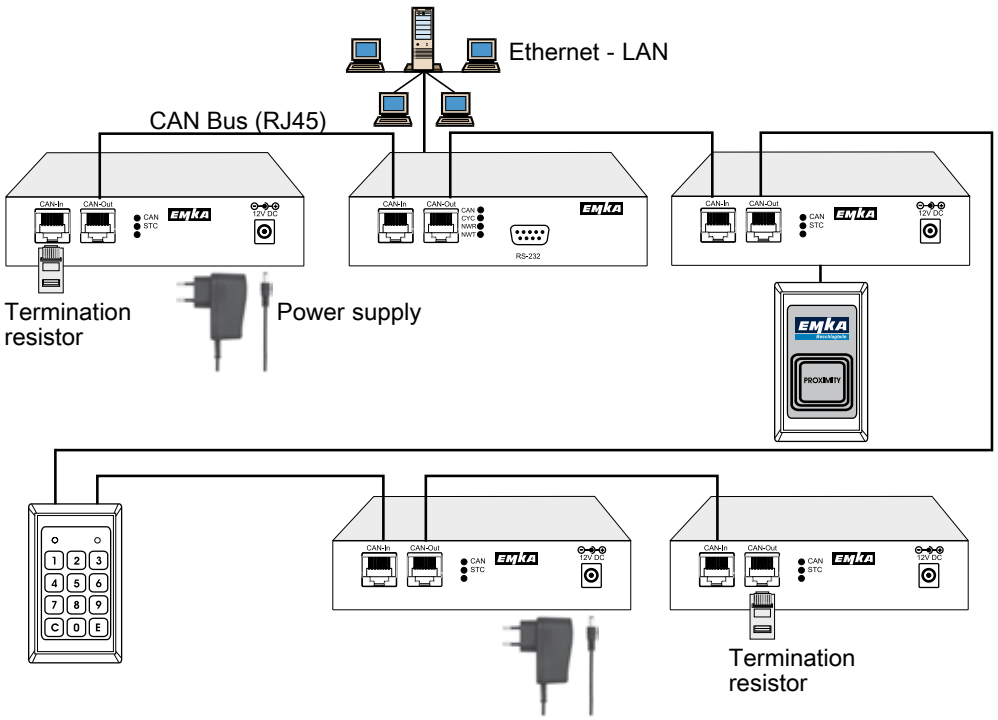
The ELM System consists of a central unit (“communication module”) as well as up to 100 connected function modules for handles and locks, sensors, card readers and keypads. Communication and function modules are delivered in a closed metal housing (box) in RAL-7035 with assembly bracket. A special type is the 19” plug-in unit 1HE RMS 490 containing one communication, handle, sensor and control module each in one compact housing.

The box provides the same plug system as the 19” plug-in unit for connecting the components. In this way the combination of both systems is possible without any difficulty.

Module port “CAN-bus”

The modules of the ELM system are interconnected by standard RJ45 patch cables (“straight through”) on the front. Via this connection cable both the signal transmission and the power supply are effected. This is why there needs to be a power supply unit on the first module of the chain. The connection is always effected from the port “CAN-out” of the first module to the port “CAN-in” of the next module.

On the first and last module a terminating resistor has to be installed in each case; open CAN bus ports are not permitted. 2 terminating resistors are included in the scope of supply of a communication module.



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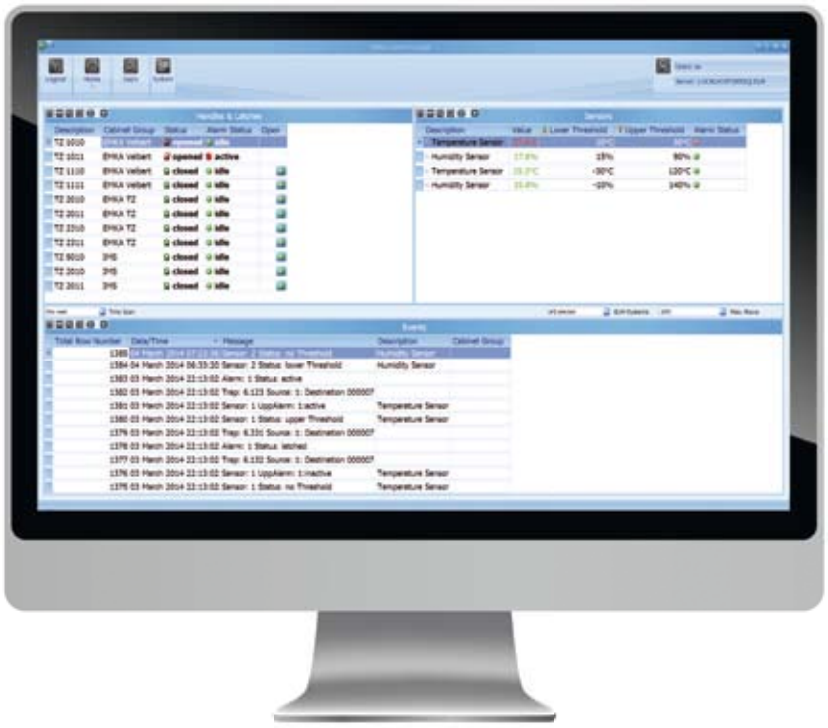
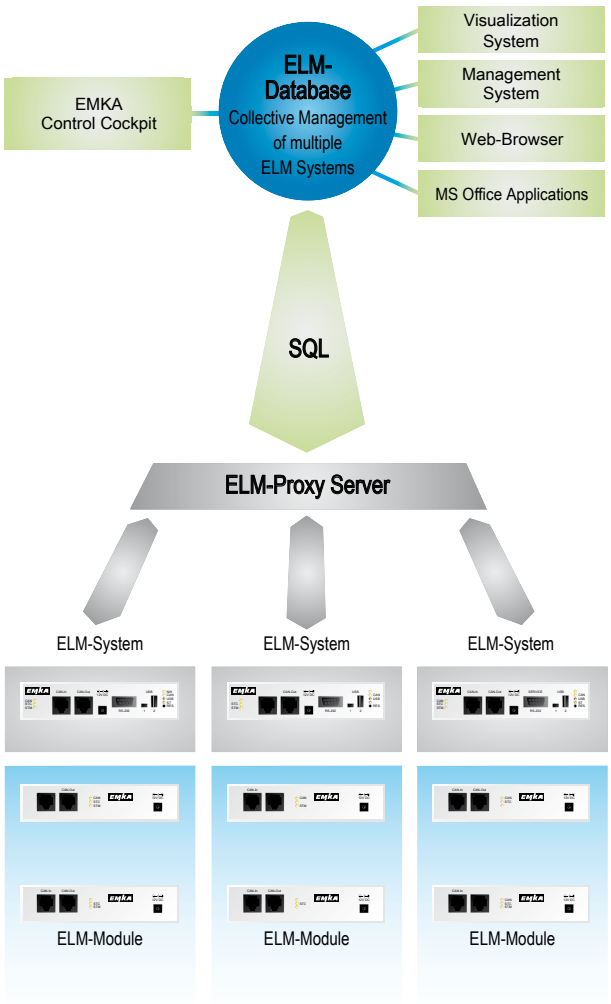
EMKA Control Cockpit

PROGRAM 3000





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Larger IT systems are often controlled by several different rack management systems. This may be necessary due to the large number of server cabinets or distribution to multiple locations.

Such systems are often linked to higher-level control or management systems. This covers central operation, control and configuration of critical importance.

Features

User Management
The EMKA Control cockpit allows easy addition of users and the allocation to user groups and the individual granting of privileges and personal pin code.

System Management
The EMKA Control Cockpit manages up to 50 ELM systems with connected components such as handles, sensors or card readers.
Some basic functions:
- the allocation of access rights for locks and the assignment to groups of cabinets
- the setting of limits for sensors and enabling alarms

Transponder cards can be read easily, provided with rights and assign to anywhere within the connected systems.

Configurable screens
The EMKA Control Cockpit offers the possibility to make the information on the screen individual. This way the user will only see the information in different windows, which they need for their work.

Real-time monitoring
The EMKA Control Cockpit offers extensive control and monitoring functions. Handles can be opened easily after entering a pin code. Alarm conditions of handles or sensors are represented by a change in colour. Extensive filtering functions ensure that only the most important information is displayed.

Measured value storage
In particular for determining the thermal load of a cabinet, the monitoring and recording of the temperature values is of great importance. The EMKA Control Cockpit provides data graphs of historical or current data in user-defined time windows as graphical form diagrams using the export function, these charts are easily printed or saved.

Logging and analysis
The EMKA Control Cockpit archives events from all connected systems into a common database. Extensive filtering and export functions allow the creation of custom reports.

remote access
Because the EMKA Control Cockpit is licensed as a server application in the communication component, the Control Cockpit software can even be installed in as many places and as a client has access to the central database. The data transmission taking place within the Network is encrypted.

Integration with third party systems
The open database structure allows for easy integration into higher-level systems with SQL interface.

EMKA Control Cockpit	
Basic package for 2 systems	3000-U68
Extension for 1 further system	3000-U68-101
Extension for 10 further systems	3000-U68-102
Extension for 20 further systems	3000-U68-103
Extension for 48 further systems	3000-U68-104

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Rack management systems

PROGRAM 3000

19” plug-in box RMS 490

The EMKA 19” plug-in box is to be considered as starter package and includes several function modules: a communication module as the centre piece of the rack management system, a handle module for the control of eight door locks, a sensor module for four sensors as well as an optional proximity module for access control via transponder cards and a GSM module.

To control the temperature, there are two continuous control outputs controlling the speed of fans or the output of the air conditioning unit according to different control strategies. The double-spaced display can be configured according to customer requirements. All components can be connected quickly by non-interchangeable plug connections.

With the CAN bus the functionality can be extended almost infinitely.

Power supply:	**85 ... 264 VAC, 47 ... 63 Hz**
Handle / lock inputs:	**8 (12 V, max 1 A)**
Sensor inputs:	**4 (with sensor feed)**
Relay outputs:	**4 (30 VDC, max. 1.0 A; 48 VAC, max. 0.5 A)**
Control outputs:	**2 (max. 10 VDC, 1 mA)**
Interfaces:	**serial RS 232C and USB interface (front)**
network interface:	**Ethernet, 100 Mbit, RJ45 (back)**
communication protocols:	**SNMP 1.0 and 2c, http**
CAN bus ports:	**3, for external modules**
Operating temperature:	**+5 ... +50° C**
Dimensions (L x B x H):	**210 x 481 x 43.5 (1 HE) mm**
Scope of supply:	**2 terminating resistors; power cord**

3000-U490

Communication module plus

This module serves as the central unit for ELM systems. Via the communication module all other modules of the ELM systems can be set up and operated. The configuration is effected via the network interface 100 Base-T Ethernet and the integrated web browser or via the USB interface on the front. The real-time clock and the additional memory permit the fail-safe and tamper-proof logging of all events in the system. The two collective alarm relays on the back can be used for alarm signalling.

The transmission protocol SNMP allows simple integration of the system into superordinated management systems.

Power supply:	**12 VDC, 350 mA**
Relay outputs:	**2 (30 VDC, max. 1.0 A; 48 VAC, max. 0.5 A)**
Interfaces:	**serial RS 232C and USB interface (front)**
network interface:	**Ethernet, 100 Mbit, RJ45 (back)**
Communication protocols:	**SNMP 1.0 and 2c, http**
CAN bus ports:	**2**
Operating temperature:	**+5 ... +45° C**
Dimensions (L x B x H):	**235 x 135 x 33 mm**
Scope of supply:	**2 terminating resistors; assembly bracket**

3000-U140-02

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Communication Module

This module serves as central unit for smaller ELM systems.
It has a serial RS 232 interface for configuration and a network interface 10 Base-T Ethernet for external communication.
With the communication module all other modules of the ELM System can be administered and operated in combination with the software ELMcontrol. The real-time clock and the additional memory permit a fail-safe and tamper-proof logging of all events in the system.

The two collective Alarm relays on the back can be used for Alarm signalling.
The transmission protocol SNMP allows simple integration of the system in superordinated management systems.

Note:
For initial installation a null modem cable 3000-U29 is required.

Power supply:	**12 VDC, 200 mA**
Relay outputs:	**2 (30 VDC, max. 1.0 A; 48 VAC, max. 0.5 A)**
Interfaces:	**serial RS 232C interface (front)**
network interface:	**Ethernet, 10 Mbit, RJ45 (back)**
Communication protocols:	**SNMP 1.0 and 2c**
CAN bus ports:	**2**
Operating temperature:	**+5 ... +45° C**
Dimensions (L x B x H):	**235 x 135 x 33 mm**
Scope of supply:	**2 terminating resistors, assembly bracket**

3000-U14-02

Sensor Module

This module is used for registering and analysing different measurements, such as temperature, humidity, smoke or electrical parameters. Up to 4 sensors can be connected to the analog inputs. Depending on measurements of the sensors, 4 alarm relay outputs can be operated (e. g. switching on or off of fans).
Each sensor can be programmed with different thresholds.

Power supply:	**12 VDC, 200 mA**
Sensor inputs:	**4 (with sensor feed)**
Relay outputs:	**4 (30 VDC, max. 1.0 A; 48 VAC, max. 0.5 A)**
CAN bus ports:	**2**
Operating temperature:	**+5 ... +45° C**
Dimensions (L x B x H):	**235 x 135 x 33 mm**
Scope of supply:	**Assembly bracket**

3000-U13-02

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Rack management systems

PROGRAM 3000

Handle Module for 8 Handles

This module can control up to 8 handles with solenoid 3000-U6-01 and import the 8 handle contacts for status information. Instead of the handles also a door contact 3000-U35-01 can be connected. The opening command for the respective handle is triggered by keypad, card or management software - EMKA Control Cockpit.

Via the exisitng inputs the states (open / closed) of locking systems, doors and side walls can be evaluated.

Power supply:	**12 VDC, 50 mA short-run 300 mA after opening procedure**
Handle outputs:	**8, min. 2.8 Ω. A pulse of 40 V, max. 15 A, for max. 30 ms duration opens the handle**
CAN bus ports:	**2**
Operating temperature:	**+5 ... +45° C**
Dimensions(L x B x H):	**235 x 135 x 33 mm**
Included in delivery:	**Assembly bracket**

3000-U11-02

Control unit for 8 unlockable handles and single-point latches

This module can control up to 8 single-latches or handles with component 3000-U150-01 or swing handles of the program 1150 and import 8 Status contacts.
It is possible to activate several locks simultaneously. In this case it is recommended to connect a power supply unit for each control module.
The opening signal for the respective lock is triggered by keypad, card or management software - EMKA Control Cockpit.

With the existing inputs the states (open / closed) of locking systems, doors, side walls can be evaluated.
To supply locking systems with 24 V operating voltage, a suitable power supply unit can be connected at the input “ext. DC” on the front.

Power supply:	**12 VDC, 140 mA + outputs**
Handle outputs:	**8, max. 12 V / 1000 mA, or max. 24 V / 500 mA per output**
Maximum current:	**2000 mA**
CAN bus ports:	**2**
Operating temperature:	**+5 ... +45° C**
Dimensions (L x B x H):	**235 x 135 x 33 mm**
Included in delivery:	**Assembly bracket**

3000-U32-02

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ProxLock module for 2 handles and/or card reader

This module serves as direct connection of 2 swing handles of the series Agent E RFID Network. With the terminal block on the back the central LED in the handle can be controlled.
Alternatively, 2 electromechanical locks, e.g. 1150-U56, 1154-U06-03 and 2 external card readers 3000-U45-01 or an antenna type Legic® can be connected.

The opening of one or several locks is effected by holding an authorised transponder card before the reader or by selecting a lock using the keypad 3000-U08-01.

Power supply:	**12 ... 30 VDC, 200 mA + outputs**
Handle outputs:	**2 (RJ45), max. 12 V / 1000 mA, or max. 24 V / 500 mA per output**
Ports for card reader:	**2 (RJ45), HID**
Relay outputs:	**2 (max. 10 VDC, 1 mA)**
CAN bus ports:	**2**
Operating temperature:	**+5 ... +45° C**
Dimensions (L x B x H):	**100 x 135 x 33 mm**
Scope of supply:	**Assembly bracket**

ProxLock module HID for mounting in RMS 490	3000-U47-01
ProxLock module HID in metal housing	3000-U47-02

Note:
The handle outputs are not available in case of the versions for mounting in RMS 490.

Power supply:	**12 ... 30 VDC, 200 mA + outputs**
Handle outputs:	**2 (RJ45), max. 12 V / 1.000 mA, or max. 24 V / 500 mA per output**
Port for card reader:	**1 (round connector) Legic®**
CAN bus ports:	**2**
Operating temperature:	**+5 ... +45° C**
Dimensions (L x B x H):	**100 x 135 x 33 mm**
Scope of supply:	**Reading antenna with two transponder cards; assembly bracket**

ProxLock Modul Legic® for mounting in RMS 490	3000-U47-07
ProxLock Modul Legic® in metal housing	3000-U47-08

Card reader HID for wall / door mounting

The card reader HID is connected to the ProxLock module 3000-U47-01 or 3000-U47-02 of the ELM system as external reader and can read various contactless cards on the basis of HID and other card technologies.

The reader has connecting terminals and is connected with the ProxLock module using a 4-core cable. The maximum cable length between module and reader is 10 m.

Power supply:	**5 ... 16 VDC, 45 mA, 75 mA during reading**
Port	**Screw terminals**
Operating temperature:	**+5 ... +45° C**
Dimensions (L x B x H):	**235 x 135 x 33 mm**
Scope of supply:	**Fixing frame for wall or door mounting**

	3000-U45-01

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Rack management systems

PROGRAM 3000

GSM module

The GSM module is used to open handles and locks remotely in combination with the handle modules as well as to transmit status information by text message.
You can dial into the module with any telephone. After establishing the connection and the acknowledgement signal, handle number and PIN code can be entered using the telephone keypad. If everything is entered correctly, the lock will open.

If certain events occur, such as:
- handle open
- handle open too long
- Threshold violations of sensors

predefined participants can be notified by text message.
The operability of the GSM module requires an available network and a valid mini SIM card.

Power supply:	**12 VDC, 300 mA with GSM modem**
CAN bus ports:	**2**
Operating temperature:	**+5 ... +45° C**
Dimensions (L x B x H):	**235 x 135 x 33 mm**
Scope of supply:	**Assembly bracket; quadband modem with magnetic base antenna; connection cable 30 cm RJ4**

GSM module for Installation in RMS 490	3000-U10-01
GSM module in metal housing	3000-U10-02

keypad

The keypad is used to open selected locks locally in combination with the handle modules by entering the assigned PIN code. In combination with the ProxLock module the keypad is only used to enter the lock number while the transponder card contains the authentication.

Power supply:	**12 VDC, 50 mA**
CAN bus ports:	**2**
Operating temperature:	**+5 ... +45° C**
Dimensions (L x B x H):	**113 x 64 x 12 mm**
Scope of supply:	**Connection cable 3 m RJ11**

	3000-U08-01

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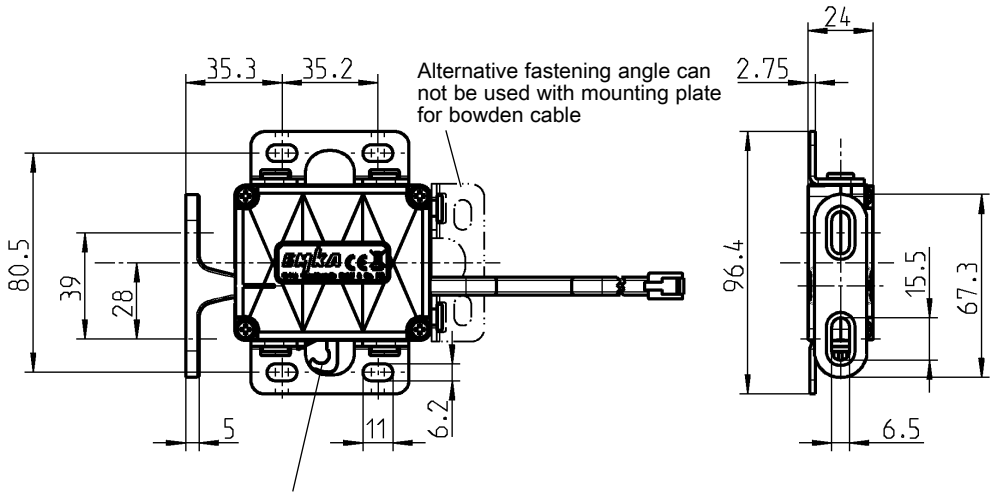
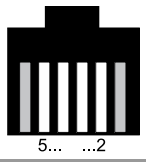
Single point latch with integrated status contact

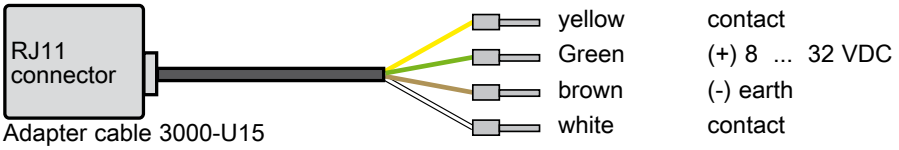
The single-Point latch can be used for special fields of application.

The single-point latch is designed for the connection to the control modules 3000-U32-0X and 3000-U47-02 or 3000-U47-07.

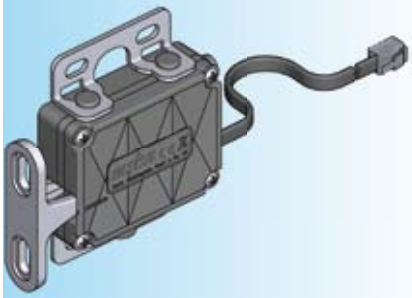


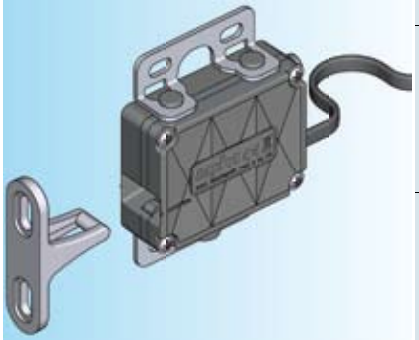
Connection notes

RJ11 plug front view	Pin number on plug	Signal	Colour
 5... ...2	2	Contact	black
	3	(-)	red
	4	(+)	Green
	5	contact	yellow



Adapter cable 3000-U15





Single-point latch with integrated lock contact, housing polyamide 66+PA6i GF 40 V0 black; catch and pawl m.s. lubricant varnish coated; lock holder AISI 316; gear motor; electronics; cable with RJ11 connector 150 mm; fixing bracket m.s. zinc plated; screws m.s. zinc plated; with springs; with mounting and operating instructions	
Power supply:	**9 ... 32 VDC, 300 mA with GSM modem**
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
Adapter cable 100 mm with RJ 11 connector and	
open cable Ends for modules type KIT	3000-U15
Plug for modules of type Box and 19“ rack mount unit	3000-U15-01

On request:
– Fitting panel for Bowden cable
– Bowden cable

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Electronic Locking System

PROGRAM 3000

Lock system component with reed contact

The lock system components have an integrated reed contact and are designed for the fitting in spring-loaded handle systems with permanent magnet.

The reed contact signals the handle status - open or closed.

These components are designed for the Fitting in the following swing handle programs:

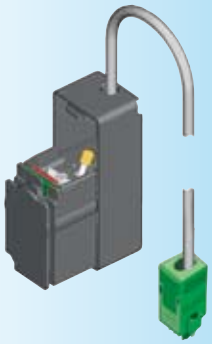
Program 1150 Program 1180 Program 2100

This component can be activated via a handle module 3000-U32-XX or any DC control signal in the range of 9 ... 32 VDC.

The control signal has to applied for min. 5 seconds to ensure correct functioning of the component.

Notes regarding connection and adapter cable see page 11A-220

Lock system component with reed contact PC+ABS-FR(40) black; cam plate POM black; gear motor; electronics: cable with RJ11 connector 4 m; fixing material m.s. zinc plated	
	3000-U150-01



This component is activated via a handle module 3000-U11-XX.

Lock system component with reed contact PC+ABS-FR(40) black; solenoid; electronics; fixing material m.s. zinc plated	
Control:	**via handle module 3000-U11-XX**
Switching power contact:	**max. 48 VDC, 0.5 A**
Scope of supply	**Connection cable 3 m**
Connection cable with open cable ends for modular system kit	3000-U06
Connection cable with plug for modular system box and 19” plug-in boxes	3000-U06-01

Further parts see page

Program 1150
– Swinghandle 1151 3C-420
3C-440

Program 1180
– Swinghandle 3E-120
up to 3E-520

Program 2100
– Swinghandle 3H-320

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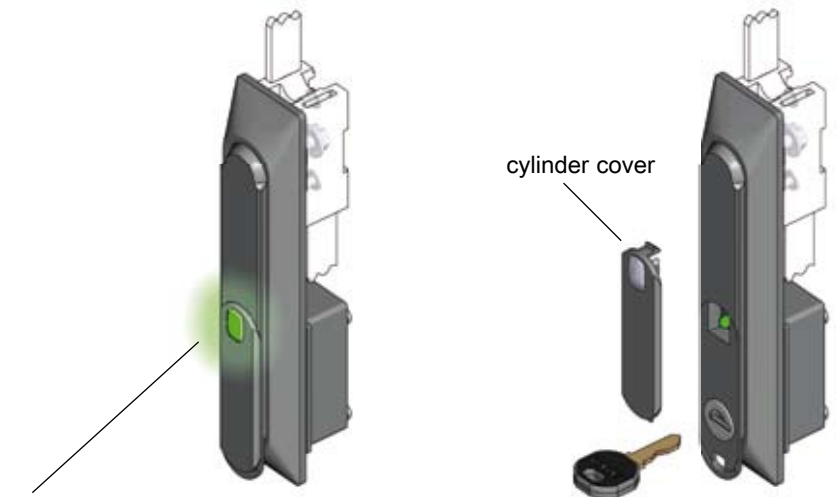
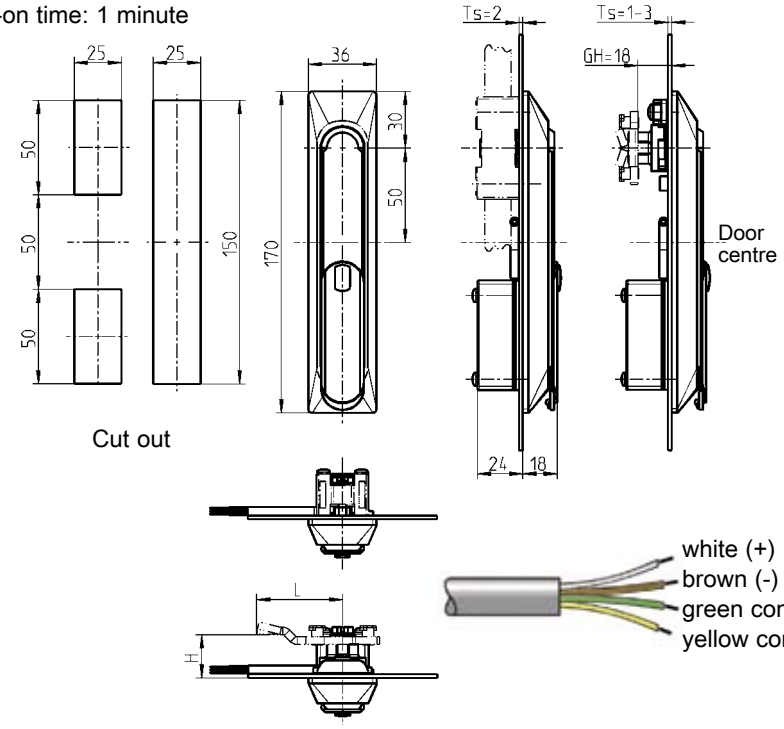
Swinghandle 1150 with electromechanical release and emergency opening

PROGRAM 1150

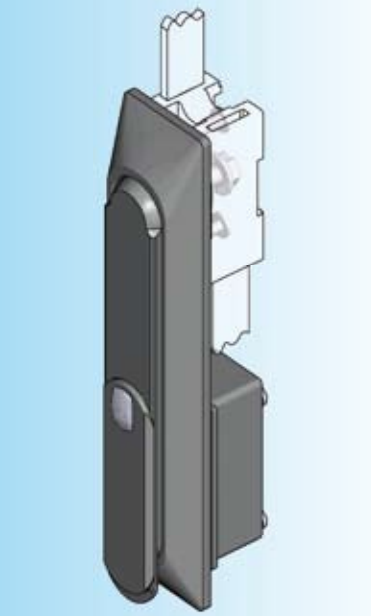
This handle is suitable for locking of indoor cabinets. It is released by applying a voltage signal of 12 V or 24 V DC. After the handle has been pressed briefly into the dish, it can be opened. The integrated reed contact indicates the handle status. To lock the handle it must be pressed into the dish until the closing mechanism engages. The key provided is used to open the handle in case of power failure. For this the cover over the locking cylinder must be removed. The cover will be destroyed thereby and must be placed.

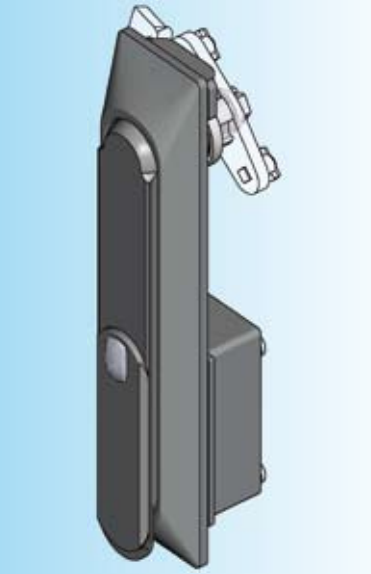


During release of handle the LED is illuminated
max. power-on time: 1 minute



Cut out





Swinghandle zinc die black powder coated, cap and sliding dust cap polyamide GF black, shaft AISI 303, round cylinder with stainless steel cap and shutter, solenoid with electronics, reed contact and LED, cable (4 m), fixing material m.s. zinc plated Each round cylinder has one silver steel key with polyamide grip GF black. switching power contact: 48 VDC, 0.5 A		
	keyed EK 333	**keyed different**
Solenoid 12 V, for rod control	1150-U56	1150-U56-V
Solenoid 24 V, for rod control	1150-U56-01	1150-U56-01V
Solenoid 12 V, for cam	1150-U58	1150-U58-V
Solenoid 24 V, for cam	1150-U58-01	1150-U58-01V
Cylinder cover polyamide GF black (spare part)		
		1150-B33

Note:
The handle can be connected to the modules 3000-U32-02 and 3000-U47-02 or 3000-U47-07.

