

Icons

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



Inside the sealing



Outside the sealing



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 or LH version



Protection class e.g. IP 65



PUR sealing foam



Compression specification of lock



Article grounded or grounding possible



ELM Electronic Locking & Monitoring System application



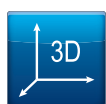
Resistance class 2 tested acc. to DIN EN 1630



2D nut usable



2D adjustable product



3D adjustable product



Assembly without tool



clip-in product



Product 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

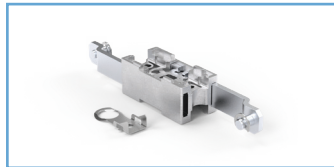


Plastic flame-resistant according to classification UL94



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

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

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

IP-Rating according to IEC 60 529			
The IP protection category is characterised by 2 numbers. Example of protection category: e.g. IP 54.			
First no.	Degree of protection against contact and foreign bodies	Sec. no.	Degrees of protection against water
1	Protected against solid foreign objects Ø 50 mm and greater	1	Protected against vertically falling water drops
2	Protected against solid foreign objects Ø 12.5 mm and greater	2	Protected against vertically falling water drops when the enclosure is tilted up to 15°
3	Protected against solid foreign objects Ø 2.5 mm and greater	3	Protected against spraying water
4	Protected against solid foreign objects Ø 1.0 mm and greater	4	Protected against splashing water
5	Dust-protected	5	Protected against water jets
6	Dust-tight	6	Protected against powerful water jets
		7	Protected against the effects of temporary immersion in water
		8	Protected against the effects of continuous immersion in water
		9K	Protected against high pressure and steam jet cleaning

Explanation of IP 69K

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

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

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

The paper of this catalogue is produced without chlorine bleaching.

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

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

REACH, RoHS conformity and WEEE directive

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

Declaration regarding REACH conformity

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

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

Declaration regarding RoHS conformity

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

Declaration regarding WEEE directive

The products offered by EMKA are intended solely for B2B trade (in accordance with the WEEE-directive). After being used, they can be returned to us or disposed of by a commercial waste management company. Disposal via the municipal collection system is not permitted! In case of a return to EMKA, a professional recycling or disposal will be ensured.

Conflict Minerals Policy

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

Tolerances of the seals::

Seals are toleranced in accordance with DIN ISO 3302-1. Soft rubber usually according to 'E2' and sponge rubber according to 'E3'. PVC edge protection profiles are toleranced according to DIN 16941-3B.

Some examples:

Nominal dimension		Tolerance class DIN ISO 3302-1 E2	Tolerance class DIN ISO 3302-1 E3
over	up to		
0	1.5	±0.25	±0.40
1.5	2.5	±0.35	±0.50
2.5	4.0	±0.40	±0.70
4.0	6.3	±0.50	±0.80
6.3	10	±0.70	±1.00
10	16	±0.80	±1.30
16	25	±1.00	±1.60
25	40	±1.30	±2.00
40	63	±1.60	±2.50

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

The appropriate storage is important (optimal storage temperature +5°C to +20°C). For the storage of seals, attention should be paid to DIN 7716 (guidelines for storage, maintenance and cleaning of rubber products). If possible, wrong storage in respect to long lay days or storing times should be avoided, since the mechanical characteristics may change.

Elastomers - Operating temperatures and stabilities:

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. -10°C to +70°C	55 to 75
Silicone	approx. -60°C to +200°C	10 to 90

MG = Foam 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. The mechanical properties are quite comparable (unlike the chemical resistances). If the seal is deformed beyond these limitations, there is the risk of the compression set (DVR) becoming too big, because the material deforms plastically as well.

The seal would be designed too small then.

Resistances:

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

Fire protection:

We supply materials certified according to the current fire protection standards for railway vehicles.

e.g. according to DIN EN 45545-2; NF F 16-101/ -102; NFPA 130

Whether the achieved categories fit to the respective requirements or vehicle classes has to be verified for the individual case.

In general, higher fire protection classes can be achieved with silicone profiles than with EPDM.

Disclaimer:

As a rule, disclosed values are standard values detected on sample plates and correspond to our state of knowledge.

However, they do not release the end user of individual and thorough tests.

DNV-GL

MANAGEMENT SYSTEM ZERTIFIKAT

Zertifikat-Nr.: 194710-2016-AQ-GER-Dakks Datum der Erstzertifizierung: 16. Februar 2019 Gültig: 28. Februar 2019 - 15. Februar 2022
Ablaufdatum des letzten Zertifizierungszyklus: 15. Februar 2019
Datum der letzten Rezertifizierung: 24. Januar 2019

Hiermit wird bescheinigt, dass das Unternehmen

EMKA Beschlagteile GmbH & Co. KG
Langenberger Str. 32, 42551 Velbert, Deutschland
sowie die im Anhang aufgeführten Standorte

ein Qualitäts-Managementsystem in Übereinstimmung mit dem folgenden Standard eingeführt hat und anwendet:

ISO 9001:2015

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

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

Ort und Datum:
Essen, 28. Februar 2019


Deutsche
Akkreditierungsstelle
D-ZM-18453-01-00


Thomas Beck
Leiter Zertifizierungsstelle

Die Vorstufung gegen die im Zertifizierungsvertrag genannten Bedingungen kann das Zertifikat seine Gültigkeit verlieren.
AKKREDITIERTE STELLE: DNV GL Business Assurance Zertifizierung und Umweltgutachter GmbH, Schierlinghof 14, 45329 Essen, Germany.
TEL: +49 201 7290-222, www.dnvgl.de/assurance

DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 194710-2016-AQ-GER-Dakks Initial certification date: 16. February 2019 Valid: 28. February 2019 - 15. February 2022
Expiry date of last certification cycle: 15. February 2019
Date of last recertification: 24. January 2019

This is to certify that the management system of

EMKA Beschlagteile GmbH & Co. KG
Langenberger Str. 32, 42551 Velbert, Germany
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:

ISO 9001:2015

This certificate is valid for the following scope:

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

Place and date:
Essen, 28. February 2019


Deutsche
Akkreditierungsstelle
D-ZM-18453-01-00


Thomas Beck
Technical Manager

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.
ACCREDITED UNIT: DNV GL Business Assurance Zertifizierung und Umweltgutachter GmbH, Schierlinghof 14, 45329 Essen, Germany.
TEL: +49 201 7290-222, www.dnvgl.de/assurance

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



Door LH version
=
Hinges are on
the left side



LH door with
swinghandle
=
Opening direction
is clockwise



LH door with
escutcheon
=
Opening direction
is anti-clockwise

Illustration with closed door



Door RH version
=
Hinges are on
the right side



RH door with
swinghandle
=
Opening direction
is anti-clockwise

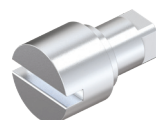


RH door with
escutcheon
=
Opening direction
is clockwise

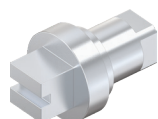
Overview of inserts
for quarter turns, escutcheons, swinghandles and further articles.



– Square



– Slot 2 x 4



– Square slotted



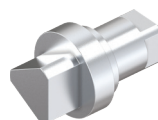
– Slot 2 x 4
coinproof



– Triangular CNOMO



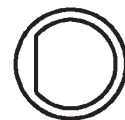
– Crown type



– Triangular



– Eastern Europe
Ø 13 half-round



– Double bit



– FIAT



– Hexagon male



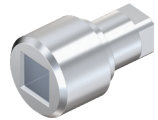
– Railway



– Hexagon female



– Hexagon female
with pin



– Square female



– Ø 8.6 with slot



– Daimler Benz



– Tube

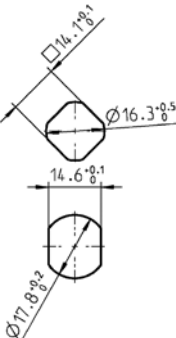
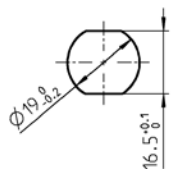
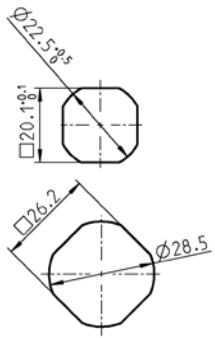
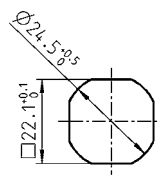


– Slot 1.2 x 3



Further inserts on request!

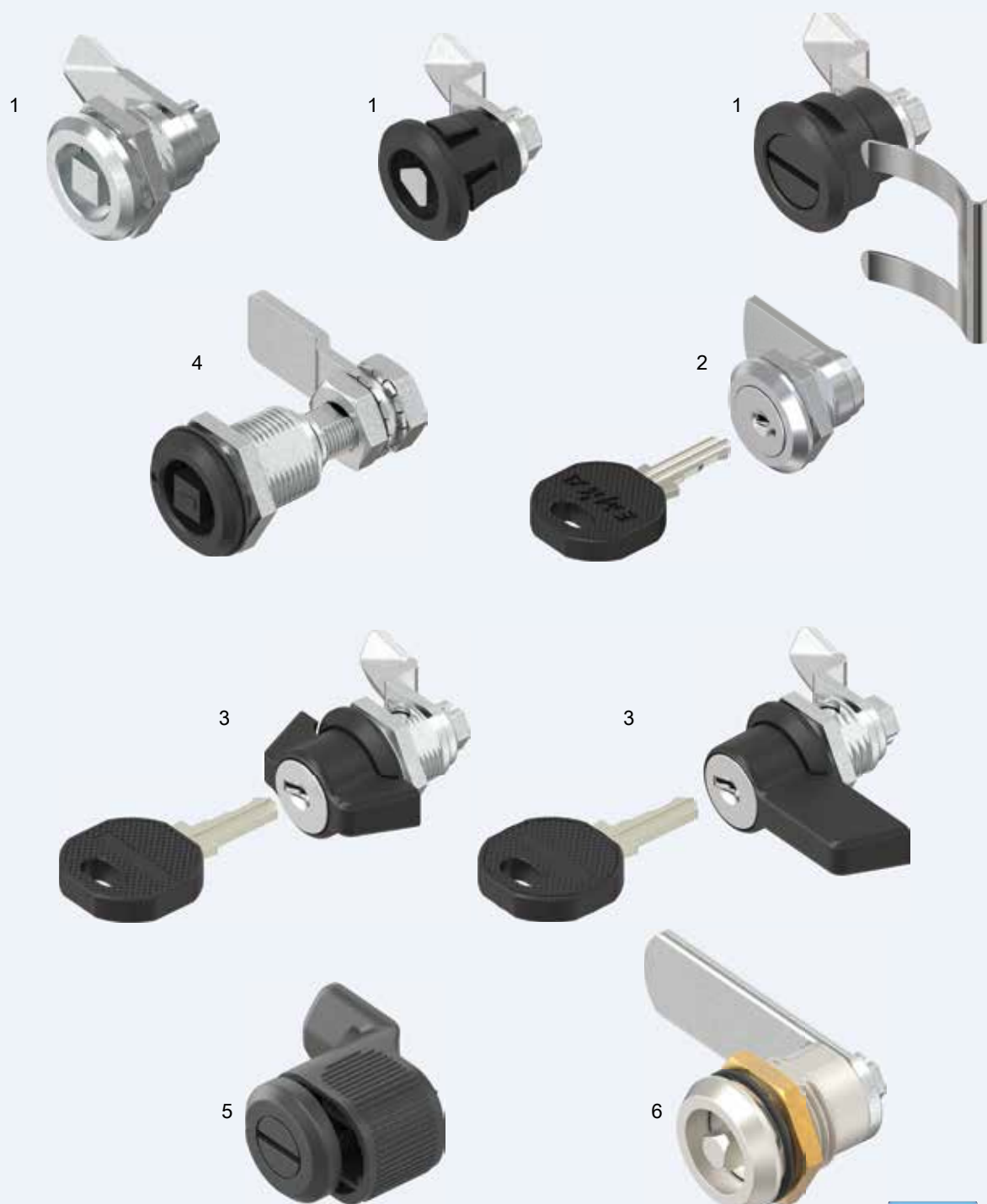
Quarter turns

1022	1012	1000	1500	Beschlagteile	1 Quarter turns
Quarter turns small version	Quarter turns, medium version	Quarter turns, large version	Quarter turns, clip fix version		1 Quarter turns
1A-100	1A-100	1B-100, 1C-100	1D-100	see catalogue page	1 Quarter turns
					2 Rod controls
•	•	•	•	screw-on	3 Locking systems
•		•		clip-in	
•		•		with spring fixing	
		•		weld-on	
			•	clip fix	4 Hinges
IP 65	IP 65	IP 65 / IP 66 / IP 69K	IP 65	IP-Rating	
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 GH	
•		•	•	Quarter turn made of polyamide	5 Seals
•	•	•		Quarter turn made of zinc die	
		•		Quarter turn made of m.s.	
•		•		Quarter turn made of stainless steel	
•		•		Seal loose	
		•	•	Seal foamed	
		•	•	Cam made of polyamide	6 Handles
•	•	•	•	Cam made of m.s.	
•		•	•	Cam made of stainless steel	
•	•	•	•	Insert	
•		•	•	Round cylinder	
		•	•	Wing knob	7 Aluminium windows
		•	•	T-handle	
		•	•	L-handle	
		•		Radial pin cylinder	
		•		for padlock	
		•		Safety quarter turn	
•		•		Compression latch	8 Miscellaneous
		•		Fire brigade lock	
		•		Quarter turn railway	
		•		FIAT quarter turn	
		•		Quarter turn for Swedish power comp.	
		•		Slam cam	
		•		Hook lever lock	
•	•	•		Dust cap	9 Special catalogues
		•		Finger pull	
		•		Inside handle	
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Info	
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4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
9 Special catalogues	
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Quarter turns

Small and medium version, Program 1012, 1022



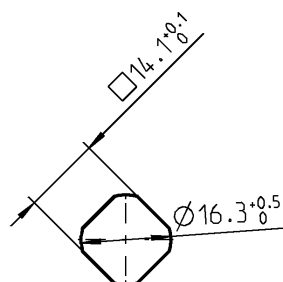
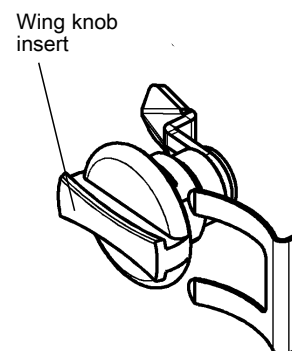
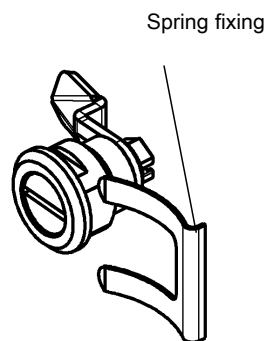
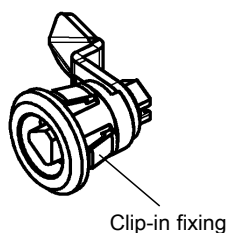
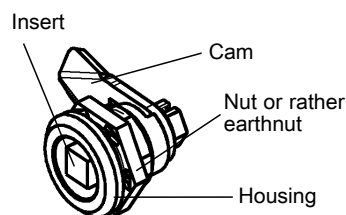
- | | | |
|---|--|--------|
| 1 | Quarter turns with insert | 1A-120 |
| 2 | Cylinder quarter turns | 1A-160 |
| 3 | Wing knob quarter turns | 1A-140 |
| 4 | Compression latch | 1A-220 |
| 5 | Quarter turns for assembly without tools | 1A-320 |
| 6 | Quarter turns with insert | 1A-420 |



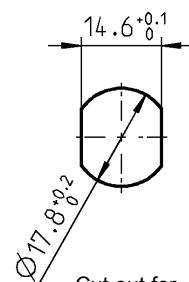
1A-100

Quarter turns, small version

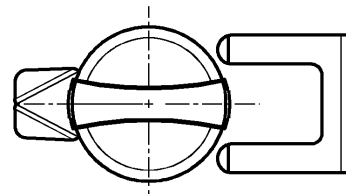
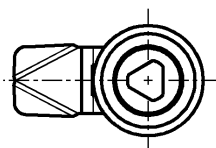
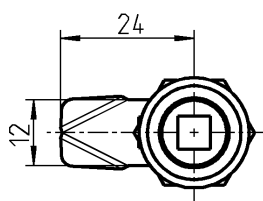
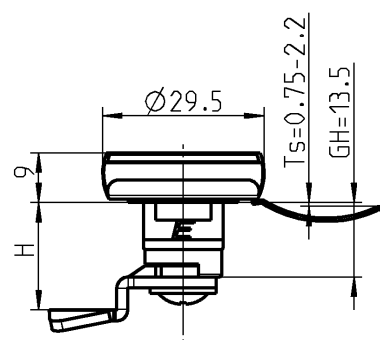
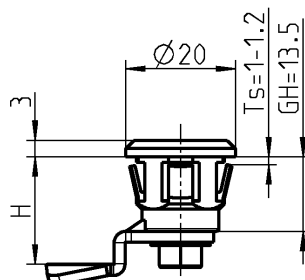
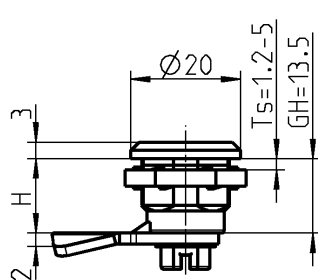
PROGRAM 1022



Cut out for
nut fixing and
clip-in fixing



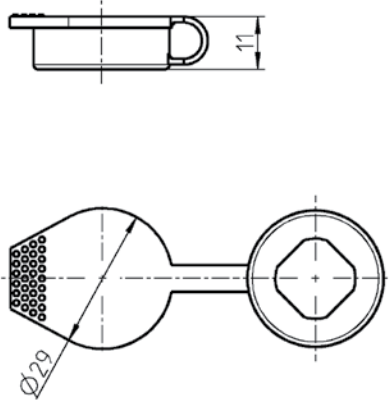
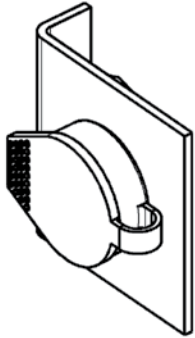
Cut out for
spring fixing



Housing zinc die, polyamide or. stainless steel.; 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	
mit Mutter ¹⁾ m.s. ²⁾ AISI 303	1022-U8 ¹⁾	1022-U46 ¹⁾	1022-U60 ²⁾	1022-U71 ¹⁾	
with earthing nut m.s.	1022-U9	1022-U47	—	—	
Clip-in fixing	—	—	—	1022-01-02	
with spring fixing	1022-U76	1022-U77	—	1022-U78	
Insert zinc die, polyamide or stainless steel; fixing material m.s. zinc-plated; with seal (only for stainless steel version)					Key zinc die black
Square 6	1022-U2	1022-U44	1022-U61	1022-U72	1004-20
Triangular 6.5	1022-U1	1022-U43	1022-U62	1022-U73	1004-21
Slot 1.5 x 3	1022-U3	1022-U45	1022-U63	1022-U74	—
Blank	1022-U4	—	1022-U64	1022-U75	—
Wing knob insert	—	—	—	1022-U82	—

Accessories



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



Cam, material of 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 achieved by:

- 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:
When dust cap 1022-23-01
is used, dimension H
reduces by 2 mm.
Not suitable for housings with
spring or clip-in fixing.

Application area:
Small doors and flaps

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

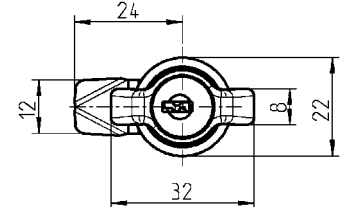
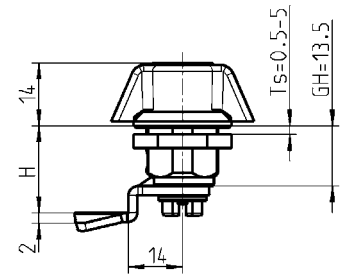
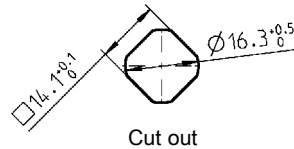
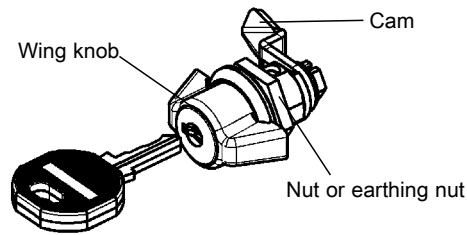
8 Miscellaneous

9 Special catalogues

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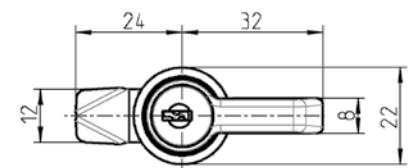
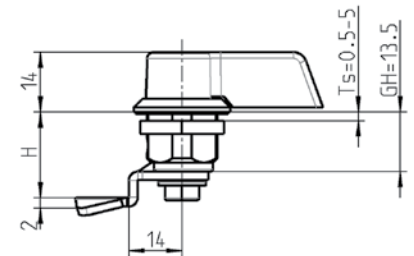
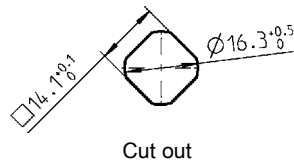
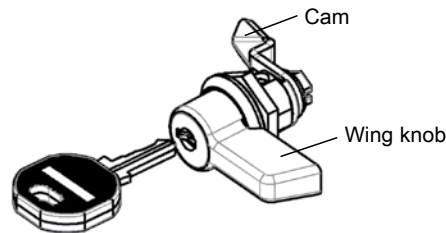


Wing knob quarter turns, small version PROGRAM 1022



Wing knob with housing zinc die, round cylinder zinc die with stainless steel cap, nut or earthing 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	Earthing nut	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 cylinder zinc die with stainless steel cap, nut or earthing 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	Earthing nut	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

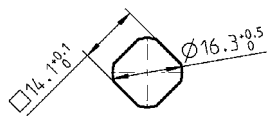
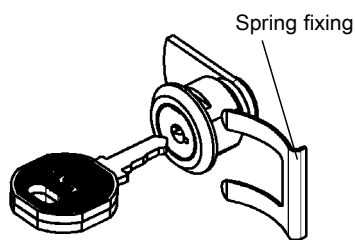
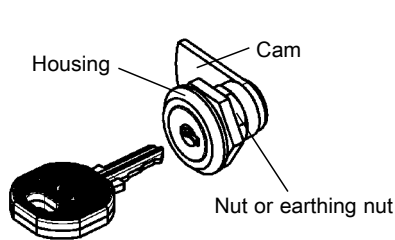
Application area:
Small doors and flaps

Further parts see page
– Spare key

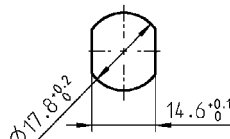
8B-140

Cylinder quarter turn, small version

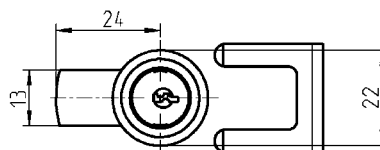
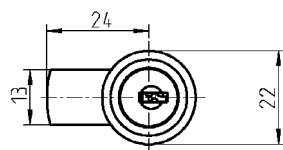
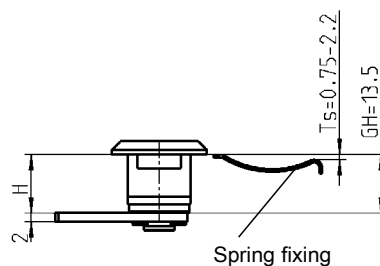
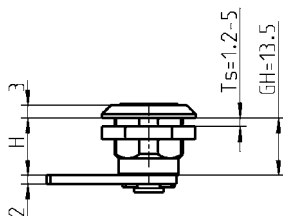
PROGRAM 1022



Cut out for nut fixing



Cut out for spring fixing



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

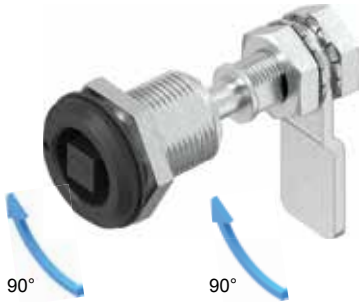
	H	Zinc die with nut	Zinc die with earthing nut	Polyamide with nut
		1)	1)	2)
keyed 2233X	7.5	1022-U16	1022-U22	1022-U65
	13.5	1022-U17	1022-U23	1022-U66
	19.5	1022-U18	1022-U24	1022-U67
keyed different	7.5	1022-U19	1022-U25	1022-U68
	13.5	1022-U20	1022-U26	1022-U69
	19.5	1022-U21	1022-U27	1022-U70
	H	Zinc die with spring fixing 1)		
keyed 2233X	7.5	1022-U10		
	13.5	1022-U11		
	19.5	1022-U12		
keyed different	7.5	1022-U13		
	13.5	1022-U14		
	19.5	1022-U15		



Application area:
Small doors and flaps

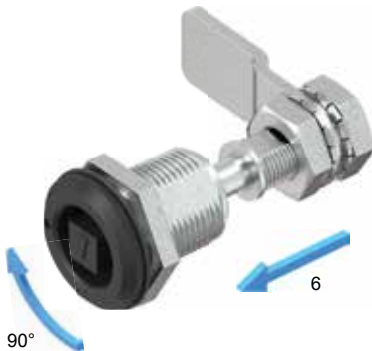
Further parts see page
– Spare key 8B-140

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Open condition

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



Closed condition

Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition

Open:

Reversed motion

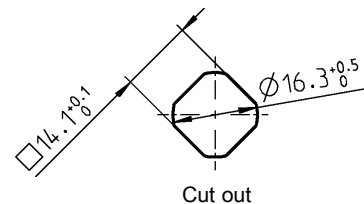
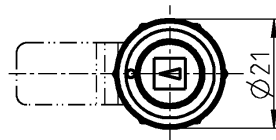
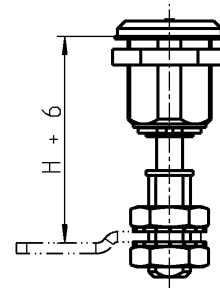
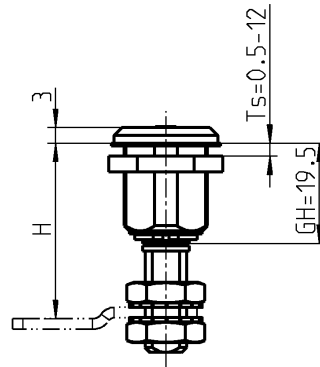
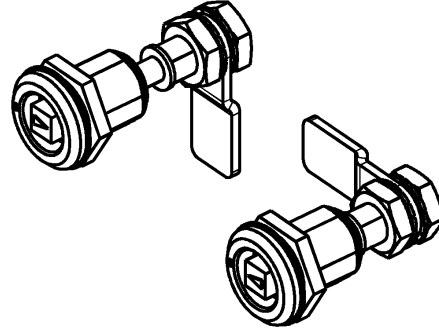
Further parts see page

- Dust cap 1A-120
- Cam 1A-240
- Key 8B-120

Compression latch PROGRAM 1022

Tamper and vibration proof

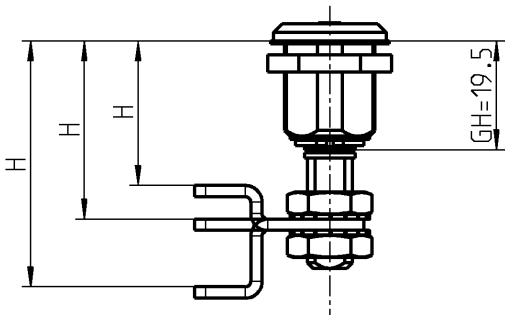
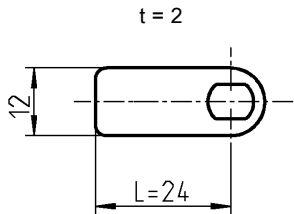
The compression latch is designed to be vibration-proof as such. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.



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
Hexagon female SW 5	1022-U94	on request
Slot 1.5 x 3	1022-U84	1022-U84-IA



straight cam



cranked cam

Cam m.s. zinc-plated		
for GH = 19.5 mm	H	GH = 19.5
straight	25.5 - 32.5	1022-49
Offset 6 mm	19.5 - 26.5; 31.5 - 38.5	1022-50
Offset 12 mm	13.5 - 20.5; 37.5 - 44.5	1022-51

Note:
 Cranked cam is reversible

Further parts see page
 – Compression latch 1A-220

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2 Rod controls
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Quarter turn for assembly without tools PROGRAM 1022



**Patented,
self-sealing design**

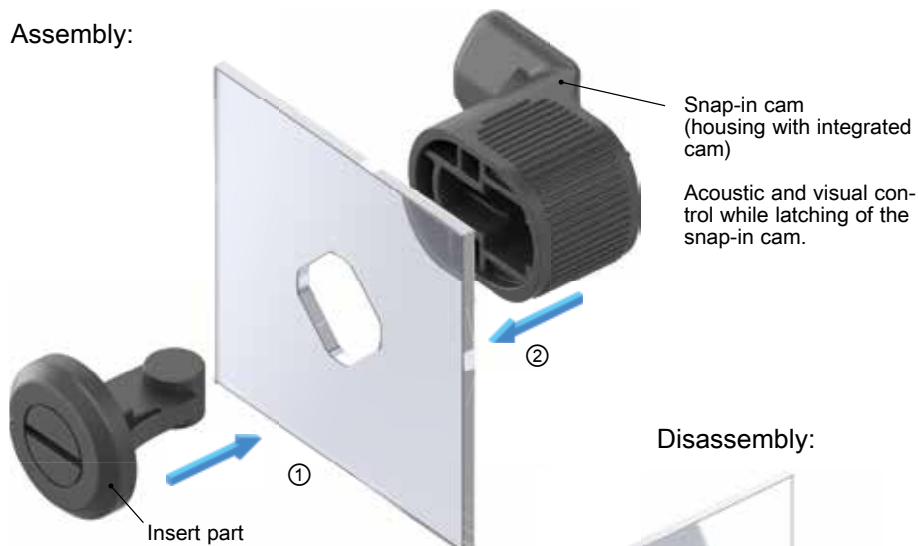
Assembly and disassembly without tools

Assembly instruction:

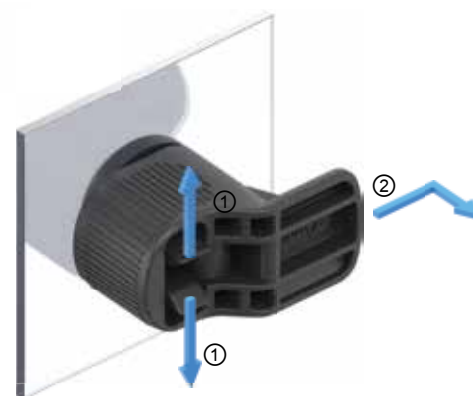
Assembly door stop on the right:
Pre-mounted insert part is inserted in the cut out when closed.
Then fixed with snap-in cam.

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

Assembly:

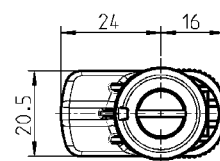
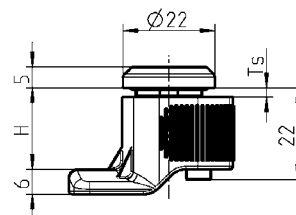
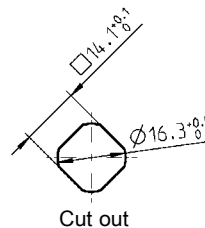
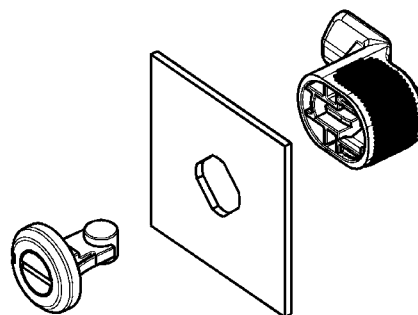


Disassembly:



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



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 cam polyamide GF black

Ts	H	
0.5 - 1.0 including surface coating	7.5	1022-56-01
	13.5	1022-56-02
	19.5	1022-56-03
1.0 - 1.5 including surface coating	7.5	1022-55-01
	13.5	1022-55-02
	19.5	1022-55-03
1.5 - 2.0 including surface coating	7.5	1022-54-01
	13.5	1022-54-02
	19.5	1022-54-03

Other door thicknesses on request!

Other snap-in cams on request!

Further parts see page

– Key 8B-120

Quarter turn with built-in options, medium version

PROGRAM 1012

EMKA

Info

Beschlagteile



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

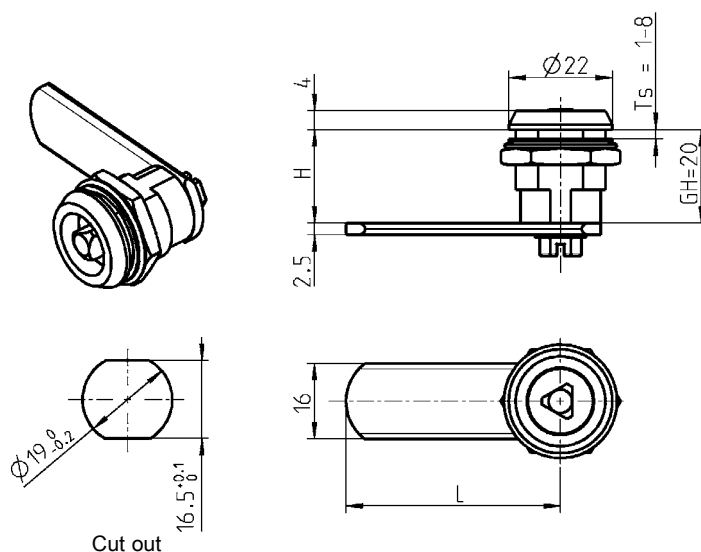
6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

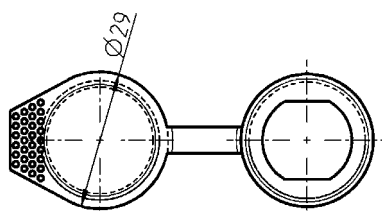
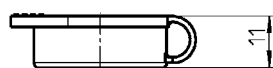
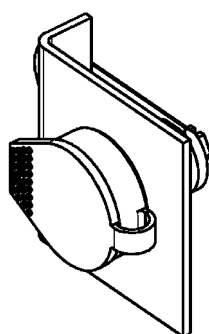
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2 in 1

Version A

Version B



This quarter turn has two options.

Version A:

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

Version B:

Turn insert. Quarter turn does not snap into place.

Note:

The quarter turn 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.



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
----------------	---------

Toothed lock washer spring steel zinc-plated

1012-06-JG

Dust cap polyethylene black

1012-08

Attention:

When dust cap 1012-08 is used, dimension H reduces by 2 mm.

Other inserts available on request!

Cams with other H- and L-dimensions on request.

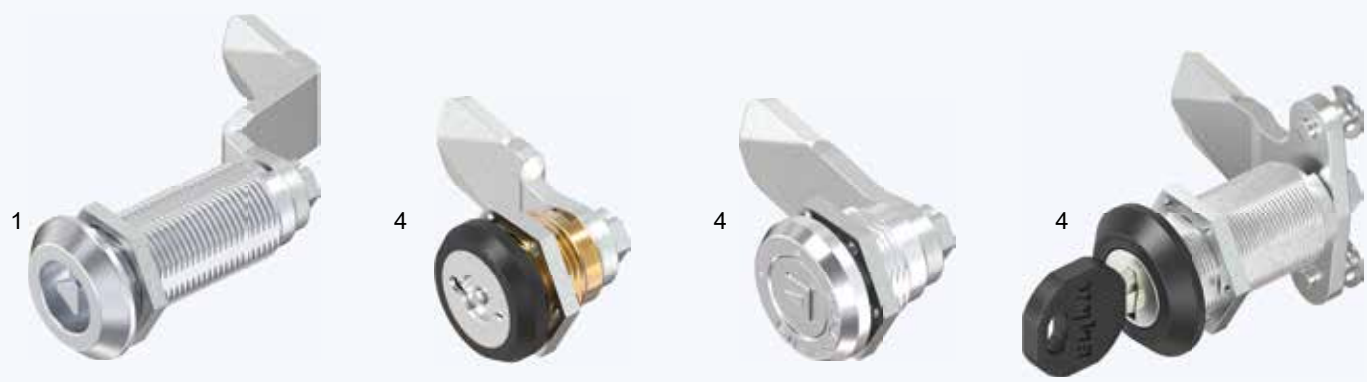
1A-420 11/13

(1D-140)

Quarter turns

Large version

Program 1000





- | | | |
|----|--|------------------------------------|
| 1 | Quarter turn screw-on, e.g. with insert | 1B-120 to 1B-360, 1B-680 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 to 1B-360 |
| 5 | Quarter turn with stepped cam, e.g. with star handle | 1B-240 |
| 6 | Radial pin-push cylinder | 1B-380 |
| 7 | Cylinder quarter turn | 1B-420 |
| 8 | Wing knob quarter turn | 1B-540 |
| 9 | T-handle quarter turn | 1B-520, 1B-560 |
| 10 | L-handle quarter turn | 1B-580 to 1B-640 |
| 11 | Wing knob quarter turn for padlock | 1B-680 |
| 12 | Quarter turn with insert for padlock | 1B-680 |
| 13 | Compression latch | 1B-220 to 1B-235 |
| 14 | Stainless steel compression latch for hygienic areas | 1B-837 |
| 15 | Stainless steel quarter turn for hygienic areas | 1B-835 |
| 16 | Wing knob quarter turn for ASSA cylinder | 1B-840 |
| 17 | Quarter turn, screw-on or weld-on | 1B-820 |
| 18 | Quarter turn for profile half cylinder | 1B-850 |



1B-100



Quarter turn
pre-assembled



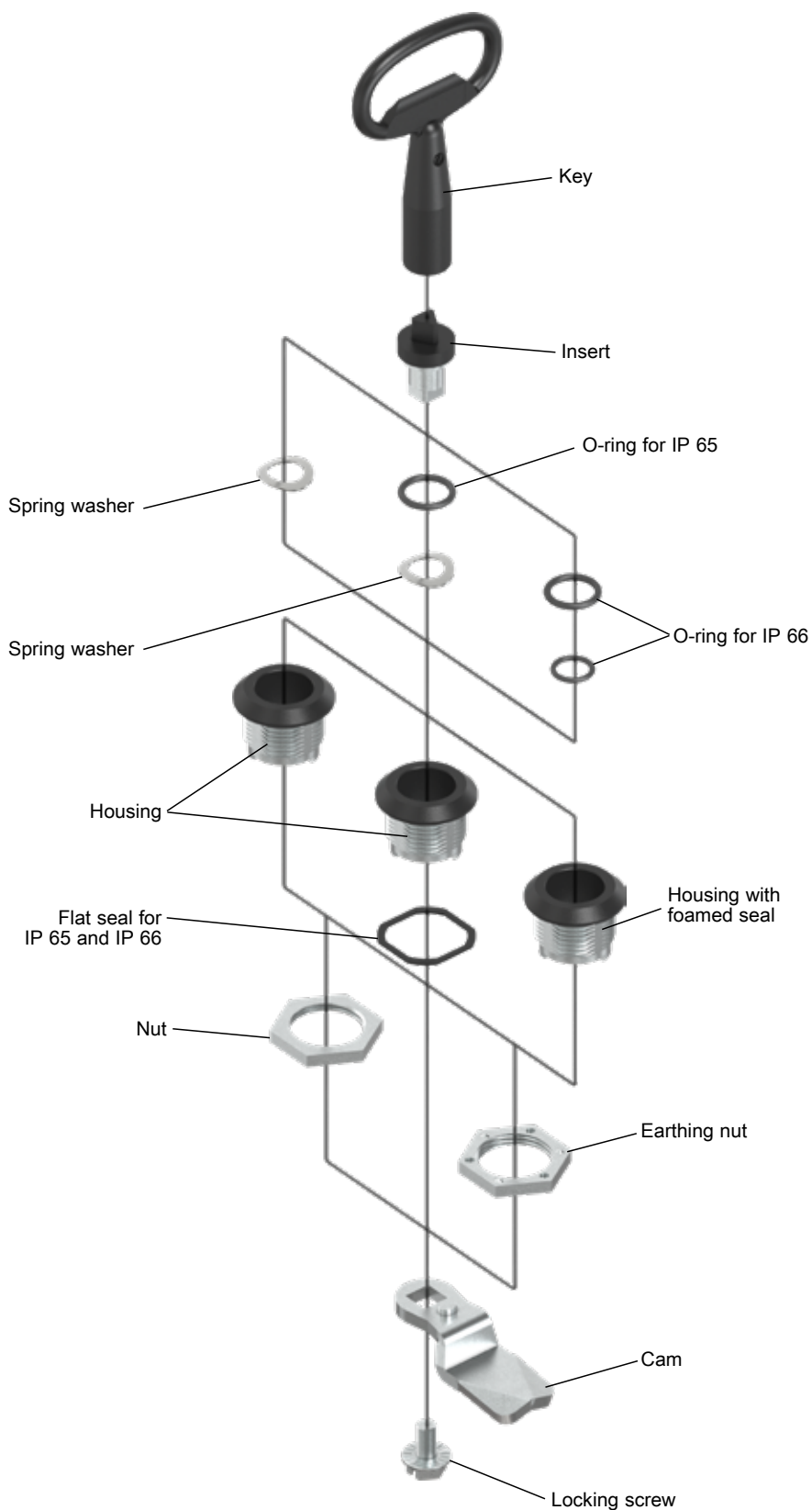
Pass through cut out



Assemble the nut



Quarter turn ready installed



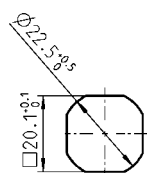
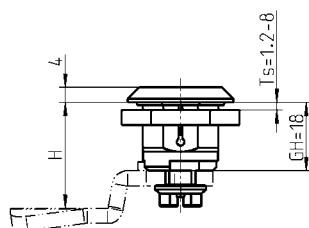
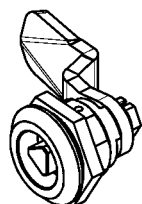
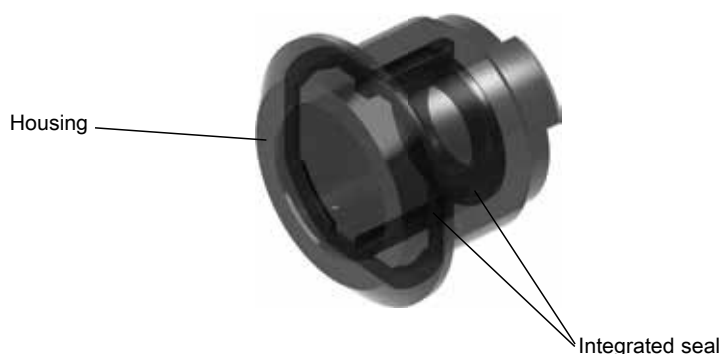
Screw-in safety earthing quarter turn program

When using the illustrated earthing nut, the screw-in quarter turn complies with VDE regulation 0660/Part 5.

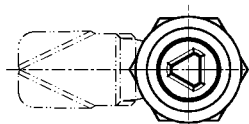
The earthing nut is provided with teeth and removes the lacquer coating in a limited area when tightened, thus ensuring metallic bonding.

Underlaid serrated washers are no longer sufficient for the paint qualities used today.

Quarter turn with integrated seal IP 65 PROGRAM 1000



Cut out



Housing polyamide 6 GF 30 black with integrated TPE seal*, 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

Assembly 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. With prolonged contact with oils and fuels, there is the problem of swelling or hardening. Occasional wetting with these media is unproblematic.

Attention:

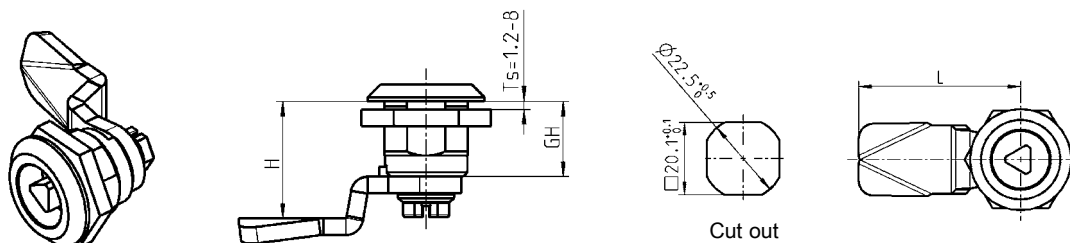
In case of assembly by the customer the insert must be lubricated (vaseline).