Further parts see page
– Cams (GH = 18) 3YC-120
– Rod control 3YA-120
3YA-140
– Spare key 12B-140

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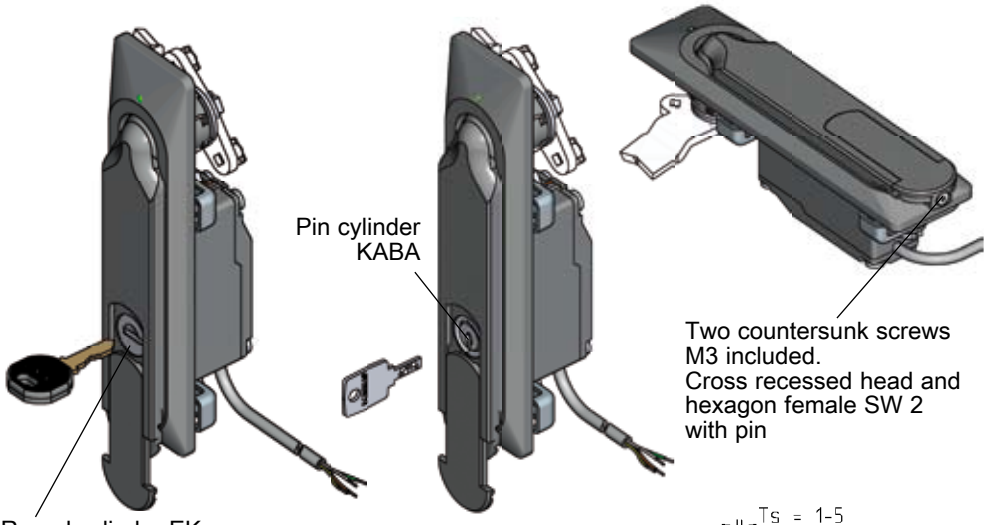
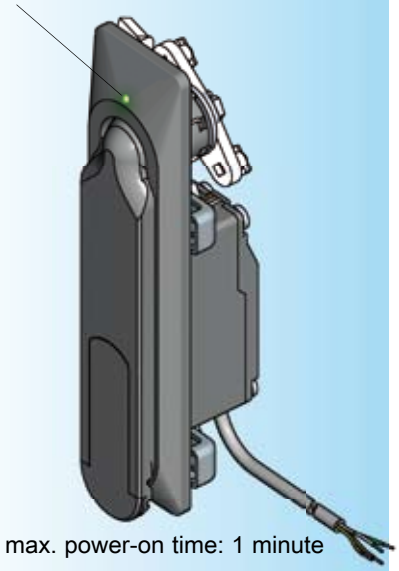
®Swinghandle 1154 with electromechanical release and emergency opening

PROGRAM 1150

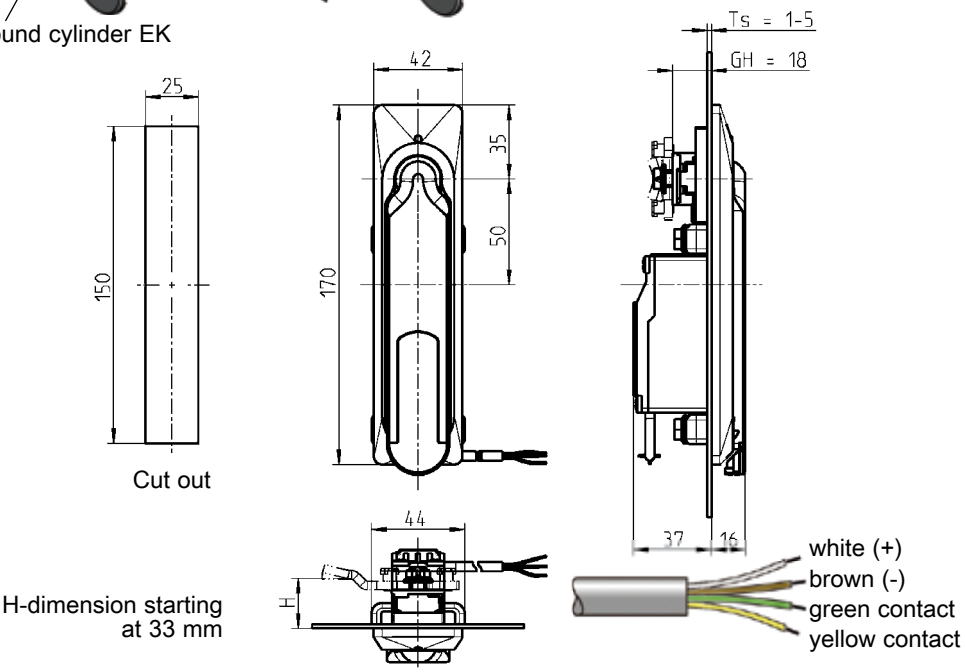
This handle is suitable for locking outdoor cabinets. By applying a 12 V, 24 V or 48 V DC Signal, the handle can be released. After pushing the handle briefly into the dish, it can be opened.
The integrated reed contact serves as remote control of the handle Status. For locking the handle has to be pushed into the dish until the lock mechanism latches. The supplied key is used for opening the handle in case of power failure. To open the cylinder cover the screw M§ has to be removed. Then it is possible to unlock by means of round / pin cylinder.

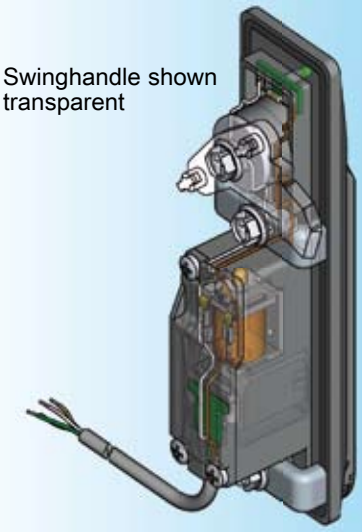


During release of handle the LED is illuminated.



max. power-on time: 1 minute





Swinghandle shown transparent

Swinghandle zinc die black powder coated, cap and dust cap polyamide GF black, shaft zinc die zinc plated, holder AISI 304, round cylinder EK with stainless steel cap and shutter, brass pin, solenoid with electronics, reed contact and LED, cable (4 m), screw M3 for cylinder cover AISI 304, fixing material m.s. zinc plated, with seal.
Each cylinder EK with one key silver steel with grip polyamide GF black
switching power contact: 48 VDC, 0.5 A

	keyed EK 333	keyed different
Round cylinder EK; 48 V	1154-U6	1154-U6-V
Round cylinder EK; 24 V	1154-U6-02	1154-U6-02V
Round cylinder EK; 12 V	1154-U6-03	1154-U6-03V
	keyed EH6993	**keyed different**
Pin cylinder KABA Micron Plus ; 48 V	1154-U6-01	1154-U6-01V
Pin cylinder KABA Micron Plus ; 24 V	1154-U6-04	1154-U6-04V
Pin cylinder KABA Micron Plus ; 12 V	1154-U6-05	1154-U6-05V

Further parts see page
– Cam (stroke 26)
H dim. from 33 mm 3YC-120
– Rod on request
– Spare key
EK 12B-140
KABA on request

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Swing handle with integrated keypad

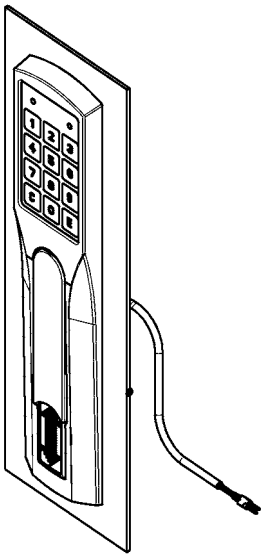
PROGRAM 3000

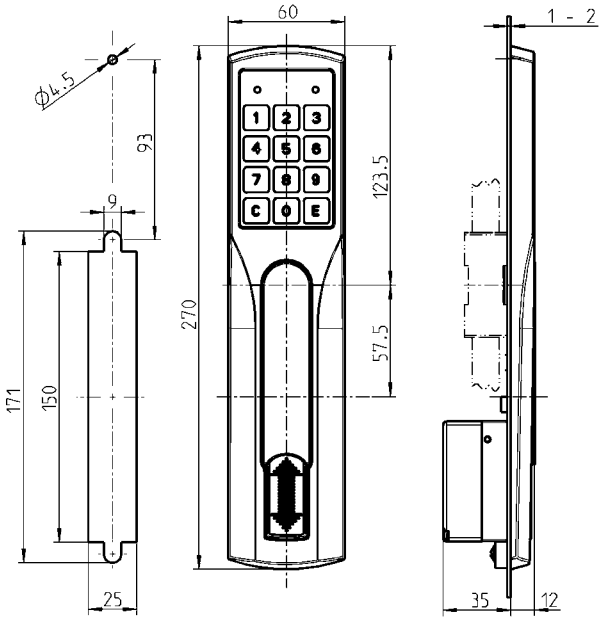
The swinghandle is a spring loaded handle with a built-in keypad module 3000-U8-0X, which is completely integrated into a dish.
A locking system unit 3000-U6-0X is also integrated.

The keypad unit allows the selection of doors within the system, and the input of the access code of the selected door.
By an electrical pulse, the integrated locking unit releases the handle from the escutcheon so that it can be turned to open the door.
The integrated reed contact indicates the handle status (open/closed) to the connected modules for further processing.

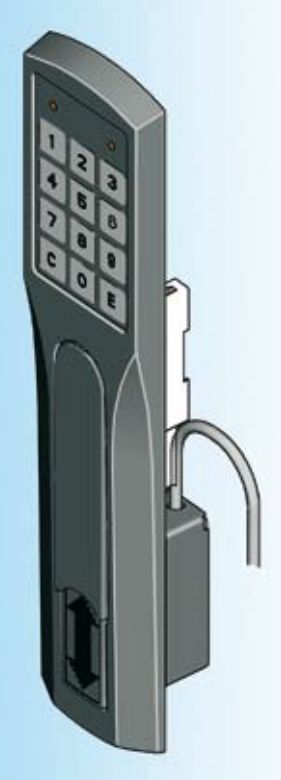
Thanks to the integration in the bus system the access codes can be assigned and altered conveniently. The keypad can operate all locksin the system.

The access code system allows grouping of handles with different access permissions which can be subdivided hierarchically. Master key systems and group key systems can be developed this way.





Cut out



Note:
Instead of the keypad the antenna of the ProxLock module can also be used (on request).

Swing handle polyamide GF black; handle and shaft zinc die black powder coated; soleonoid with electronics; reed contact and LED, connection cable 4 m; fixing material m.s. zinc plated	
Control:	**via handle module 3000-U11-XX**
switching power contact:	**max. 48 VDC, 0.5 A**
Scope of supply	**Connection cable 4 m**
Connection cable with open cable ends for modular system kit	2100-U158-00
Connection cable with plug for modular system box and 19” plug-in boxes	2100-U158-01

Further parts see page
Rod control 3YA-520
3YA-540

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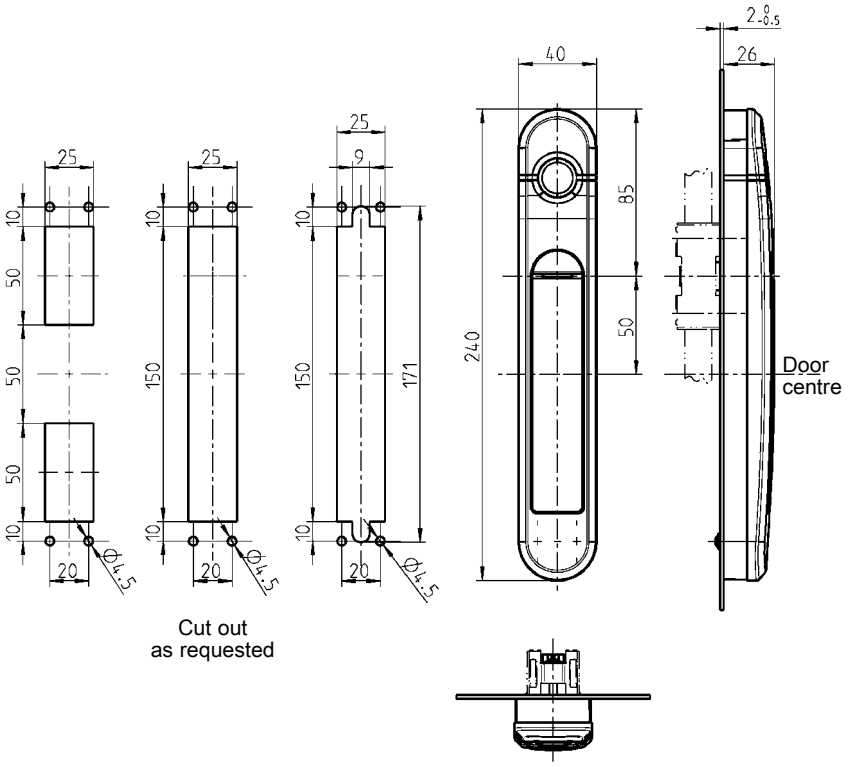
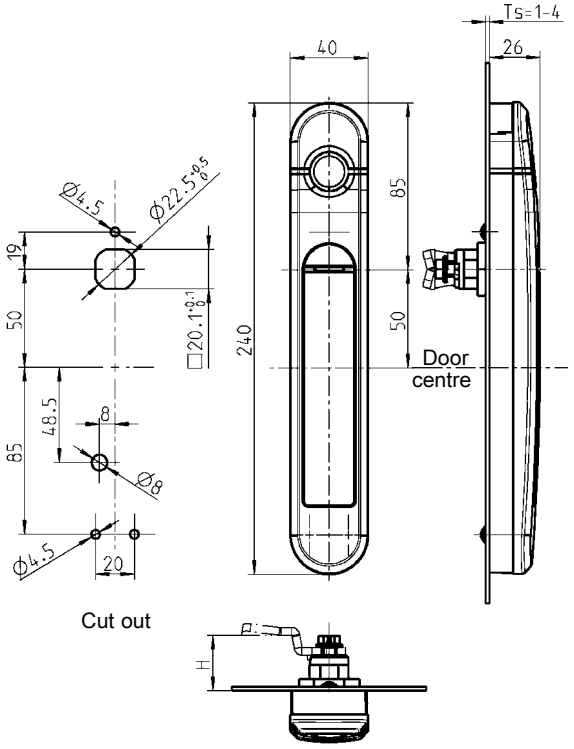
Swinghandle AGENT E with electromechanical release

PROGRAMM 3000

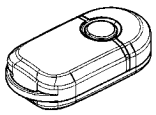
Swinghandle for rod control or bearing bush

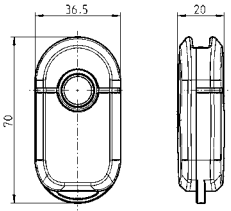


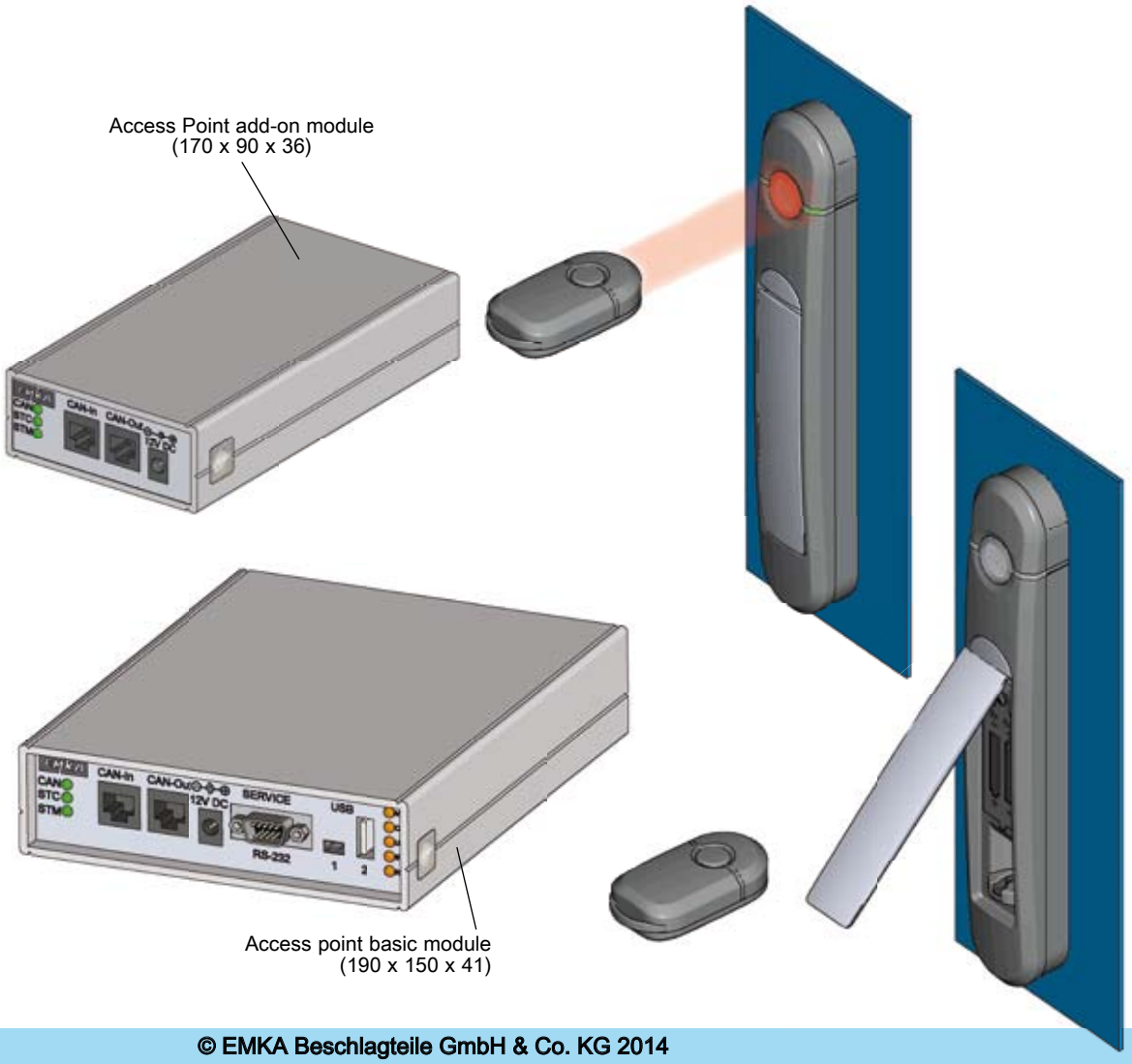
Swing handles with quarter turn for cam



TAG (hand-held transmitter)







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Basic
This version consists of a combination of electronic swing handles AGENT E and TAGs (hand-held transmitters). The opening of the AGENT E is effected by a TAG type User. Only authorised User TAGs can open swing handles. The button on the TAG switches the light-emitting diodes on. The light beam has to be aimed at the photocell of the swing handle. The light of the diodes is multi-modulated; each TAG has its own identification. In addition, there are Master TAGs (to be recognised by the red button), with which access authorisation for specific User TAGs can be set on a swing handle.

Professional
Even more convenience is provided by the version “Professional”. Using software it allows the easy configuation of locking plans and time profiles via the installed USB interface and the integrated event log can be read out. The Master TAG can take over the function of a hardware dongle here. Before the communication to the handle can be established, the latter has to be released by a specific Master TAG.

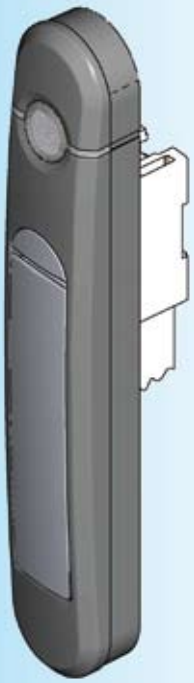
Superior
With the version “Superior” all processes can be administered centrally in combination with an Access-Point.
It is possible to configure, read out and open swing handles remotely.

Overview of systems

System Basic
– simple programming of the TAG (hand-held transmitter) directly on the respective swing handle
– max. 32 User TAGs and up to 5 Master TAGs per swing handle
– in case of power failure, emergency power supply is possible via the USB interface
– no software required

System Professional (additional features to the System Basic)
– configurable via USB using the freeware AGENT E Management Suite: create and change locking plans, time profiles; read out the event log
– logging of the last 2000 entries: who, when, which handle
– Master TAG is used to protect the USB Interface against unauthorized use

System Superior (additional features to the System Professional)
– handles can be configured, monitored and opened remotely
– interconnection to the handles is via radio transmission and system-specific access point
– Logging of the last 5000 entries: who, when, which handle
– Master TAG is used for emergency opening in case of radio system failure



Swinghandle polyamide GF black, handle and shaft zinc die white aluminium powder coated, locking latch brass and POM black, light guide transparent polycarbonate, spring, fixing material m.s. zinc plated, gear motor, electronics, 2 batteries, instructions		
Version for countries of European Union, Norway and Switzerland	**for rod control or bearing bush**	**with quarter turn for cams**
System Basic	3000-U92	3000-U93
System Professional	3000-U92-01	3000-U93-01
System Superior	3000-U92-02	3000-U93-02
TAG (Micro transmitter) polyamide black, screws m.s. zinc plated, electronics, battery		
User TAG with push button black		3000-U90
Master TAG with push button red		3000-U91
Adapter set for bearing bush, adapter plates polyamide GF black, adapter cast steel zinc plated; fixing material m.s. zinc plated		
for Ts 1.0 - 3.0		3000-U104-01
Door contact with connection cable 2 m; technical data see 3000-U35-XX		
		3000-U35-03
USB adapter cable		
USB Standard-A on USB Micro-B		3000-U102
Access-Point, version for all EU countries incl. Switzerland and Norway		
Access-Point basic module		3000-U99-01
Access-Point add-on module		3000-U98-01

Note:
The system Superior must not be operated outside the EU, Switzerland and Norway.

Further articles see page
– Rod control 3YA-120, 3YA-140
– Bearing bush 3YB-120
– Cam (GH=18) 1C-120

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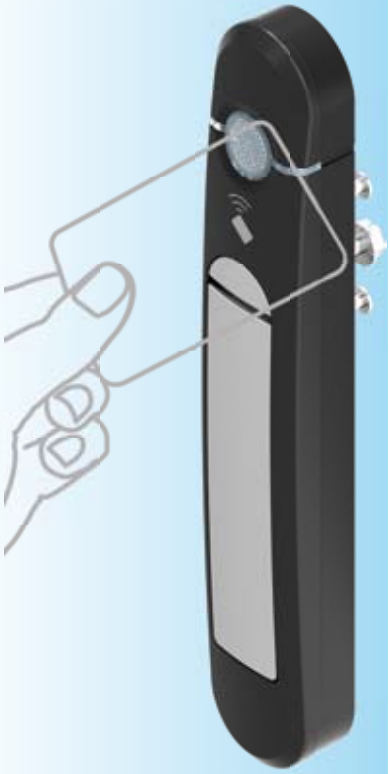
®Swing handle AGENT E with RFID card reader

PROGRAM 3000

RL

IP 42

ELM



Note:
Opening the handle in case of an emergency is possible by a password protected function in the software via the USB interface.

Further parts see page

– Rod control	3YA-120 3YA-140
– Bearing bush	3YB-120
– Cam (GH=18)	1C-120

AGENT E RFID stand alone
This version consists of a battery-operated AGENT E handle with integrated card reader for 125 kHz or 13.56 MHz Transponder Cards. By holding an authenticated card in front of the reader the swing handle unlocks.
Via the integrated USB interface, in combination with the software AGENT E Management Suite, cards can be programmed, deleted, time profiles created or the integrated memories read out.
This handle does not require any external cables to work.

AGENT E RFID Network
This version consists of one AGENT E handle with integrated card reader for 125 kHz or 13.56 MHz transponder cards. The handle is connected to the ProxLock module 3000-U47-01 and is controlled and administered via a communication module of the ELM System.
After holding a card in front of the device, its authorisation is checked by the communication module. If authorised, the handle is released by the ProxLock module for a defined time period; the left LED is lit green.
During this time the handle can be opened by touching the sensor field below the LEDs.
New transponder cards can be directly programmed on the handle.
Via contact inputs on the ProxLock module the LED in the middle of the lock can be controlled to signal possible malfunctions in the cabinets, such as increased temperature.
This LED can signal 3 different states by different colours.

AGENT E network slave
This version consisits of an AGENT E handle for connecting with the ProxLock module 3000-U47-01. By means of a keypad or an external card reader, the handle, in combination with a communication module of the ELM System, can be controlled and administered.
With the respective authorisation the handle is released by the ProxLock module for a defined time period; the left LED is lit green.
During this period of time the handle can be opened by touching the sensor field below the LEDs.
In combination with an AGENT E RFID network both handles can be released simultaneously.
Via contact inputs on the ProxLock module, the LED in the middle of the handle can be controlled to signal possible malfunctions in the cabinet, such as increased temperature. This LED can signal 3 different states in different colours.

Swing handle polyamide GF black; handle and shaft zinc die white aluminium powder coated; lock brass and POM GF black; spring, fixing material m.s. zinc plated; gear motor, electronics,; 2 batteries; instructions		
Version	**for rod control or bearing bush**	**with quarter turn for cams**
Stand alone 125 kHz	3000-U900-11	3000-U900-12
Stand alone 13.56 MHz	3000-U900-21	3000-U900-22
Network 125 kHz	3000-U900-31	3000-U900-32
Network 13.56 MHz	3000-U900-41	3000-U900-42
Network slave	3000-U900-51	3000-U900-52
Transponder cards		
125 kHz		3000-87
13.56 MHz		3000-88
Door contact with connection cable 2 m; technical data see 3000-U35-XX		
		3000-U35-03
Adapter set for bearing bush, adapter plate polyamid black, adapter steel precision zinc plated, fixing material m.s. zinc plated		
for Ts 1.0 - 3.0		3000-U104-01
USB adapter cable		
USB standard-A to USB micro-B		3000-U102

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Climatic sensor - temperature and humidity

The analog climate sensor measures both humidity and temperature of the environment. The sensor is connected to the sensor module 3000-U13-0X.

Operating voltage:	**7.5 ... 27 VDC (supplied by the ELM System)**
Current consumption:	**ca. 0.8 mA**
Measuring range humidity:	**0...100 % relative humidity**
Accuracy:	**± 3.5 % (20...80 % relative humidity)**
Response time:	**< 4 sec.**
Output humidity:	**0.5 ... 5.5 V**
Measuring element:	**capacitive (non-condensing)**
Measuring range temp.:	**–20 ... +80° C**
Accuracy:	**± 0.5 K at 25° C**
Response time:	**< 20 sec**
Output temperature:	**0.5 ... 5.5 V**
Measuring element:	**semiconductor**
Dimensions (L x B x H):	**65 x 31 x 22 mm**
Cable length:	**2 m**

Plastic housing with two fixing bore holes

Connection cable with open cable ends for module type kit	3000-U25-00
Connection cable with plug for modular system box and 19” plug-in boxes	3000-U25-01

Analogue temperature sensor

The analog sensor is suitable for monitoring temperatures both of gaseous and liquid media.

Operating voltage:	**+12V ±10%**
Current consumption:	**ca. 0.8 mA**
Measuring range temp.:	**–50....150 °C**
Accuracy:	**< 2 %**
Output voltage at -50° C:	**0.25 V**
Output voltage at 150° C:	**4.75 V**
Dimensions diameter x L:	**Ø 6 mm x 50 mm**
Cable length:	**2 m**

Housing of stainless steel;

Connection cable with open cable ends for module type Kit	3000-U39-00
Connection cable with plug for modular system box and 19” plug-in boxes	3000-U39-01

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Photoelectric smoke detector

Photoelectric smoke detector with VdS certification G29219.
The sensor is connected to the sensor module 3000-U13-0X.

In the non-operating state the sensor provides an output signal of approx. 400 mV. When noticing smoke the signal goes up to more than 1.800 mV.

Operating voltage:	**8 ... 28 VDC (supplied by ELM system)**
LED:	**is lit red in case of alarm**
Dimensions diameter x H:	**Ø 90 mm x 72 mm**
Cable length:	**3 m**
Plastic housing with two fixing bore holes;	
Connection cable with open cable ends for module type kit	3000-U34-00
Connection cable with plug for modular system box and 19” plug-in boxes	3000-U34-01

Analogue acceleration/tilt sensor

This analogue sensor can be used in safety-related applications to protect against vandalism, destruction and theft. It measures accelerations in one axis,

The sensor is connected to the sensor module 3000-U13-0X.

Operating voltage:	**7.5 ... 15 VDC (supplied by ELM system)**
Current consumption:	**approx. 2 mA**
Measuring axis:	**Z-axis**
Measuring range:	**+/-5 g**
Output voltage at 0 g:	**2.5V +/-0.25V**
Sensitiveness:	**0.4 +/-0.02) V/g**
Non-linearity:	**+/-1% FSO**
Band width:	**50 Hz**
Protection against overload:	**up to 1500 g**
Measuring element:	**capacitive**
Operating temperature:	**–40 ... +70° C**
Dimensions (L x B x H):	**65 x 31 x 22 mm**
Cable length:	**2 m**
IP rating:	**IP65**
EMC and ESD tested acc. to	**EN 50082-1 EN 50082-2**
Plastic housing with two fixing bores holes	
Connection cable with open cable ends for module type kit	3000-U38-00
Connection cable with plug for modular system box and 19” plug-in boxes	3000-U38-01

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Current sensor 2 x 16 A

The current control sensor is usually used in the current distribution board of machine or data cabinets. The dimensions are 35 x 80 x 40 mm (W x H x D).
It is suitable for top hat rail mounting.
The sensor has 2 inputs of 0 ... 16 A AC via plug-in terminals 2.5 mm.
The connection to the sensor module 3000-U13-xx is effected via a RJ45 patch cable with adapter cable 3000-U37-x.
The power supply is 12 V DC, the analogue output signal is 0... 4 V DC.

Current sensor 2 x 16 A	
	3000-U36

Current sensor 32 A AC

Same as above, but with measuring range 1 x 0 ... 32 A AC via plug-in terminals 4 mm².

Current sensor 1 x 32 A	
	3000-U36-05

Voltage sensor 240 V AC

Sensor used to measure the supply voltage with measuring range 1 x 0 ... 240 V AC via plug-in terminals 4 mm².

Voltage sensor 240 V AC	
	3000-U31

Connection cable to sensor module

This cable is used to connect current and voltage sensors to modules of the type KIT or Box or 19” rack mount units.

Connection cable 0.5 m RJ45 socket / open wire ends for connection to modules of type KIT	
	3000-U37-0
Connection cable 0.5 m RJ45 socket / connector plug for sensor module for connection to modules of type Box or 19” rack mount unit	
	3000-U37-1

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Door contact, switched socket

PROGRAM 3000

Flat reed contact used as door switch

This digital sensor, in combination with the ELM system, is to monitor door states and side walls. It is designed for the connection to the modules 3000-U11-0X and 3000-U33-0X.

Dimensions (L x B x H):	**60 x 11 x 9 mm**
Cable length:	**6 m**
Plastic housing with two fixing bore holes; loose side with permanent magnet	
Connection cable with open cable ends for module type Kit	3000-U35-00
Connection cable with plug for modular system box and 19” plug-in boxes	3000-U35-01

Switched socket outlet with voltage control

The switched socket outlet is suitable for switching additional devices on and off. The integrated analogue sensor monitors the available power voltage.

The switched socket outlet with voltage control is connected to the sensor module 3000-U13-0X.

Switching range:	**170-240 V, 47-63 Hz AC**
Switched current:	**10 A**
Measuring range:	**100-240 V, 47-63 Hz AC**
Output voltage:	**0 ... 5 V**
Operating temperature:	**+5 ... +45° C**
Dimensions (L x B x H):	**235 x 135 x 33 mm**
Cable length:	**3 m**
Connection cable with open cable ends for module type Kit	3000-U42-00
Connection cable with plug for modular system box and 19” plug-in boxes	3000-U42-01

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Wall power supply stabilised with standardised Euro plug (Schuko)	
Output: 12 VDC 2.000 mA stabilised	
Connection cable with open cable ends for modular system Kit	3000-03-00
Connection cable with connector for modules type Box	3000-03-02

CAN Bus connection cable	
CAN bus connection cable 0.2 m for modular type Kit	3000-U17
CAN bus connection cable 3 m for modular type Kit	3000-U18
CAN bus connection cable 5 m for modular type Kit	3000-U19

Null modem Connection cable 2m	
is required for the first installation of ELM systems with the communication module 3000-U14-02	3000-U29

Patch cable crossover 2 x RJ45 2 m	
for the direct connection between computer and ELM system	3000-U28

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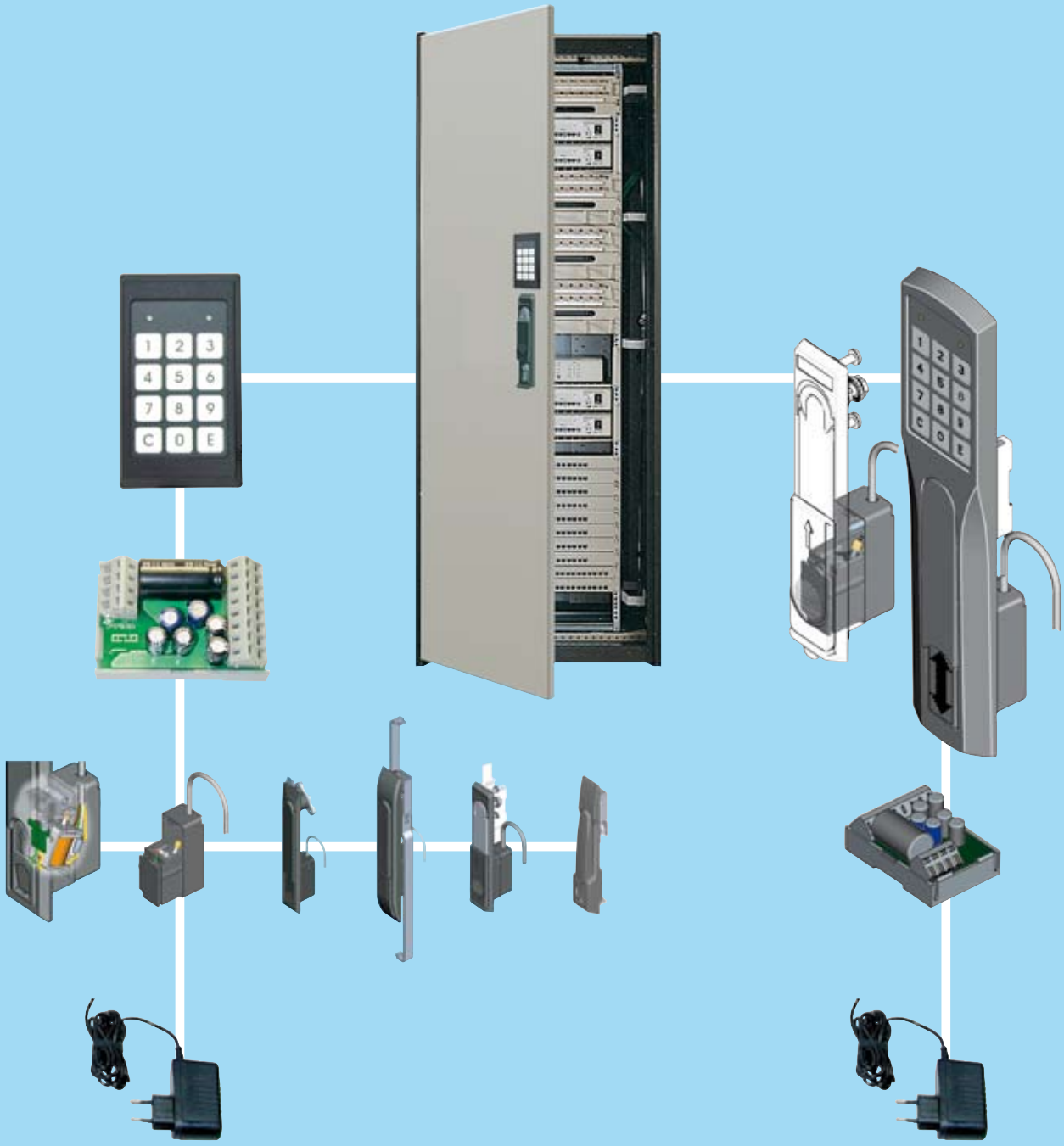
Notes:

Electronic Locking-System Program 3000: Stand-Alone Solutions



The Stand-alone system is an economical electronic locking system for cabinets with up to two doors. It is suitable for applications which do not require data networking or remote administration.

A handle is opened by entering an appropriate pin code via keypad. Five different pin codes are available per handle. The administration of the code numbers is carried out directly at the keypad and requires authorisation via special master code number.

The Stand-Alone system consists of a Keypad Module for entering pin codes and a Control Module. The Control Module provides the necessary electrical energy to open the handles. Keypad Module and handles are available both as individual components and as a set.

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Electronic Locking System

PROGRAM 3000

Stand-Alone Version

Electronic Keypad

Description:
The corresponding handle mechanism will be activated by entering the respective code on the keypad. The keypad is programmable for a maximum of two doors. More user codes can be added for each door. With a changeable master code, the user codes can be easily entered.
By assigning the user codes, master key systems and group key systems can be set up.

Application:
The electronic keypad system is suitable for small stand-alone solutions, which do not require to network ability.
The system is particularly suited for controlling a cabinet with up to two doors by means of a single keypad.

Function:
After programming the codes the user can unlock a swing handle by entering a valid access code. Now the door can be opened.

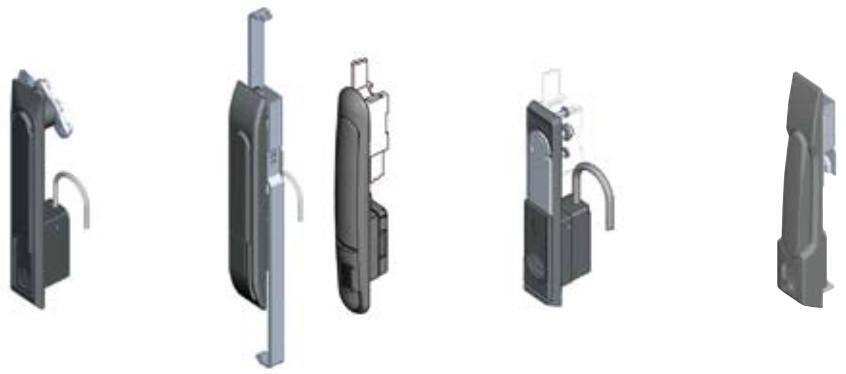
Components of the delivery set:
- Electronic Keypad with connection cable (4 m)
- Electronic unit with connection terminals for up to two electromechanical Locking System Units and the Electronic Keypad
- One or two Locking System Units with connection cable (4 m); for installation into springloaded handle systems
- Fixing material
- Instruction manual

Note:
Stabilised power supply unit 12 V minimum 300 mA is required
(see page 11B-160).

Technical Data

– Protection Class	IP 40
– Temperature Range	0-60 °C

Program 1150 | Program 1180 | Program 2100 | Program 2400



	19"	Box	KIT
Electronic Keypad with 1 Locking System Module	-	-	3000-U01-00
Electronic Keypad with 2 Locking System Module	-	-	3000-U02-00

Further parts see page

Program 1150
– Swing handle 1151 3C-420
3C-440

PROGRAM 1180
– Swing handle 3E-120
up to 3E-520

Program 2100
– Swing handle 3H-320

Program 2400
– Swing handle 3K-220

– Power supply 11B-160

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Stand-Alone Version

Combination Handle Unit with Integrated Keypad

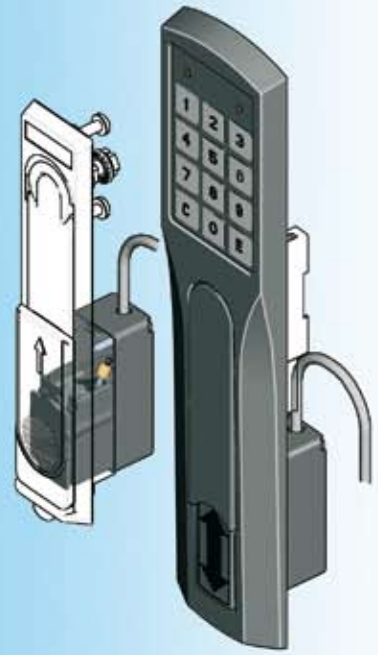
Integration of the keypad into the handle escutcheon eliminates the need for the installation of a seperate keypad and moulded housing.

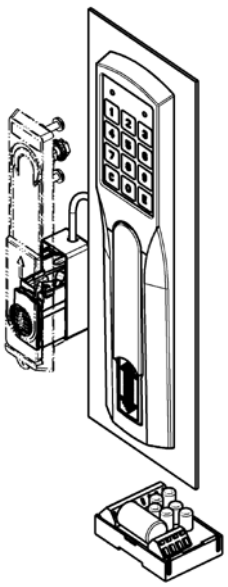
Description:
The corresponding handle mechanism will be activated upon entering the respective code on the keypad. The keypad is programmable for a maximum of two doors. More user codes can be added for each door as required. With the changeable master code, the user codes can easily be entered.
By assigning user codes, master key systems and group key systems can be set up.

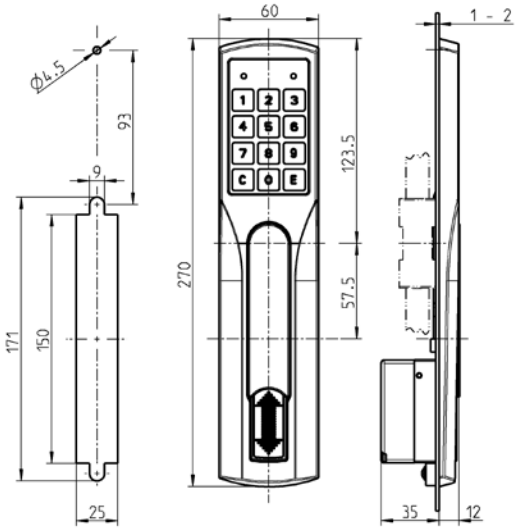
Application:
The electronic keypad system is suitable for small stand-alone solutions, which do not require network ability.
The system is particularly suited for controlling a cabinet with up to two doors by means of a single keypad.

Function:
After programming the codes, the user can unlock a swing handle by entering a valid access code. Now the door can be opened.

Components included in delivery:
- Swing Handle GD Zn black, moulded polyamide GF black; fixing material St zinc-galvanized
- Electronic Keypad with connection cable (4 m)
- Electronic unit with connection terminals for up to two electromechanical Locking System Units and the Keypad
- One built-in Locking System Unit for spring-loaded handle systems; with connection cable (4 m)
- Instruction manual







Cut out

	19"	Box	KIT
Combination Handle Unit complete with Locking Module installed	-	-	**2100-U151-00**
Combination Handle Unit complete plus 1 LSM* for 2nd handle	-	-	**2100-U152-00**

Technical Data
– Protection Class IP 40
– Temperature Range 0-60 °C

Note:
Stabilized power supply unit 12 V minimum 300 mA is required (see page 11B-160).

Further parts see page
– Power supply 11B-160
– Rod control 3YA-520
3YA-540

For the second solenoid
Program 1150
– Swinghandle 1151 3C-420
3C-440

Program 1180
– Swinghandle 3E-120
up to 3E-320

Program 2100
– Swinghandle 3H-320

Program 2400
– Swinghandle 3K-220

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Electronic Locking System

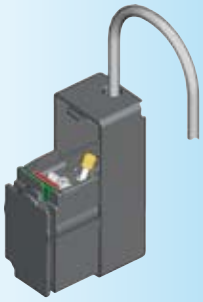
PROGRAM 3000

Stand-Alone Version

Electrical Power Supply 12 VDC 2,000 mA, stabilised

Version:
3000-03-00 The connection cable (2 m) is intended for single wire connections.

	19"	Box	KIT
Wall power supply stabilises 12 VDC 2,000 mA	-	-	**3000-03-00**



Locking System Unit

The Locking System Unit is installed into spring-loaded handles.
It is equipped with a connection cable (4 m).
The unit is controlled by means of the Standard Control Module 3000-U7-00.

	19"	Box	KIT
Locking System Unit	-	-	**3000-U05-00**

Control module for handles with solenoid unit

The control module controls solenoid units for spring-loaded handles.
It has a voltage regulator and generates current pulses to release the handles.
Max. 2 Locking System Units and max. 2 release buttons.
A stabilised wall power supply 12 VDC min. 500 mA is required.

	19"	Box	KIT
Standard Control Module	-	-	**3000-U07-00**

Control module for single point latches and handles 1150-U56/U58

Control module to control single point latches or handles of the type 1150-U56/U58. The module releases the latches or handles for a time period programmable in the Stand-Alone Keypad.
Max. 2 latches or handles and max. 2 release buttons.
A stabilised power supply 12 V DC min. 700 mA is required.

	19"	Box	KIT
Standard Control Module	-	-	**3000-U07-01**

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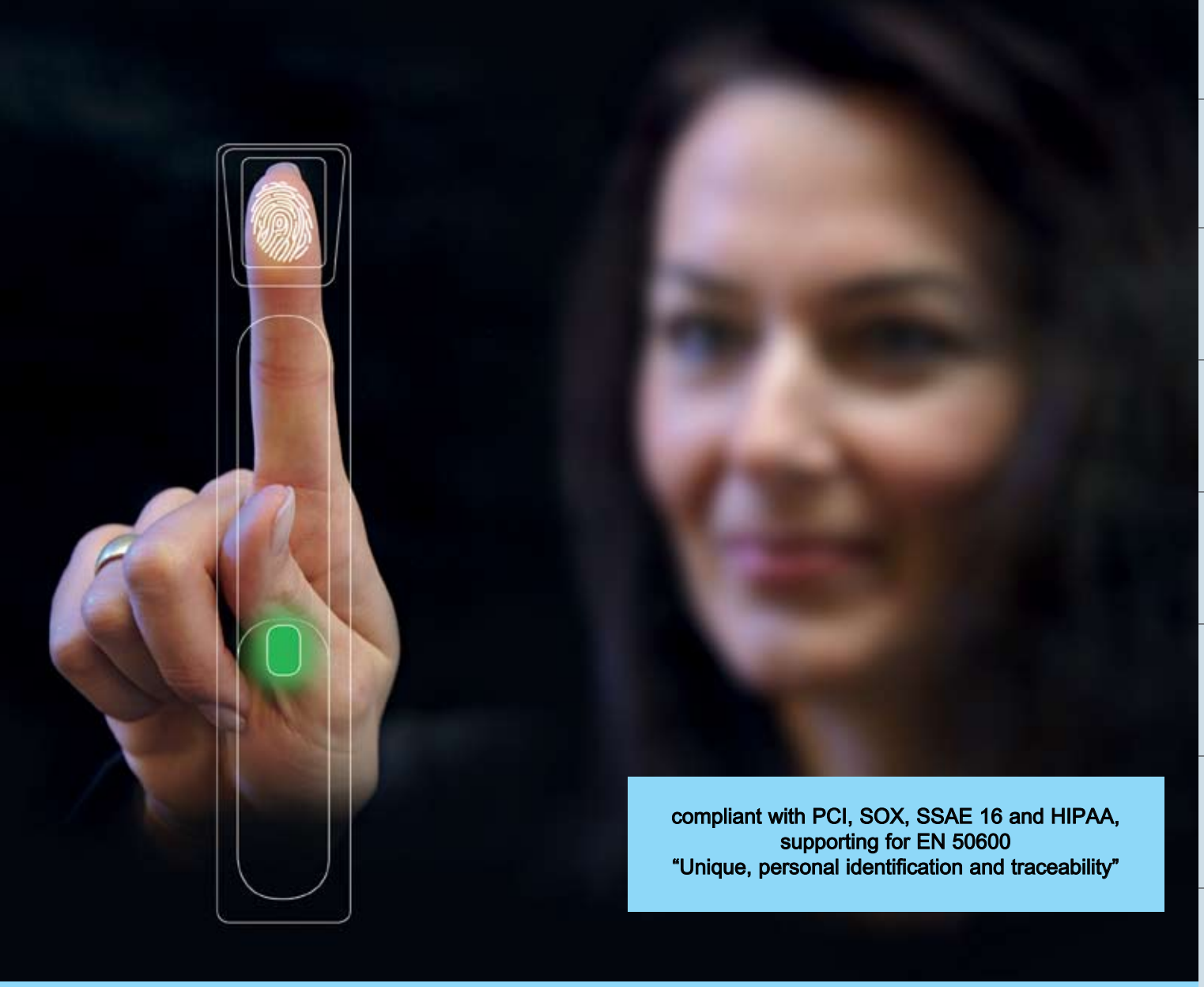


compliant with PCI, SOX, SSAE 16 and HIPAA, supporting for EN 50600 "Unique, personal identification and traceability"

Biometrical access control systems*

Access control must not end at the entrace door to the data centre!

Biometrical access control, combined with the proven and tested electromechanical swing handles of EMKA, result in significantly increased security with regard to access control for racks in data centres.

Passwords can be revealed, access cards get in other hands or lost. A biometrical feature such as a fingerprint belongs unambigiously to a certain person.

If a swing handle with integrated fingerprint sensor is used at every cabinet door, the person requesting access is unambigiously identified. This prevents unauthorised access to sensitive facilities in the cabinet.

Secure fingerprint fechnology, few hardware components and an intuitive operating software guarantee

- Unambigious identification by swing handles with integrated fingerprint sensor
- Authentification directly on cabinet level
- Simple retrofitting in existing installations with mechanical handle systems

A database-supported software makes the simple administration of all cabinets and housings in the entire data centre possible. Via the integrated SNMP interface a simple integration in existing facility management systems can be realised.

Compliant with all current security standards, the system provides a hundred per cent authentification and a tamper-proof event log.

Whether single server rack or complete data centre, simple, double or triple authentification or the four-eyes principle - this system stands for ultimate security to protect assets and data.

* In co-operation with
db Access Security Solutions

db Bus system for data centre applications

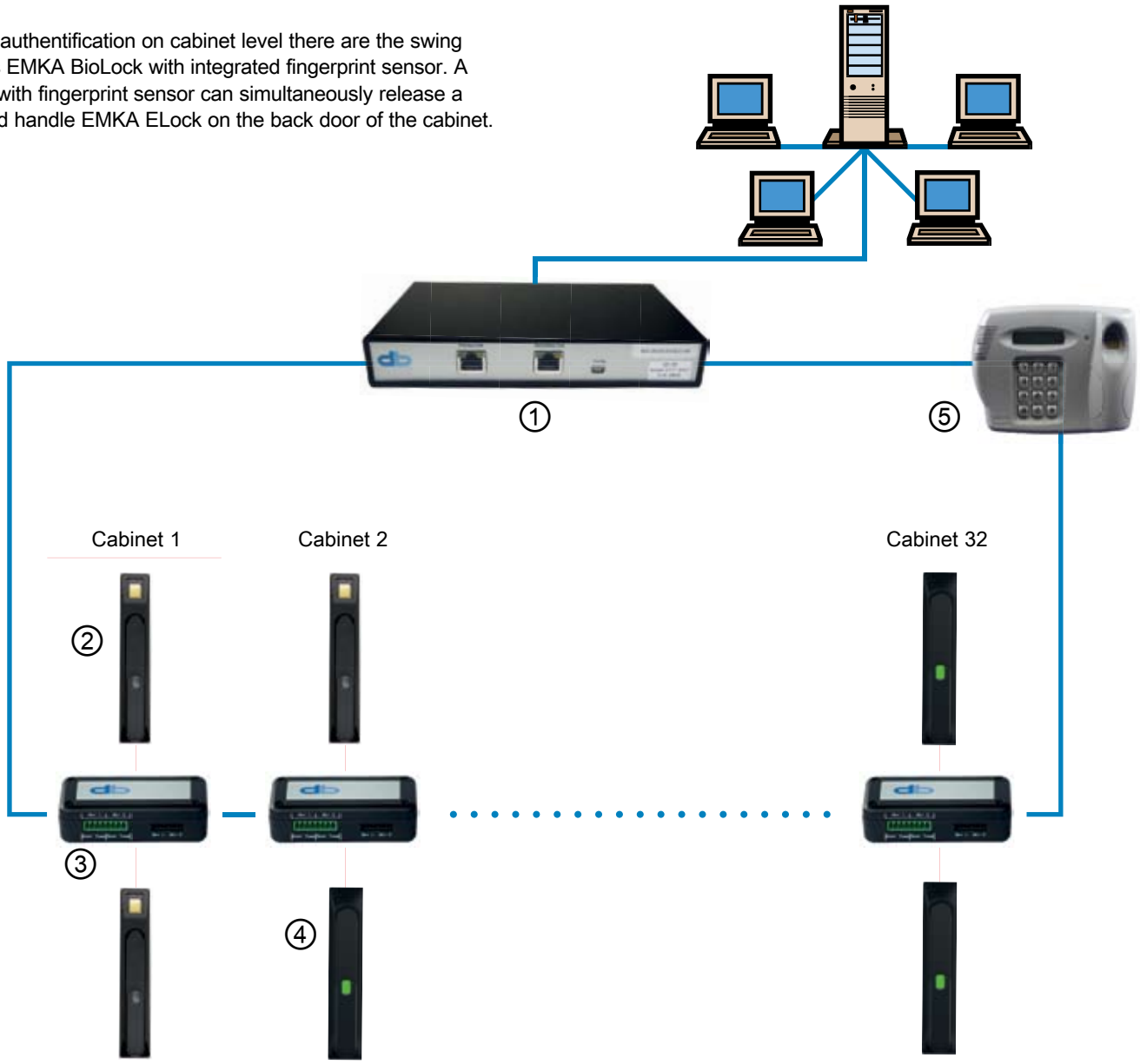
PROGRAMM 3500

The bus System consists of a central communications module and the connected handle modules with swing handles and optional ID boxes. The communication module transmits the control signals and the power supply for up to 32 server racks / 64 swing handles. The feeding of the bus nodes is effected from two sides so that the power supply is guaranteed even if the bus is interrupted.

In each cabinet one handle module 3500-U20 is required to connect 2 swing handles, 2 door contacts and 2 further contacts to monitor the sidewalls or the top. The network interface on the db communication module makes the convenient administration of several bus systems possible using the management software db Control Cockpit 3500-U100.

For the authentification on cabinet level there are the swing handles EMKA BioLock with integrated fingerprint sensor. A handle with fingerprint sensor can simultaneously release a standard handle EMKA ELock on the back door of the cabinet.

For authentification at the beginning/end of a line of cabinets, the db ID Box offers the possibility to select the required cabinet door via a keypad and then to release the required swing handle using any combination of fingerprint, personal PIN code or RFID access card.



① db communication module 3500-U15

② EMKA BioLock 3500-U59

③ db handle module 3500-U20

④ EMKA ELock 3500-U89

⑤ db ID Box 3500-U40

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db Control Cockpit

This software requires the installation of MS SQL Server 2008 and is used to administer all biometrical access control systems under a convenient and intuitive user interface.

Features

User management
Due to the central entry using the db Control Cockpit software it is simple to add users, their specific characterists as well as the assignment of individual or group authorisations. Every user can register up to 10 fingers, two of which can be defined as “alarm fingers”. “Alarm fingers “ trigger an alarm in the system indicating that an authentication was coerced.

System management
The db Control Cockpit administers all biometrical devices, from the automatic recognition to the configuration, the programming of the fingers and the registration of cards up to monitoring and creation of event reports. With the db Control Cockpit it is stipulated what functions in which device are activated or deactivated.

Real-time monitoring
The db Control Cockpit provides comprehensive control and monitoring functions. The status window displays the opening processes of all connected doors / handles in real time. The software monitors whether doors are open, closed, left ajar or have been opened by force.

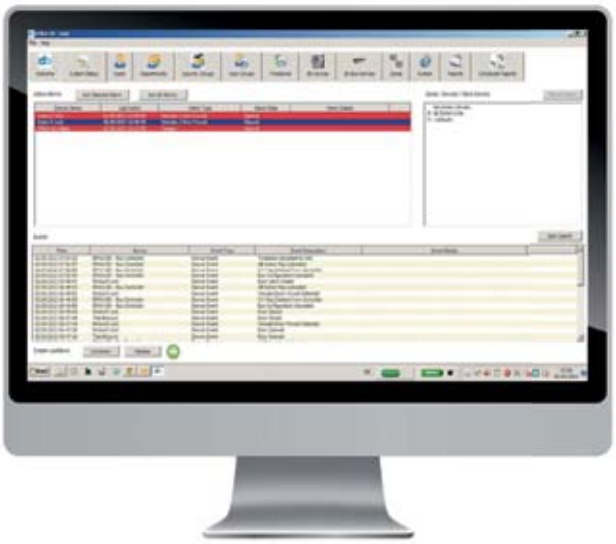
Real-time alarm
The db Control Cockpit displays alarm events at the central control station in real time. The user can see a list of potential alarm events that can also be sent by e-mail.

Logging and analysis
The db Control Cockpit offers detailed event reports with the unambiguous identification of the user. The report function is very flexible and offers both standardised and configurable reports according to customer requirements. The secure alarm administration and the support of the SYSLOG standard make sure that the db Control Cockpit software is a security system in itself.

Scalability
The db Control Cockpit can be used to administer several thousand access control units and swing handles. The database remains on a central server, makeing a convenient administration of the complete system possible.

Integration with third party systems
The db Control Cockpit has an SNMP interface and can be integrated in superordinated systems in this way.

Scope of supply:	1 CD; 1 USB fingerprint reader for registering the fingers
	3500-U100



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Biometric access control systems

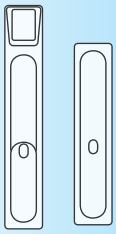
PROGRAMM 3500

db Bus communication module

The communication module transmits the control signals and the power supply for up to 32 handle modules with the connected swing handles.

Features:
- Up to 64 electromechanical handles EMKA BioLock (with fingerprint sensor) or EMKA ELock can be connected
- Power supply for all connected swing handles, handle modules and ID boxes
- Identification time/finger less than 1 second
- Up to 10 fingers per Person can be registered
- Alarm finger function
- EE rate < 0,1% (equal error rate)
- 3 security levels
- Up to 9500 users
- Event log for 60000 events
- Time profiles for limited access
- Configuration and operation using db Control Cockpit software

Communication protocol:	**TCP/IP via Ethernet**
Dimensions (L x B x H):	**190 x 127 x 32 mm**
Power supply:	**48 VDC**
Operating temperature:	**5 ... 70° C**
Scope of supply:	**Power supply unit 100 to 240 VAC/48 VDC/4.6 A**
	3500-U15



db Handle module

This handle module connects 2 swing handles EMKA BioLock or ELock to the db bus system. In addition, one door and one sidewall contact per handle can be connected.

Ports for handles:	**2**
Ports to db bus:	**2 (RJ45)**
Ports contacts:	**4 (screw terminals)**
Outputs:	**1 alarm relay, 26-bit Wiegant interface**
Dimensions (L x B x H):	**98 x 48 x 28 mm**
Power supply:	**via db bus**
Operating temperature:	**5 ... 70° C**
	3500-U20

db ID Box - central keypad with fingerprint sensor and RFID card reader

In combination with the db communication module this unit offers the possibility of authentification at the end of a line of cabinets. Via a keypad the required cabinet door is selected. Then up to three authorisations (fingerprint, PIN code, access card) can be entered for authentication.