Further parts see page

– Cam with catch	1C-120
	to 1C-180
– Accessories	from 1C-170
– Escutcheon	3B-140
– Key	8B-120

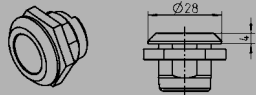
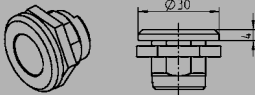
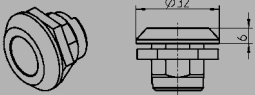
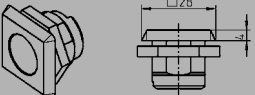
Quarter turn, Housing GH = 18 and 30 - 60, Insert, Seal

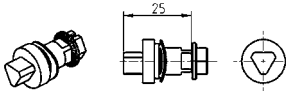
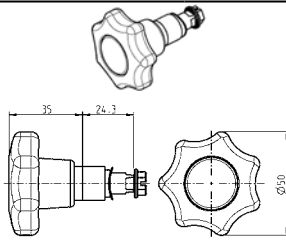
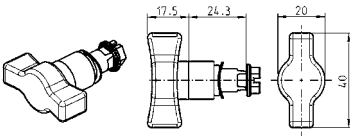
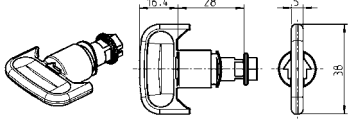
PROGRAM 1000



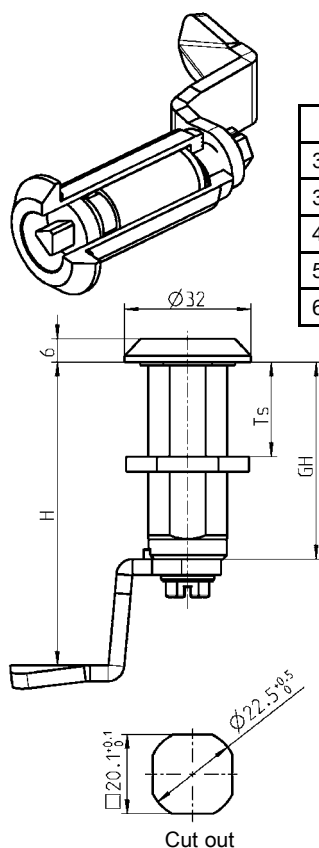
Cut out

Housing material of choice, nut or earthing nut m.s. zinc-plated or nut stainless steel

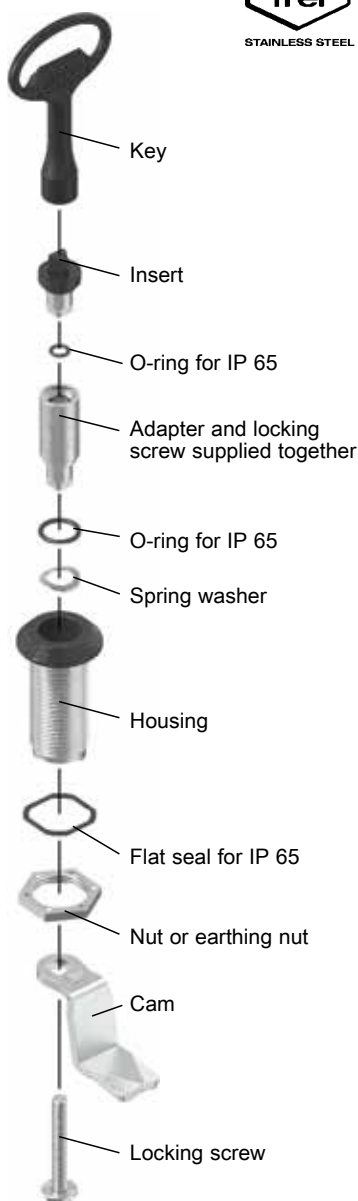
Head diameter								
GH = 18 mm	4		4		6		4	
Head height	Nut	Earthing nut	Nut	Earthing nut	Nut	Earthing nut	Nut	Earthing nut
Zinc die chrome-plated	1000-U45	1000-U56	1000-U47	1000-U55	1000-U7	1000-U54	1000-U330	1000-U332
Zinc die chrome-plated (with foamed seal)	1000-U45-G	1000-U56-G	1000-U47-G	1000-U55-G	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 V0 black	1000-U155	-	-	-	1000-U46	-	-	-
Polyamide GF V0 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 powder-coated	Polyamide 66 GF 50 black	Stainless steel AISI 303	Stainless steel AISI 316
 Insert	Square 6	1000-U17	1000-U322	-	1000-U351
	Square 7	1000-U1	1000-U323	1000-U184-N	1000-U135
	Square 8	1000-U2	1000-U324	1000-U185-N	1000-U136
	Square 8 slotted	1000-U18	-	-	1000-U352
	Triangular 6.5 CNOMO	1000-U197	-	-	-
 Star handle	Triangular 7	1000-U3	1000-U325	-	1000-U334
	Triangular 8	1000-U4	1000-U326	1000-U186-N	1000-U335
	Triangular 9	1000-U194	-	-	-
	Triangular 10	1000-U249	-	-	-
	Double bit 3	1000-U5	1000-U327	1000-U187-N	1000-U183
	Double bit 5	1000-U6	1000-U328	1000-U188-N	1000-U137
	Hexagon female SW 10	1000-U96	-	-	-
	Square female 6	1000-U168	-	-	-
	Square female 7	1000-U182	-	-	-
	Square female 8	1000-U169	-	-	-
 Wing knob ①	Daimler Benz	1000-U20	-	-	-
	Slot 1.2 x 3	1000-U195	-	-	-
	Slot 2 x 4	1000-U142	1000-U329	1000-U196-N	1000-U630
	Slot 2 x 4 coinproof	1000-U738	1000-U739	-	-
	Crown type	1000-U336	-	-	-
	Eastern Europe Ø 13 half-round	1000-U509	-	-	1000-U729
	Hexagon female 8 with pin	1000-U757	-	-	1000-U757-01
 Wing knob ②			Zinc die black powder-coated	Polyamide GF / Zinc die black	Polyamide GF black / AISI 303
	Star handle	-	-	1000-U13	1000-U138
	Wing knob ①	-	-	1000-U78	1000-U510
	Wing knob ②	-	1000-U910	-	-

Assembly instruction



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



IP 65 achieved by:

** Flat seal	1000-23
** O-Ring	1000-24

IP 66 achieved by:

Seal set	1000-U769
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IP 69K achieved by:

* Seal set	1000-U841
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Assembly on request

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

Housing material of choice; nut or earthing nut m.s. zinc-plated or nut stainless steel; adapter zinc die or AISI 303; screw m.s. zinc-plated or stainless steel

GH in mm	Zinc die chrome-plated		Zinc die black powder-coated		Polyamide black	AISI 316 / 303
	Nut	Earthing nut	Nut	Earthing nut		
30	1000-U51	1000-U65	1000-U225	1000-U226	1000-U876	1000-U878
– Adapter					1000-U164	1000-U879
36	1000-U246	1000-U248	1000-U317	1000-U318	–	–
– Adapter					1000-U198	–
40	1000-U66	1000-U67	1000-U227	1000-U228	1000-U737	–
– Adapter					1000-U165	–
50	1000-U68	1000-U69	1000-U229	1000-U230	1000-U736	–
– Adapter					1000-U166	–
60	1000-U504	1000-U505	1000-U506	1000-U507	–	–
– Adapter					1000-U535	–



** included in case of stainless st. version

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

Note:
Quarter turn assembly 1B-105

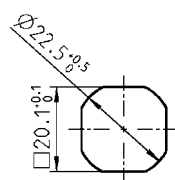
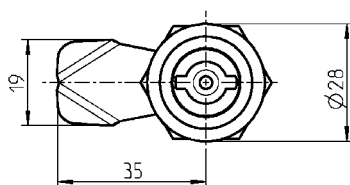
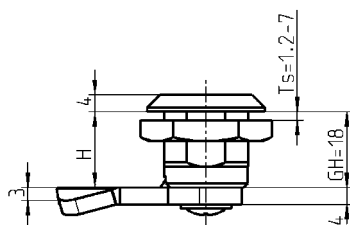
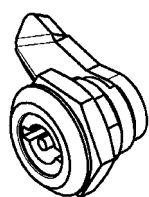
Further parts see page
– Housing 1B-760
1B-680
1B-820

– Quarter turn with stepped cam 1B-240
– Cam with catch 1C-120
to 1C-180
– Accessories from 1C-170
– Insert with wing knob 1B-720
– Escutcheon 3B-140
– Prominent door lock 8A-220
8B-120

Plastic quarter turn

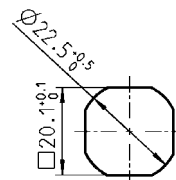
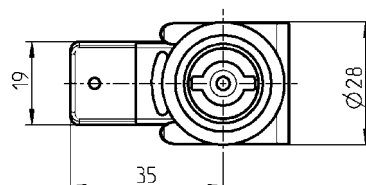
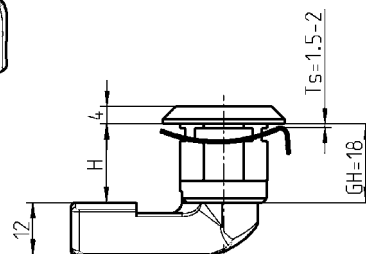
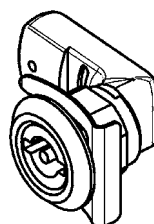
PROGRAM 1000

Nut fixing

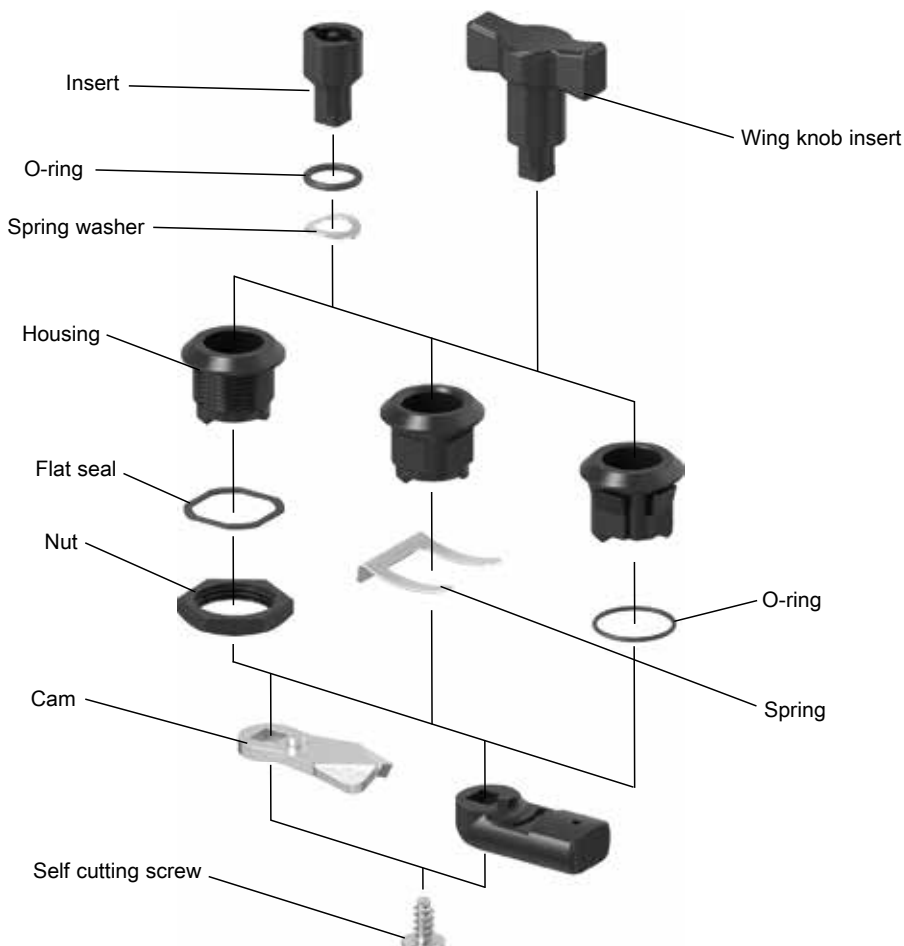


Cut out

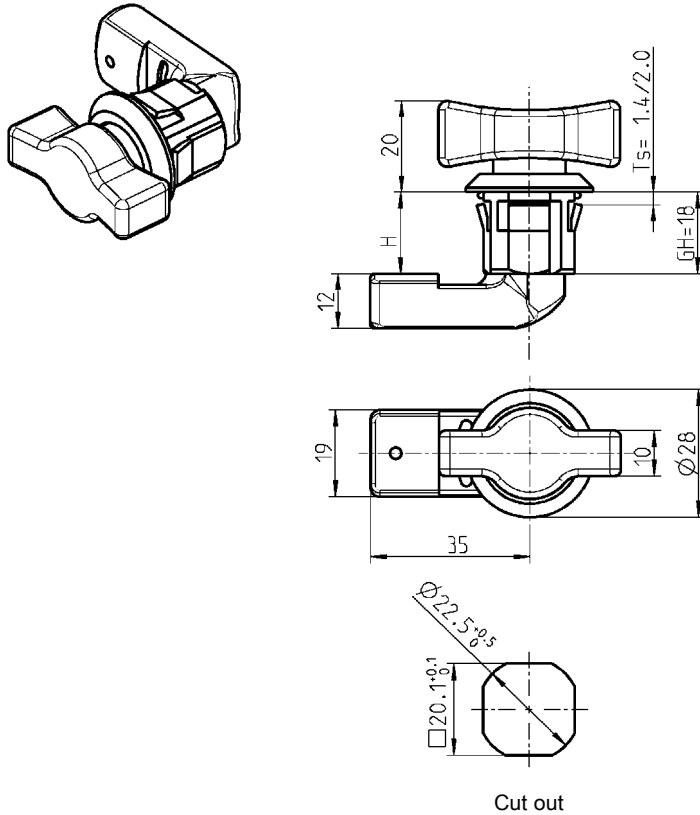
Spring fixing



Cut out



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, spring 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 half-round	1000-U680
Wing knob insert (IP 50) IP 65 on request	1000-U711

Cam material of choice

H	m.s. zinc-plated, 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) achieved by:

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



Note:

Quarter turn assembly 1B-105

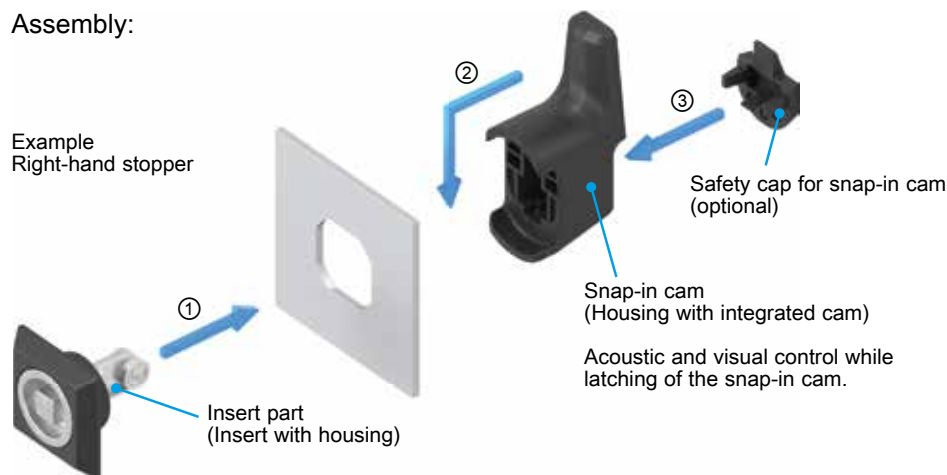
Further parts see page

– Insert with wing knob 1B-720
 – Finger pull (nut fixing only) 1C-320
 – Dust cap (nut fixing only) 1C-320
 – Key 8B-120

Quarter turn for assembly without tools

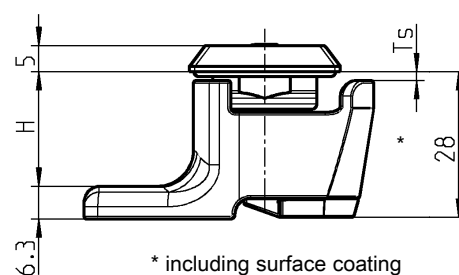
PROGRAM 1000

Assembly:



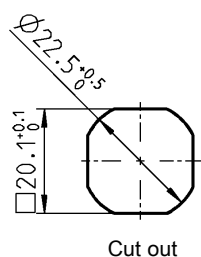
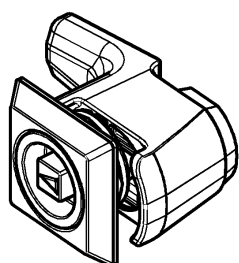
Product benefits

- Cost savings due to toolless assembly within seconds
- Smooth handling (conceptually no internal tension)
- Safety cap optional
- Self-sealing construction for highest protection requirements
- High overwinding safety
- Standard cut out
- Patented

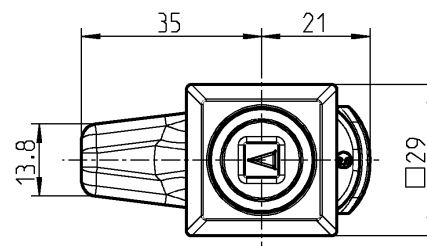


Version 1

Assembly instruction

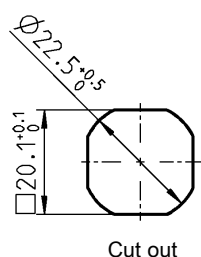
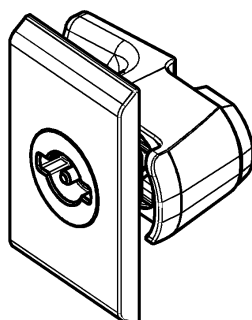


Version 1

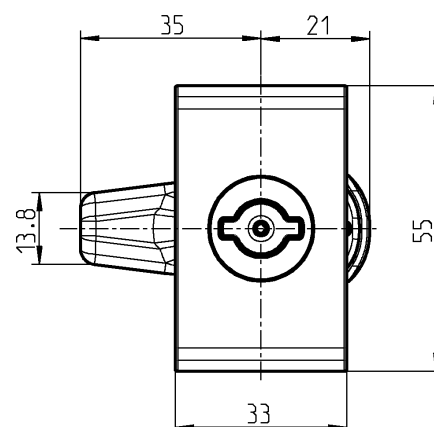


Version 2

Assembly instruction



Version 2



Version 2
Disassembly instructions



Version 2
Conversion instructions for change of stopper



Housing insert unit

Version 1: Housing polyamide GF black with foamed seal

Version 2: Housing plate polyamide GF black with integrated TPE seal;
90° stopper polyamide GF black for version 2;
insert zinc die with O-ring

Ⓐ = Foamed seal
Ⓑ = TPE seal

	Version 1 Ⓐ	Version 2 Ⓑ
Square 7	1000-U902	1000-U914
Square 8	1000-U903	1000-U915
Square 8 with thread M6 for wing knob	1000-U908	on request
Triangular 8	1000-U904	1000-U916
Double bit 3	1000-U905	1000-U913
Slot 2 x 4	1000-U907	1000-U917

Snap-in cam polyamide GF black

H	Ts = 1.0 - 1.5 *	Ts = 1.5 - 2.0 *	Ts = 2.5 - 3.0 *
18	1000-590	1000-591	1000-593
22	1000-594	1000-595	1000-597
24	1000-598	1000-599	1000-601

Safety cap for snap-in cam polyamide black

	1000-603
--	----------

Housing

Version 2: Housing plate polyamide GF silver grey metallic with integrated TPE seal;
90° stopper polyamide GF silver grey metallic

	Version 2
	1000-U972

Insert zinc die with O-ring

Square 7	1000-U973
Square 8	1000-U974
Square 8 with thread M6 for wing knob	1000-U975
Triangular 8	1000-U976
Double bit 3	1000-U977
Slot 2 x 4	1000-U978

Snap-in cam polyamide GF silver grey metallic

H	Ts = 1.0 - 1.5 *	Ts = 1.5 - 2.0 *	Ts = 2.5 - 3.0 *
18	1000-590-CX	1000-591-CX	1000-593-CX
22	1000-594-CX	1000-595-CX	1000-597-CX
24	1000-598-CX	1000-599-CX	1000-601-CX

Safety cap for snap-in cam polyamide silver grey metallic

	on request
--	------------

Version 1



Version 2



Version 2



* including surface coating

Further parts see page

– Wing knob for insert
– Key

1B-720
8B-120

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

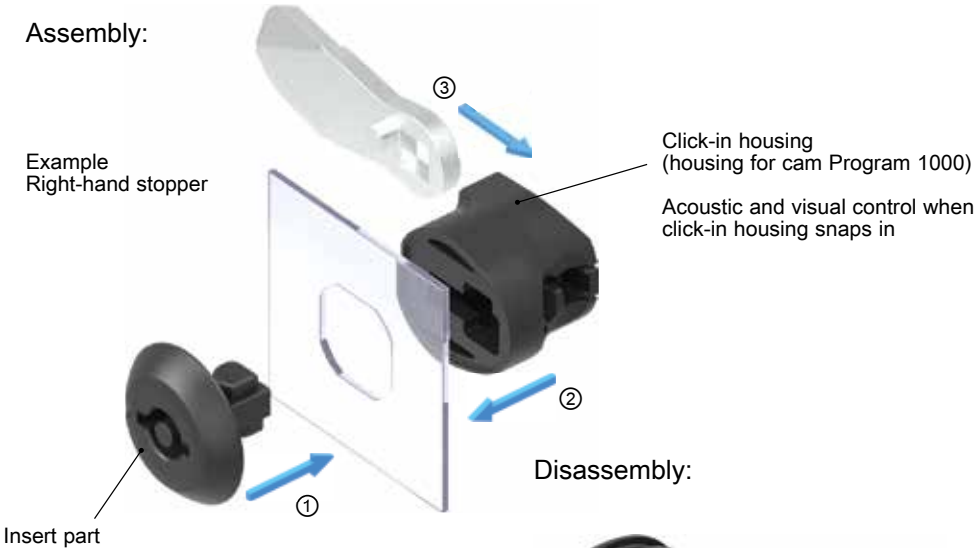
Index



Quarter turn for assembly without tools PROGRAM 1000

Assembly:

Example
Right-hand stopper



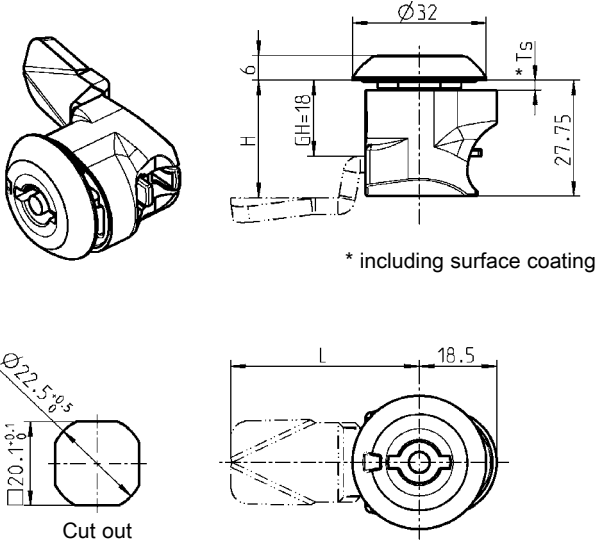
Disassembly:

Patented, self-sealing design

Assembly and disassembly without tools

Product benefits

- Cost savings due to toolless assembly within seconds
- Alternatively available with polyamide or steel cam
- Suitable for many standard cams
- Clamping force with steel cam corresponds to EMKA standard quarter turn made of zinc die
- Smooth handling (conceptually no internal tension)
- Self-sealing construction for highest protection requirements (design immanent)
- High overwinding safety
- Standard cut out
- Patented



Assembly instruction:

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

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

Other door thicknesses on request!

Further parts see page

– Cam (Version 1, GH = 18) 1C-120
– Key 8B-120

Insert part polyamide GF black; with seal

Square 7	1000-U883
Square 8	on request
Triangular 8	on request
Double bit 3	1000-U895
Double bit 5	1000-U873
Slot 1.5 x 3	on request

Click-in housing polyamide GF black, for cam Program 1000

Ts = 0.5 - 1.0 mm incl. surface coating	1000-551-02
Ts = 1.0 - 1.5 mm incl. surface coating	1000-551-01
Ts = 1.5 - 2.0 mm incl. surface coating	1000-551

Compression latch

PROGRAM 1000

Tamper and vibration-proof

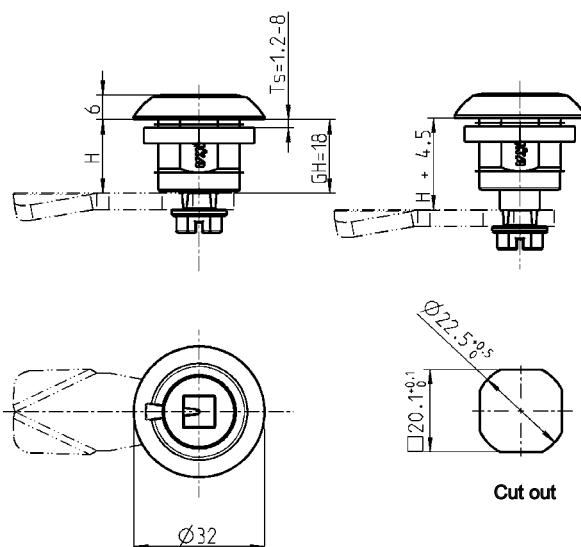
The compression latch is designed to be vibration-proof as such. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.



for stainless steel version

Product benefits

- Compact design
- Compatible with other quarter turns with GH = 18 mm
- Fire protection according to DIN EN 45545-2 with E20
- Short housing GH = 18 mm
- Foamed seal
- Standard cut out

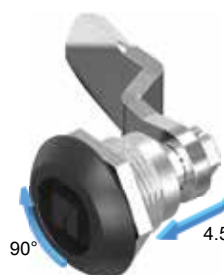


Cut out



Open condition

Turning the insert 90° causes the cam to rotate.



Closed condition

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



Compressed condition

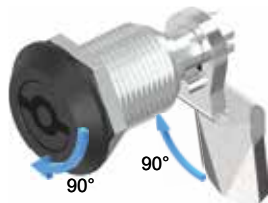
Open:
Reversed motion

Further parts see page

- Cam without catch from 1C-120 (not for cam with rod control)
- Accessories from 1C-320
- Escutcheon 3B-140
- Key 8B-120

Housing and insert material of choice; nut and screw m.s. zinc-plated or stainless steel; with spring and seal

Further insert variants on request	Zinc die black powder-coated	Zinc die chrome-plated	AISI 316
Square 7	on request	1000-U859-IA	1000-U859-PH
Square 8	1000-U852	1000-U852-IA	1000-U852-PH
Triangular 7	on request	1000-U864-IA	1000-U864-PH
Triangular 8	1000-U853	on request	1000-U853-PH
Double bit 3	1000-U854	on request	1000-U854-PH
Double bit 5	1000-U855	on request	1000-U855-PH
Slot 2 x 4	on request	on request	1000-U985-PH
Railway	1000-U856	on request	1000-U856-PH



Open condition

Turning the insert 90° causes the cam to rotate.



Closed condition

Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition

Open:
Reversed motion

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 8B-120

1B-220 06/20

(1B-190; 1B-235)

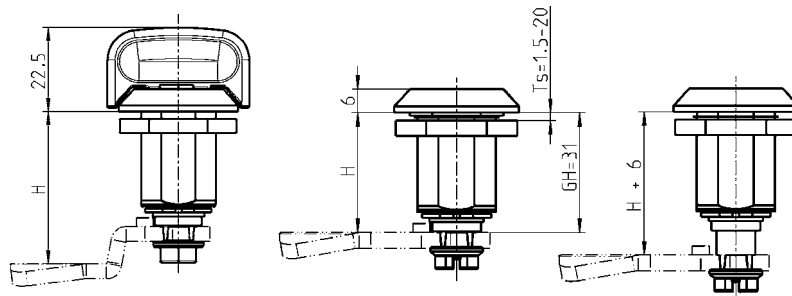
Compression latch PROGRAM 1000



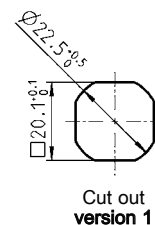
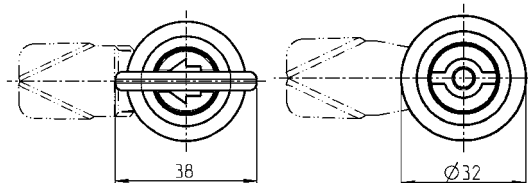
STAINLESS STEEL

Tamper and vibration-proof

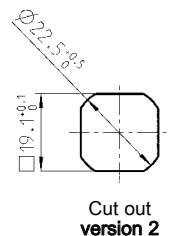
The compression latch is designed to be vibration-proof as such. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.



Housing with marking on request



Cut out
version 1



Cut out
version 2



Cut out version 1

Housing and insert zinc die black powder-coated or AISI 316;
nut and screw m.s. zinc-plated or stainless steel; with spring and seal

Further insert variants on request	Zinc die black powder-coated	AISI 316
Square 7 with arrow	1000-U796	on request
Square 8	1000-U755	on request
Square 8 with arrow	1000-U798	on request
Square 8 with marking	on request	1000-U755-01
Triangular 7	1000-U795	on request
Triangular 8	1000-U783	on request
Double bit 3	1000-U749	1000-U749-01
Double bit 5	1000-U748	1000-U748-01
Hexagon female SW 8	1000-U807	on request
Hexagon female SW 8 with pin	1000-U805	on request
Hexagon female SW 10	1000-U809	on request
Square female 8	1000-U811	on request
Slot 2 x 4	1000-U777	1000-U777-01
Insert railway	1000-U831	1000-U831-01
Wing knob insert	1000-U882	on request

Cut out version 2

Housing and insert zinc die black powder-coated or AISI 316;
nut and screw m.s. zinc-plated or stainless steel; with spring and seal

Further insert variants on request	Zinc die black powder-coated	AISI 316
Square 8	1000-U981	on request
Square 8 with marking	on request	1000-U981-01
Double bit 3	1000-U982	on request
Double bit 5	1000-U983	on request

Compression latch with adjustable cam height

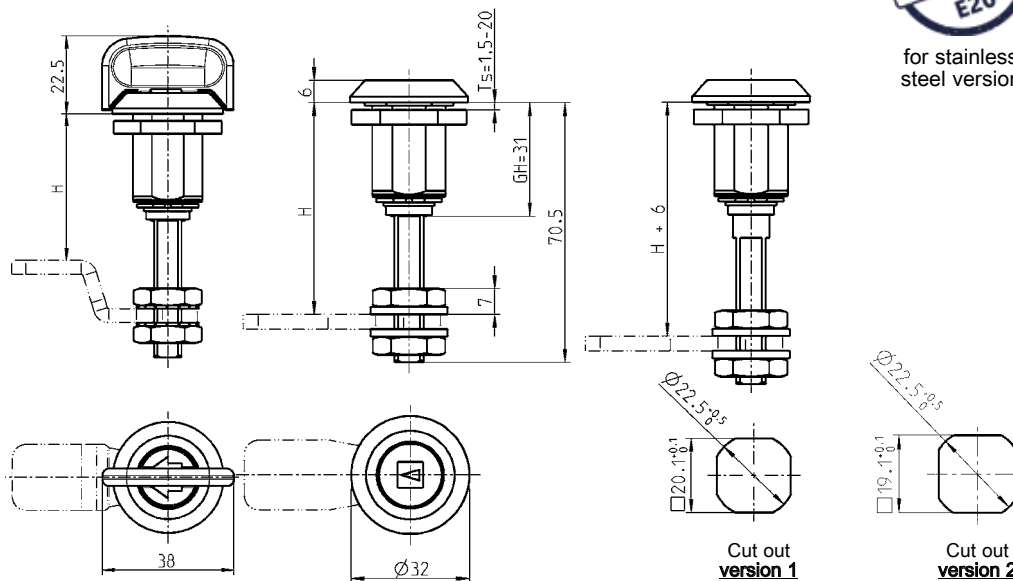
PROGRAM 1000

Tamper and vibration-proof

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



for stainless
steel version



Cut out version 1

Compression latch with adjustable cam height

Housing and insert zinc die black powder-coated or AISI 316;

locking shaft zinc die or m.s. zinc-plated or AISI 316;

nuts and washers m.s. zinc-plated or AISI 316; with spring and seal

Further insert variants on request

Housing and insert
zinc die black powder-coated

Housing
and insert
AISI 316
Shaft AISI 316

Locking shaft
zinc die

Shaft
m.s. zinc-plated

Square 7 with arrow

1000-U786

1000-SU720

on request

Square 8 with arrow

1000-U799

1000-SU861

1000-U755-02

Triangular 7

1000-U794

1000-SU724

on request

Triangular 8

1000-U802

1000-SU725

on request

Double bit 3

1000-U803

1000-SU730

on request

Double bit 5

1000-U804

1000-SU752

on request

Hexagon male SW 11.1
with marking

1000-U816

1000-SU324

on request

Hexagon female SW 8

1000-U808

1000-SU735

on request

Hexagon female SW 8 with pin

1000-U806

1000-SU733

on request

Hexagon female SW 10

1000-U810

on request

on request

Square female 8

1000-U812

on request

on request

Slot 2 x 4

1000-U813

on request

on request

Insert railway

1000-U832

on request

1000-U831-02

Tube with marking

1000-U830

1000-SU736

on request

Wing knob insert

1000-U880

on request

on request

Cut out version 2

Housing and insert zinc die black powder-coated or AISI 316;

locking shaft zinc die or m.s. zinc-plated or AISI 316;

nuts and washers m.s. zinc-plated or AISI 316; with spring and seal

Further insert variants on request

Housing and insert
zinc die black powder-coated

Housing
and insert
AISI 316

Locking shaft
zinc die

Shaft
m.s. zinc-plated

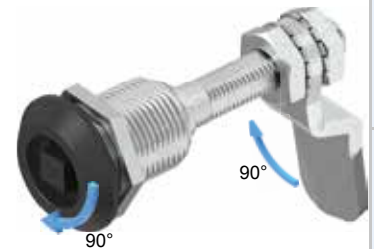
Shaft
AISI 316

Square 8 with arrow

on request

1000-SU1167

on request



Open condition

Turning the insert 90° causes
the cam to rotate.



Closed condition

Further rotation of the insert
by 90° moves the cam 6 mm
in axial direction.



Compressed condition

Open:
Reversed motion

Note:

Only cams without catch
can be used.

Further parts see page

- Cam (GH = 31) 1C-137
- Accessories from 1C-320
- Escutcheon 3B-140
- Key 8B-120

Info	
1 Quarter turns	Beschlagteile
2 Rod controls	Notes:
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
9 Special catalogues	
Index	

Stainless steel and hybrid (aluminium and stainless steel) compression latch with marking

PROGRAM 1000

Tamper and vibration-proof

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

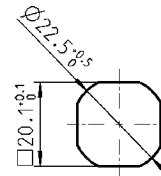
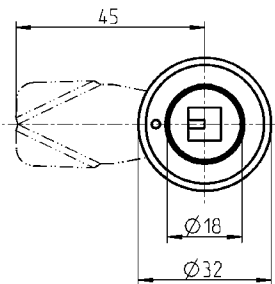
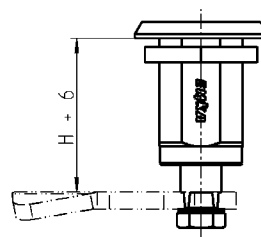
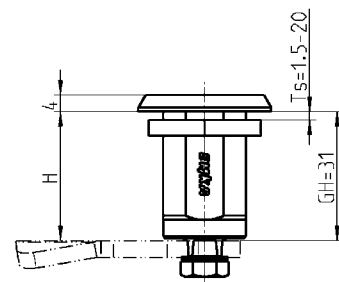


Stainless steel



Stainless steel and aluminium

Additional IP protection during cleaning work inside possible with flat seal 1000-570 (self-adhesive). This seal is included with -SU part no.



Cut out



Open condition
Turning the insert 90° causes the cam to rotate.



Closed condition
Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition

Open:
Reversed motion

Further parts see page

- Cam without catch 1C-120 (not for cam with rod control)
- Accessories from 1C-320
- Key 8B-120

Stainless steel compression latch with marking

Housing and insert AISI 316; nut and screw stainless steel; with spring and seal

Further insert variants on request	Left-hand version	Right-hand version
Square 7	1000-SU925-LIPH	1000-SU925-REPH
Square 8	1000-U865-LIPH	1000-U865-REPH
Triangular 7	1000-SU925-02LIPH	on request
Triangular 8	1000-U911-LIPH	1000-SU925-01REPH
Hexagon male SW 10	1000-U869-LIPH	1000-U869-REPH
Insert railway	1000-U870-LIPH	1000-U870-REPH
Insert railway with outer rack	1000-SU925-03LIPH	1000-SU925-03REPH

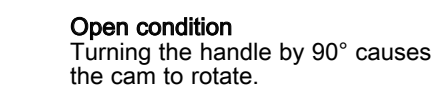
Hybrid (aluminium and stainless steel) compression latch with marking

Housing aluminium anodized; insert AISI 316; nut and screw stainless steel; with spring and seal

Square 7	1000-U968-LI	1000-U968-RE
Square 8	1000-U968-04LI	1000-U968-04RE
Triangular 6.5	1000-SU1186-02LI	on request
Triangular 7	1000-U968-02LI	on request
Triangular 8	1000-U968-01LI	1000-U968-01RE
Hexagon male SW 10	1000-U968-05LI	1000-U968-05RE
Insert railway	1000-U968-06LI	1000-U968-06RE
Insert railway with outer rack	1000-U968-03LI	1000-U968-03RE

PROGRAM 1000

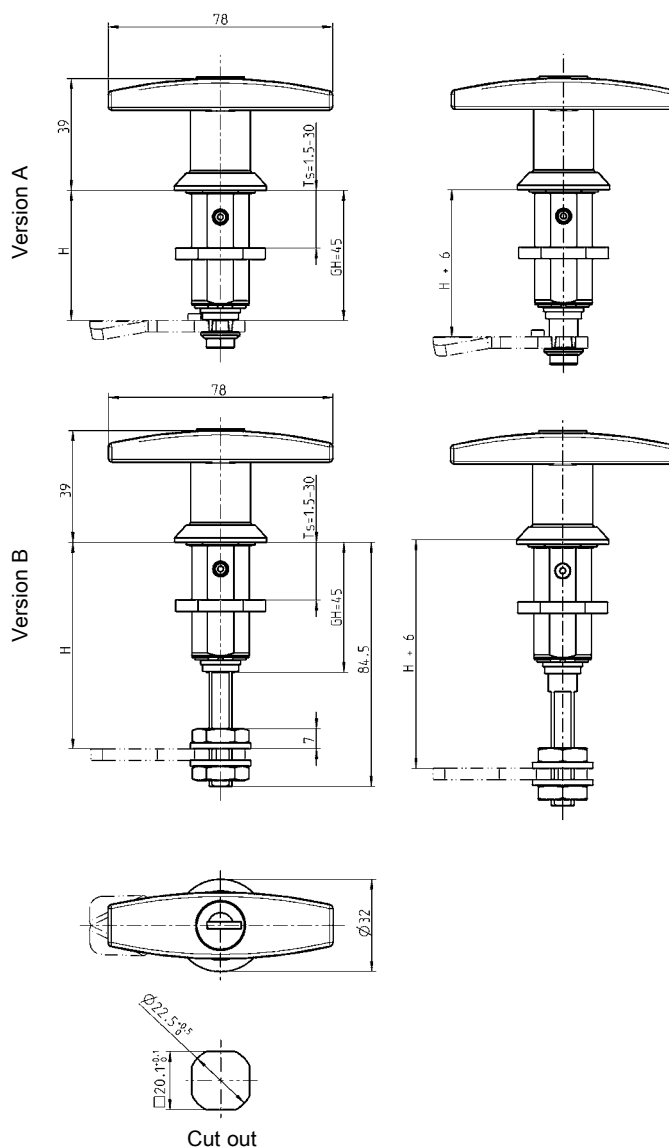
Compression latch with T-handle



Closed condition
Further rotation of the handle by 90° moves the cam 6 mm in axial direction.



Open:
Reversed motion



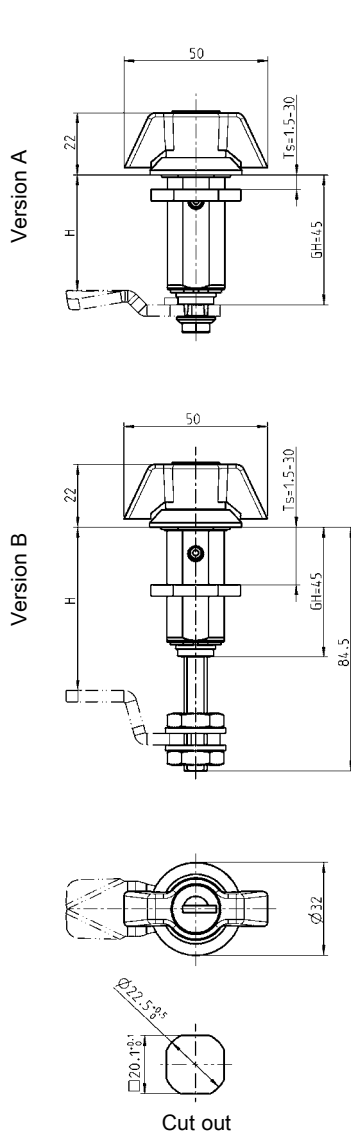
Note:

For version B only cams without catch can be used!

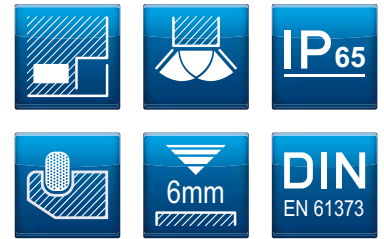
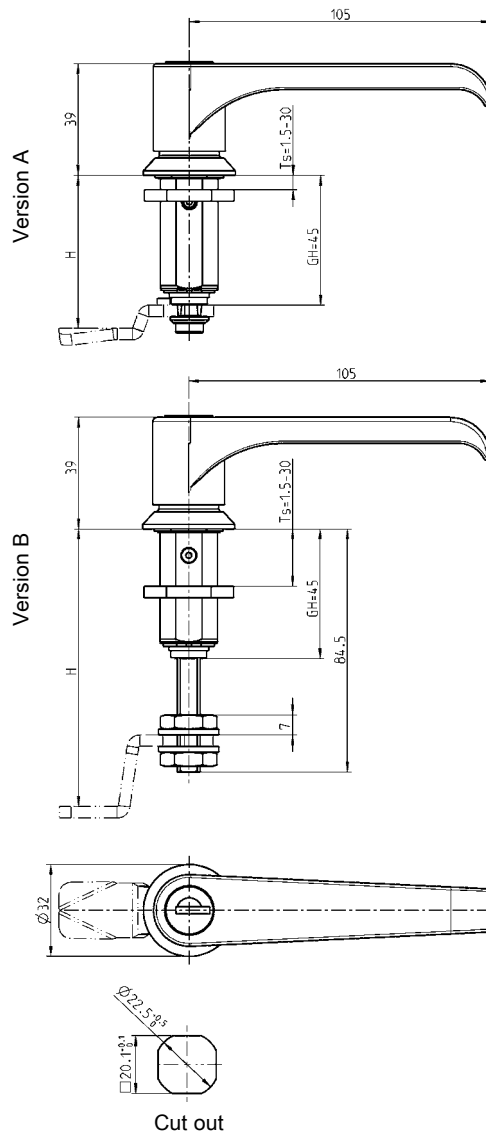
Tamper and vibration-proof

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

Compression latch with wing knob



Compression latch with L-handle



Stainless steel version on request.



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

Version A: Fixed cam height	non locking	keyed EK 333	keyed different
Wing knob	1000-U826	1000-U827	1000-U828
T-handle	1000-U820	1000-U821	1000-U822
L-handle	1000-U823	1000-U824	1000-U825
Version B: Adjustable cam height			
Wing knob	1000-U790	1000-U789	1000-U791
T-handle	1000-U785	1000-U784	1000-U792
L-handle	1000-U788	1000-U787	1000-U793

Further parts see page

for fixed cam height
– Cam with or without catch from 1C-120
(not for cam with rod control)

for adjustable cam height
– Cam (GH = 45) 1C-137

for both versions
– Dust cap for T-handle 1C-340
– Spare key 8B-140

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

Index



Open condition
Turning the insert 90° causes the cam to rotate.



Closed condition
Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition

Open:
Reversed motion

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 8B-120

® Compression latch with optical opening indicator

PROGRAM 1000

Tamper and vibration-proof

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

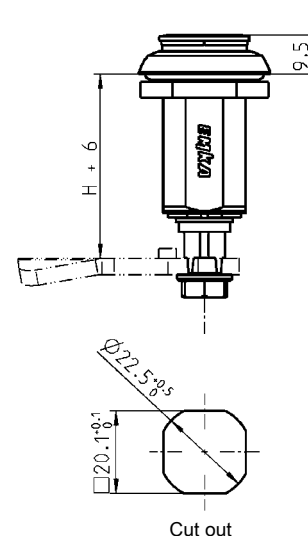
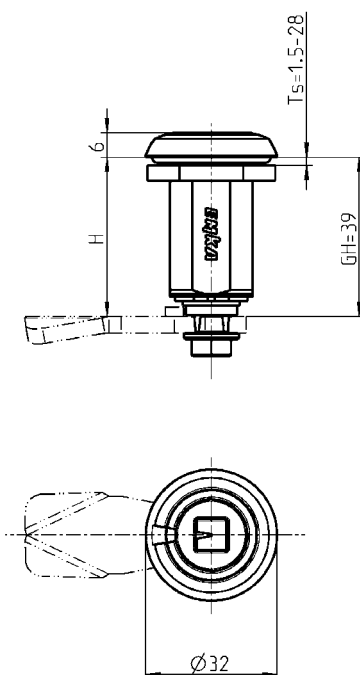
When the compression latch is used in combination with the dust cap (page 1C--330), another security aspect is added:

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

Compressed condition



Open condition



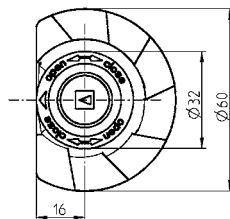
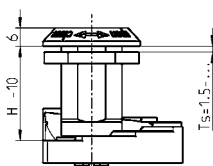
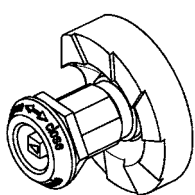
Housing and insert zinc die black powder-coated; signal ring red; nut and screw m.s. zinc-plated, with spring and seal

Square 8	1000-U846
Railway	1000-U848

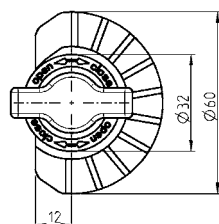
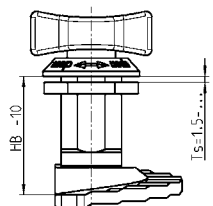
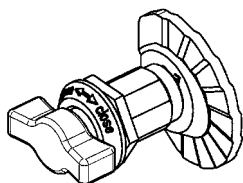
Quarter turn with stepped cam

PROGRAM 1000

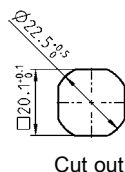
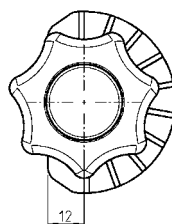
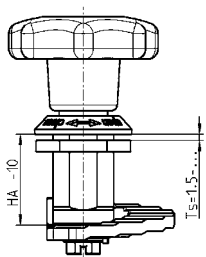
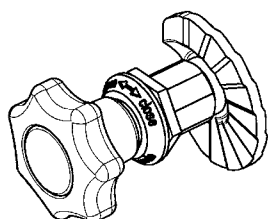
Version A



Version B



Version B



Stepped cam

Version A	m.s. zinc-plated, without stopper	1000-127
	m.s. zinc-plated, with stopper	1000-244
Version B	zinc die raw, with stopper	1000-387

Housing zinc die surface of choice; nut m.s. zinc-plated; adapter and spacer zinc die; screw m.s. zinc-plated

Ts	H	HA	HB	Housing zinc die		with adapter zinc die (Insert flush at front)	Spacer zinc die 5 mm higher H-dimension and screw m.s. zinc-plated
1.5 to				chrome-plated	black powder-coated		
8	19	19	27	1000-U157	1000-U231	not required	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



Housing with 270° stopper

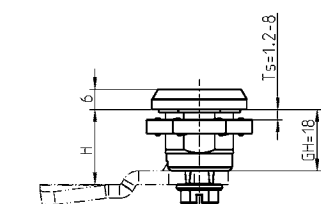
Advice:
Quarter turn assembly 1B-105

Further parts see page
 – Insert 1B-140
 – IP 65 or IP 66 1B-140
 – Accessories from 1C-320
 – Escutcheon 3B-140
 – Key 8B-120

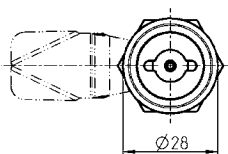
Info	
1 Quarter turns	Beschlagteile
2 Rod controls	Notes:
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
9 Special catalogues	
Index	

Safety quarter turn

PROGRAM 1000

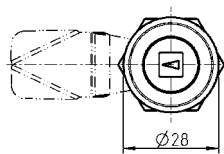
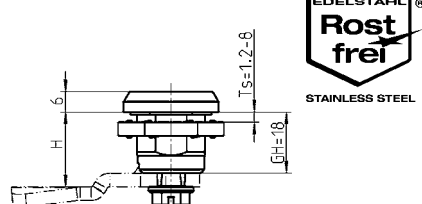


Right-hand version



Cut out

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



for stainless steel version



Push cam back using insert.