Fingerprint sensor:	**capacitive sensor with forgery detection**
Display:	**double-spaced, 16 characters per line**
Keypad:	**Metal keypad with 12 keys**
RFID card reader:	**HID iClass 13.56 MHz Smartcard reader or HID compatible 125 KHz Proximity reader**
Ports to db bus:	**2 (RJ45)**
Dimensions (L x B x H):	**191 x 122 x 56 mm**
Power supply:	**via db bus**
Operating temperature:	**5 ... 70° C**
db ID box without card reader	3500-U40
db ID box with 125 kHz card reader	3500-U42
db ID box with 13.56 kHz card reader	3500-U45

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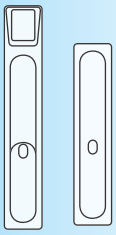
db Communication module for stand-alone applications

This communication module is suitable for connecting 2 electromechanical handles EMKA BioLock (with fingerprint sensor) or one handle EMKA BioLock and one EMKA ELock each.

Features:
- Identification time/finger less than 1 second
- Up to 10 fingers per person possible
- Alarm finger function
- EE rate:< 0.1% (equal error rate)
- 3 security levels
- Up to 9500 users
- Event log for 60000 events
- Tricoloured LED displays for handle status
- Up to 6 external sensors can be connected to monitor cabinet doors, side walls and tops
- Configuration and operation using db Control Cockpit software
-

Possible configuration:
- Front door fitted with EMKA BioLock, back door with EMKA ELock, simultaneous release of front and back door after authentification on EMKA BioLock
- Both doors fitted with EMKA BioLock, independent access to both doors



Communication protocol:	**TCP/IP via Ethernet**
Inputs:	**2 handles, 2 door contacts, 4 alarm contacts**
Outputs:	**1 alarm relay, 26-bit Wiegand interface**
Dimensions (L x B x H:	**190 x 127 x 32 mm**
Power supply:	**18 … 22 VDC**
Current consumption:	**max. 650 mA (without swing handle)**
Operating temperature:	**5 ... 70° C**
Scope of supply:	**with power supply unit**
	3500-U10

Door contact set

Connection:	**Screw terminals**
Dimensions (L x B x H):	**72 x 10 x 8 mm**
Fixing:	**double-faced adhesive tape**
Scope of supply:	**2 door contacts**
	3500-U35

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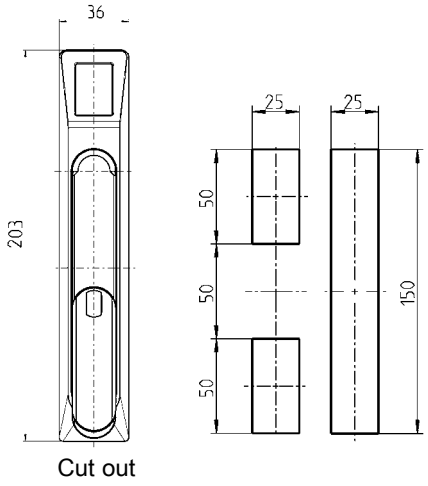
®db BioLock swing handle with fingerprint sensor and emergency opening

PROGRAMM 3500

RL

IP 40

This handle is suitable for locking indoor cabinets. It is integrated in the biometric access control system with the handle module 3500-U20 or connected directly to the stand-alone unit 3500-U10.
The release is effected by the system after positive authentification of the finger and signalled via the LED in the handle. After pushing the handle briefly into the dish, it can be opened. The integrated reed contact is used to Monitor the handle status remotely. For closing the handle has to be pushed into the dish until the locking mechanism latches.
The supplied key is used for opening the handle in case of power failure. For this purpose the cover on the locking cylinder has to be removed. The cylinder cover is destroyed in this process and is to be replaced.



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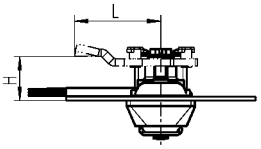

Swing handle zinc die black; cap and cylinder cover polyamide GF black; shaft AISI 303; round cylinder with stainless steel cap and dust cover; Solenoid with electronics; reed contact and LED; Connection cable (0.2 m) with connector for handle module or communication module stand-alone; fixing material m.s. zinc plated.
Each cylinder has one silver steel key with polyamide GF grip black.

Scope of supply: fingerprint sensor, terminal box, connection cable 4.2 m, door contact

	keyed EK 333	keyed different
Swing handle with fingerprint sensor for rod control and cam	3500-U59	3500-U59-V
Cylinder cover polyamide GF black (spare part)		
		1150-B33

Further parts see page
– Cams (GH = 18) 3YC-120
– Rod control 3YA-120
3YA-140
– Spare key 12B-140

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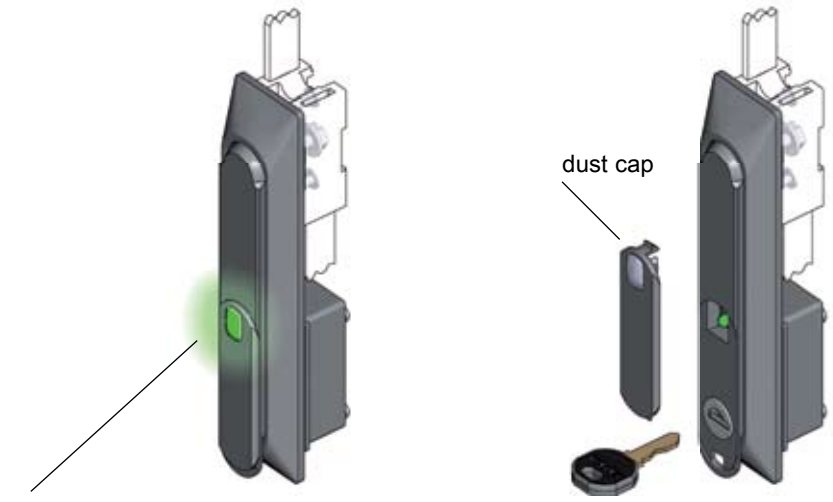
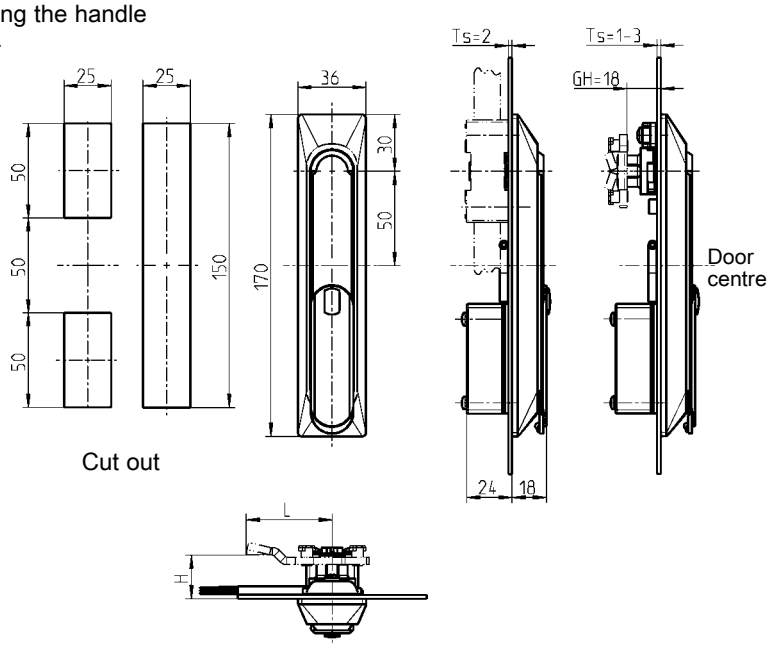
ELock swing handle with emergency opening

PROGRAMM 3500

EMKA Beschlagteile

This handle is suitable for locking indoor cabinets. With the handle module 3500-U20 it is integrated in the biometric access control system or connected directly to the stand-alone unit 3500-U10.
The release is effected after positive authentification within the system and is signalled by the LED in the handle. After the handle has been briefly pushed into the dish, it can be opened. The integrated reed contact is for monitoring the handle status remotely. For closing, the handle has to be pushed into the dish until the locking mechanism latches.
The supplied key is used for opening of the handle in case of power failure. For this the cover on the locking cylinder has to be removed.The cylinder cover is destroyed in this process and is to be replaced.





Swing handle zinc die black; cap and cylinder cover polyamide GF black; shaft AISI 303; round cylinder with stainless steel cap and dust cover; solenoid with electronics; reed contact and LED; connection cable (4.2 m) with connector for handle module or communication module stand alone; fixing material m.s. zinc plated
Each cylinder has one silver steel key with polyamide GF grip black.

Scope of supply: 1 door contact

	keyed EK 333	keyed different
Swing handle for rod control and cam	3500-U89	3500-U89-V
Cylinder cover polyamide GF black (spare part)		
		1150-B33

Further parts see page
– Cams (GH = 18) 3YC-120
– Rod control 3YA-120
3YA-140
– Spare key 12B-140

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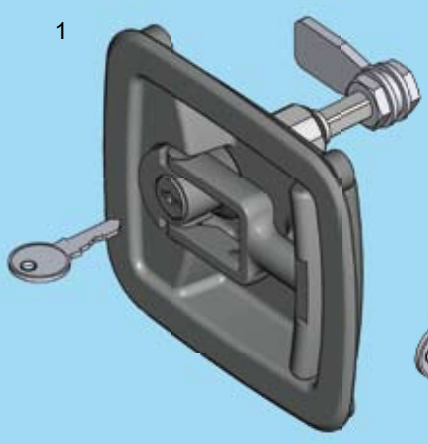
Notes:

Locks/Latches
Lock, retractable handle, dead-bolt lock, slam-lock, snap lock, bridge clamp

1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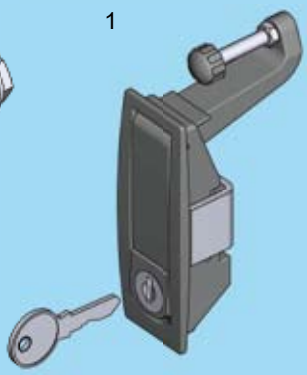
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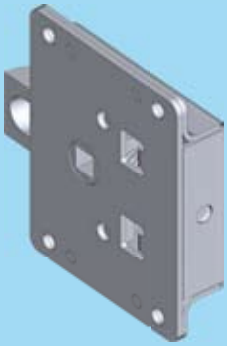
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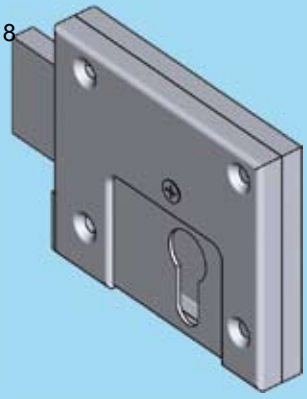
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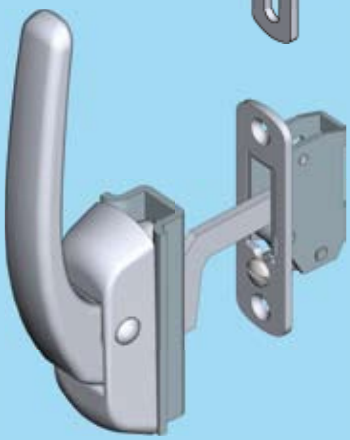
9

1	Retractable handle	12A-120 to 12A-160
2	Door lock	12A-220 to 12A-240
3	Bridge clamp system	12A-620
4	Snap lock	12A-240, 12A-420
5	Slam-lock	12A-320, 12A-340
6	Side panel latch	12A-440
7	Slam-lock	12A-320
8	Dead-bolt lock	12A-520
9	Heavy duty latch	12A-820

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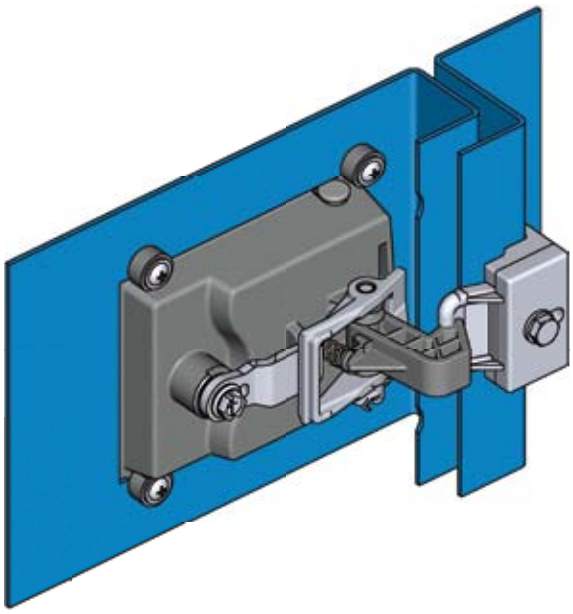
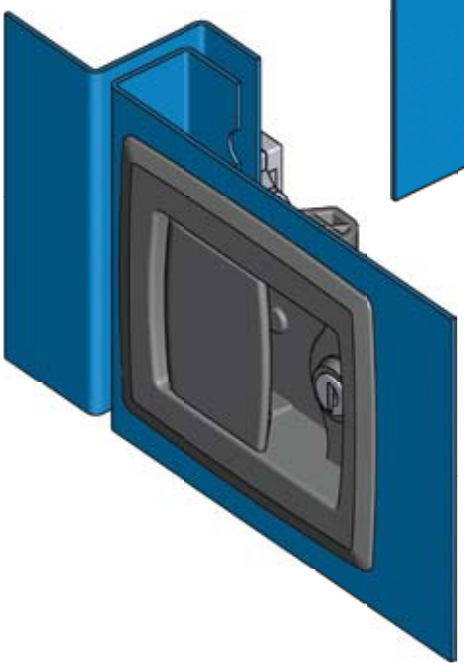
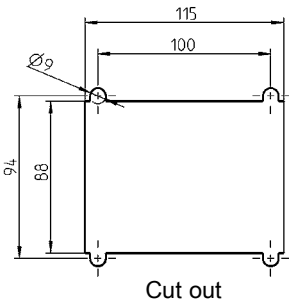
Retractable handle

PROGRAM 1130







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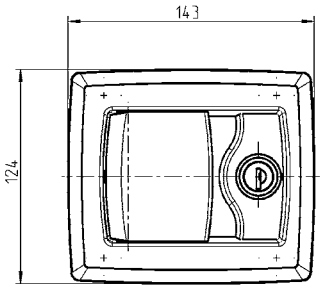

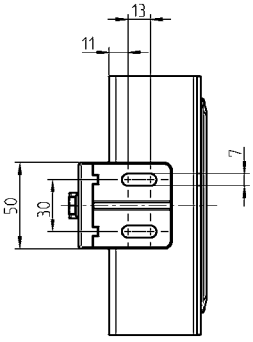

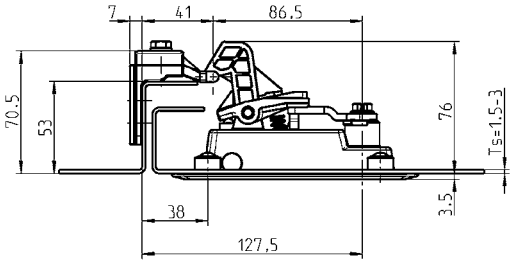

Note:
The Version 1130-U1 and -U2 are made for RH use by default.

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

Function:
The spring-loaded locking hook is equipped with a “door-slam” effect.
Thereby door can also be closed when locked.

Further parts see page
– Spare key 12B-140

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

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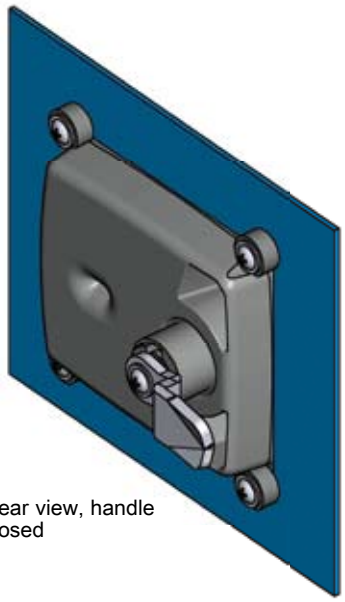
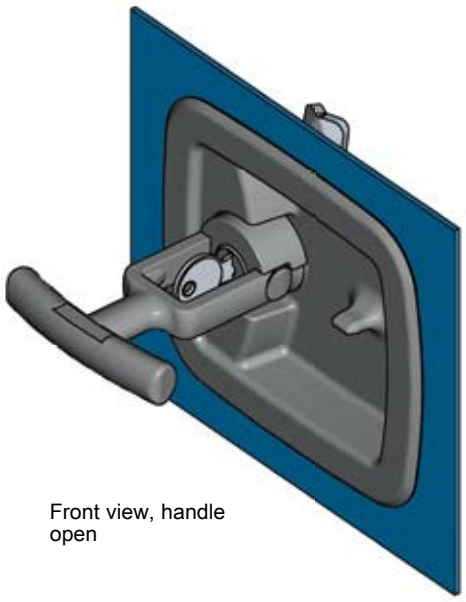
Retractable T-Handle

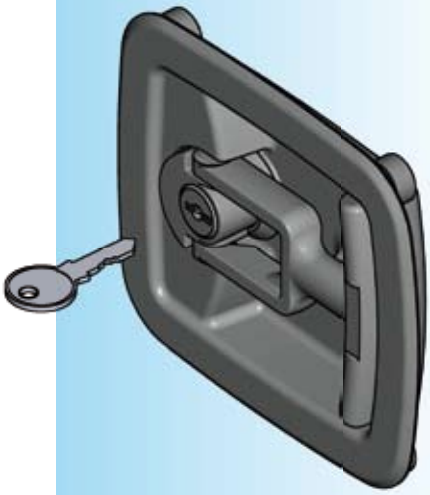
PROGRAM 1130



Rear view, handle closed

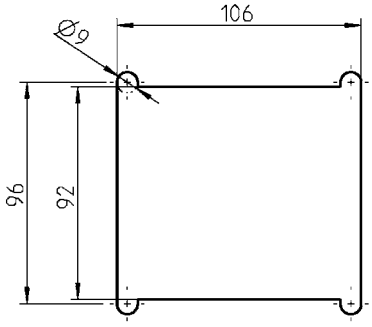


Front view, handle open



Note:

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



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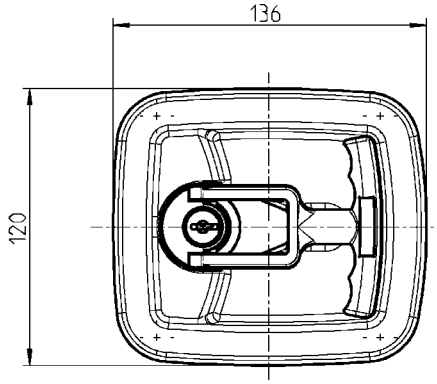

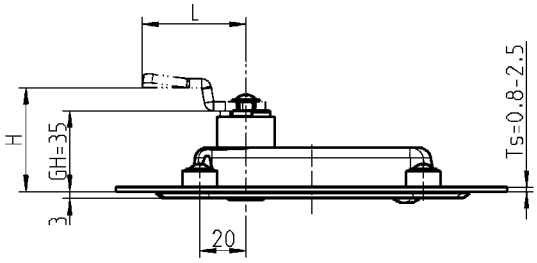

Recess T-handle polyamide GF black, fastening material m.s. zinc pl., with seal. Each round cylinder has one key m.s. nickel plated

keyed EK 333	1130-U3
keyed different	1130-U4

Further parts see page

– Cam with pip (GH=36) 1C-120
Attention: When selecting this cam the H-dimension is reduced by 1 mm.

– Spare key 12B-140

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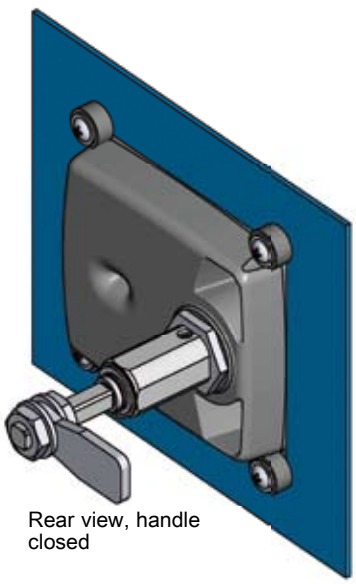
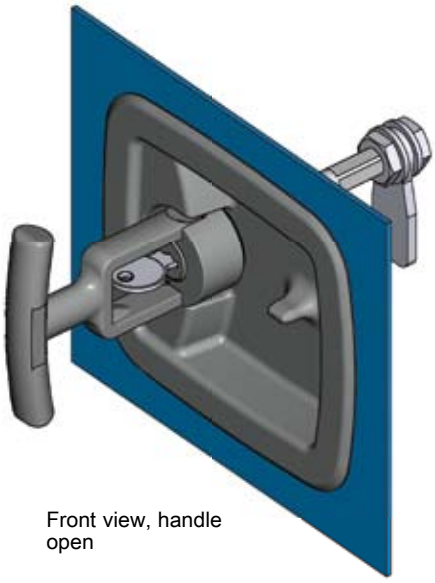
®Retractable T-Handle with compression function with adjustable cams

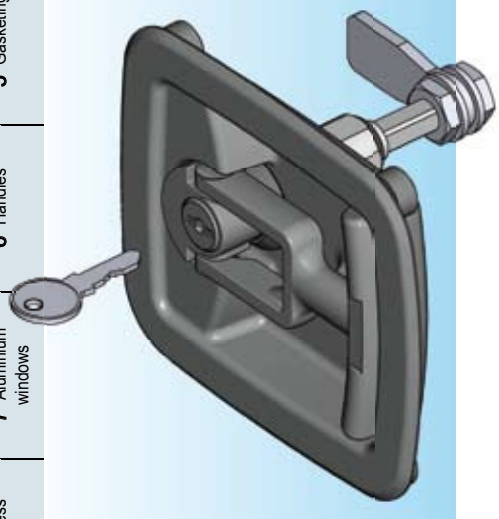
PROGRAM 1130



Rear view, handle closed

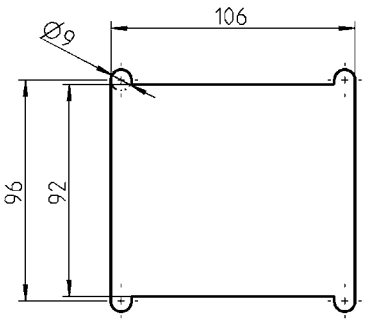


Front view, handle open

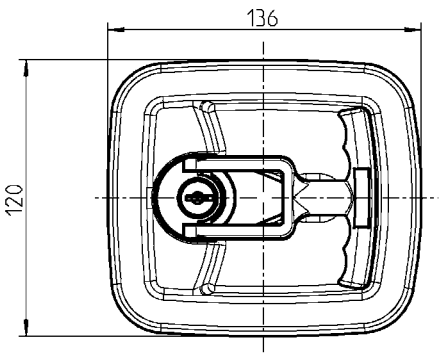


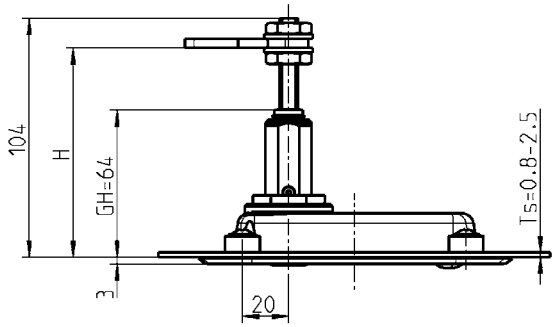
Note:

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



Cut out





Further parts see page

– Cam (GH=64)	1C-137
– Spare key	12B-140

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

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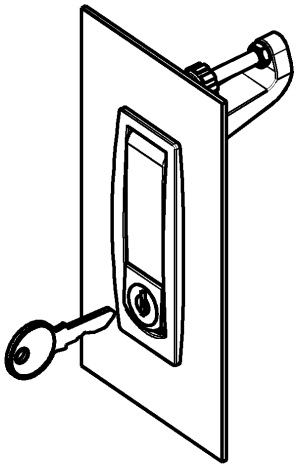
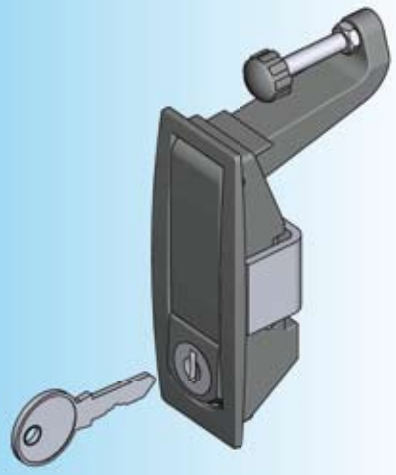
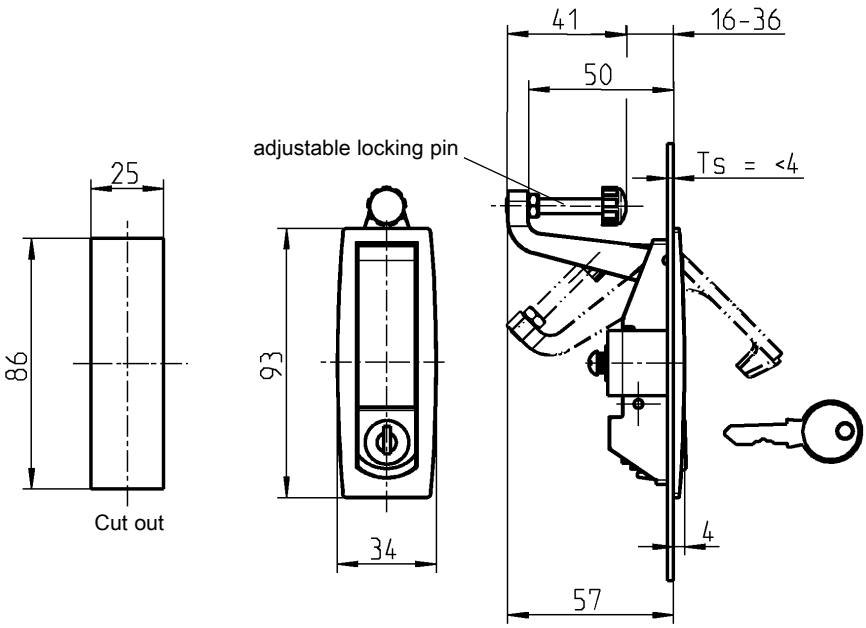
Compression flush handle

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

Further parts see page
– Spare key 12B-140

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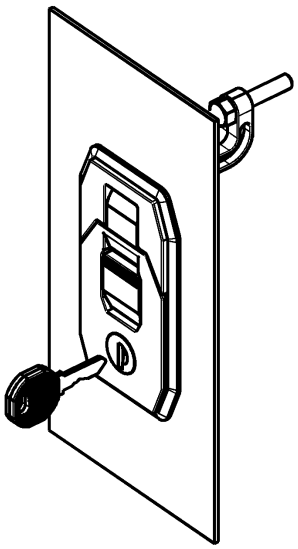
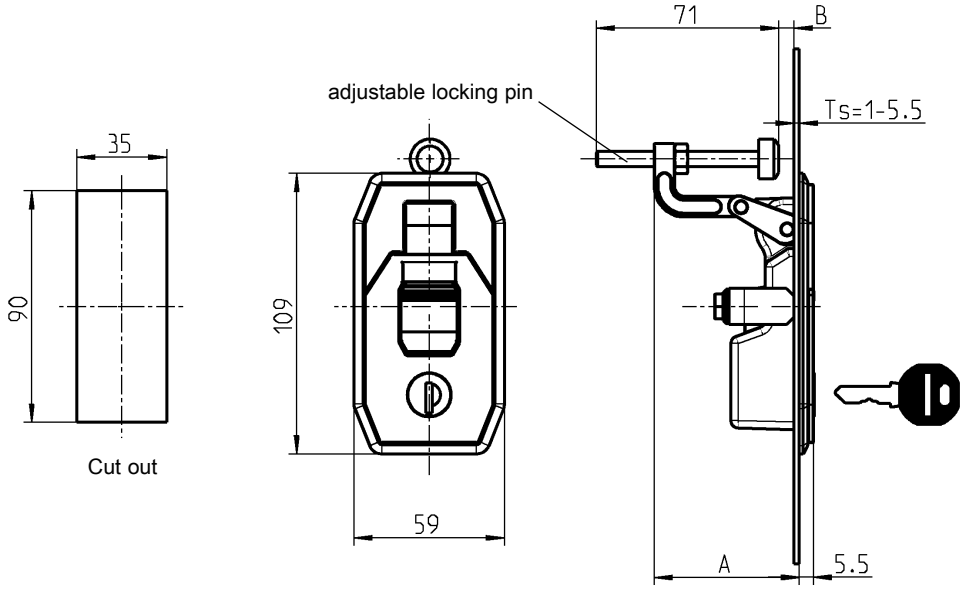
Compression handle

PROGRAM 1130





Hinged handle with other lever arm on request

Further parts see page
– Spare key 12B-140

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

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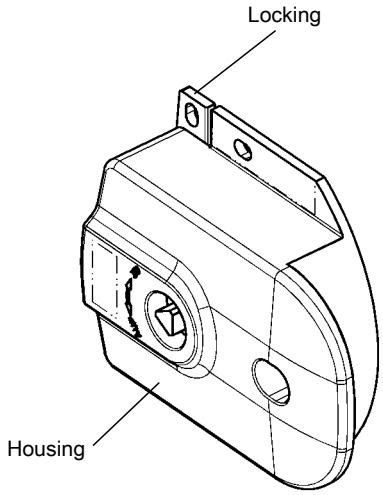
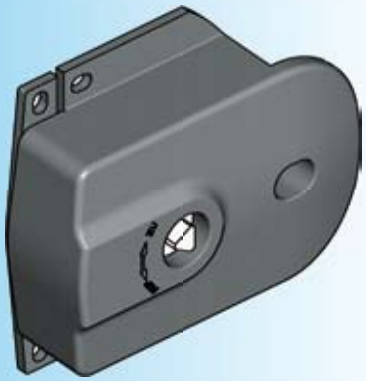
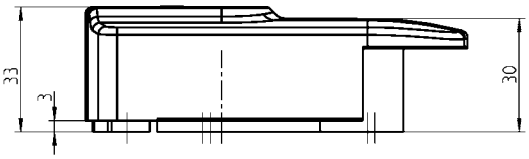
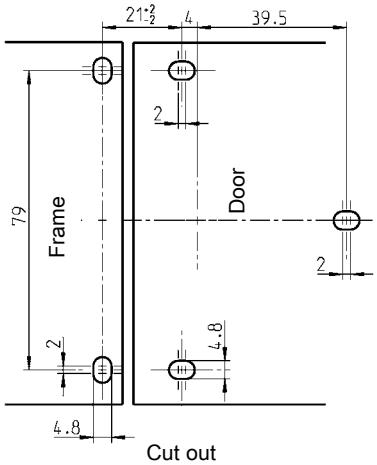
Surface mounted door lock

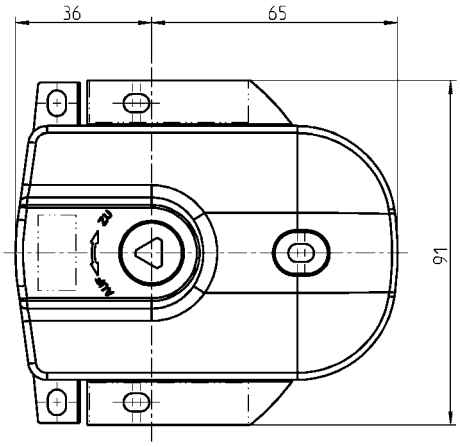
PROGRAM 1000











Attention:
Insert not included

Suitable lockable or non lockable T-handles and L-handles on request!

Further parts see page

– Insert	1B-140
– Key	12B-120

Housing and lock zinc die black p.c., stepped cam zinc die raw

for insert	1000-U778

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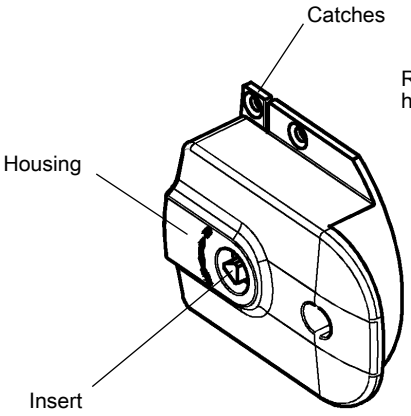
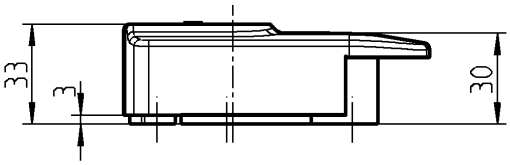
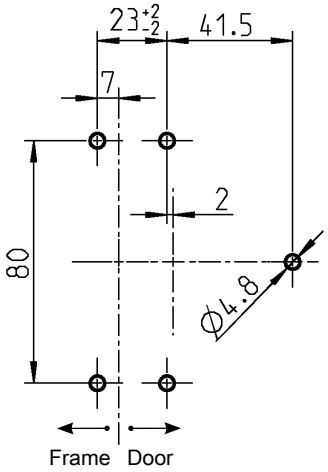
Surface mounted door lock

PROGRAM 1000

Catches







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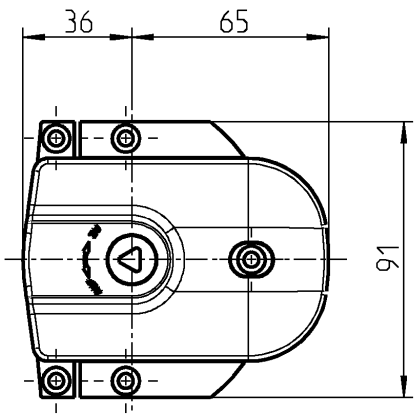

Attention:
Insert not included

Catch to be ordered separately

Further parts see page

– Door lock with inner handle or Pressure relief	10A-940 10A-920
– Insert	1B-140
– Key	12B-120

Surface mounted door lock black powder coated zinc die, stepped cam zinc die raw	
without insert	1000-U779
Catch zinc die black powder coated	
	1000-488-AA

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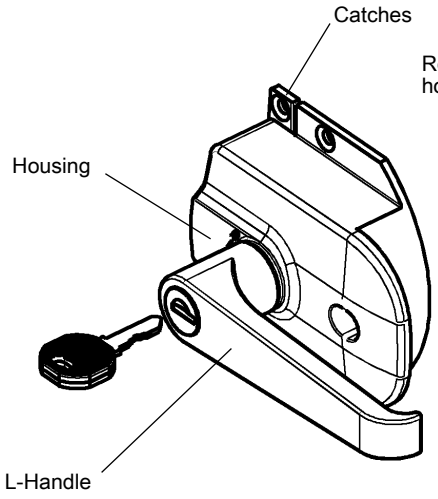
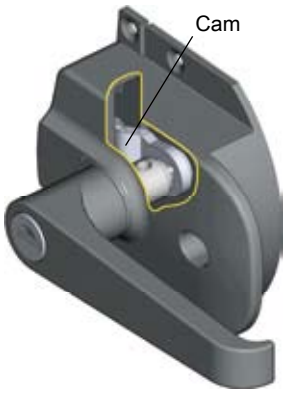
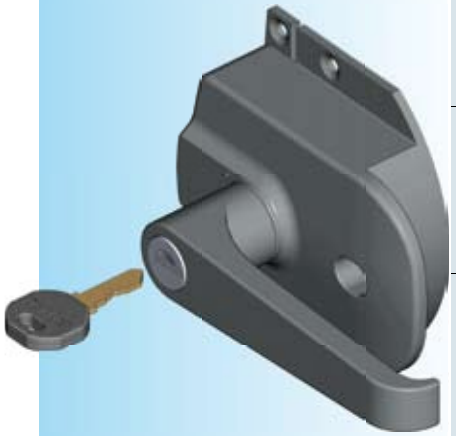
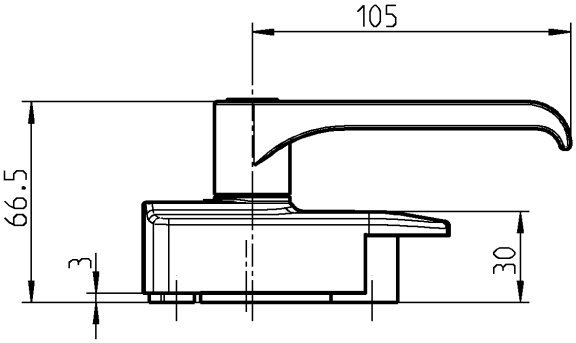
Surface mounted door lock

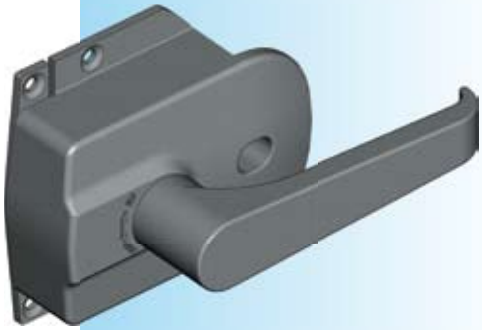
PROGRAM 1000

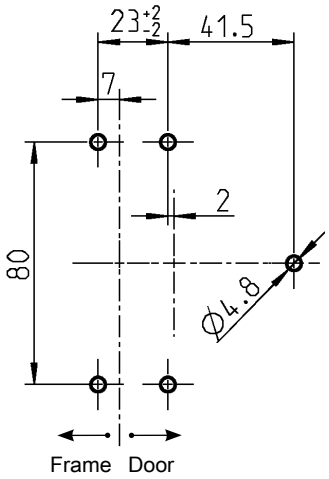












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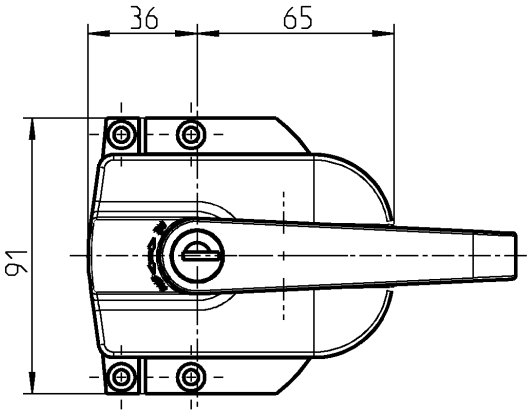

Catches

Catch to be ordered separately

90° locking stroke with lockable handles

Housing and catch with long slots on request!

Surface mounted door lock black powder coated zinc die raw, L-Handle polyamide GF black, stepped cam zinc die, screw zinc plated m.s.	
non locking	1000-U780
Surface mounted door lock zinc die black powder coated, L-Handle polyamide GF black, cam and screw m.s. zinc plated, round cylinder zinc die with stainless steel cap and dust cap Each round cylinder has one silver steel key with polyamide grip GF black.	
keyed EK 333	1000-U781
keyed different	1000-U781-V
Catch zinc die black powder coated	
	1000-488-AA

Further parts see page

– Door lock with inner handle or	10A-940
Pressure relief	10A-920
– Spare key	12B-140

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Cam and snaplock

PROGRAM 1000

RL

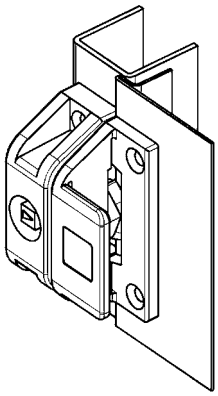
IP 65

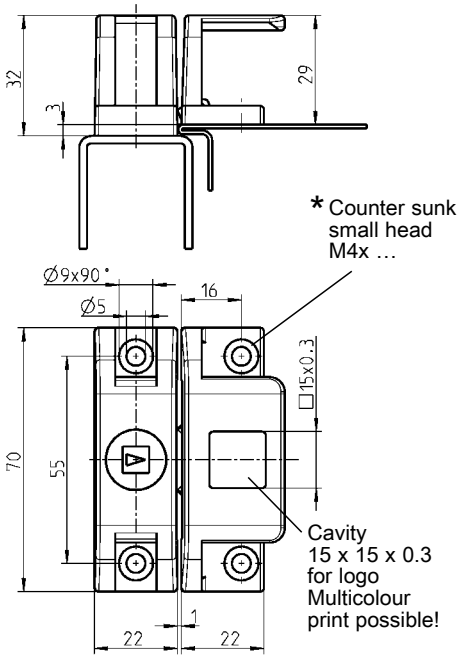
small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

* not included

Further parts see page
– Key 12B-120

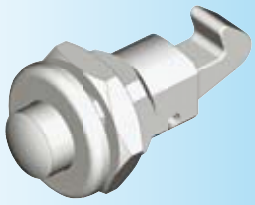
Cam lock

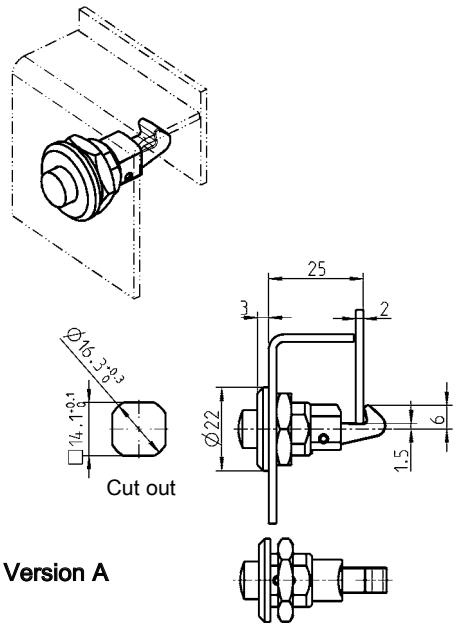




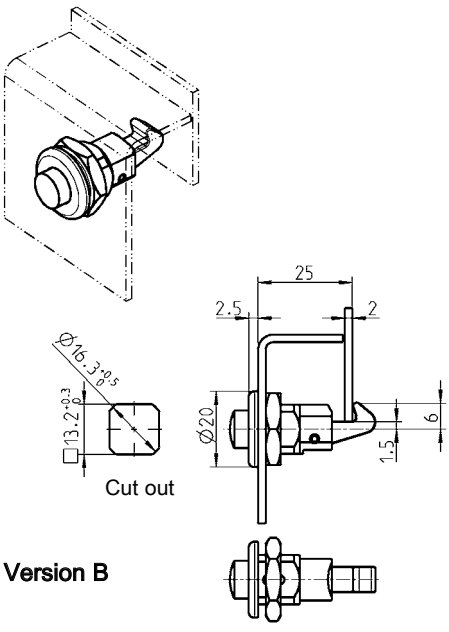
Cam lock polyamide black, insert zinc die chrome pl. cam, screw and wave washer m.s. zinc pl.			
Square 7	1076-U5	Double bit 3	1076-U9
Square 8	1076-U6	Double bit 5	1076-U10
Triangular 7	1076-U7	Hexagon female SW 10	1076-U11
Triangular 8	1076-U8	Slot 2 x 4	1076-U12

Snap lock
with and without seal





Version A



Version B

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

with seal IP 65

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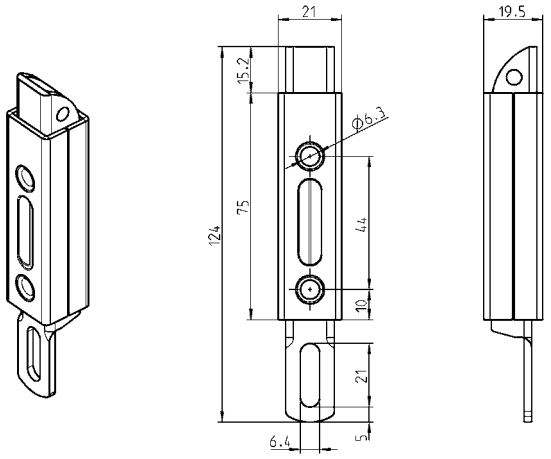
Slam-lock

PROGRAM 1034, 1085

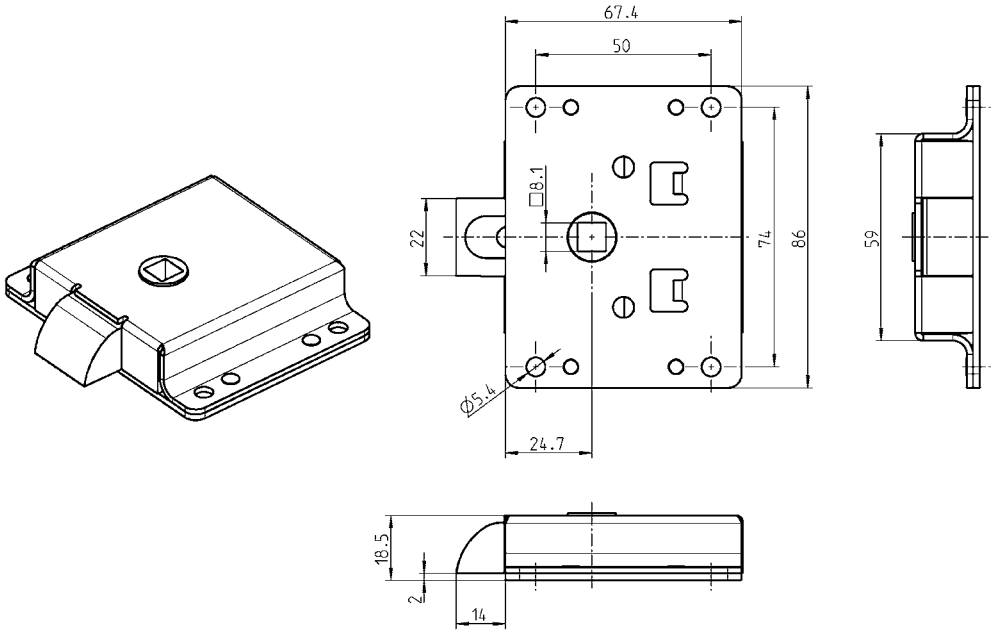
Slam-lock



Rod connection can be bent for hand-operation on request

Slam-lock m.s. zinc plated	
	1085-U1

Slam-lock



Further parts see page
– Lock support and insert 1C-360

Slam-lock m.s. zinc plated, lock and nut zinc die raw, spring m.s. polyamide	
	1034-U1

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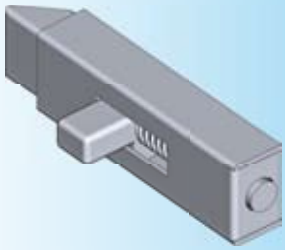
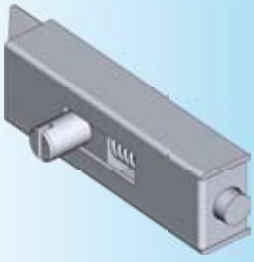
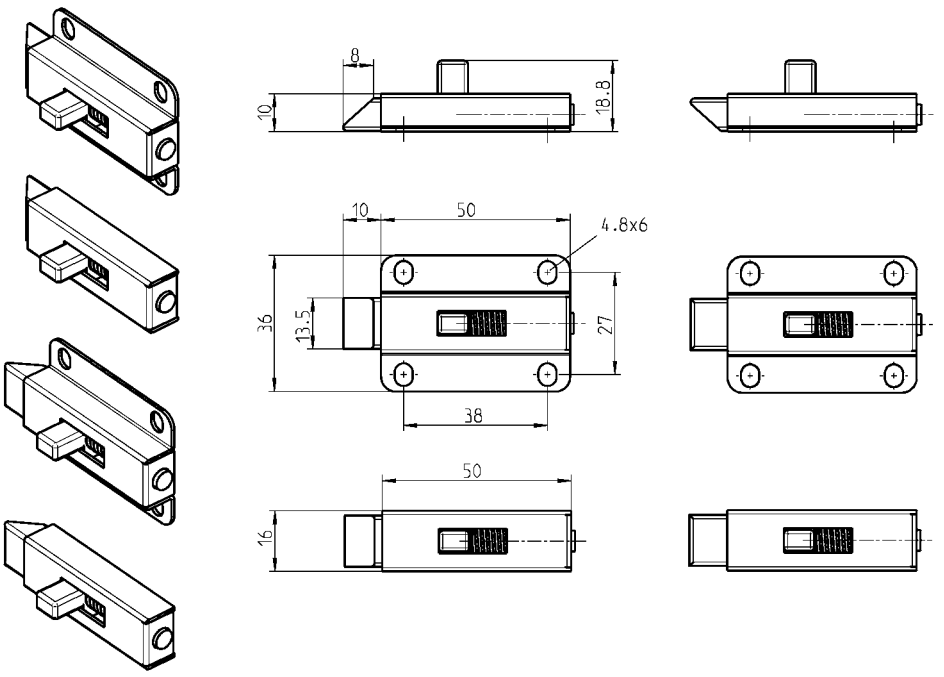
Slam-lock

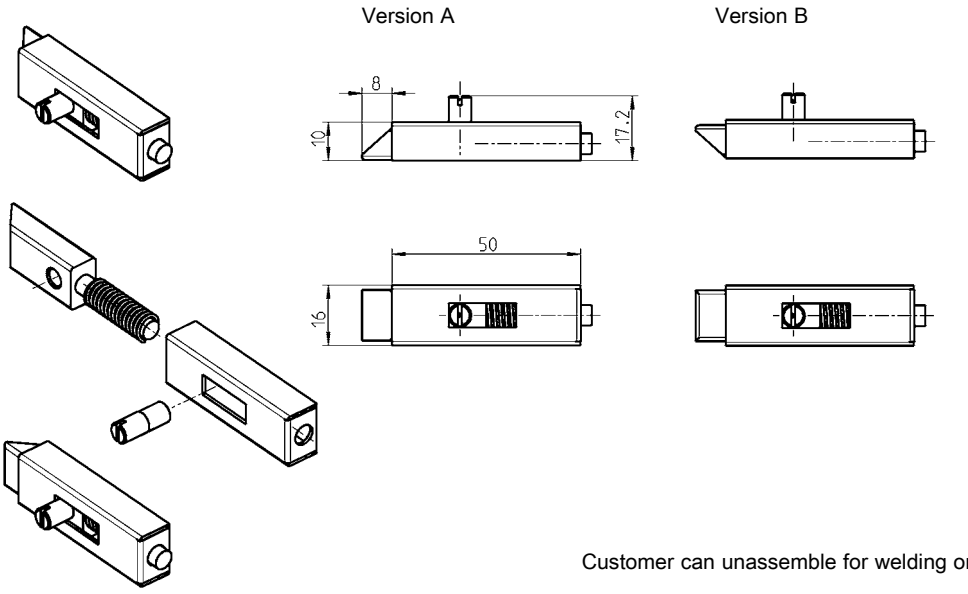
PROGRAM 1053







Slam-lock m.s. zinc plated resp. m.s. raw, locking bolt zinc die zinc plated		
	Version A	Version B
screw-on m.s. zinc plated	1053-U1	1053-U2
weld-on m.s. raw	1053-U3	1053-U4



Customer can unassemble for welding on

Slam-lock m.s. raw, locking bolt zinc die zinc plated		
	Version A	Version B
weld-on	1053-U5	1053-U6

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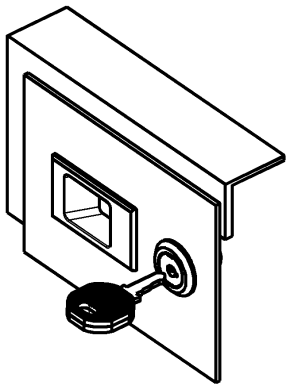
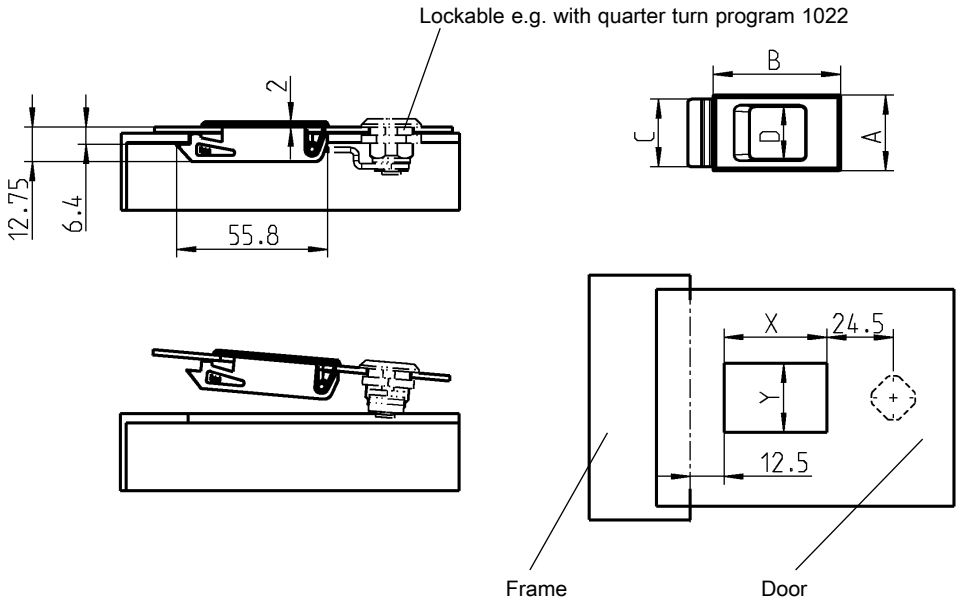
Slide latch, snap-in installation

PROGRAM 1091





Slide latch Polyamide black with spring m.s. zinc plated							
Size		Ts = 1,2 – 1,6			Ts = 1,75 – 2,2		
1		1091-U114-01			1091-U114		
2		1091-U115-01			1091-U115		
3		on request			1091-U116		
Dim.	**A**	**B**	**C**	**D**	**Door cut out**	**X**	**Y**
1	28	47	25	20	1	38	25,5
2	47	47	44	39,5	2	38	44,5
3	86	47	83	78,5	3	38	83,5

Fit for door gauge 1,2 up to 2,2 mm.

Further parts see page
– Quarter turn 1A-120 up to 1A-160

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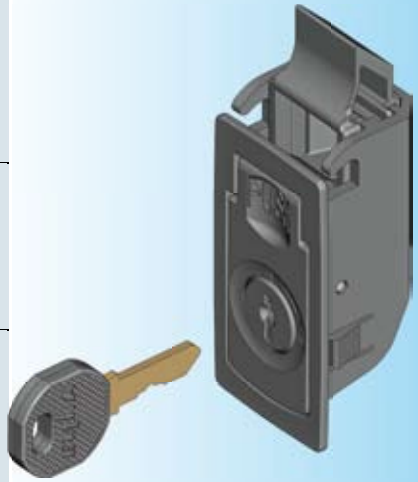
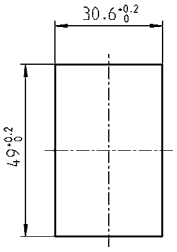
Side panel latch

PROGRAM 1091



open condition



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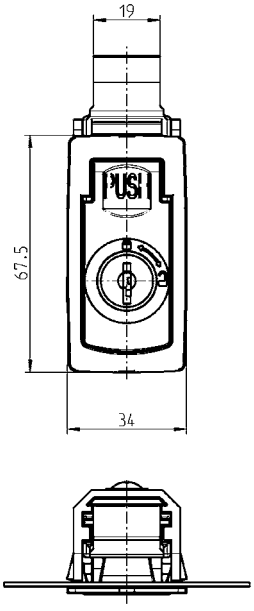

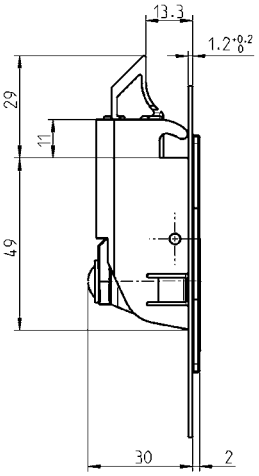

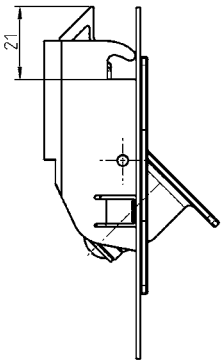

Side panel latch polyamide GF black, screw m.s. zinc plated Each cylinder has one silver steel key with polyamide GF grip black. Key removable in both positions	
keyed EK 333	1091-U143
keyed different	1091-U143-01V
Blank	1091-U143-02

Further parts see page
– Spare key 12B-140

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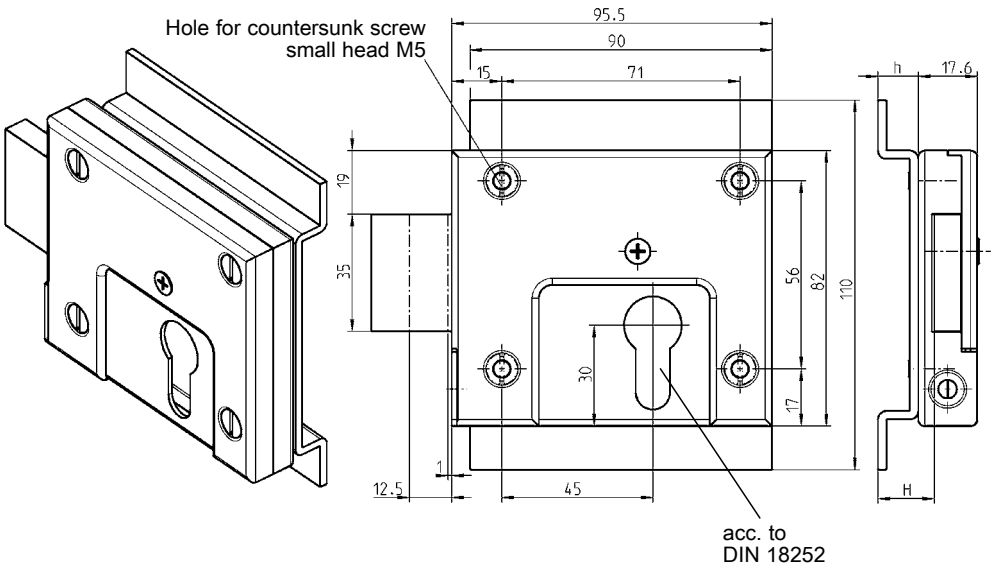
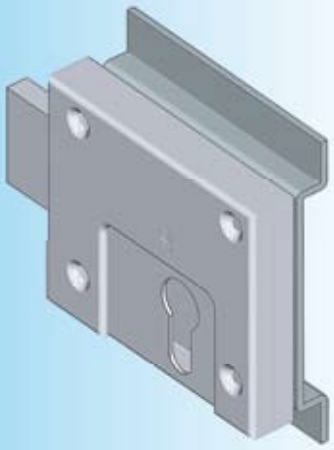
Dead-bolt lock