Cam snaps into place.

Double bit key not removable



Safety quarter turn

Tamper and vibration-proof. For double-bit version: Key can only be removed in locking position.

Hole for the double bit according to DIN 43668. Waterproof and dustproof, according to IP 65 DIN 40050.

Only available with pre-assembled cam.

Further parts see page

– Cam with catch	1C-120
Accessories	1C-320
(not for slam-lock)	1C-360
	1C-380
– Escutcheon	3B-140
– Key	8B-120

Housing brass; insert zinc die, screw 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, RH version	1000-U252-01	1000-U687	1000-U202-01	1000-U691
Double bit 3, LH version	1000-U254-01	1000-U688	1000-U204-01	1000-U692
Double bit 5, RH version	1000-U256-01	1000-U689	1000-U206-01	1000-U693
Double bit 5, LH version	1000-U258-01	1000-U690	1000-U208-01	1000-U694
Square 6, RH / LH version	1000-U260-01	–	1000-U210-01	–
Square 7, RH / LH version	1000-U262-01	–	1000-U212-01	–
Square 8, RH / LH version	1000-U264-01	–	1000-U214-01	–
Triangular 7, RH / LH version	1000-U266-01	–	1000-U216-01	–
Triangular 8, RH / LH version	1000-U268-01	–	1000-U218-01	–
Slot 2 x 4, RH / LH version	1000-U652-01	–	1000-U655-01	–
Eastern Europe Ø 13 half-round, 90° and 180° stopper, RH / LH version	1000-U713-01	–	–	–
Railway AISI 303, RH / LH version	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, RH version	1000-U714-01	1000-U725		
Double bit 3, LH version	1000-U715-01	1000-U726		
Double bit 5, RH version	1000-U716-01	1000-U727		
Double bit 5, LH version	1000-U717-01	1000-U728		
Square 6, RH / LH version	1000-U718-01	–		
Square 7, RH / LH version	1000-U719-01	–		
Square 8, RH / LH version	1000-U720-01	–		
Triangular 7, RH / LH version	1000-U721-01	–		
Triangular 8, RH / LH version	1000-U722-01	–		
Slot 2 x 4, RH / LH version	1000-U723-01	–		
Eastern Europe Ø 13 half-round, 90° and 180° stopper, RH / LH version	1000-U724-01	–		
Railway, RH / LH version	1000-U710-01	–		
Ø 8.6 with slot, RH / LH version	1000-U712-01	–		



①

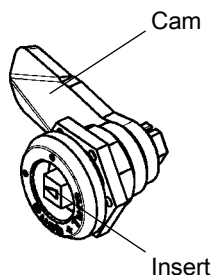


②

Safety quarter turn without mask PROGRAM 1000

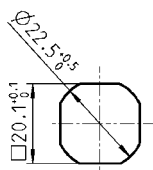


for stainless
steel version

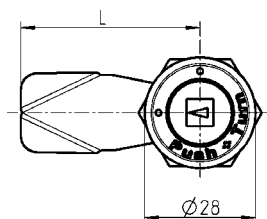
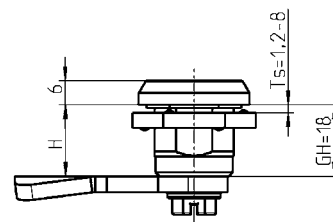


Cam

Insert



Cut out



Press down the insert
and turn!

Safety quarter turn:
The safety quarter turn 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:
Only cams without catch can be used.

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

Further parts see page

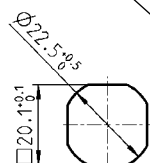
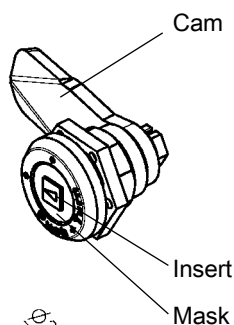
– Cam without catch 1C-120
– Accessories 1C-320
to 1C-380
– Key 8B-120

**Housing and insert material of choice,
earthing nut and screw m.s. zinc-plated or nut and screw stainless steel; with spring and seal**

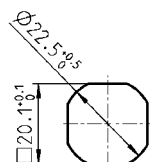
Further insert variants on request	① Zinc die chrome-plated housing labeling is immersed	② AISI 316 housing labeling is pad printed
Square 6	on request	1000-U817-01PH
Square 7	1000-U817-02IA	on request
Square 8	1000-U817-03IA	1000-U817-03PH
Triangular 7	1000-U817-04IA	on request
Triangular 8	1000-U817-05IA	1000-U817-05PH
Triangular 10	on request	1000-U817-07PH
Double bit 3	1000-U817-08IA	on request
Hexagon female SW 8	on request	1000-U817-24PH
Slot 1.2 x 3	1000-U817-16IA	on request
Slot 2 x 4	1000-U817-17IA	on request
Insert railway	1000-U817-23IA	1000-U817-23PH

Safety quarter turn with mask

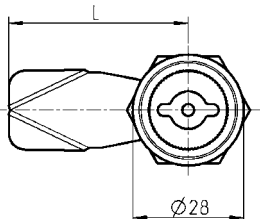
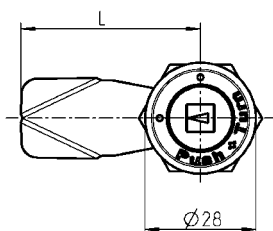
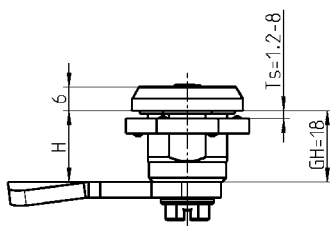
PROGRAM 1000



Cut out



Cut out



for stainless steel version



Insert square or triangular



Insert double bit

Press down the insert and turn!

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

For double-bit version: Key can only be removed in locking position.

Hole for the double bit according to DIN 43668.

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

Further parts see page
– Cam without catch 1C-120
– Accessories 1C-320
to 1C-380
– Key 8B-120

Housing and insert material of choice; mask zinc die raw;
earthing nut and screw m.s. zinc-plated or nut and screw stainless steel;
with spring and seal

Further insert variants on request

Zinc die chrome-plated

AISI 316

Square 7

1000-U818-02IA

on request

Square 8

1000-U818-03IA

on request

Triangular 7

1000-U818-04IA

on request

Triangular 8

1000-U818-05IA

on request

Housing and insert material of choice; mask stainless steel;
earthing nut and screw m.s. zinc-plated or nut and screw stainless steel; with spring and seal

Zinc die chrome-plated

AISI 316

Double bit 3, RH version

1000-U819-01IA

on request

Double bit 3, LH version

1000-U819-03IA

on request

Double bit 5, RH version

1000-U819-02IA

on request

Double bit 5, LH version

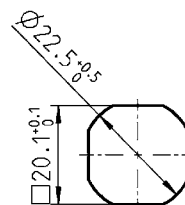
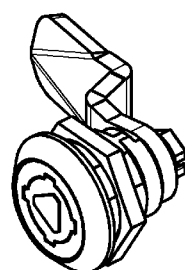
1000-U819-04IA

on request

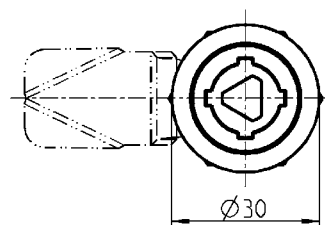
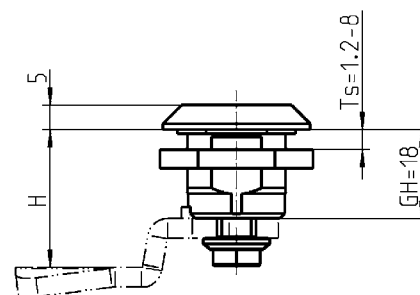
1B-332 10/15



Press down the mask
and turn the insert!



Cut out



Safety quarter turn:

The safety quarter turn 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 the finger pull (see page 1C-320)

Further parts see page

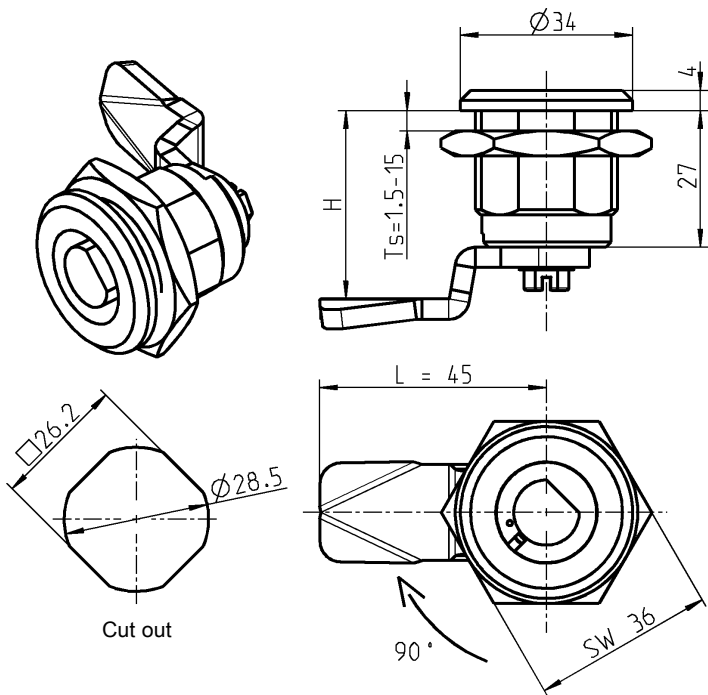
- Cam with catch 1C-120
- Accessories 1C-160
- Key to 1C-380
- 8B-120

Quarter turn zinc die black powder-coated; screw and earthing nut m.s. zinc-plated; with seal. Key removable in both positions.

Triangular 8, RH / LH version

1000-U835

Safety quarter turn Eastern Europe half-round
PROGRAM 1000



Attention:
Cut out deviating from standard

The spring-loaded insert in the direction of the arrow (type: Eastern European Ø13 half-round) can only be turned with a special key.
Key only removable in the locked position.



Housing zinc die or polyamide; 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	Part-No.	Dim. H	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:
Electric power companies
in Eastern Europe



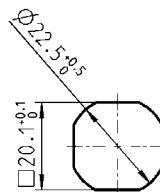
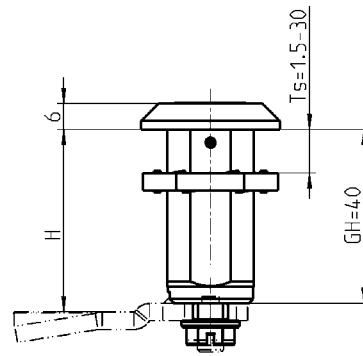
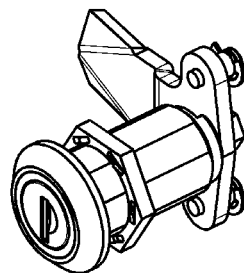
Combination of quarter turn and round cylinder for 1- and 3-point latch system.

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

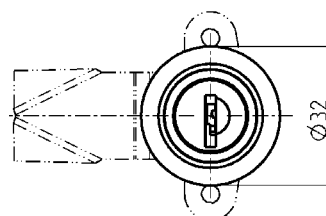
Further parts see page

- | | | |
|------------------|------|--------|
| – Cam with catch | to | 1C-120 |
| | from | 1C-180 |
| – Accessories | | 1C-170 |
| – Escutcheon | | 3B-140 |
| – Spare key | | 8B-140 |

Safety quarter turn PROGRAM 1000



Cut out



Safety quarter turn:

Removable roller, concealed square insert enables higher torque with the square key.

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

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

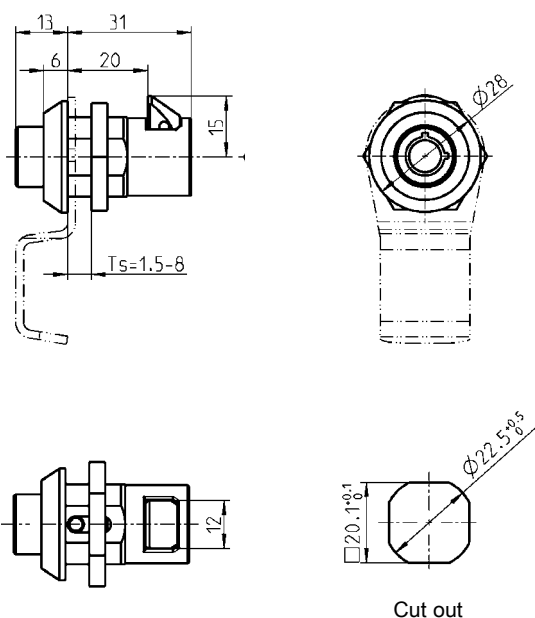
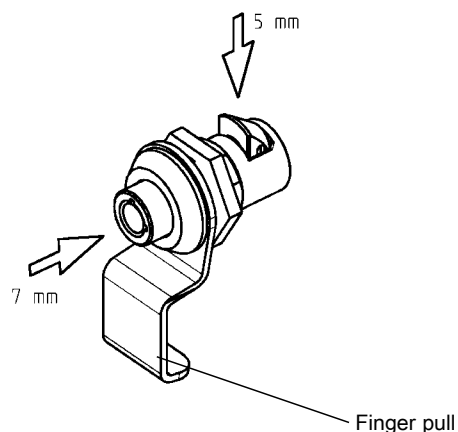
IP 65 achieved by:

Flat seal	1000-23
O-ring	1000-24

IP 66 achieved by:

Seal set	1000-U769
----------	-----------

Radial pin-push cylinder PROGRAM 1000



Radial pin-push cylinder:

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



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

Index



Application:
Computer housing
Deutsche Bahn

Attention:
When using a finger pull, the dimension changes from 20 to 18 mm or TS_{max} becomes 6 mm.

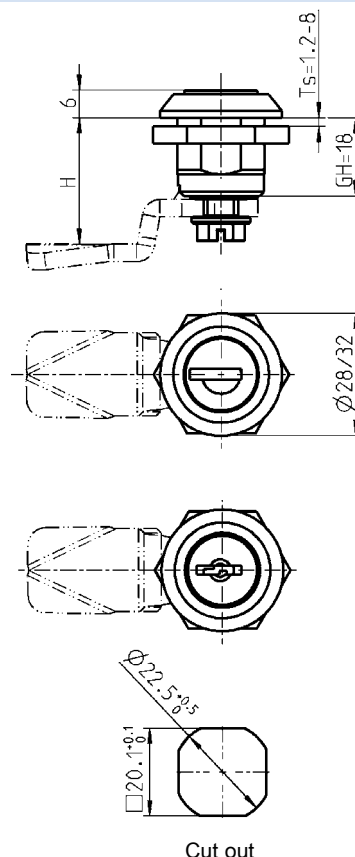
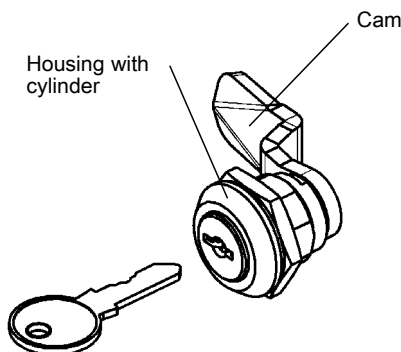
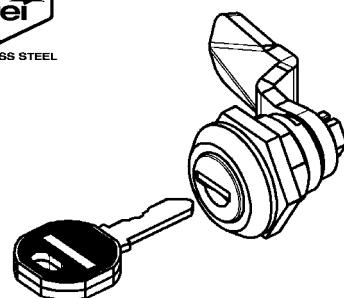
Radial pin-push cylinder housing zinc die; push cylinder brass / zinc die nickel-plated;
locking bolt zinc die zinc-plated; nut m.s. zinc-plated

	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


**AISI
INOX**


Cylinder quarter turn PROGRAM 1000



Cylinder quarter turn housing zinc die surface of choice;
round cylinder zinc die with stainless steel cap and dust protection;
nut, earthing nut and screw m.s. zinc-plated.
Each round cylinder has one silver steel key with grip polyamide GF black.

Housing zinc die	chrome-plated		black powder-coated	
	Nut	Earthing nut	Nut	Earthing nut
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

Cylinder quarter turn AISI 316; round cylinder, nut, screw and serrated washer stainless steel.
Each round cylinder has one silver steel key with grip polyamide GF black.

	Nut stainless steel	Earthing nut
keyed EK 333, D = 28 mm	1048-U6-PH	–
keyed different, D = 28 mm	1048-U7-PH	–

Cylinder quarter turn housing with round cylinder polyamide GF black;
screw m.s. zinc-plated; nut m.s. zinc-plated or polyamide black.
Each round cylinder has one key of m.s. nickel-plated.

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

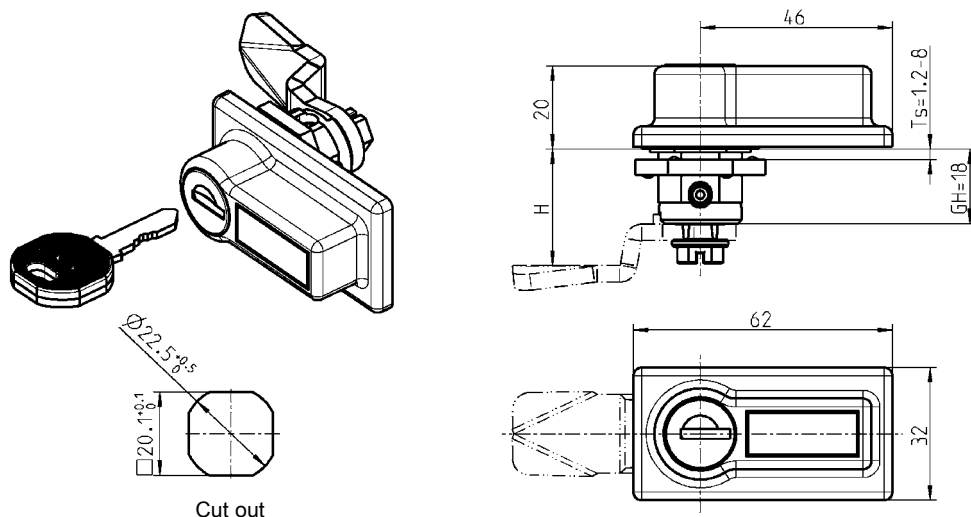
Key removable in both positions

Further parts see page

- Cam with catch from 1C-120
- (not for cam with rod control) 1C-160
- Slam cam 1C-180
- Accessories 1C-320
- 1C-360
- 1C-380
- Escutcheon 3B-140
- Spare key 8B-140

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

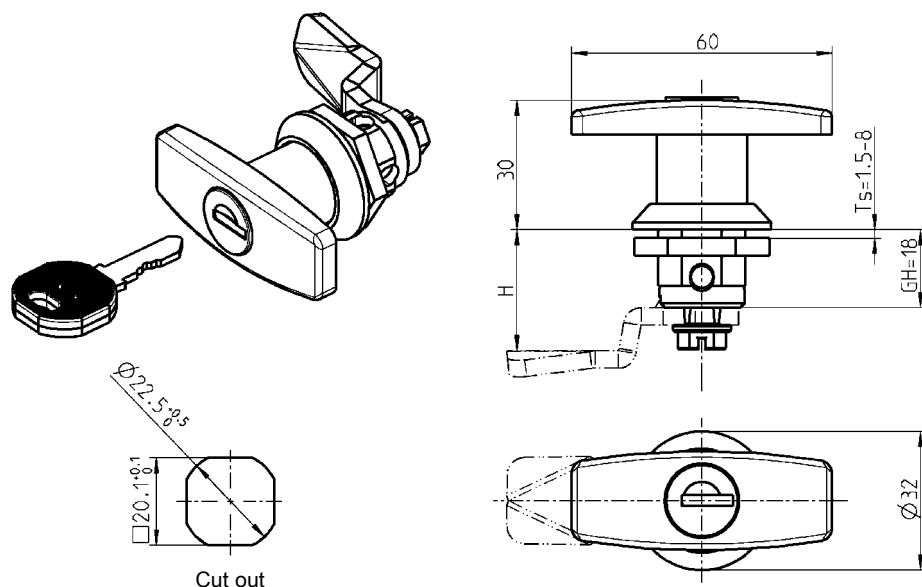
Panel handle quarter turn



Handle polyamide GF black; housing zinc die black powder-coated;
round cylinder zinc die with stainless steel cap and dust protection;
nut, earthing nut and fixing material m.s. zinc-plated; with spring and seal.
Each round cylinder has one silver steel key with grip polyamide black.
Key removable in both positions.

	Nut	Earthing nut
keyed EK 333	-	1000-U844
keyed different	-	1000-U845

T-handle quarter turn, small



T-handle polyamide GF black; housing zinc die black powder-coated;
round cylinder zinc die with stainless steel cap and dust protection;
nut, earthing nut and fixing material m.s. zinc-plated; with spring and seal.
Each round cylinder has one silver steel key with grip polyamide black.
Key removable in both positions.

	Nut	Earthing nut
non locking	1000-U775	1000-U775-01
keyed EK 333	1000-U773	1000-U773-01
keyed different	1000-U774	1000-U774-01

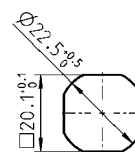
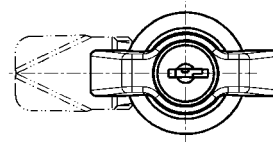
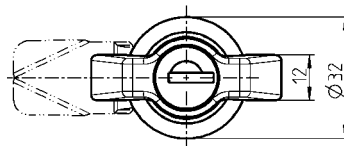
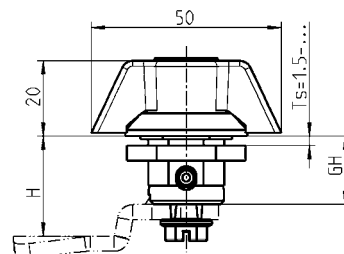
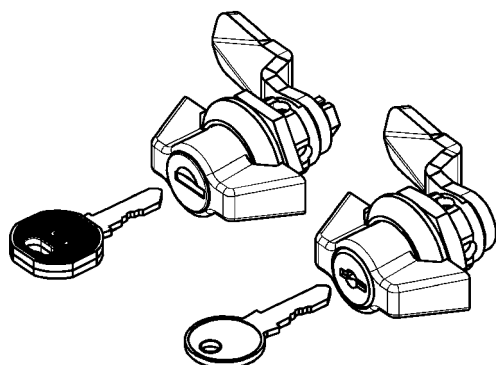


Further parts see page

- Cam with catch	1C-120 to 1C-180
- Accessories	from 1C-340
- Escutcheon	3B-140
- Spare key	8B-140

Wing knob quarter turn

PROGRAM 1000



Cut out

Cylinder zinc die

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

Cylinder polyamide

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

Wing knob

IP 65

Wing knob, housing zinc die chrome-plated; with seal;
nut, earthing nut and screw m.s. zinc-plated.

Round cylinder zinc die with stainless steel cap and dust protection.
Each round cylinder has one silver steel key with grip polyamide GF black.

GH 18 mm	Ts 1.5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U149	1000-U150	1000-U151
with earthing nut		1000-U152	1000-U153	1000-U154
30 mm	20 mm			
with nut		1000-U269	1000-U271	1000-U273
with earthing nut		1000-U270	1000-U272	1000-U274
40 mm	30 mm			
with nut		1000-U275	1000-U277	1000-U279
with earthing nut		1000-U276	1000-U278	1000-U280
50 mm	40 mm			
with nut		1000-U281	1000-U283	1000-U285
with earthing nut		1000-U282	1000-U284	1000-U286
60 mm	50 mm			
with nut		1000-U633	1000-U635	1000-U637
with earthing nut		1000-U634	1000-U636	1000-U638



Wing knob

IP 65

Wing knob, housing zinc die black powder-coated; nut, earthing nut and screw m.s. zinc-plated; with seal. Round cylinder zinc die with stainless steel cap and dust protection. Each round cylinder has one silver steel key with grip polyamide GF black.

GH 18 mm	Ts 1.5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U241	1000-U237	1000-U239
with earthing nut		1000-U242	1000-U238	1000-U240
30 mm	20 mm			
with nut		1000-U403	1000-U405	1000-U407
with earthing nut		1000-U404	1000-U406	1000-U408
40 mm	30 mm			
with nut		1000-U409	1000-U411	1000-U413
with earthing nut		1000-U410	1000-U412	1000-U414
50 mm	40 mm			
with nut		1000-U415	1000-U417	1000-U419
with earthing nut		1000-U416	1000-U418	1000-U420
60 mm	50 mm			
with nut		1000-U639	1000-U641	1000-U643
with earthing nut		1000-U640	1000-U642	1000-U644

Wing knob

IP 65

Wing knob, housing, nut and screw AISI 316; with seal. Round cylinder stainless steel with stainless steel cap and dust protection. Each round cylinder has one silver steel key with grip polyamide GF black.

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

Wing knob polyamide black; housing zinc die black powder-coated; nut, earthing nut and screw m.s. zinc-plated; with seal. Round cylinder zinc die with stainless steel cap and dust cap. Each round cylinder has one silver steel key with grip polyamide GF black.

Wing knob, housing, round cylinder and nut polyamide black (IP 40). Each round cylinder has one m.s. nickel-plated key.

GH 18 mm	Ts 1.5 - 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 earthing nut		1000-U344	1000-U346	1000-U348	-	-
30 mm	20 mm					
with nut		1000-U512	1000-U514	1000-U516	-	-
with earthing nut		1000-U513	1000-U515	1000-U517	-	-
40 mm	30 mm					
with nut		1000-U518	1000-U520	1000-U522	-	-
with earthing nut		1000-U519	1000-U521	1000-U523	-	-
50 mm	40 mm					
with nut		1000-U524	1000-U526	1000-U528	-	-
with earthing nut		1000-U525	1000-U527	1000-U529	-	-
60 mm	50 mm					
with nut		1000-U645	1000-U647	1000-U649	-	-
with earthing nut		1000-U646	1000-U648	1000-U650	-	-

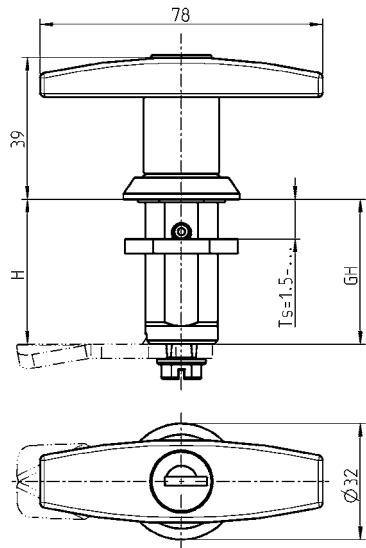
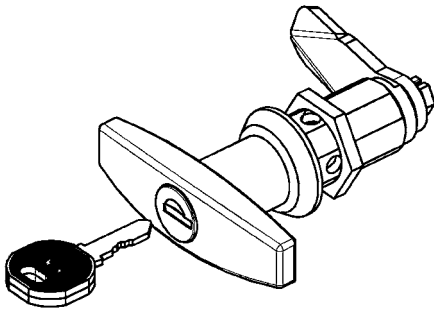


Further parts see page

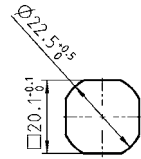
- Cam with catch 1C-120 to 1C-180
- Accessories from 1C-340
- Escutcheon 3B-140
- Spare key 8B-140

T-handle quarter turn

PROGRAM 1000



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



Cut out

T-handle quarter turn,
prepared for KABA cylinder type 1036 with standard locking
and / or master key system on request.

T-handle		T-handle, housing zinc die chrome-plated; with seal; nut, earthing nut and screw m.s. zinc-plated.		
IP 65		Round cylinder zinc die with stainless steel cap and dust protection. Each round cylinder has one silver steel key with grip polyamide GF black.		
GH 18 mm	Ts 1.5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U9	1000-U10	1000-U11
with earthing nut		1000-U60	1000-U61	1000-U62
30 mm	20 mm			
with nut		1000-U116	1000-U118	1000-U120
with earthing nut		1000-U117	1000-U119	1000-U121
40 mm	30 mm			
with nut		1000-U122	1000-U124	1000-U126
with earthing nut		1000-U123	1000-U125	1000-U127
50 mm	40 mm			
with nut		1000-U128	1000-U130	1000-U132
with earthing nut		1000-U129	1000-U131	1000-U133
60 mm	50 mm			
with nut		1000-U594	1000-U596	1000-U598
with earthing nut		1000-U595	1000-U597	1000-U599



T-handle

IP 65

T-handle, housing zinc die black powder-coated; nut, earthing nut and screw m.s. zinc-plated; with seal. Round cylinder zinc die with stainless steel cap and dust protection.

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

GH 18 mm	Ts 1.5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U337	1000-U338	1000-U339
with earthing nut		1000-U340	1000-U341	1000-U342
30 mm	20 mm			
with nut		1000-U372	1000-U374	1000-U376
with earthing nut		1000-U373	1000-U375	1000-U377
40 mm	30 mm			
with nut		1000-U378	1000-U380	1000-U382
with earthing nut		1000-U379	1000-U381	1000-U383
50 mm	40 mm			
with nut		1000-U384	1000-U386	1000-U388
with earthing nut		1000-U385	1000-U387	1000-U389
60 mm	50 mm			
with nut		1000-U600	1000-U602	1000-U604
with earthing nut		1000-U601	1000-U603	1000-U605



T-handle

IP 65

T-handle, housing, nut and screw AISI 316; with seal. Round cylinder stainless steel with stainless steel cap and dust protection.

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

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

T-handle polyamide black; housing zinc die black powder-coated; nut, earthing nut and screw m.s. zinc-plated; with seal. Round cylinder zinc die with stainless steel cap and dust cap. Each round cylinder has one silver steel key with grip polyamide GF black.

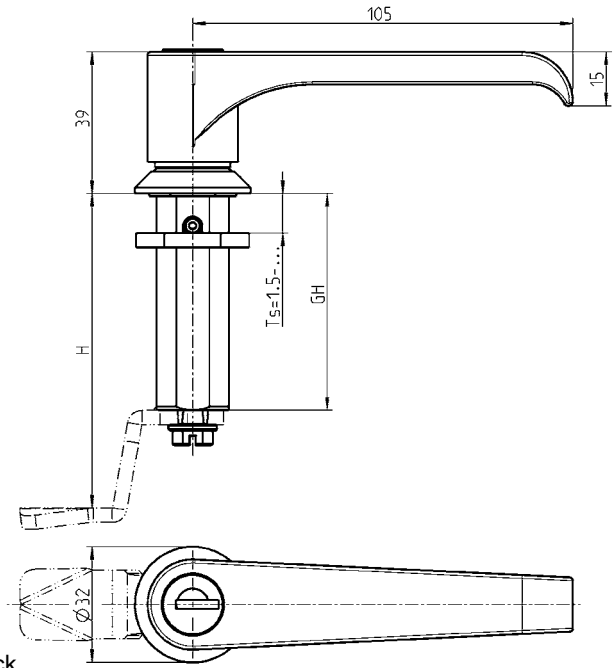
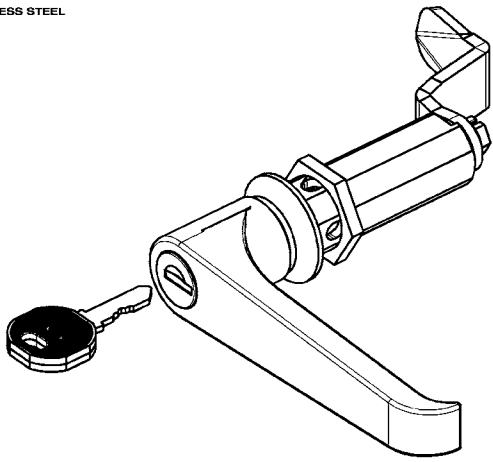
GH 18 mm	Ts 1.5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U546	1000-U548	1000-U550
with earthing nut		1000-U547	1000-U549	1000-U551
30 mm	20 mm			
with nut		1000-U552	1000-U554	1000-U556
with earthing nut		1000-U553	1000-U555	1000-U557
40 mm	30 mm			
with nut		1000-U558	1000-U560	1000-U562
with earthing nut		1000-U559	1000-U561	1000-U563
50 mm	40 mm			
with nut		1000-U564	1000-U566	1000-U568
with earthing nut		1000-U565	1000-U567	1000-U569
60 mm	50 mm			
with nut		1000-U606	1000-U608	1000-U610
with earthing nut		1000-U607	1000-U609	1000-U611

Further parts see page

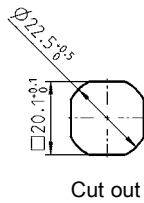
- Cam with catch 1C-120 to 1C-180
- Accessories from 1C-340
- Escutcheon 3B-140
- Spare key 8B-140

L-handle quarter turn

PROGRAM 1000



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



L-handle quarter turn,
prepared for KABA cylinder type 1036 with standard locking
and / or master key system on request.

L-handle		L-handle, housing zinc die chrome-plated; with seal; nut, earthing nut and screw m.s. zinc-plated.		
IP 65		Round cylinder zinc die with stainless steel cap and dust protection.		
Each round cylinder has one silver steel key with grip polyamide GF black.				
GH 18 mm	Ts 1.5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U14	1000-U15	1000-U16
with earthing nut		1000-U57	1000-U58	1000-U59
30 mm	20 mm			
with nut		1000-U98	1000-U100	1000-U102
with earthing nut		1000-U99	1000-U101	1000-U103
40 mm	30 mm			
with nut		1000-U104	1000-U106	1000-U108
with earthing nut		1000-U105	1000-U107	1000-U109
50 mm	40 mm			
with nut		1000-U110	1000-U112	1000-U114
with earthing nut		1000-U111	1000-U113	1000-U115
60 mm	50 mm			
with nut		1000-U612	1000-U614	1000-U616
with earthing nut		1000-U613	1000-U615	1000-U617



L-handle

IP 65

L-handle, housing zinc die black powder-coated;
nut, earthing nut and screw m.s. zinc-plated; with seal.
Round cylinder zinc die with stainless steel cap
and dust protection.

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

GH 18 mm	Ts 1.5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U353	1000-U390	1000-U391
with earthing nut		1000-U392	1000-U393	1000-U394
30 mm	20 mm			
with nut		1000-U354	1000-U356	1000-U358
with earthing nut		1000-U355	1000-U357	1000-U359
40 mm	30 mm			
with nut		1000-U360	1000-U362	1000-U364
with earthing nut		1000-U361	1000-U363	1000-U365
50 mm	40 mm			
with nut		1000-U366	1000-U368	1000-U370
with earthing nut		1000-U367	1000-U369	1000-U371
60 mm	50 mm			
with nut		1000-U618	1000-U620	1000-U622
with earthing nut		1000-U619	1000-U621	1000-U623

L-handle

IP 65

L-handle, housing, nut and screw AISI 316; with seal.
Round cylinder stainless steel with stainless steel cap
and dust protection.

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

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

L-handle polyamide black;
housing zinc die black powder-coated;
nut, earthing nut and screw m.s. zinc-plated; with seal.
Round cylinder zinc die with stainless steel cap and dust cap.
Each round cylinder has one silver steel key
with grip polyamide GF black.

GH 18 mm	Ts 1.5 - 8 mm	non locking	keyed EK 333	keyed different
with nut		1000-U570	1000-U572	1000-U574
with earthing nut		1000-U571	1000-U573	1000-U575
30 mm	20 mm			
with nut		1000-U576	1000-U578	1000-U580
with earthing nut		1000-U577	1000-U579	1000-U581
40 mm	30 mm			
with nut		1000-U582	1000-U584	1000-U586
with earthing nut		1000-U583	1000-U585	1000-U587
50 mm	40 mm			
with nut		1000-U588	1000-U590	1000-U592
with earthing nut		1000-U589	1000-U591	1000-U593
60 mm	50 mm			
with nut		1000-U624	1000-U626	1000-U628
with earthing nut		1000-U625	1000-U627	1000-U629



Further parts see page

– Cam with catch 1C-120 to 1C-180
– Accessories from 1C-340
– Escutcheon 3B-140
– Spare key 8B-140

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
Index

L-handle quarter turn PROGRAM 1000



IP 65 on request!

Insert with spring-loaded return
(two-hand operation)



IP 65

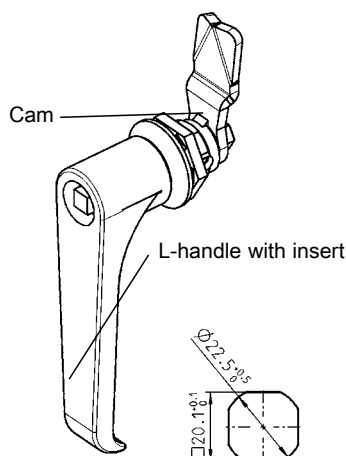
Attention:
L-handle is locked when
a padlock is fitted.

Further parts see page

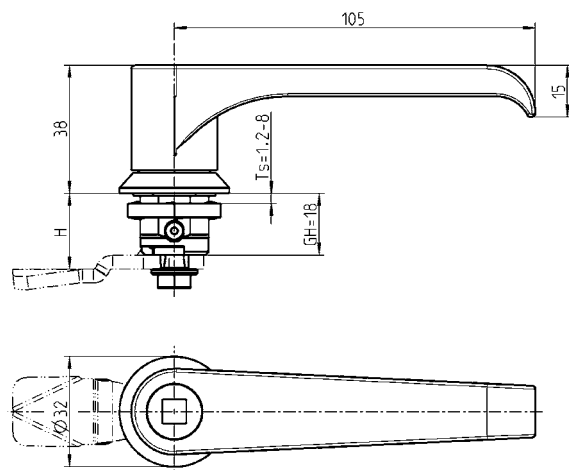
– Cam with catch	1C-120
	1C-180
– Accessories	to 1C-340
– Escutcheon	3B-140
– Key	8B-120

1B-620

(1B-290)

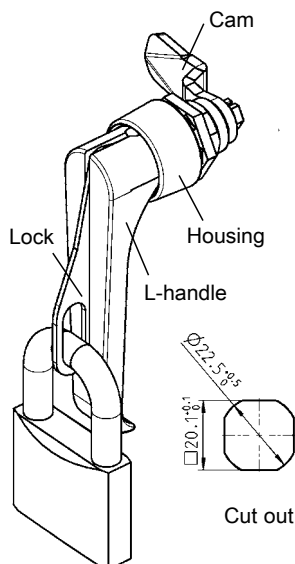


Cut out

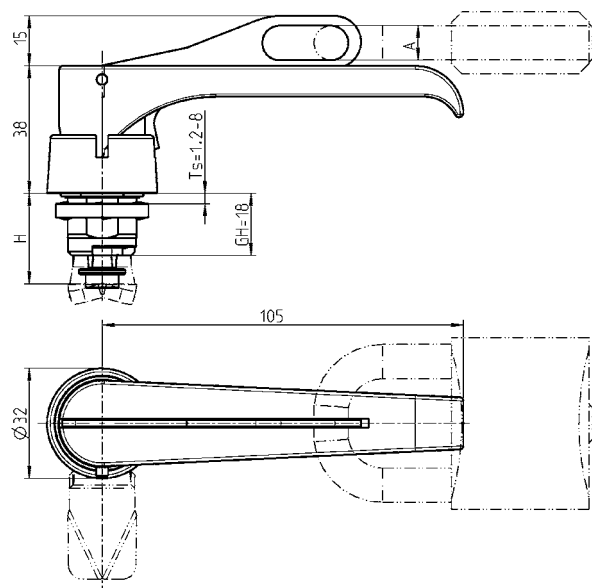


L-handle with housing and insert zinc die;
earthing nut and screw m.s. zinc-plated; with seal

	chrome-plated	black powder-coated		chrome-plated	black powder-coated
Square 7	1000-U89	1000-U395	Double bit 5	1000-U94	1000-U400
Square 8	1000-U90	1000-U396	Daimler Benz	1000-U95	1000-U401
Triangular 6.5 CNOMO	1000-U423	1000-U422	Slot 2 x 4	1000-U434	1000-U435
Triangular 7	1000-U91	1000-U397	Slot 1.2 x 3	1000-U656	1000-U657
Triangular 8	1000-U92	1000-U398	Eastern Europe	1000-U659	1000-U660
Double bit 3	1000-U93	1000-U399	Ø 13 half-round		



Cut out



L-handle with housing zinc-die; lock and spring stainless steel;
earthing nut and screw m.s. zinc-plated; with seal

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

L-handle quarter turn for padlock

PROGRAM 1000



Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

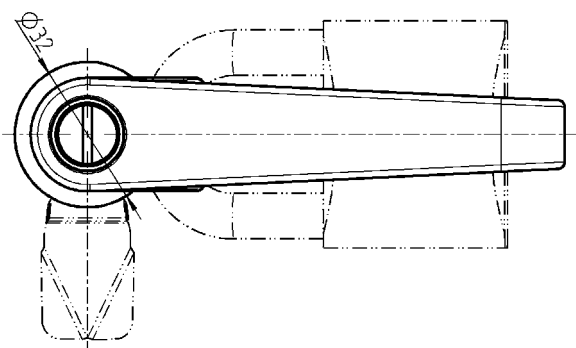
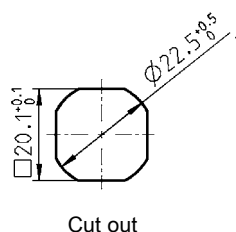
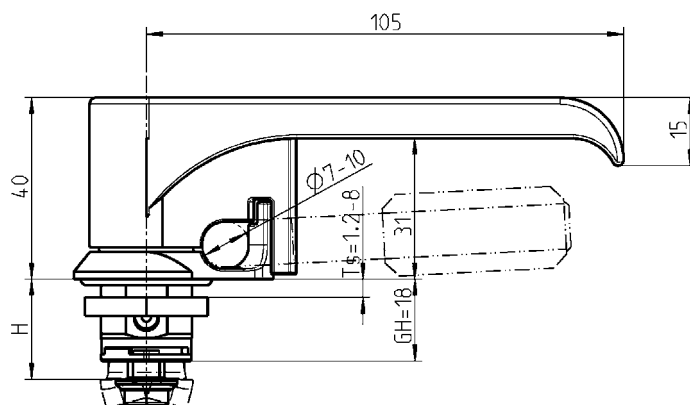
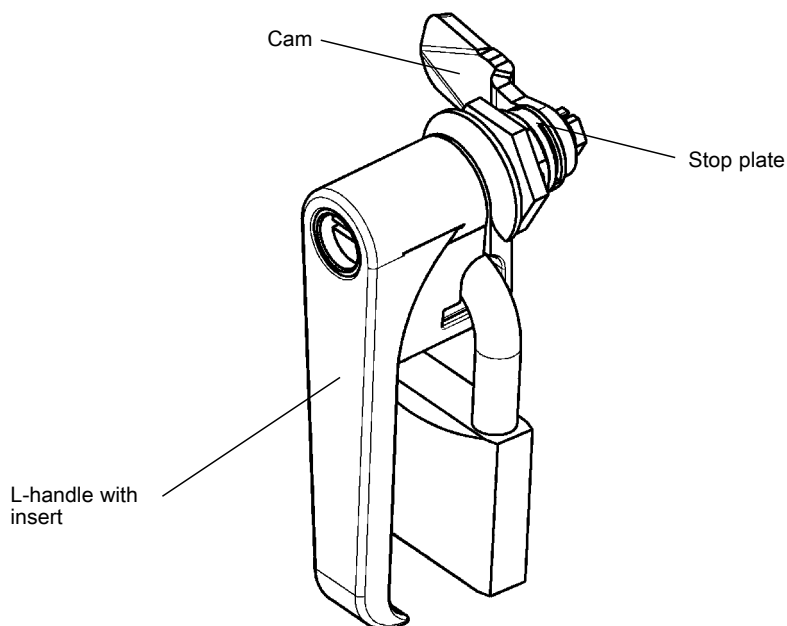
9 Special catalogues

Index

Beschlagteile



IP 65



L-handle with housing zinc die black powder-coated;
stop plate zinc die right and left usable;
nut and screw m.s. zinc-plated; with seal

with insert slot 2 x 4 coinproof zinc die chrome-plated

1000-U770

without insert

1000-U771

**Insert is spring-loaded
(2 hand operation)**

Attention:

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

Further parts see page

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

Further inserts
(e.g. see page 1B-620)

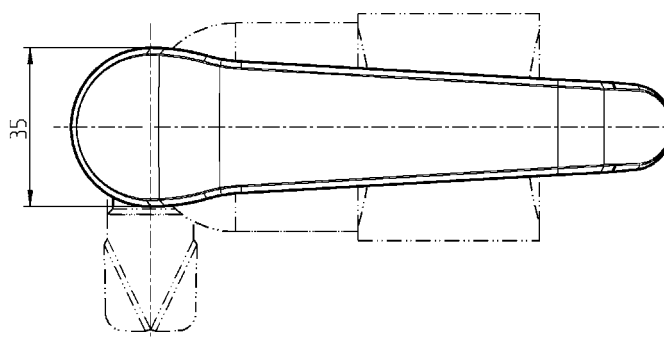
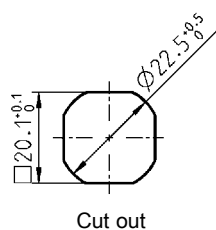
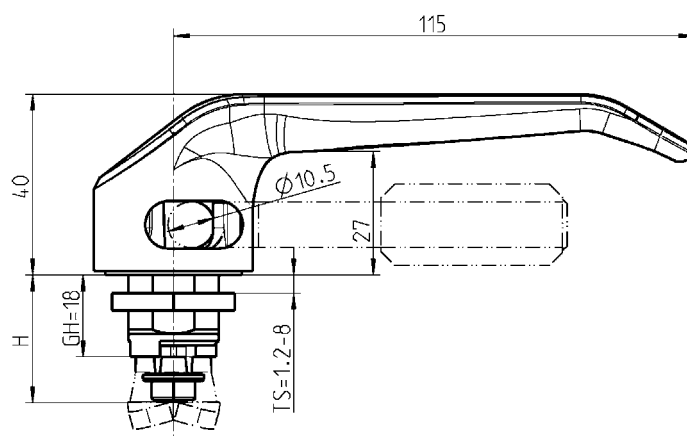
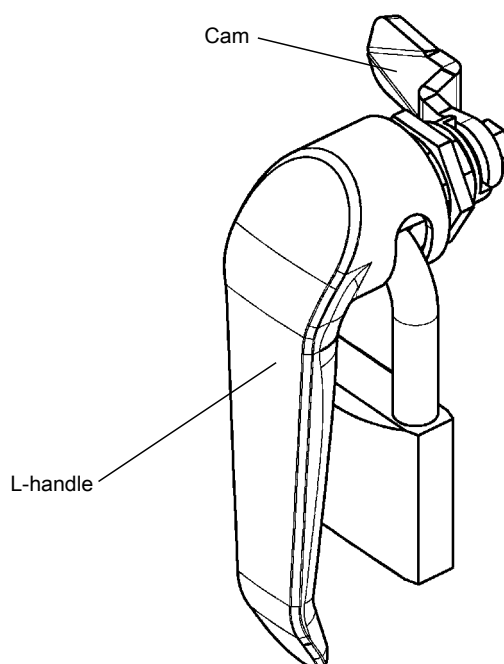
on request!