PROGRAM 1080

Dead-bolt lock



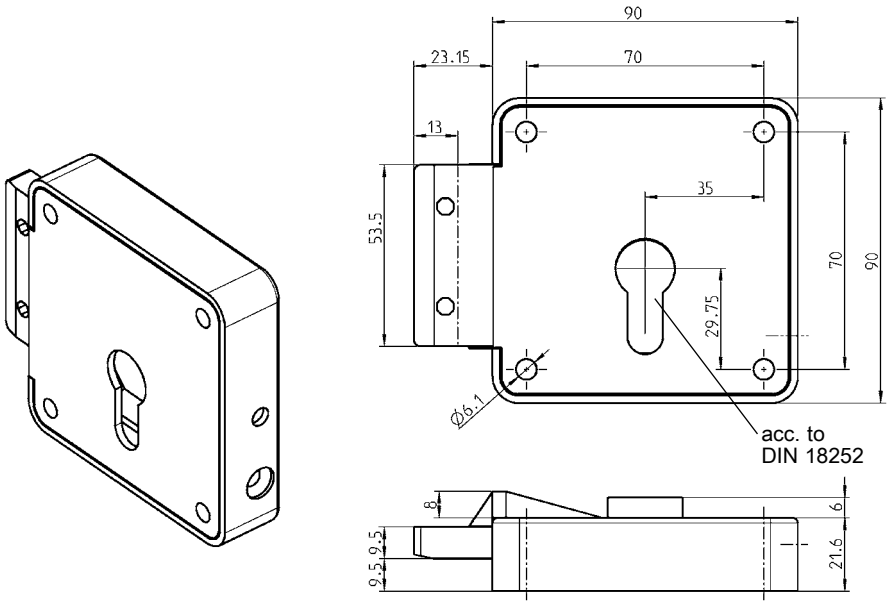


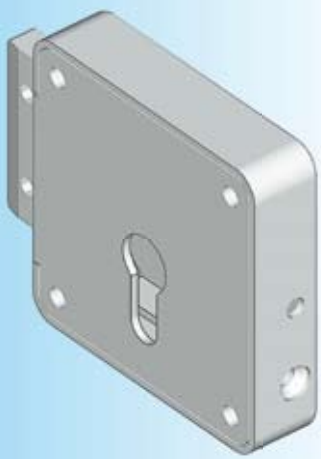
Dead-bolt lock for both LH/RH

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

Dead-bolt lock in plastic





Plastic dead-bolt lock, housing in polycarbonate, grey, cam in acetyl-resin, grey spring POM, grey	
	1080-U2

Further parts see page

– Profile half cylinder	2B-220
– Escutcheon	12D-120

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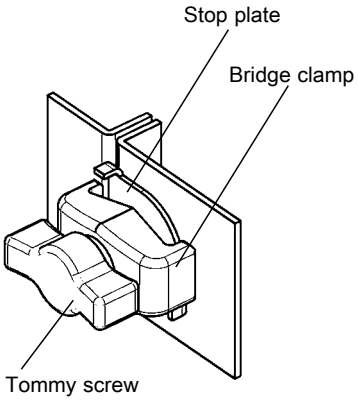
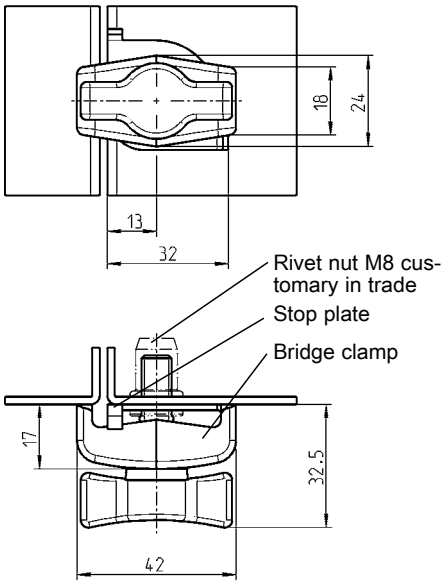
Bridge clamp system

PROGRAM 1076

Bridge clamp system

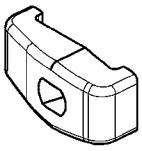


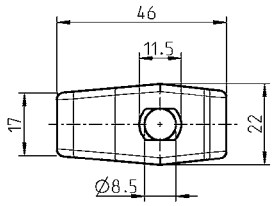


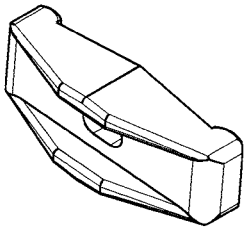
Bridge clamp system consisting of:	
Bridge clamp polyamide black	1076-14
Tommy screw m.s. zinc pl./polyamide black	1076-15
Stop bracket m.s. zinc. pl.	1076-16
Captive with:	
O-ring	1076-25

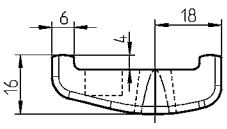
Bridge clamp

Version A

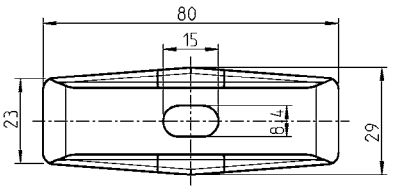


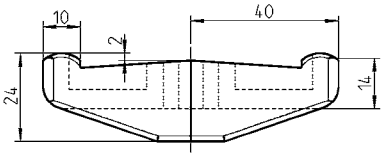






Version B





Bridge clamp polyamide black		
	Version A	Version B
	1076-19	1076-20

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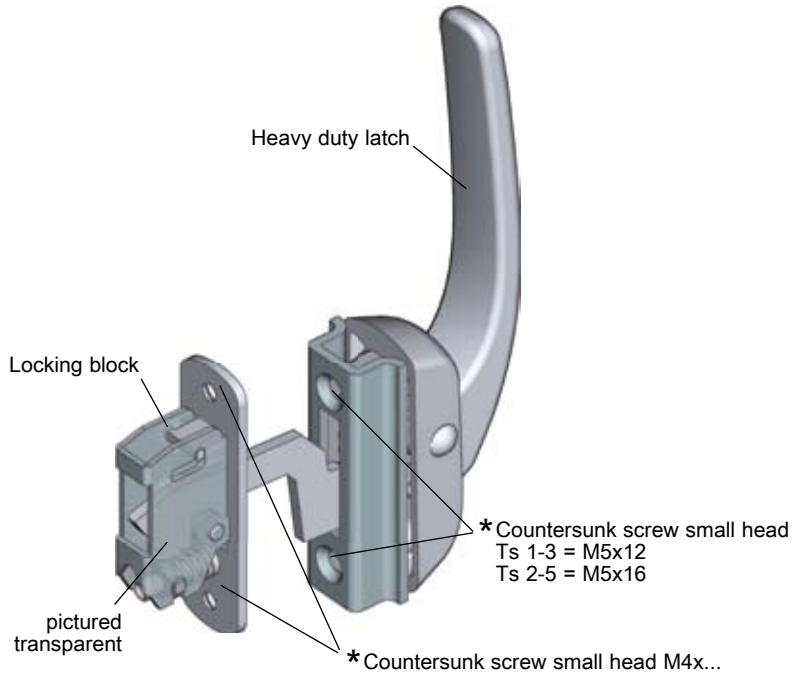
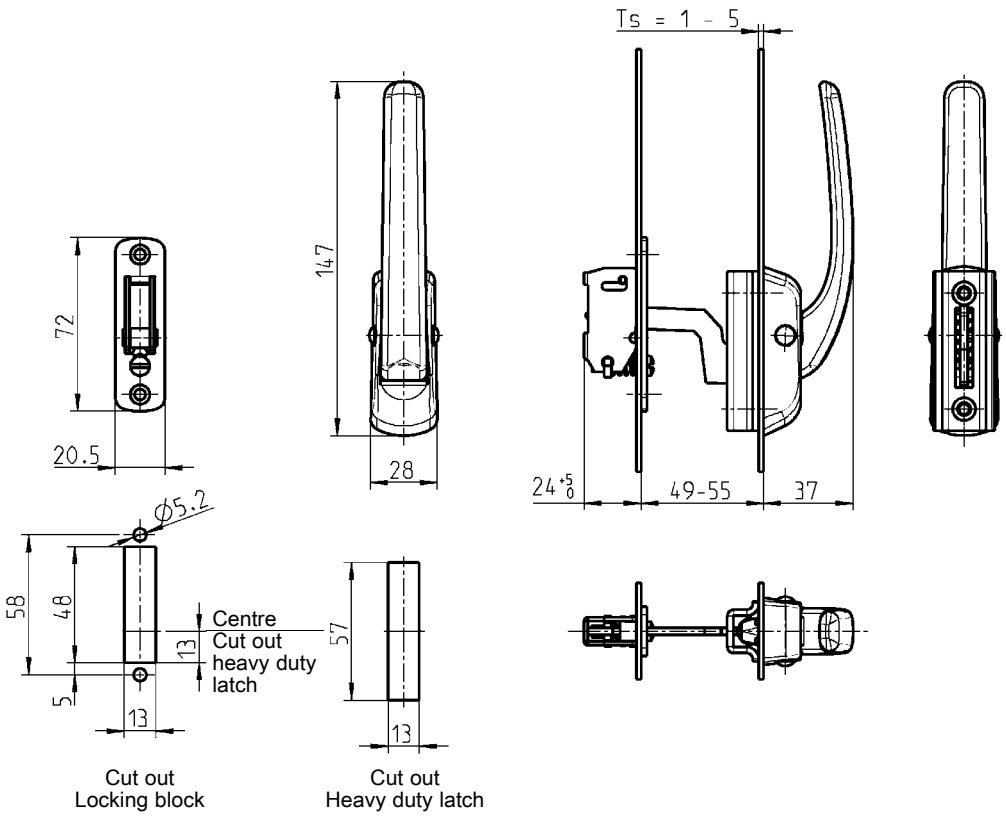
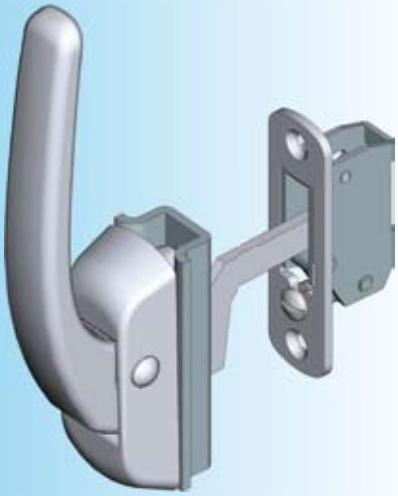
Heavy duty latch
with adjustable locking block

PROGRAM 2074

EMKA Beschlagteile







* not included

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

Heavy duty latch zinc die chrome plated, cam AISI 304 chrome plated, fastening bracket and spring setting AISI 304, with spring	
	2074-U372-137IK
Locking block AISI 304 chrome plated, U-frame and adjusting screw AISI 304, roller and setscrew AISI 303, with spring	
	2074-U372-156IK

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EMKA

Beschlagteile

®Edgemount mechanical latch for lateral assembly

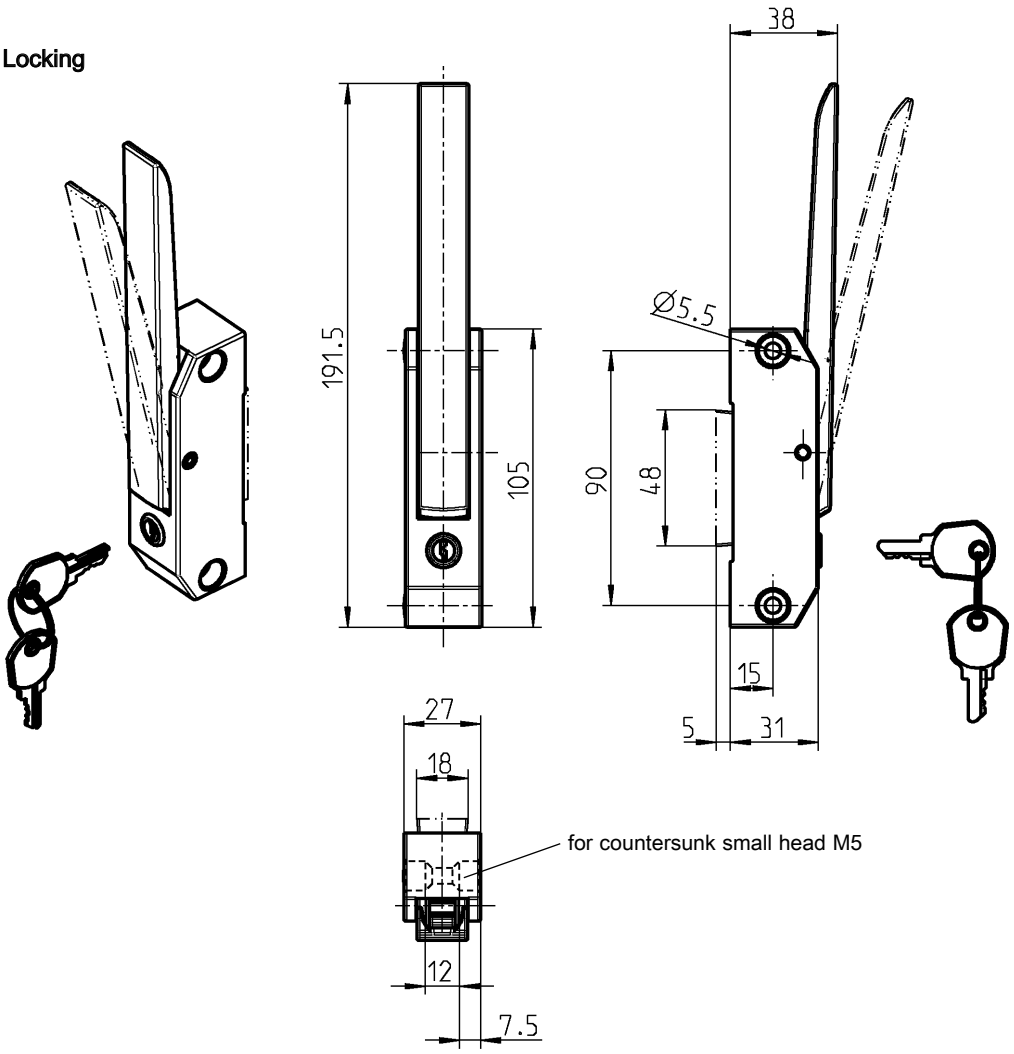
PROGRAM 2074

RL

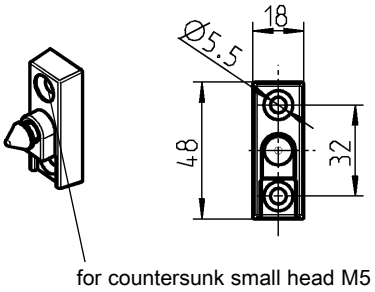
Application area:
the latch can be attached e.g. at refrigerators

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

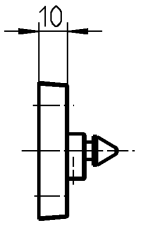
Locking



Strike with adjustable striker pin

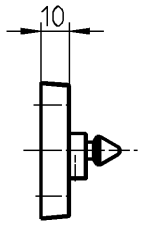


Version A



The door can not be pushed open from inside.

Version B



The door can be pushed open from inside, if the round cylinder is not closed. (chamfered striker pin)

Latch zinc die gloss chrome plated, clamp and other components zinc plated thick-film passivated and Top Coat sealed, two plugs polyethylene grey, with spring. Each round cylinder has two silver steel nickel plated keys at a ring.	
non locking	2074-U130-IK
keyed different	2074-U132-IK
same closure	on request
Striker pin stainless steel, strike zinc die chromium plated, setscrew m.s. zinc plated	
Version A	2074-U111-IA
Version B	2074-U113-IA

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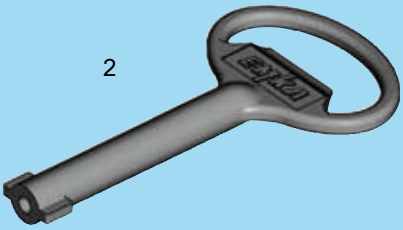
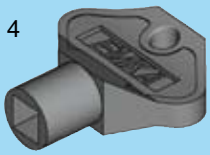
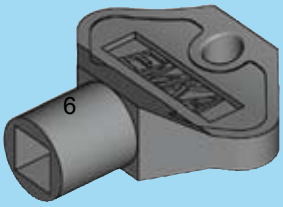
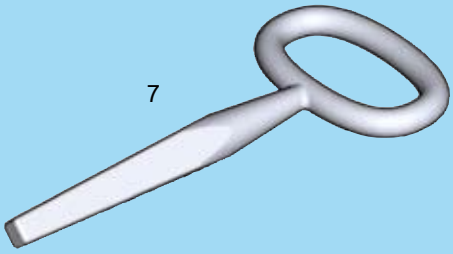
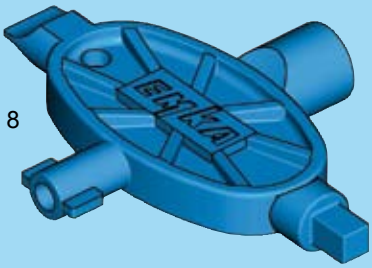
Key
Program 1004, 1108

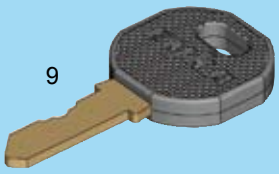








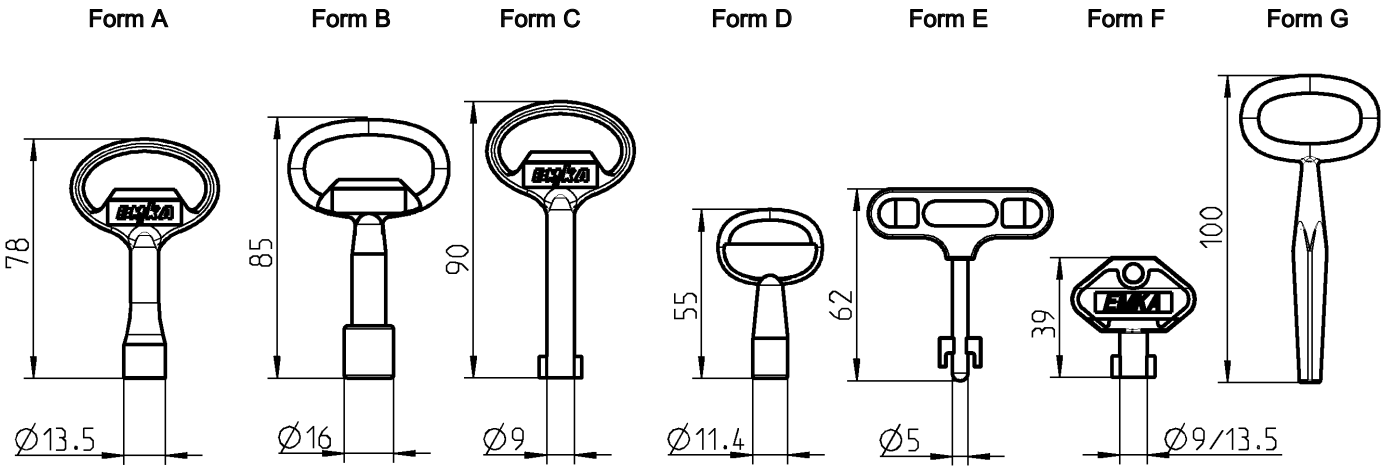




1	Key, large e.g. square	12B-120
2	Key double bit large	12B-120
3	Key, small e.g. square	12B-120
4	Key, small e.g. square	12B-120
5	Key double bit small	12B-120
6	Key FIAT	12B-120
7	Key square male 6,5 – 8,5	12B-120
8	Key universal	12B-120
9	EMKA-key example keyed EK 333	12B-140

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 black	Polyamide black	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 6.5 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	–	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 hole	1004-49	–	–	–	–	–	–
Tube	–	–	–	1004-51	–	–	–

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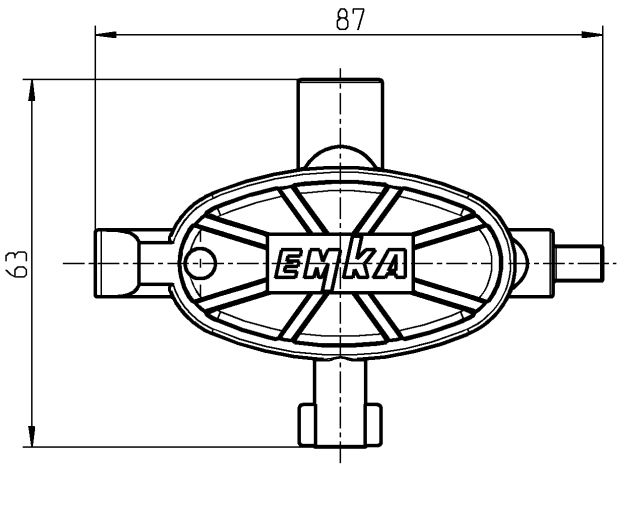
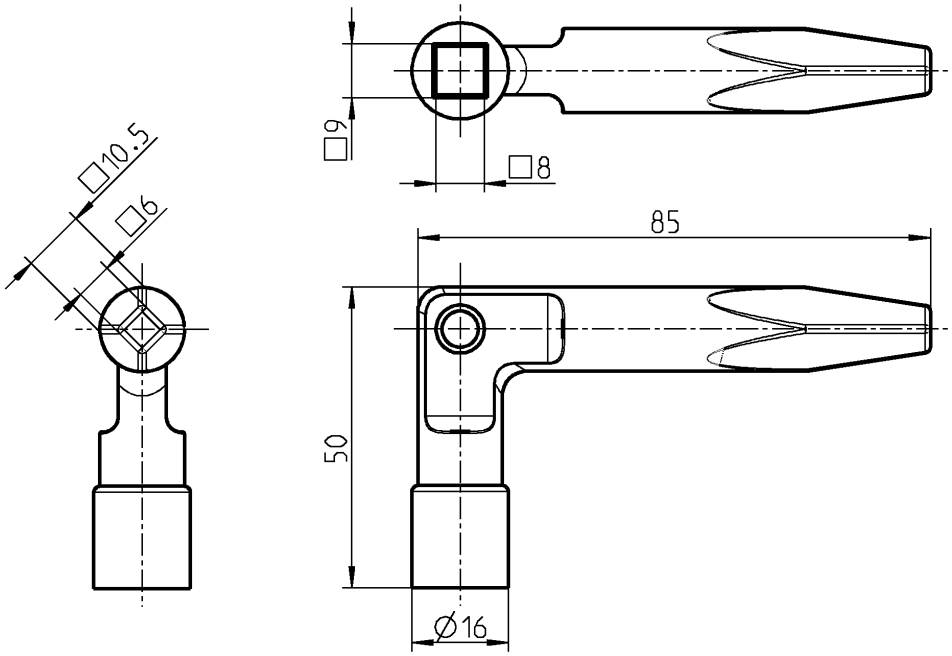
Form H

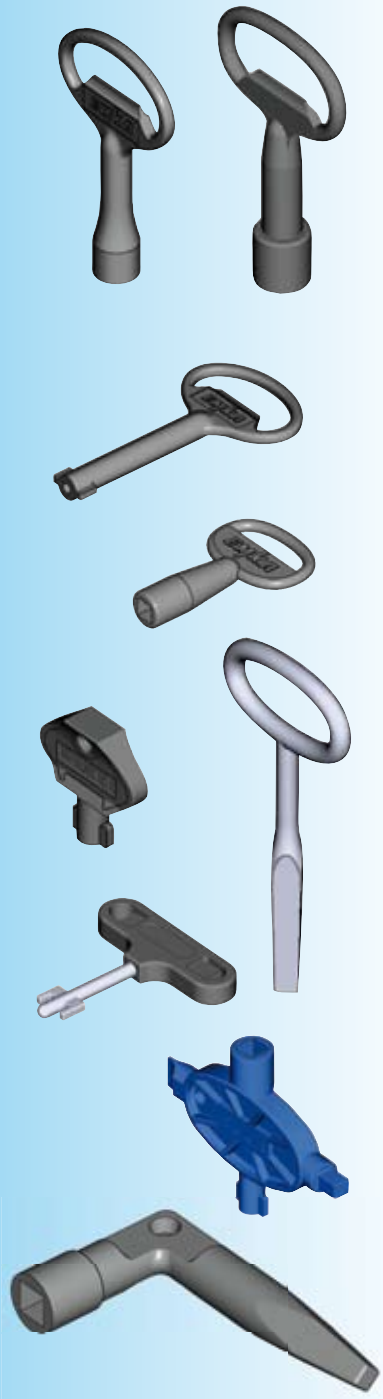


Form H, universal-key polyamide blue	
Square male 6, Square 8, Double bit 5 and slot insert	1004-48

Form I



Form I, railway version, zinc die black	
Square 8 - 9, square male 6 - 10,5	1004-52



Attention:
Keys of form A, B, C, E, F, G and I not siutable for program 1022

Stainless steel key
on request

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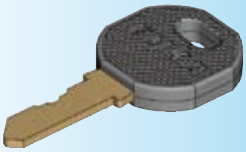
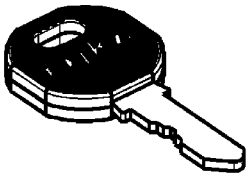
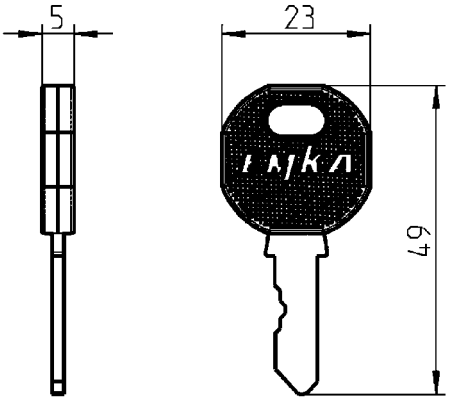
Beschlagteile

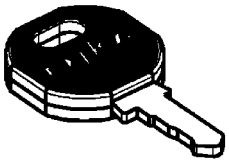
EMKA-key

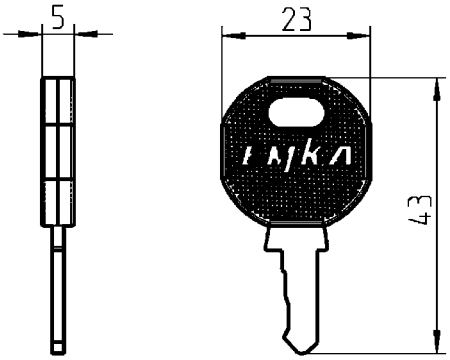
PROGRAM 1108











EMKA-key silver steel with grip polyamide black for program 1000, 1048, 1091, 1109, 1121, 1125, 1150, 1160, 1180, 1200, 1210, 1225, 2100, 2300, 2400, 2600	
keyed EK 333	1108-U35
keyed different	1108-U36-different
for program 1022, 1109, 1200, 2100, 2400	
keyed 2233X	1108-U37
keyed different	1108-U38-different

Note:
Further keys on request

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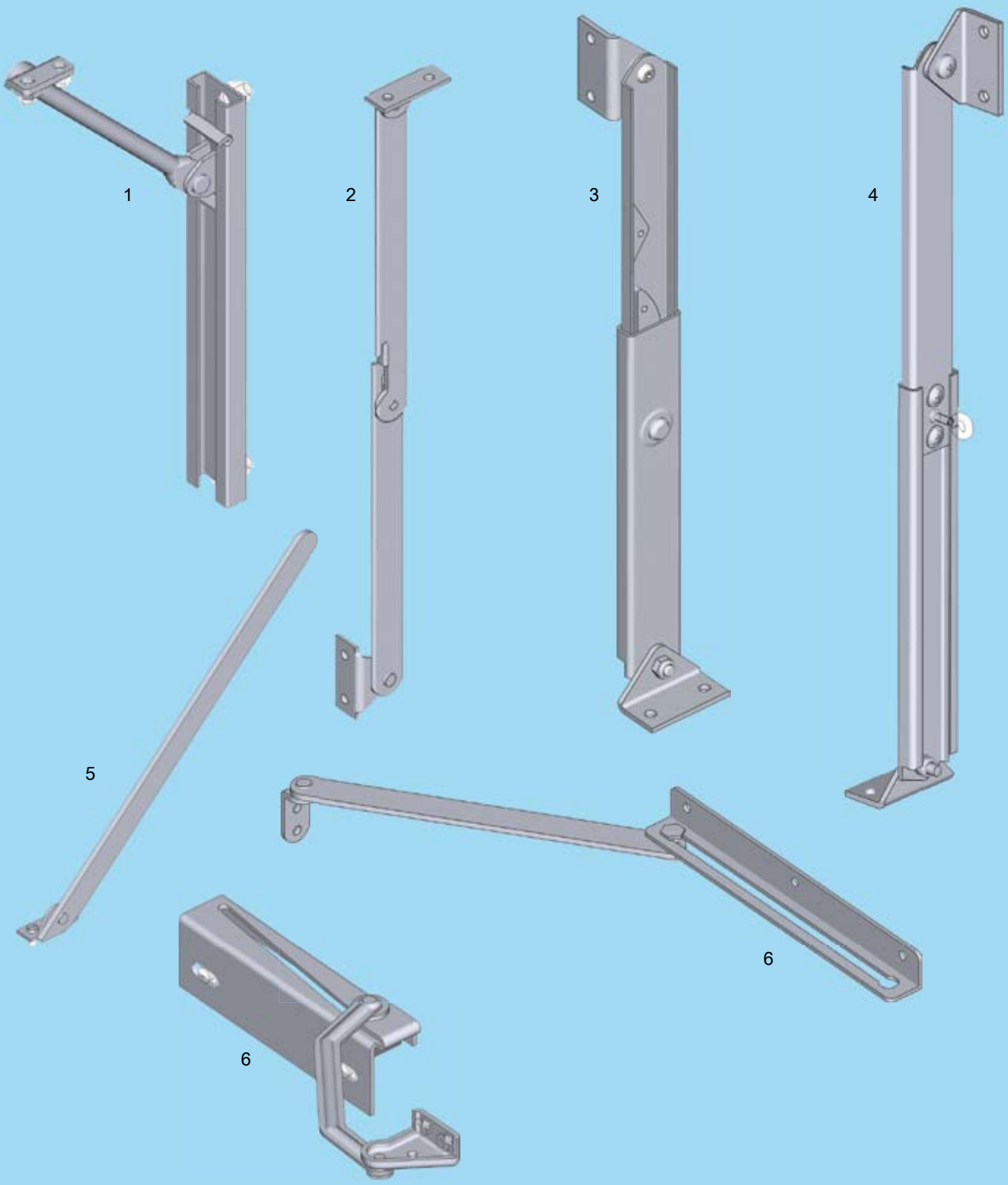
Cover stay and door stop

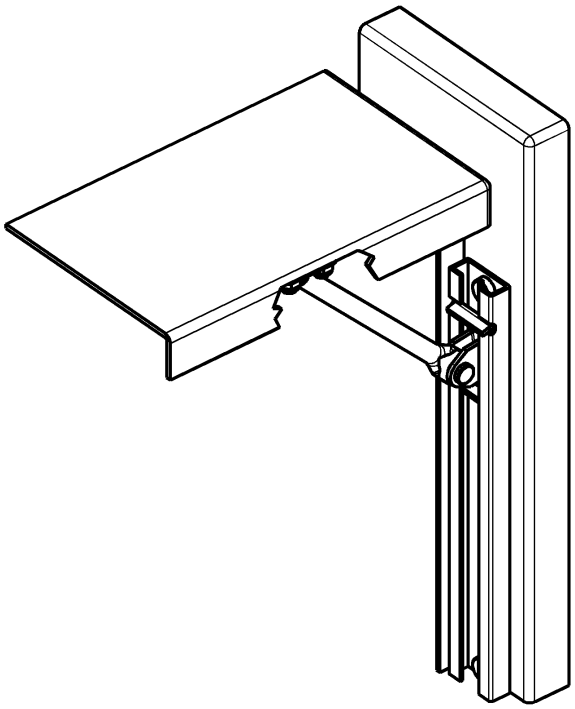


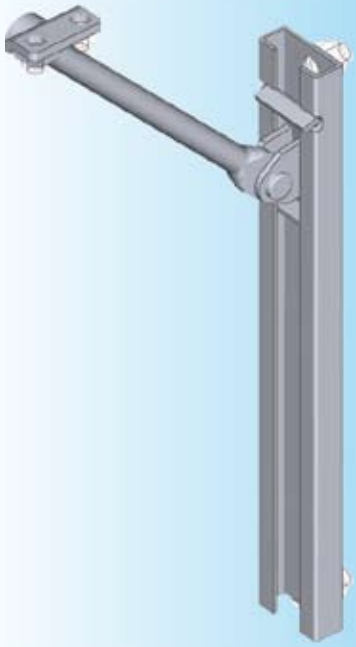
1	Double stay self catching	12C-120
2	Cover stay with locking pawl	12C-180
3	Telescopic cover stay self catching	12C-160
4	Telescopic cover stay self catching and with push button	12C-140
5	Cover stay	12C-180
6	Door stop	12C-220

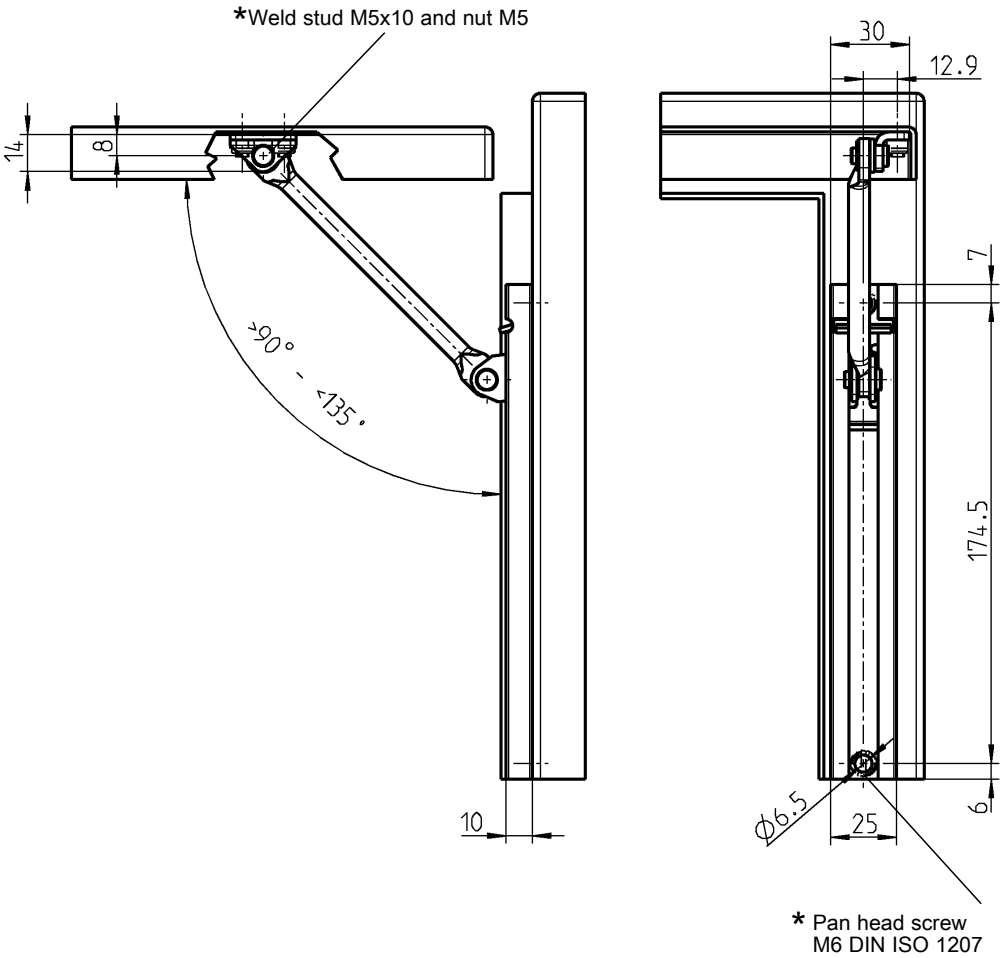
Cover stay

PROGRAM 1050

RL







* not included

The opening angle of 90°–135° dependes on the choice of hinges.

Further parts see page
– Hinge for prominent door — Chapter 4

Cover stay m.s. zinc pl.

1050-U3

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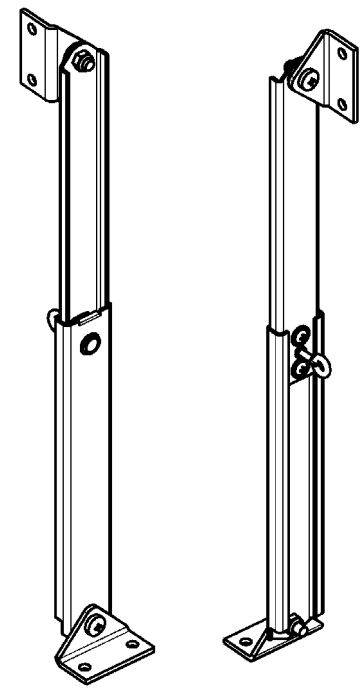
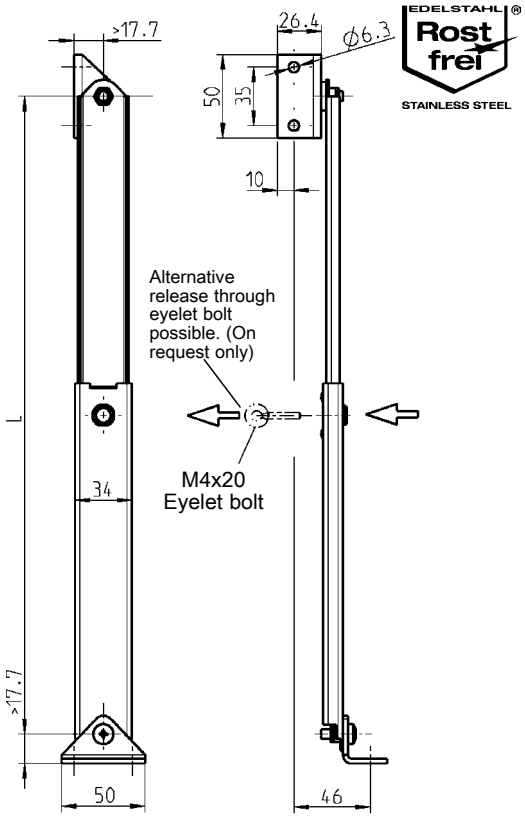
Telescopic cover stay with push button to release

PROGRAM 1097

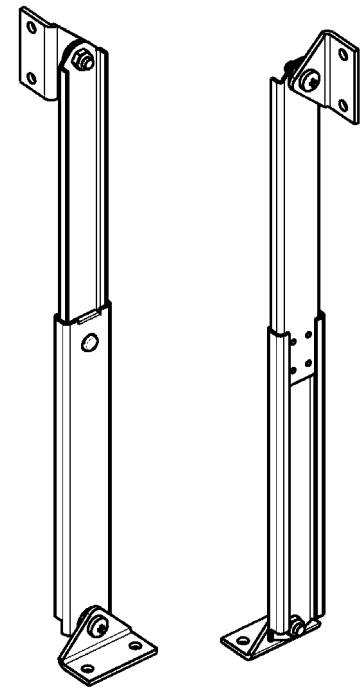
RL | 2D | INOX AISI 3..

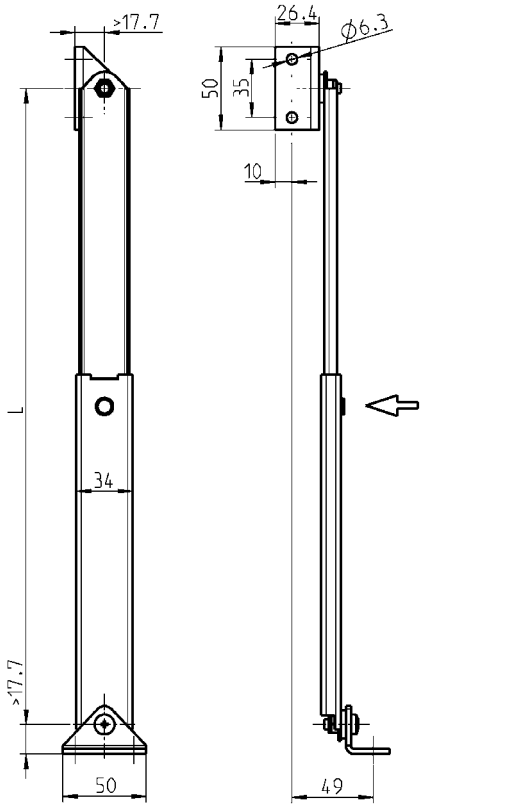
Telescopic cover stay m.s. zinc plated

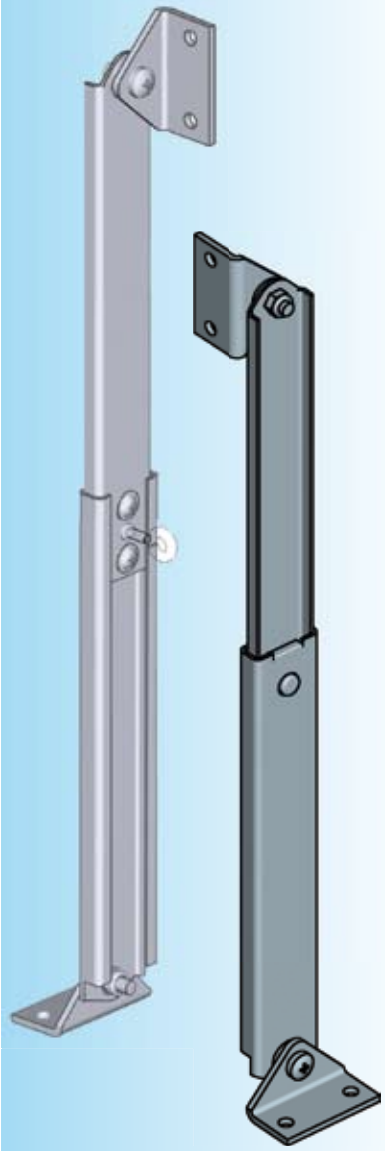




Telescopic cover stay stainless steel







Telesopic cover stay m.s. zinc pl., push button zinc die chrome pl.			
	retracted	extended	
Dimension L	213	382	1097-U5
Dimension L	377	710	1097-U6
Telescopic cover stay AISI 304, push button AISI 303			
Dimension L	213	382	1097-U5-PC

Further parts see page
– Hinge for prominent door
– 2D-nut

Chapter 4
12E-120

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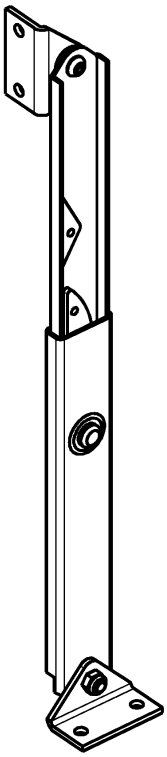
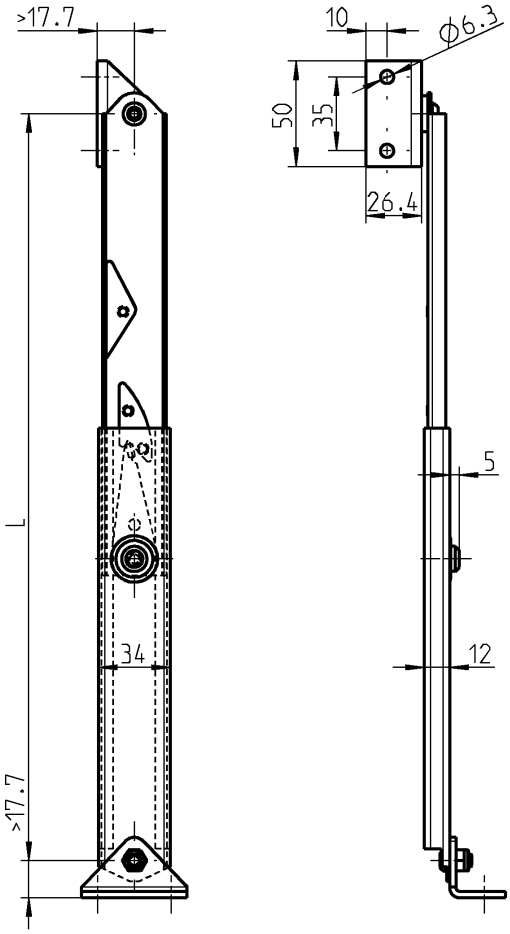
Beschlagteile

Telescopic cover stay

PROGRAM 1097

RL 2D





Further parts see page
– Hinge for prominent door — Chapter 4
– 2D-nut — 12E-120

Telescopic cover stay m.s. zinc plated			
	retracted	extended	
Dimension L	215	360	1097-U1
Dimension L	398	685	1097-U2

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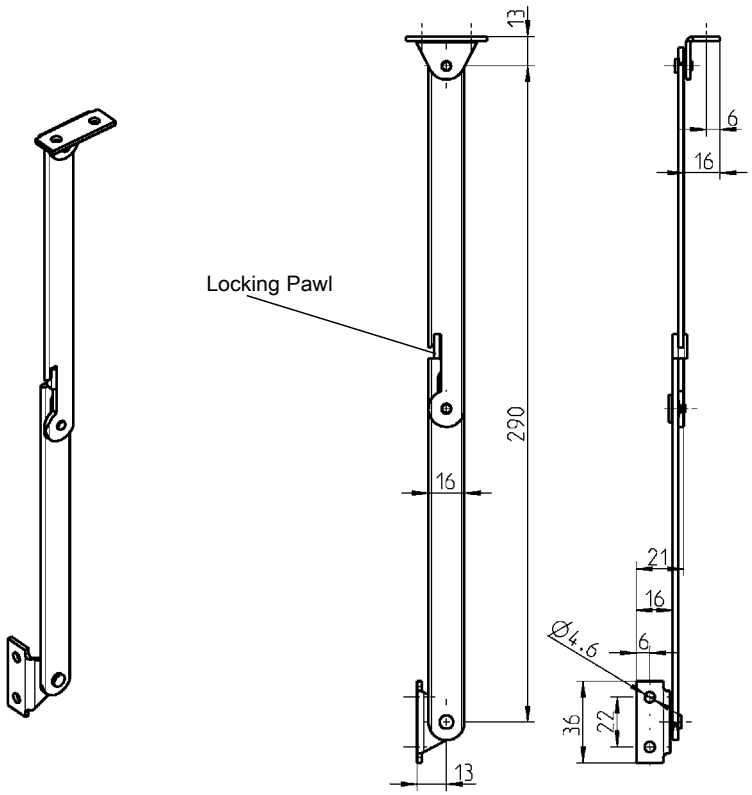
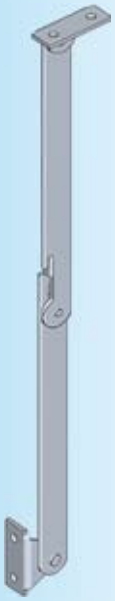
Cover stay

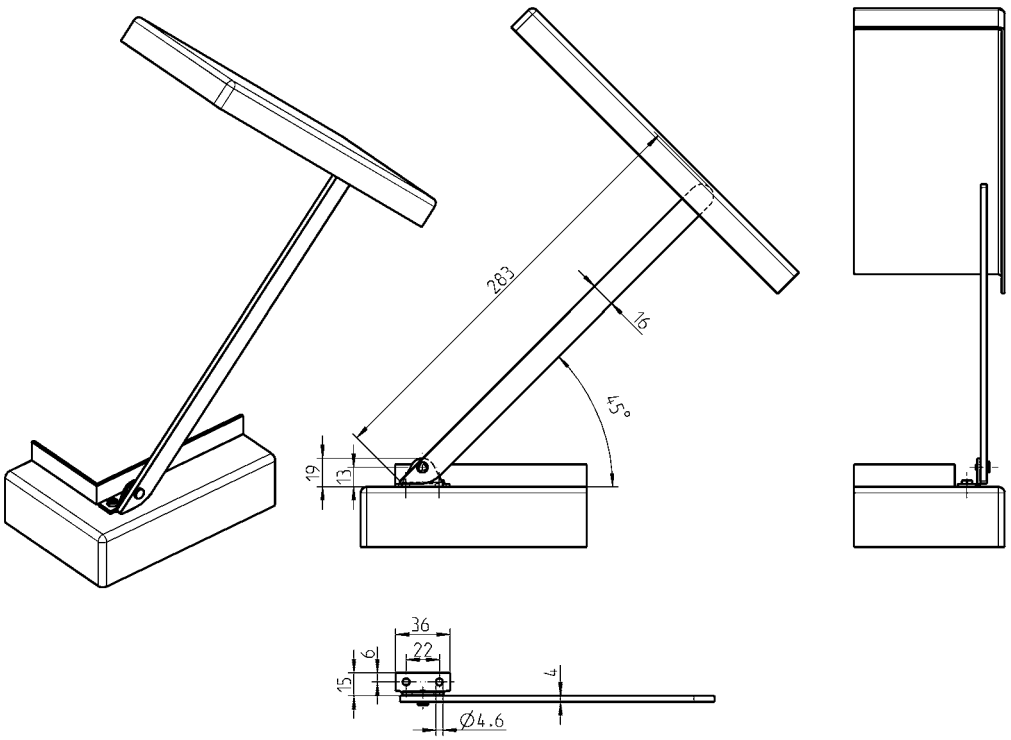
PROGRAM 1050, 1070

RL





Cover stay m.s. zinc plated	
RH	1050-U1
LH	1050-U2



Cover stay m.s. zinc plated	
RH	1070-U1
LH	1070-U2

Further parts see page
– Hinge Chapter 4

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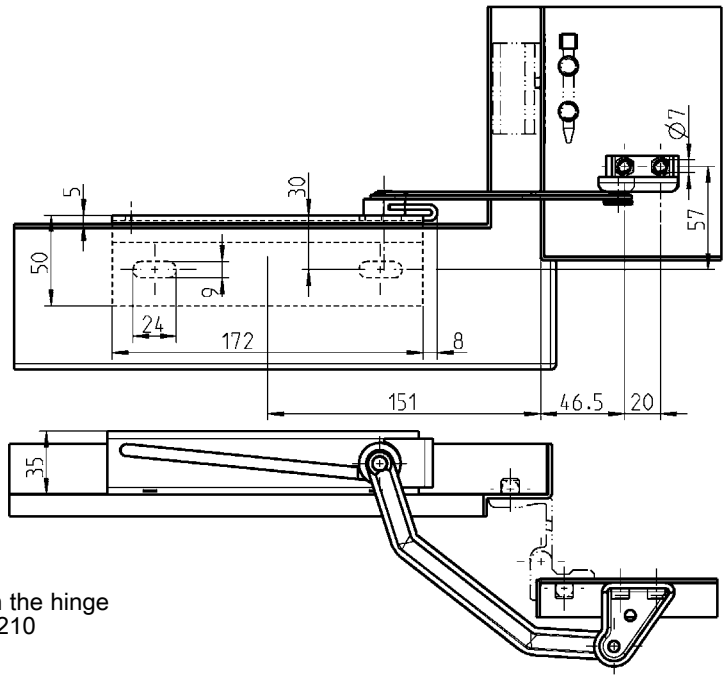
Door stop

PROGRAM 1087

R L RL

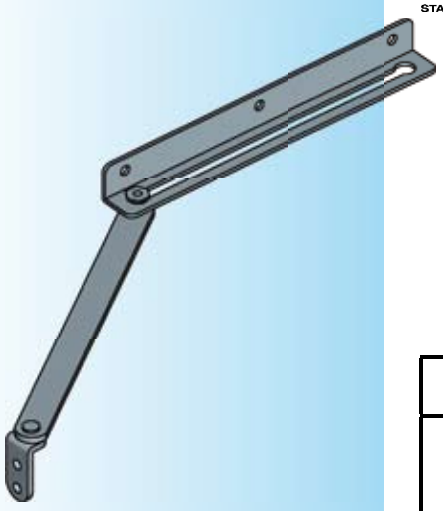
2D INOX AISI 3..

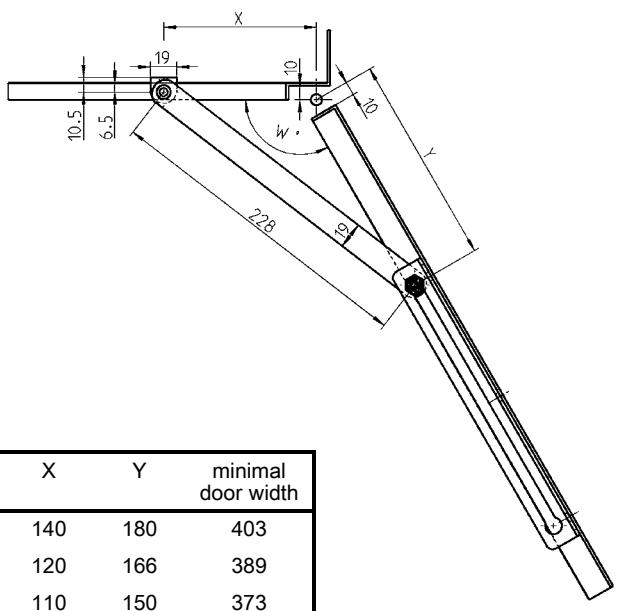


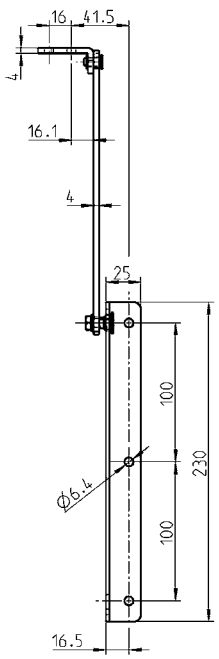
Attention:
For fitting with the hinge
see page 4A-210

180° Door stop m.s. zinc plated, guide plate polyamide GF black	
RH	1087-U2
LH	1087-U3

EDELSTAHL® Rostfrei STAINLESS STEEL







W	X	Y	minimal door width
90°	140	180	403
105°	120	166	389
120°	110	150	373
135°	100	146	369

in case of other variations
y = x + >40

Door stop m.s. zinc plated	
(2D-nut possible)	1087-U1
Door stop AISI 304, locking bush and rivet AISI 303	
(2D-nut possible)	1087-U1-PC

Further parts see page
– Hinge for prominent door — Chapter 4
– 2D-nut — 12E-120

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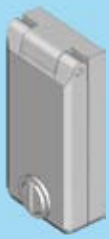
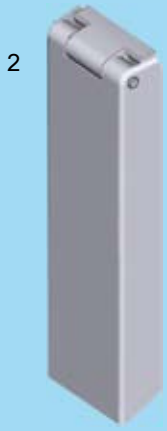
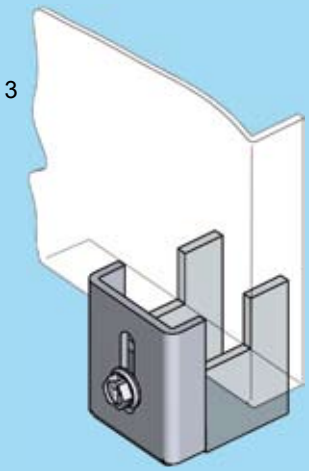
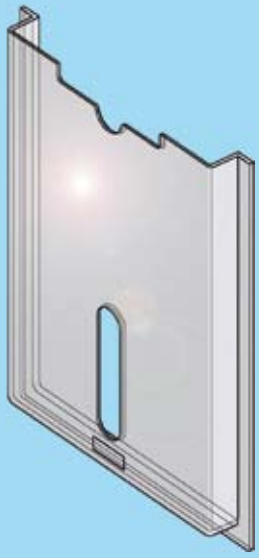
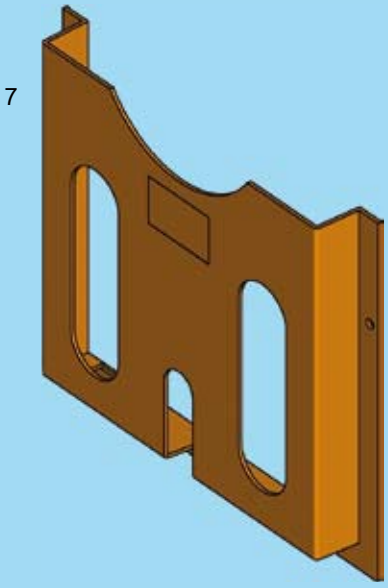
Accessories
Escutcheon, panel mounting device, cable shunting ring, drawing pocket, window

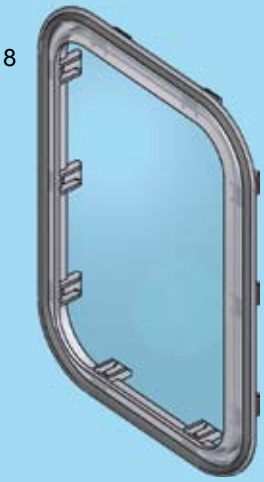












1	Escutcheon e.g. for profile half cylinder	12D-120
2	Escutcheon e.g. in conjunction with Program 1068	12D-120
3	Panel mounting device for fitting panels, back plates etc	12D-220
4	Cable shunting ring	12D-320
5	Cable grommet	12D-320
6	Drawing pocket transparent	12D-420
7	Drawing pocket e.g. for DIN A4 format	12D-420
8	Window	12D-520, 12D-540

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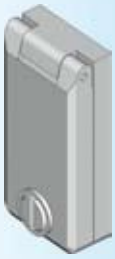
Escutcheon

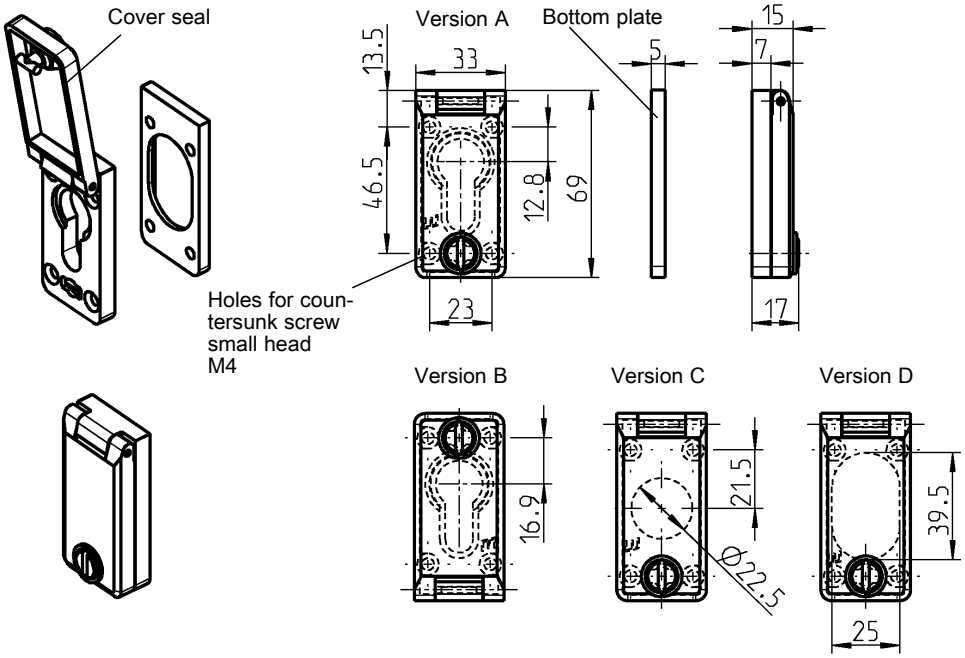
PROGRAM 1072, 1018

RL

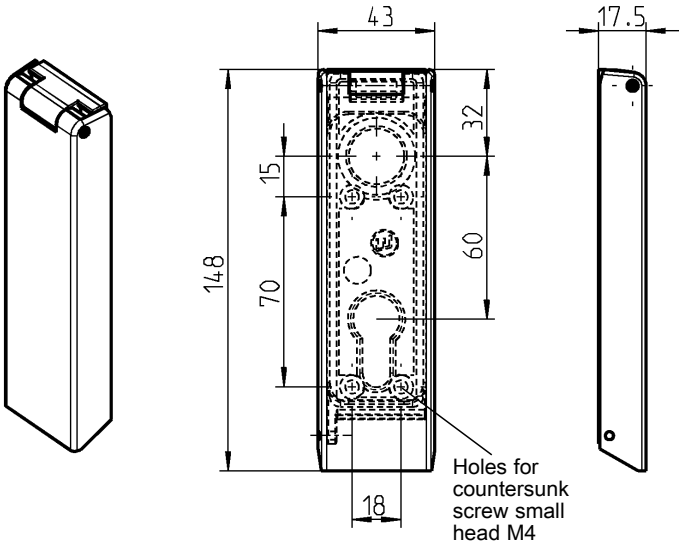


small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

Further parts see page
– suitable for rod system 2A-120
2B-140



Escutcheon in grey polyamide, RAL 7032			
Version A for profile half cylinder	1072-U1	Version A for profile cylinder, sealable	1072-U11
Version B for profile half cylinder	1072-U13	Version B for profile cylinder, sealable	1072-U12
Version C with round hole Ø 22,5	1072-U15	Version C with round hole Ø 22,5, sealable	1072-U14
Version D with universal hole	1072-U16	Version D with universal hole, sealable	1072-U17
Bottom plate, grey polyamide			1072-01
Bottom plate seal, sponge rubber			1072-02
Cover seal, sponge rubber			1072-03