1B-640 03/08

(1B-295)



L-handle quarter turn for padlock PROGRAM 1000



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

Further parts see page
– Cam with catch

1C-120

**L-handle material of choice;
nut and screw m.s. zinc-plated or stainless steel;
with seal**

Zinc die black powder-coated

1000-U860-01AA

Zinc die chrome-plated

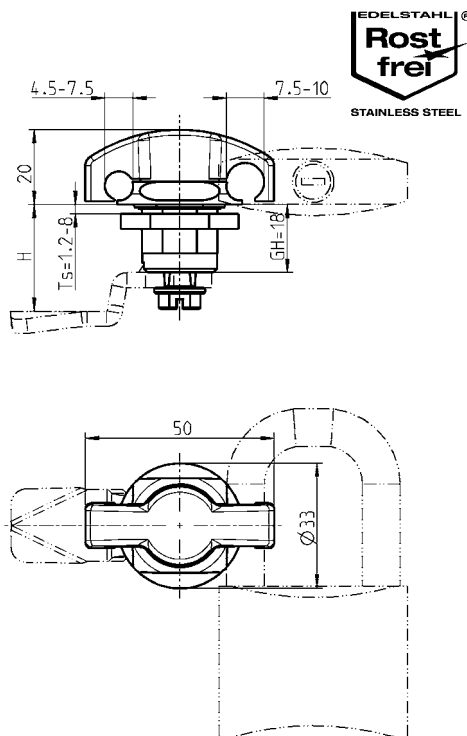
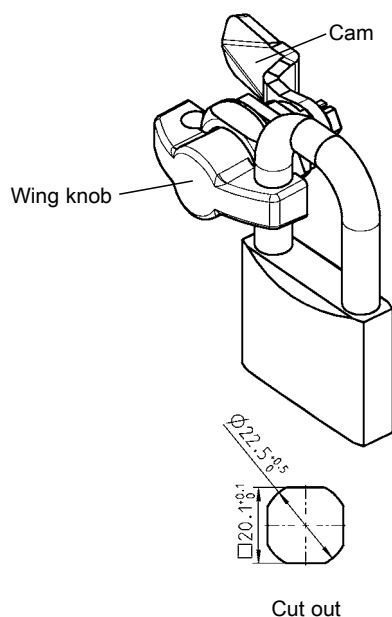
1000-U860-011A

AISI 316

1000-U860

Quarter turn for padlock

PROGRAM 1000

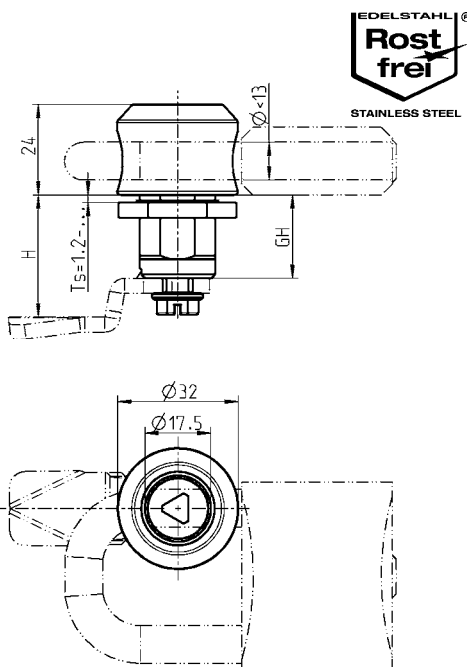
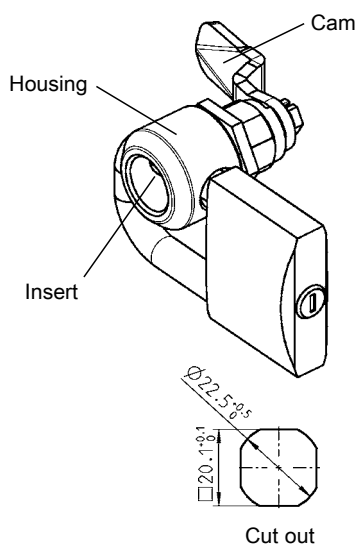


Wing knob and housing zinc die black powder-coated;
nut and screw m.s. zinc-plated; with seal

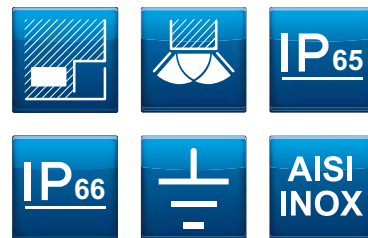
1000-U429-01

Wing knob and housing AISI 316;
nut and screw stainless steel; with seal.

1000-U429-01PH



GH	TS<	Housing zinc die black powder-coated; nut m.s. zinc-plated	Housing zinc die black powder-coated; earthing nut m.s. zinc-plated	Housing AISI 303; nut AISI 303
22	13	1000-U436	1000-U438	1000-U436-PF
32	23	1000-U437	1000-U439	-
42	33	1000-U734	1000-U735	-



IP 65

Attention:

The wing knob cannot be moved when the padlock with the corresponding shackle diameter is hooked in.

For shackle Ø 4.5 to 10

Further parts see page

– Cam with catch 1C-120 to 1C-180
– Accessories from 1C-340



For shackle ≤ Ø 13

Note:

Quarter turn assembly 1B-105

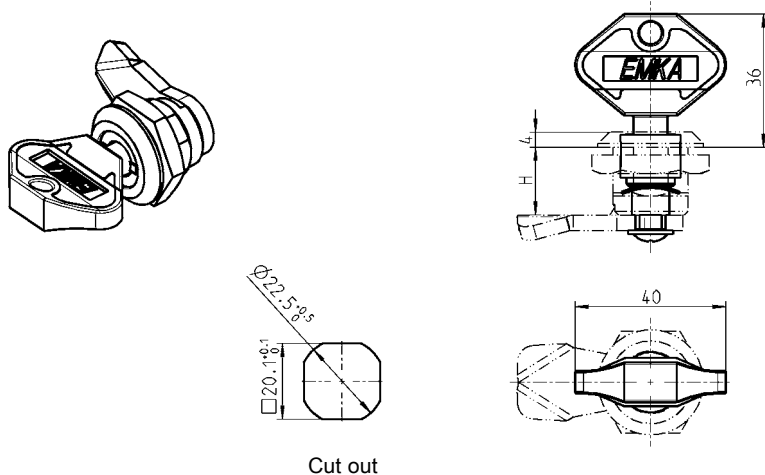
Further parts see page

– Insert 1B-140
– IP 65 or IP 66 1B-140
– Cam with catch 1C-120
– Accessories from 1C-340
– Escutcheon 3B-140
– Key 8B-120

Clip-in key, Wing knob for insert PROGRAM 1000

Clip-in key

Key can be used as handle



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

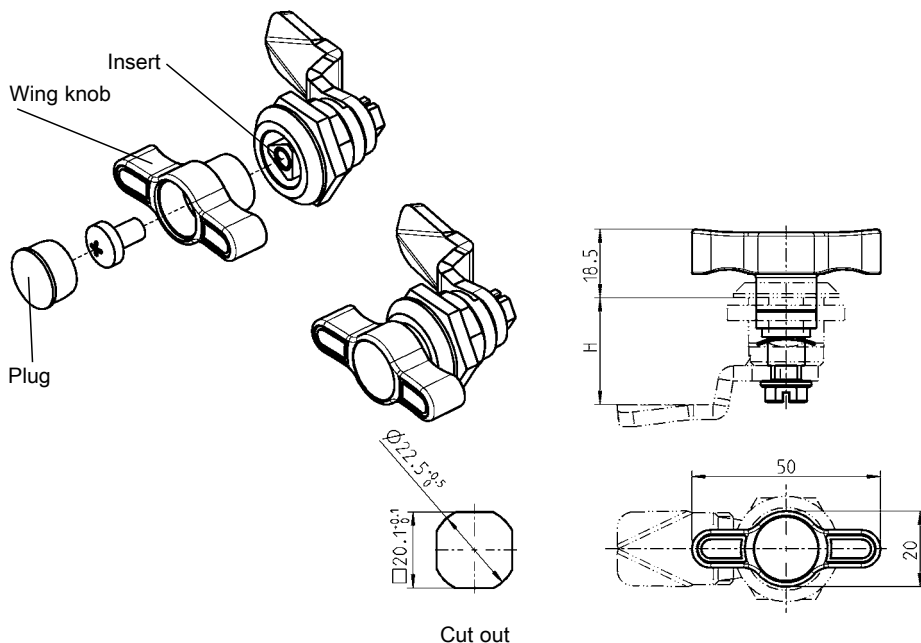
**Insert polyamide black;
spring washer and self-cutting screw m.s. zinc-plated**

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

Key polyamide black

Key double bit 3	1004-34-01	Key double bit 5	1004-33-01
------------------	------------	------------------	------------

Wing knob for insert



**Wing knob polyamide GF black; plugs PE black;
fixing material m.s. zinc-plated**

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

Insert with female thread M6 zinc die chrome-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
to 1C-180
– Accessories from 1C-340

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

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IP 40

Characteristics:
Easy to install!

Easy to assemble by using
clip fix plastic parts.



Attention:
GH reduced from 18 to 15

Note:
Quarter turn assembly 1B-105

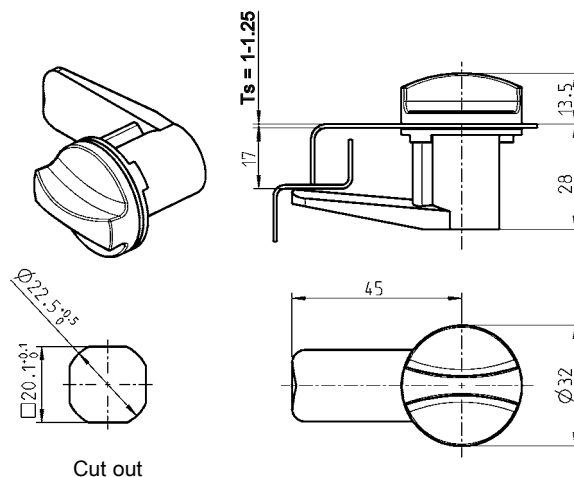
Further parts see page

- Insert 1B-140
- Cam with catch (GH = 18) 1C-120
- Attention: With this cam, the H-dimension is reduced by 3 mm.
- Key 8B-120

1B-760

(1B-220)

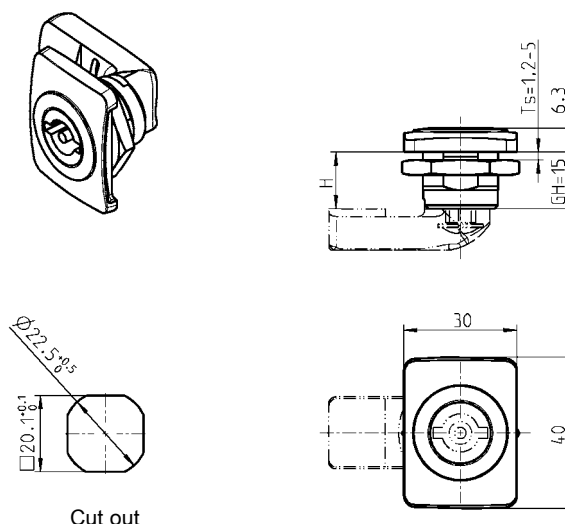
Clip-in quarter turn



Clip-in quarter turn polyamide GF, RH / LH version

black	1000-U349
grey RAL 7032	1000-U350

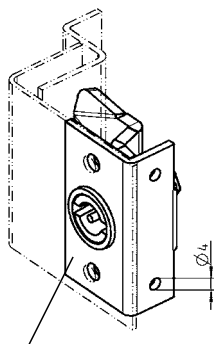
Housing for quarter turns



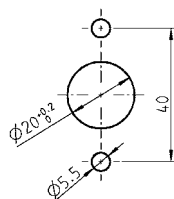
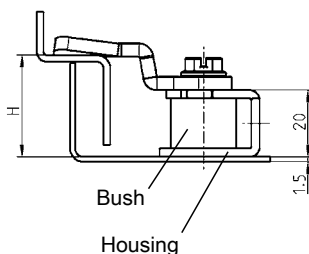
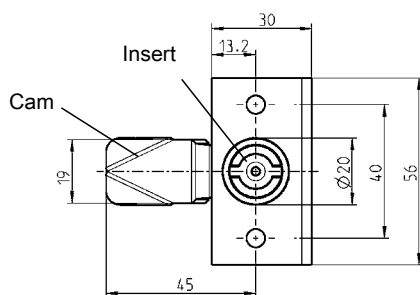
Housing polyamide GF black; nut m.s. zinc-plated

Right-hand version	1000-U740
Left-hand version	1000-U740-01
IP 65 achieved by:	
Flat seal	1000-23
O-ring	1000-24
IP 66 achieved by:	
Seal set	1000-U769

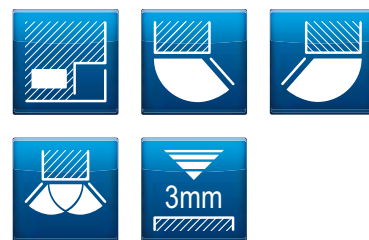
Quarter turn, screw-on or weld-on PROGRAM 1000



Bush with flush housing
available on request



Cut out
Bore holes Ø 5.5
are omitted when
welding on



Cam m.s. zinc-plated Dim. H

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

Housing m.s. raw; bush zinc die zinc-plated

Right-hand version as drawn	1057-U1
Left-hand version	1057-U2

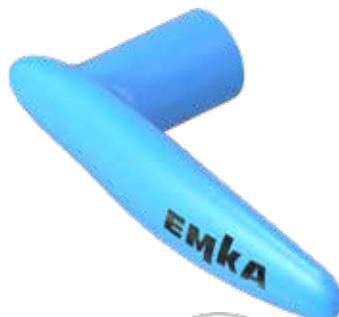
Housing also available zinc-plated on request.

Further parts see page

– Insert
– Key

1B-140
8B-120

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
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8 Miscellaneous
9 Special catalogues
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Note:
The quarter turns for hygienic areas meet the hygiene requirement acc. to DIN EN 1672-2, DIN EN 14159 and EHEDG Dok.8.

The seals meet the requirements of the FDA 21 CFR 177.2600 and VO 1935/2004.

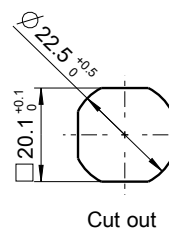
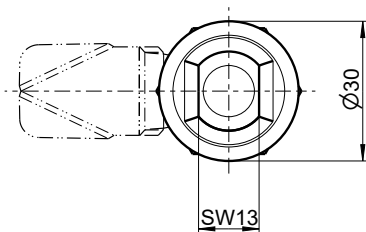
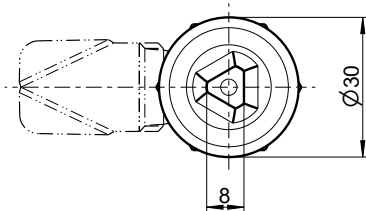
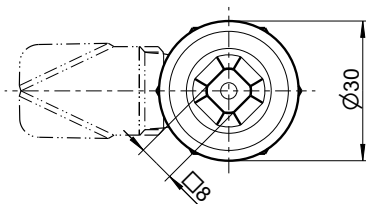
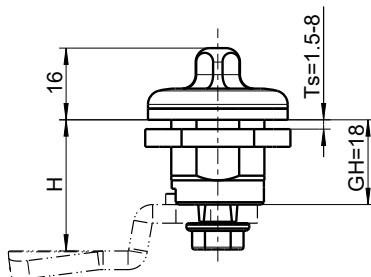
Further parts see page
– Cam with catch (GH = 18) 1C-120

Stainless steel quarter turn for hygienic areas PROGRAM 1000



Quarter turn for hygienic areas for food and medical sector

St. steel quarter turn for hygienic areas with flat seal flush on the outside



Quarter turn for hygienic areas AISI 303 or 316L; with seal

AISI 303 - for food sector

AISI 316L - for food and medical sector

Square 8, AISI 303	1000-U960-01PF
Square 8, AISI 316L	1000-U960-01
Triangular 8, AISI 303	1000-U941-01PF
Triangular 8, AISI 316L	1000-U941-01
Hygiene SW 13, AISI 303	1000-U838-02PF
Hygiene SW 13, AISI 316L	1000-U838-02

Key handle polyamide blue

Square 8	1004-62
Triangular 8	1004-61
Hygiene SW 13	1004-60

Key zinc die raw

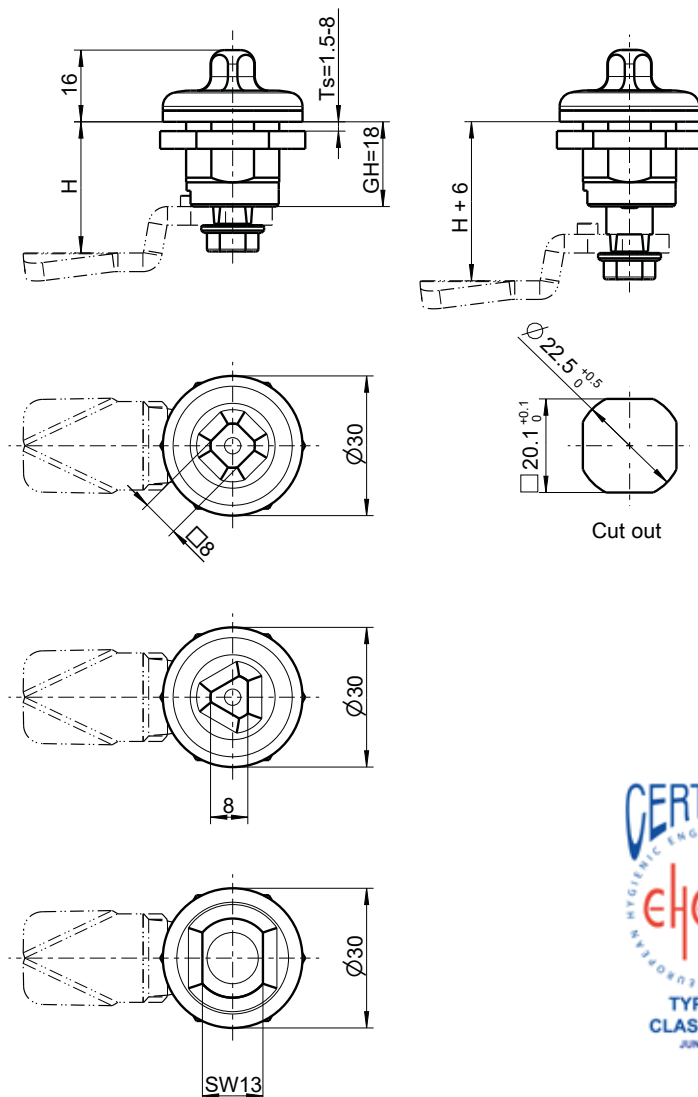
Hygiene SW 13	1004-53
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Stainless steel compression latch for hygienic areas

PROGRAM 1000

Compression latch for hygienic areas for food and medical sector

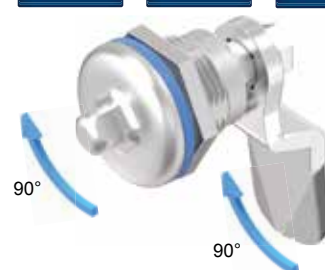
St. steel compression latch for hygienic areas with flat seal flush on the outside



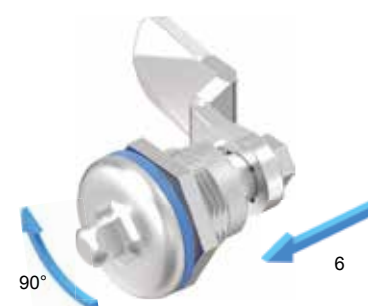
EMKA

Info

Beschlagteile



Open condition
Turning the insert 90° causes the cam to rotate.



Closed condition
Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition

Open:
Reversed motion

Note:
The compression latches for hygienic areas meet the hygiene requirement acc. to DIN EN 1672-2, DIN EN 14159 and EHEDG Dok.8.

The seals meet the requirements of the FDA 21 CFR 177.2600 and VO 1935/2004.

Further parts see page
– Cam with catch 1C-120
(GH = 18)

1B-836 02/21

Compression latch for hygienic areas AISI 303 or 316L; with seal

AISI 303 - for food sector

AISI 316L - for food and medical sector

Square 8, AISI 303	on request
Square 8, AISI 316L	1000-U963
Triangular 8, AISI 303	on request
Triangular 8, AISI 316L	1000-U962
Hygiene SW 13, AISI 303	on request
Hygiene SW 13, AISI 316L	1000-U961

Key handle polyamide black

Square 8	1004-62
Triangular 8	1004-61
Hygiene SW 13	1004-60

Key zinc die raw

Hygiene SW 13	1004-53
---------------	---------

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

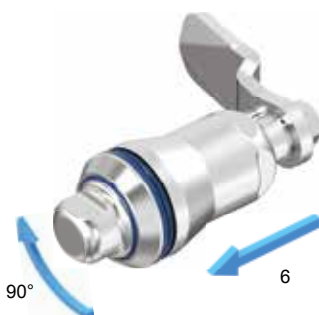
9 Special catalogues

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Open condition

Turning the insert 90° causes the cam to rotate.



Closed condition

Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition

Open:

Reversed motion

Further parts see page

– Cam with or without catch

1C-120

® Stainless steel compression latch for hygienic areas

PROGRAM 1000



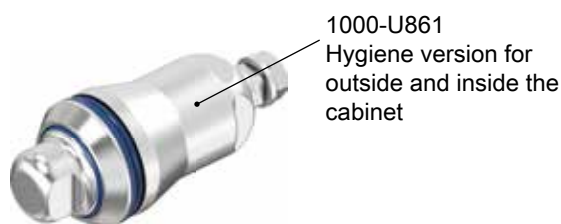
The compression latch for hygienic areas meets the hygiene requirement acc. to DIN EN 1672-2 and DIN EN 14159.

This item is completely IP69K, 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.

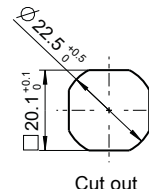
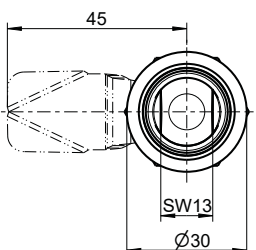
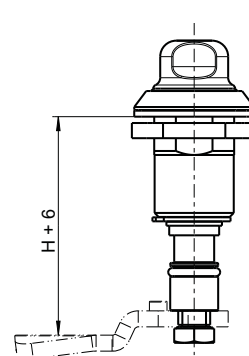
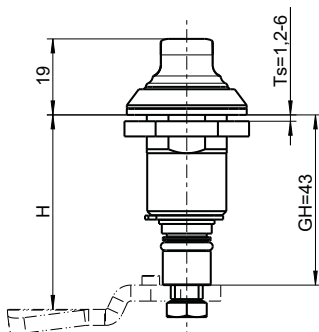
Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.