Escutcheon zinc die silver, sealable and waterspray protected, with gasketing	
	1018-U1

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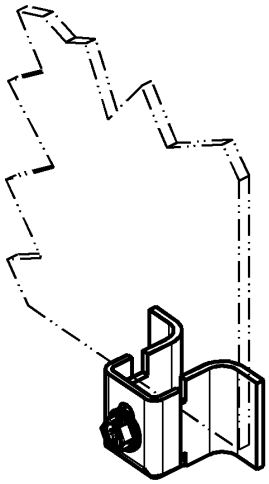
Panel mounting device

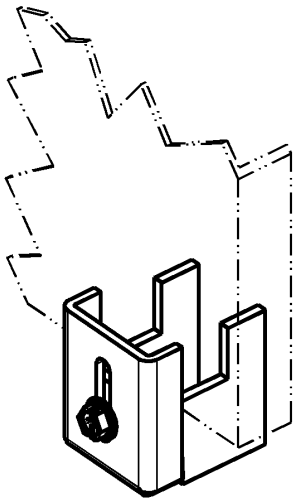
PROGRAM 1051

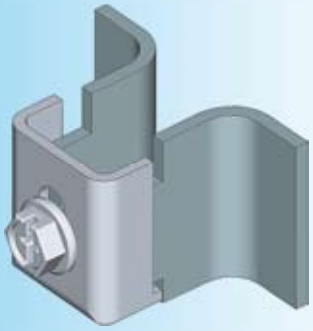
RL

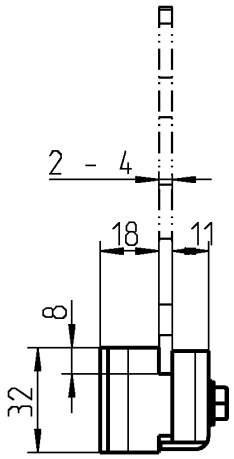
Version A

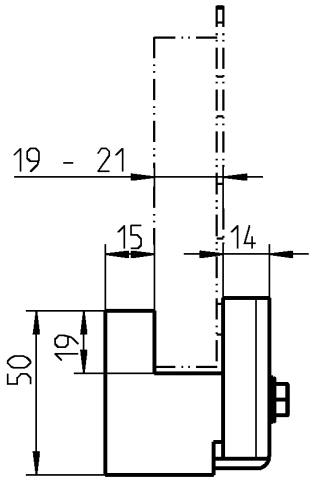


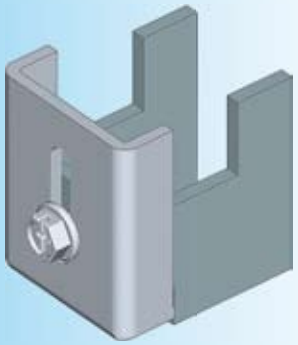
Version B

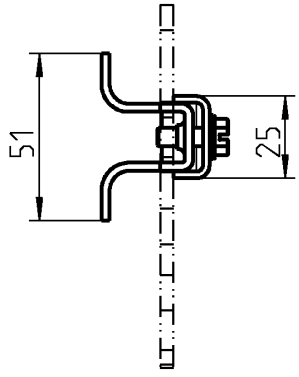


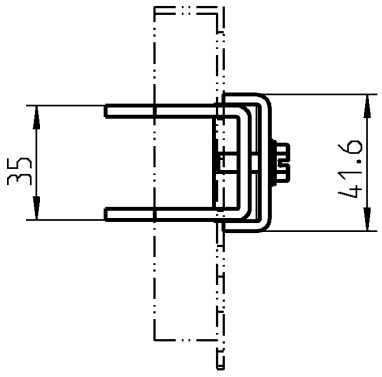












Panel mounting device m.s. zinc plated, weld-on part m.s. raw		
	Version A	Version B
	1051-U2	1051-U1

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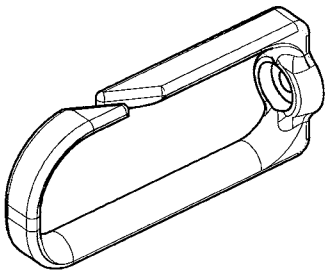
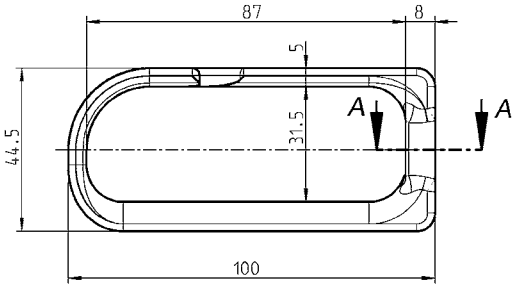
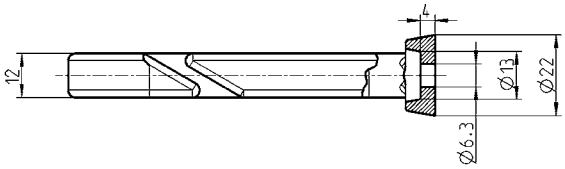
Cable shunting ring, cable grommet

PROGRAM 1071

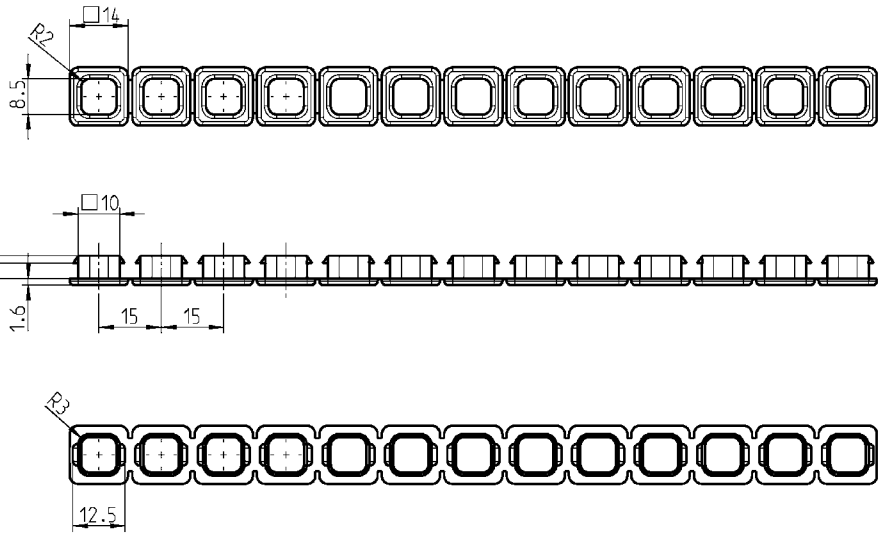
RL







Cable shunting ring polyamide V0 black	
fixing material M6	1071-01



Cable grommet low density polyethylene black	
Bar of 13 pieces	1071-U1

Further parts see page
– Electronic locking systems
Chapter 11

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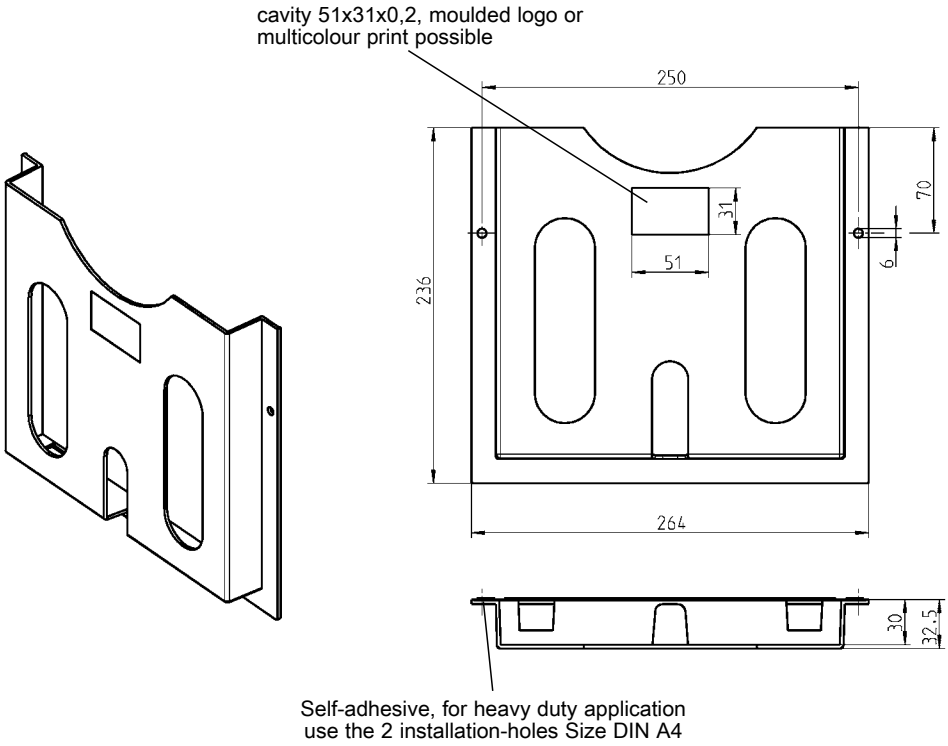
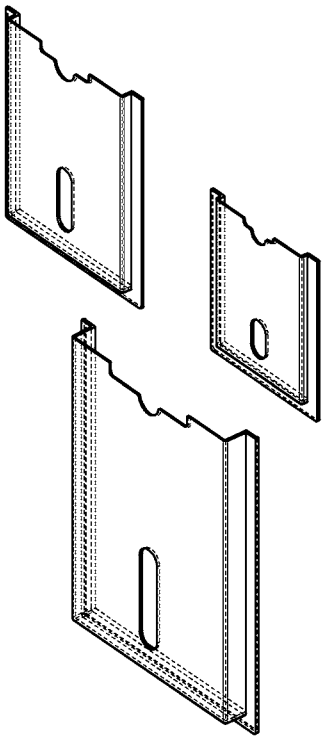
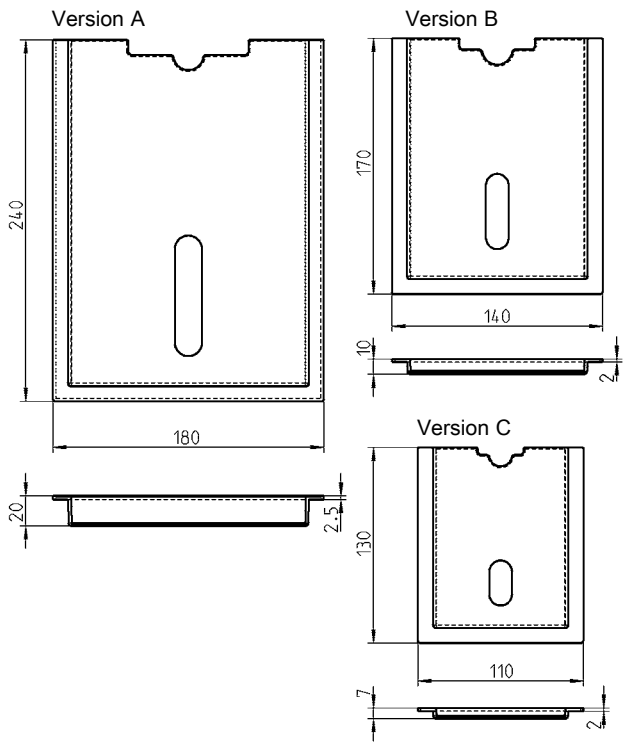
Drawing pocket

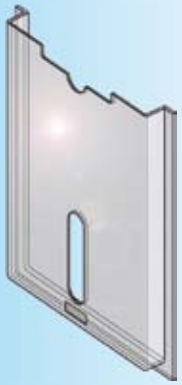
PROGRAM 1013



Drawing pocket PS impact proof, self-adhesive	
grey	1013-U1
orange	1013-U2







Drawing pocket SAN, transparent, self-adhesive	
Version A	1013-U5
Version B	1013-U4
Version C	1013-U3

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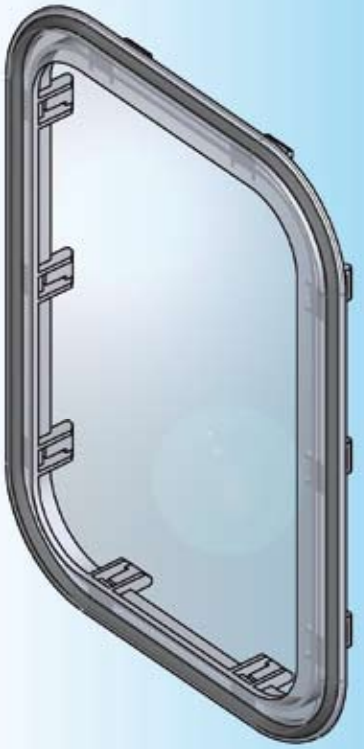
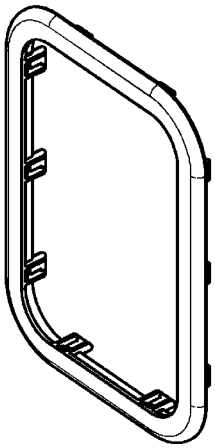
Window

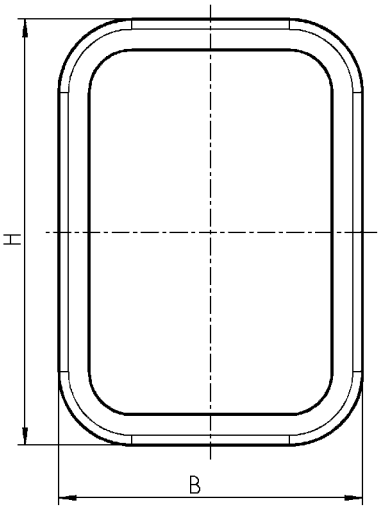
PROGRAM 1250

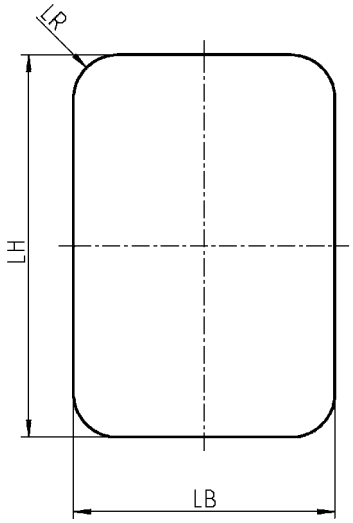
RL

IP 54









Cut out

Clip-in window polycarbonate glass clear, with gasketing						
H	B	LH	LB	LR	Ts	
110	110	94,4	94,4	6	1,5	1250-U1
110	110	94,4	94,4	6	2	1250-U3
175	125	157,2	107,2	20	1,5	1250-U2

Other sizes on request

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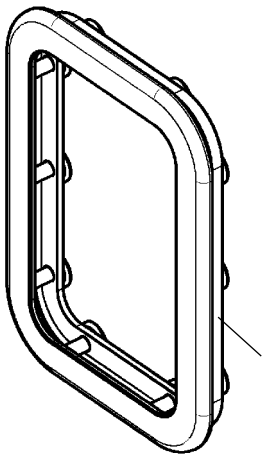
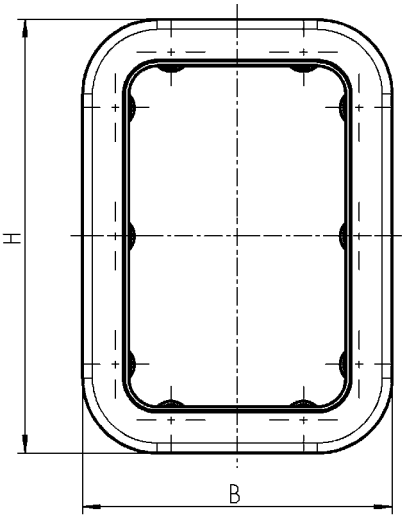
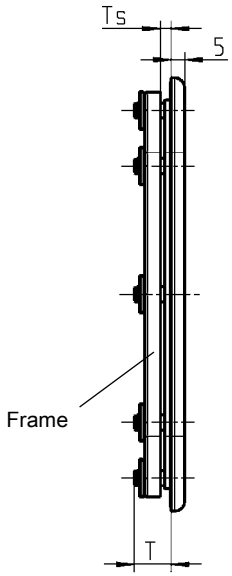
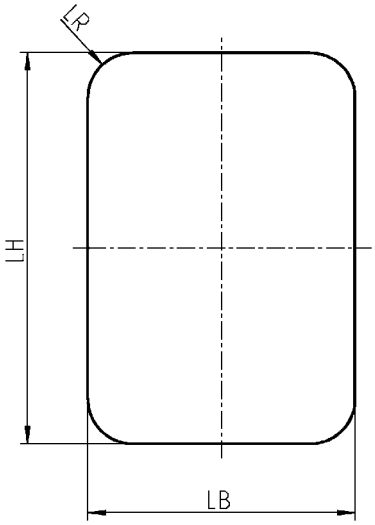
Window

PROGRAM 1250



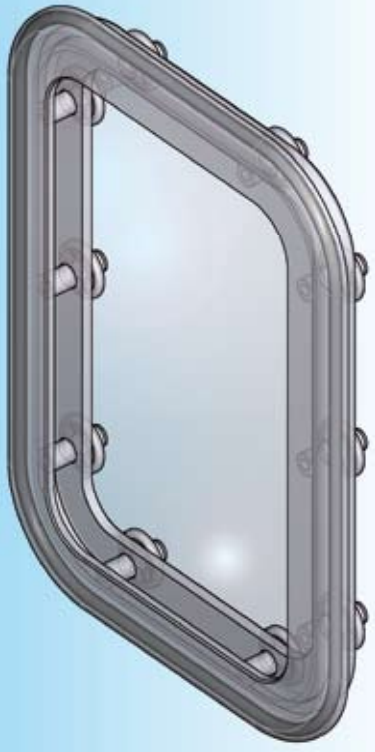






Cut out

Window polycarbonate glass clear, star lock washer m.s. zinc plated, with seal							
H	B	T	LH	LB	LR	Ts	
Window without frame							
110	110	17	95,5	95,5	6	3 - 13	1250-U4
175	125	15	156,5	107	20	3 - 12	1250-U6
Window with frame polycarbonate							
110	110	17	95,5	95,5	6	< 5	1250-U5
175	125	15	156,5	107	20	< 6	1250-U7



Other sizes on request

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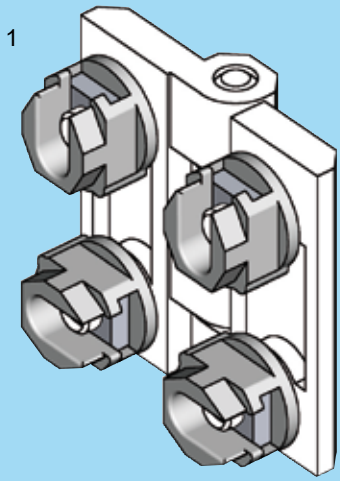
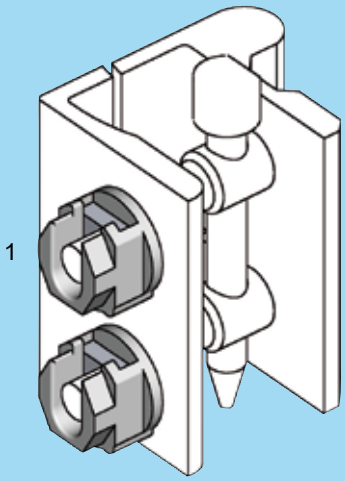
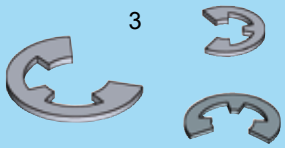
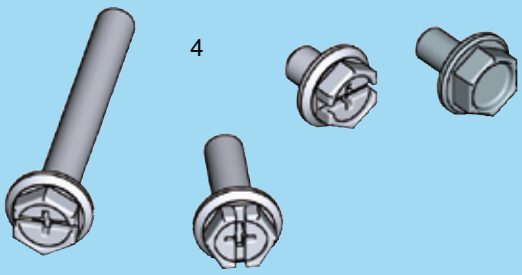
Notes:

Fixing material





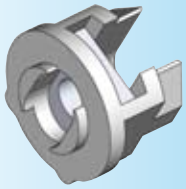




1	2D-nut example for assembling hinge	12E-120
2	Nut for program 1000, 1001, 1022, 1102, 1103 und 1107	12E-140
3	Circlip DIN 6799	12E-140
4	Vibration proof screw with and without loctite	12E-160

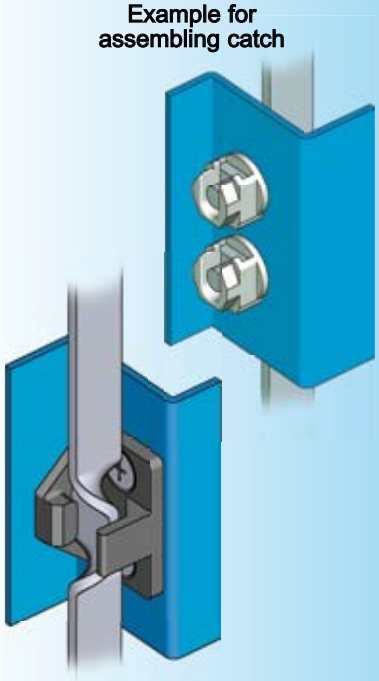
2D-nut example for assembling hinge

PROGRAM UNIVERSAL

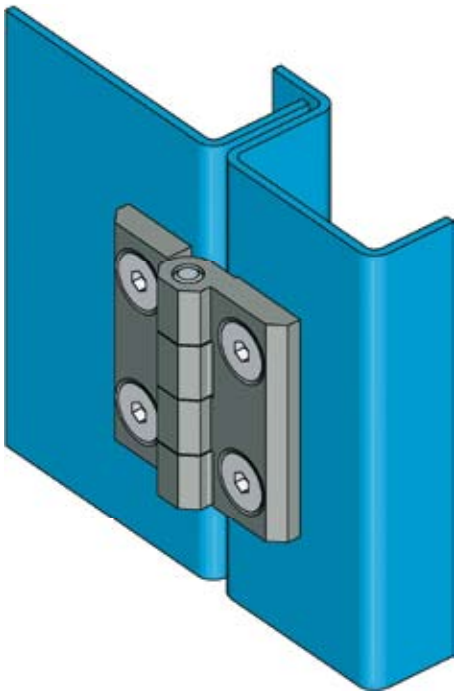


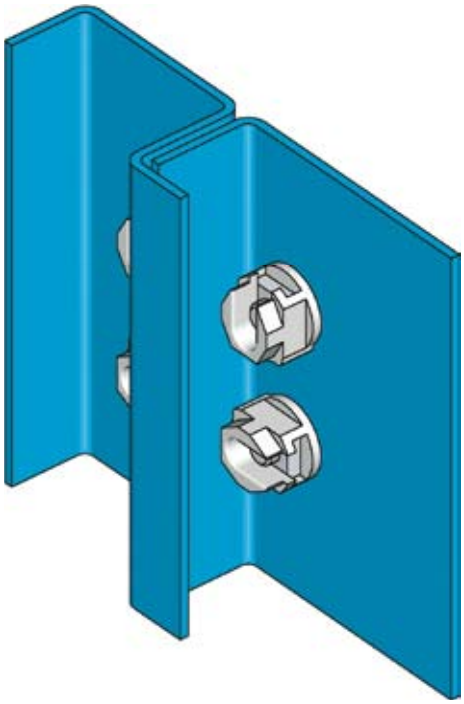
Cut out
Ø10

Example for assembling catch

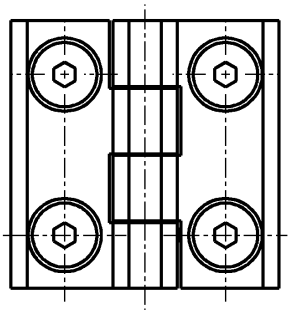


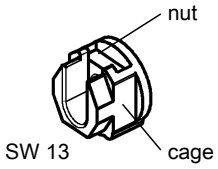
Example
for assembling hinge for in-line door

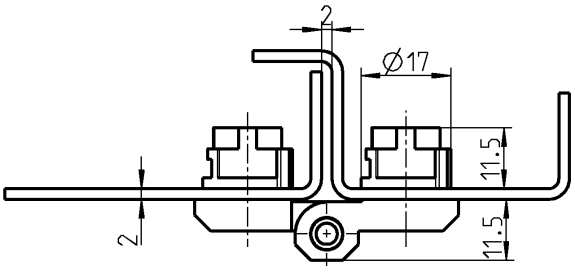


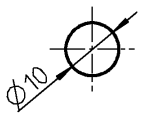


Attention:
every 2D-nut is adjustable ± 2 mm in the horizontal and vertical direction.









Cut out for 2D-nut M6

Convenience:
1. Identification of adjustability is not possible from the outside.
2. By using the 2D-nut it is possible to use every front mounted hinge or catch as an 2D part.

other thread parameters on request

Further parts see page

– Catch	3ZA-1220
– Hinge for prominent door	4A-138 4A-140 4A-170 4A-210 4A-215 8B-180
– Hinge for in-line door	4B-200 4B-210 4B-212 4B-215 4B-245 4B-320 8B-360 up to 8B-390
– Cover stay	8C-520 8C-540 12C-140 12C-160 12C-220

2D-nut cage zinc die zinc plated, nut m.s. zinc plated	
M6 with SW 13	1056-U51

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Nut, circlip

PROGRAM UNIVERSAL

Nut

EDELSTAHL Rostfrei STAINLESS STEEL

INOX AISI 3..

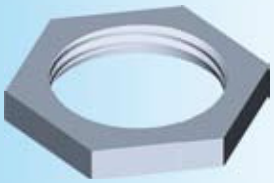
Screw-in safety earthing quarter turn program

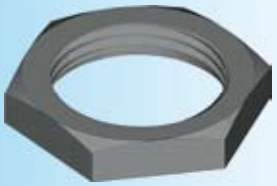
By use of the earthnut our screw-in quarter turn is in accordance to the standard VDE-regulation 0660/part 5.

The earthnut is produced with teeth, which under pressure removes the enamel in a limited way and makes sure there is a metallic contact (earthing).

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

Earthing of a cabinet should be inspected by qualified personnel.



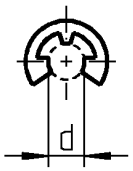


Nut M16x1 for program 1022		
	Zinc die	m.s. zinc pl.
Nut	–	1022-05-JB
Earthnut	1022-11-01KA	1022-11-JB

Nut M22x1,5 for program 1000			
	m.s. zinc plated	AISI 303	polyamide
Nut	1000-02-JB	1000-02-PF	1000-02-SI
Earthnut	1000-111-JB	–	–

Circlip

EDELSTAHL Rostfrei STAINLESS STEEL



Circlip DIN 6799		
d	m.s. zinc pl.	AISI 303
4	000039	–
5	000042	000041
6	000048	–
8	000154	–

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Beschlagteile

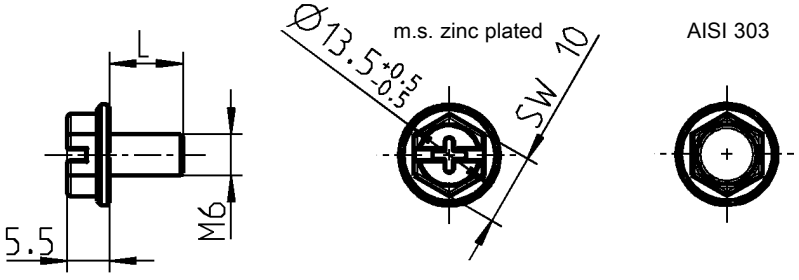
Vibration proof screw

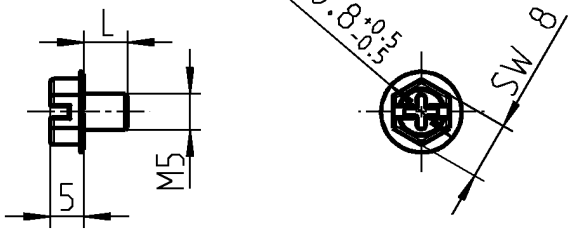
PROGRAM UNIVERSAL

INOX AISI 3..

EDELSTAHL Rost frei STAINLESS STEEL

locking teeth





Vibration proof screw with Philips head, slot and hexagon (not AISI 303)			
M6xL	**m.s. zinc plated**	**m.s. zinc plated with loctite**	**AISI 303**
6	1000-277-02JB	1000-277-02JC	–
8	1000-277-03JB	1000-277-03JC	–
10	1000-277-01JB	1000-277-01JC	1000-277-01PI
16	1000-277-11JB	1000-277-11JC	–
20	1000-277-04JB	1000-277-04JC	–
23	–	1000-277-13JC	–
25	1000-277-05JB	1000-277-05JC	–
30	1000-277-06JB	–	–
40	1000-277-07JB	–	–
50	1000-277-21JB	–	–
M5xL			**m.s. zinc plated**
6			1000-277-09JB

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1000-02-PF	12E-140
1000-02-SI	12E-140
1000-04	2A-120
1000-05	2A-120
1000-06	2A-120
1000-07	2A-120
1000-08	2A-120
1000-09	2A-120
1000-10	1C-120
1000-10	3YA-820
1000-10	3YA-840
1000-10	3YB-440
1000-11	1B-820
1000-11	1C-120
1000-11	3YA-820
1000-11	3YA-840
1000-11	3YB-440
1000-12	1B-820
1000-12	1C-120
1000-12	3YA-820
1000-12	3YA-840
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