1000-U861
Hygiene version for outside and inside the cabinet



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



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

Hygiene version for outside and inside the cabinet

on request

Hygiene version for outside the cabinet, not for inside

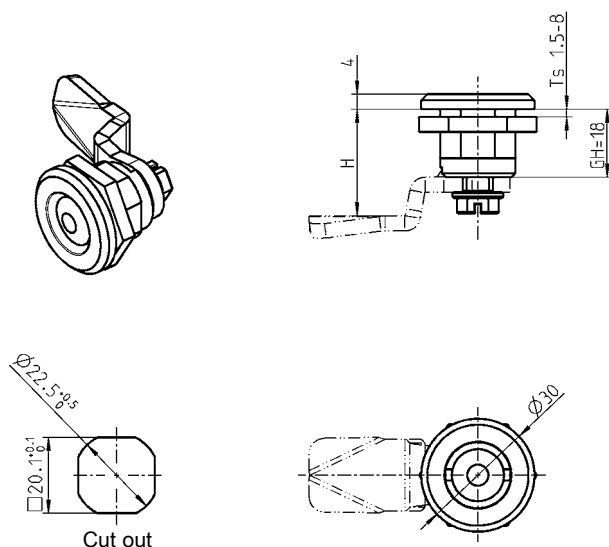
1000-U862

Key zinc die raw

1004-53

Quarter turn PROGRAM 1000

Quarter turn for Swedish power companies
EBR standard



Housing with insert zinc die chrome-plated; screw and nut m.s. zinc-plated

1000-U768

IP 65 achieved by:

Flat seal

1000-23

O-ring

1000-24

IP 66 achieved by:

Seal set

1000-U769

Assembly on request

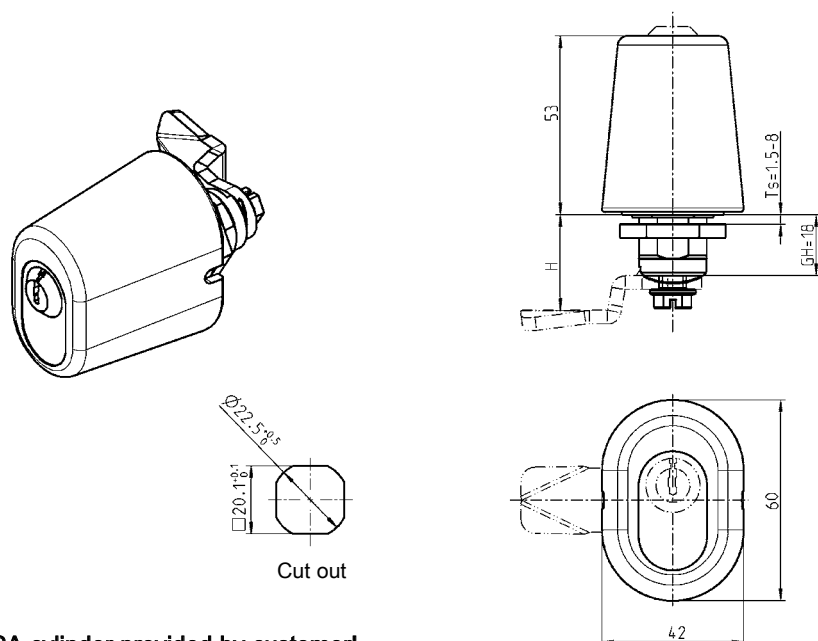
without O-ring

1000-990

with O-ring

1000-991

Wing knob quarter turn for ASSA cylinder



ASSA cylinder provided by customer!

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

1000-U653



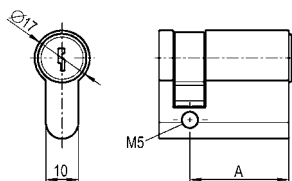
Further parts see page

– Cam with catch 1C-120 to 1C-180
– Accessories from 1C-170



Further parts see page

– Cam with catch 1C-120 to 1C-180



Profile half cylinder acc. to DIN 18252 (EN 1303)
Dim. A = 30 corresponds to the total length 40

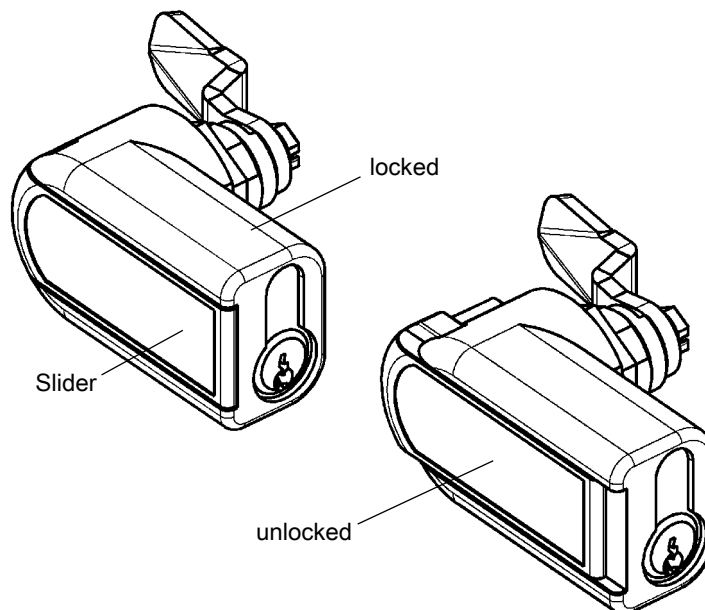
The locking cam has to be between 3 and 5 o'clock locking position.

Further parts see page

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

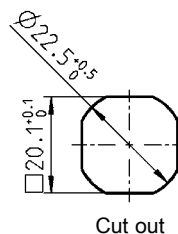
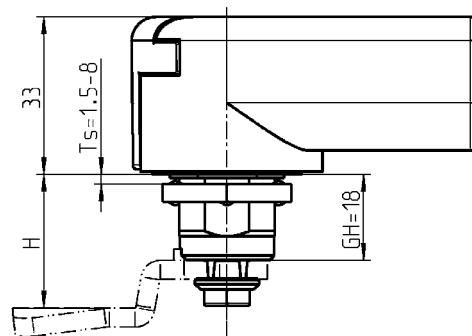
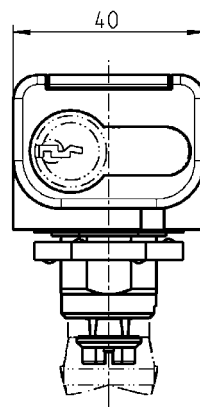
Quarter turn for profile half cylinder PROGRAM 1000

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

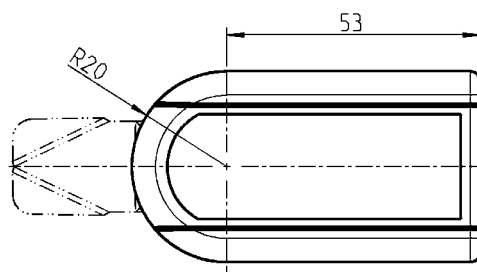


Locking process with EMKA profile half cylinder
Locking possible without key.

Locking process with profile half cylinder according to DIN 18252
Locking only possible with key.



Cut out

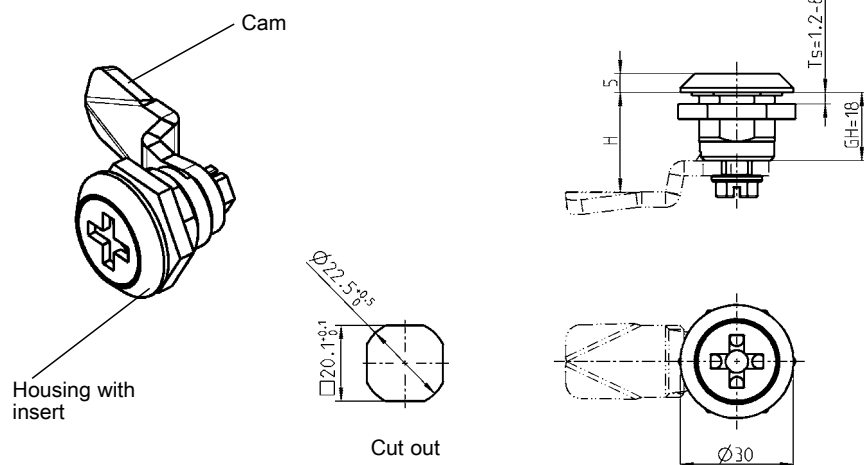


Housing zinc die; handle polyamide GF black;
earthnut and screws m.s. zinc-plated;
with spring and seal

1000-U837

FIAT and Railway quarter turn PROGRAM 1000

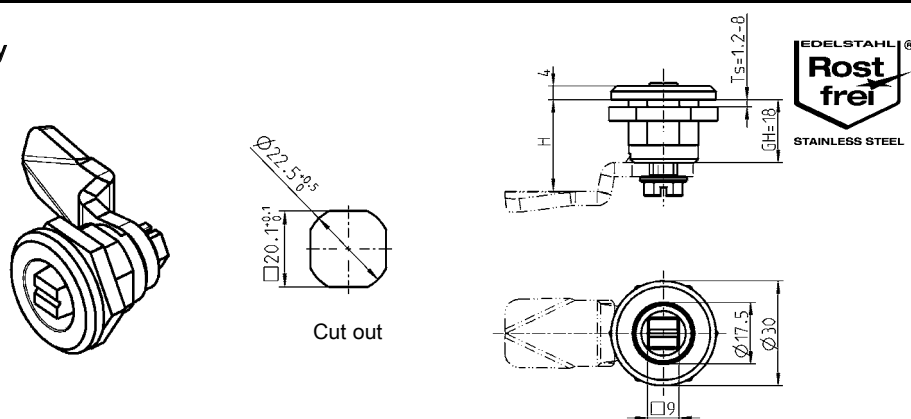
FIAT



Housing* with insert zinc die chrome-plated;
screw, nut or earthing nur m.s. zinc-plated; with seal

	Nut	Earthing nut
	1000-U426	1000-U427

Railway



Housing zinc die surface of choice; screw, nut or earthing nut m.s. zinc-plated;
insert material and surface of choice

Insert m.s. zinc-plated	Nut	Earthing nut
Housing chrome-plated	1000-U431	1000-U499
Housing black powder-coated	1000-U432	1000-U500
Insert zinc die chrome-plated	Nut	Earthing nut
Housing chrome-plated	1000-U431-01	—
Housing with insert, screw and nut AISI 303		
	1000-U431-PF	—

IP 65 achieved by

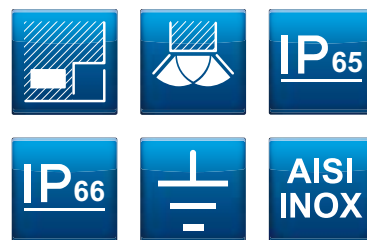
Flat seal	1000-23
O-ring	1000-24

IP 66 achieved by:

Seal set	1000-U769
----------	-----------

Assembly on request

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



* = IP 65



Note:
Quarter turn assembly 1B-105

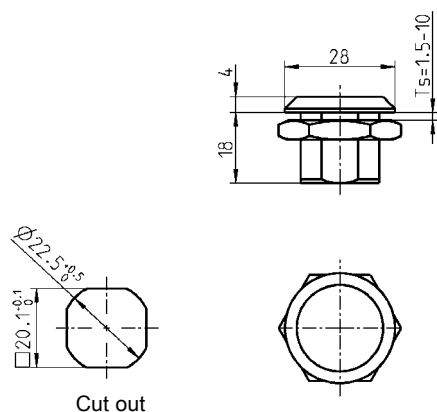
Further parts see page

– Cam with catch 1C-120 to 1C-180
– Accessories from 1C-170
– Escutcheon 3B-140
– Key 8B-120

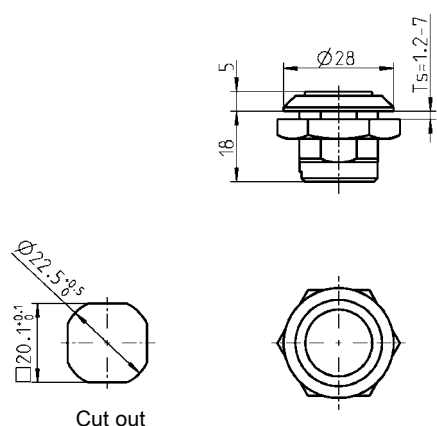
Info	
1 Quarter turns	Beschlagteile
2 Rod controls	Notes:
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4 Hinges	
5 Seals	
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8 Miscellaneous	
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Blind plug PROGRAM 1000

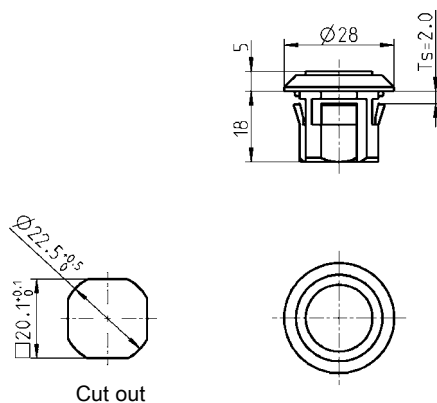
Version A: Nut fixing



Version B: Nut fixing



Version C: Clip-in fixing



Version A



Version B



Version C

Version A: Housing zinc die surface of choice; nut m.s. zinc-plated

black powder-coated	1000-U933
chrome-plated	1000-U934

Version B: Housing and nut polyamide GF black; plug polyethylene black

	1000-U936
--	-----------

Version C: Housing polyamide GF black; plug polyethylene black; with O-ring

IP 50	1000-U935
-------	-----------

Version A and B: IP 65 is achieved by

Flat seal	1000-23
-----------	---------

Quarter turn accessories

Large version

Program 1000

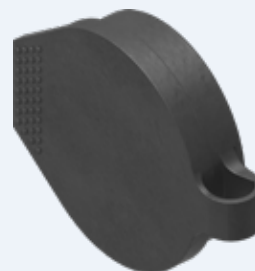




9



10



11



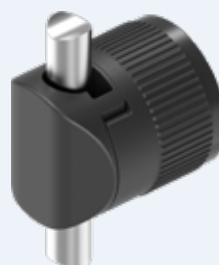
11



12



13



15

14



15

14

- | | | |
|----|---|----------------|
| 1 | Cam with or without catch | 1C-120, 1C-137 |
| 2 | Rod control for steel cam and stainless steel cam | 1C-120 |
| 3 | Cam with rod control | 1C-120 |
| 4 | Rod control | 1C-120 |
| 5 | Ramp | 1C-170 |
| 6 | Hooked cam | 1C-160 |
| 7 | Slam cam | 1C-180 |
| 8 | Hook lever lock | 1C-180 |
| 9 | Inside handle for cam | 1C-170 |
| 10 | Finger pull | 1C-320 |
| 11 | Dust cap | 1C-320, 1C-340 |
| 12 | Anti-rotation device | 1C-360 |
| 13 | Dish for quarter turn | 1C-380 |
| 14 | Rod | 1C-620 |
| 15 | Rod guide | 1C-630, 1C-640 |



1C-100

Info

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2 Rod controls

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Cam with catch,
Cam without catch
PROGRAM 1000

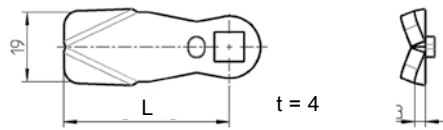


Cam with catch

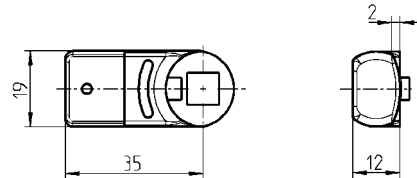


Cam without catch
on request

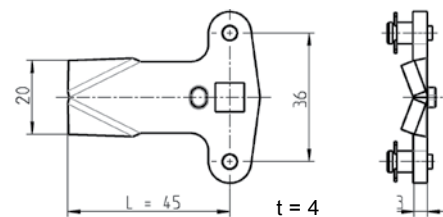
Version 1
Cam



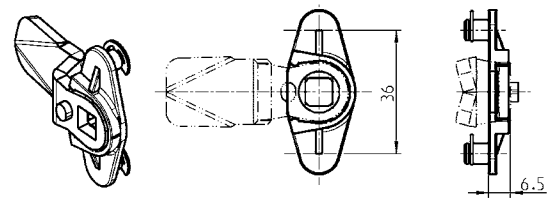
Version 2
Cam



***Version 3**
Cam with rod control (flank cam)



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



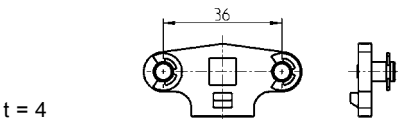
Rod control zinc die zinc-plated,
circlip m.s. zinc-plated

1000-U776

Rod control AISI 316,
circlip stainless steel

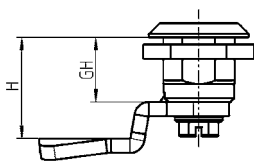
1000-U776-PH

***Version 5**
Rod control



Rod control m.s. zinc-plated

1000-U167



minus offset
↑
straight version
↓
plus offset

Cam with catch, material of choice

H-dimensions for GH =

														Version 1		
														L = 45 m.s. zinc- plated	L = 45 AISI 304	
18	22	28	30	31	32	36	39	40	42	43	45	50	60			
4	8	14	16	17	18	22	25	26	28	29	31	36	46	1000-112	-	
6	10	16	18	19	20	24	27	28	30	31	33	38	48	1000-22	1000-221	
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	1000-223	
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	1000-225	
15	19	25	27	28	29	33	36	37	39	40	42	47	57	-	-	
16	20	26	28	29	30	34	37	38	40	41	43	48	58	1000-18	-	
18	22	28	30	31	32	36	39	40	42	43	45	50	60	1000-17	1000-227	
20	24	30	32	33	34	38	41	42	44	45	47	52	62	1000-16	1000-228	
22	26	32	34	35	36	40	43	44	46	47	49	54	64	1000-15	1000-179	
24	28	34	36	37	38	42	45	46	48	49	51	56	66	1000-14	1000-229	
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	1000-230	
28	32	38	40	41	42	46	49	50	52	53	55	60	70	1000-13	1000-180	
30	34	40	42	43	44	48	51	52	54	55	57	62	72	1000-28	1000-232	
32	36	42	44	45	46	50	53	54	56	57	59	64	74	1000-26	-	
34	38	44	46	46	48	52	55	56	58	59	61	66	76	1000-12	-	
35	39	45	47	48	49	53	56	57	59	60	62	67	77	1000-11	-	
36	40	46	48	49	50	54	57	58	60	61	63	68	78	1000-51	-	
38	42	48	50	51	52	56	59	60	62	63	65	70	80	1000-52	-	
40	44	50	52	53	54	58	61	62	64	65	67	72	82	1000-25	-	
42	46	52	54	55	56	60	63	64	66	67	69	74	84	1000-53	-	
44	48	54	56	57	58	62	65	66	68	69	71	76	86	1000-54	-	
45	49	55	57	58	59	63	66	67	69	70	72	77	87	1000-10	-	
47	51	57	59	60	61	65	68	69	71	72	74	79	89	1000-55	-	
50	54	60	62	63	64	68	71	72	74	75	78	82	92	1000-56	-	

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



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

Note:

This catalogue page does not show all available cams.

Other versions such as:

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



① only for light doors and flaps

Note:

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

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

Further parts see page

- Ramp 1C-170
- Rod 1C-620
- Quarter turn 1B-120
- 1B-140
- for quick mounting 1B-180
- 1B-220
- 1B-230
- 1B-320
- to 1B-335
- to 1B-360
- to 1B-760
- to 1B-835
- to 1B-860
- 1C-170
- Inside handle
- Swinghandle 1152 with compression 3C-540
- Swinghandle 3N-120

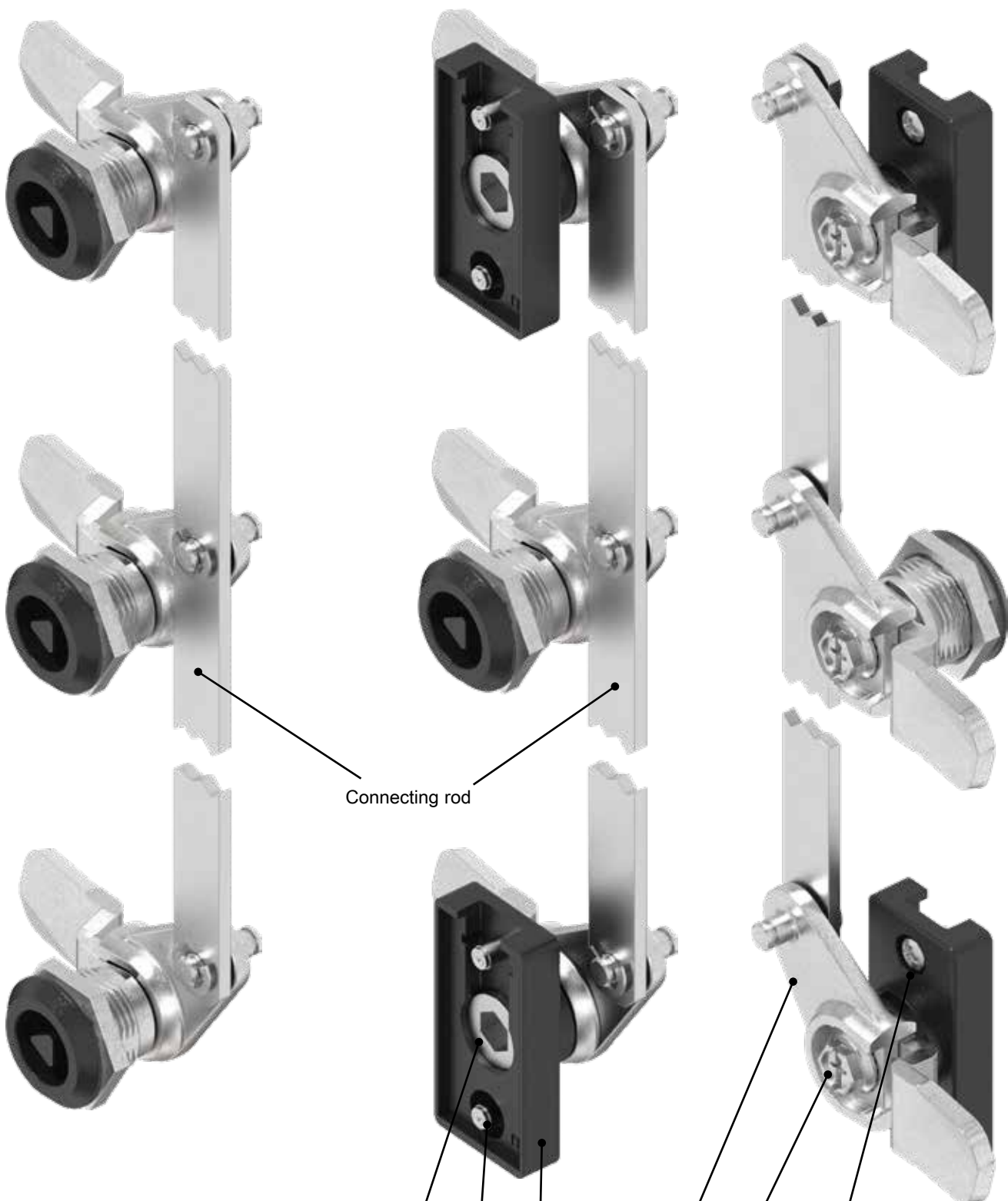
Version 1		Version 1		Version 2	Version 3	
L = 45 AISI 316		L = 35 m.s. zinc-plated	L = 35 ① Polyamide GF black	Polyamide GF black	m.s. zinc-plated	AISI 304
-		-	-	-	1000-U63	-
1000-221-PD		-	-	-	1000-U21	-
-		-	-	-	1000-U64	-
1000-223-PD		-	-	-	1000-U22	-
-		-	-	-	1000-U23	-
1000-225-PD		-	-	-	1000-U24	-
-		-	1000-5043-SI	-	-	-
-		-	-	-	1000-U25	-
1000-227-PD		1000-5046	1000-5046-SI	1000-386-18	1000-U26	-
1000-228-PD		1000-5161	-	1000-386-20	1000-U27	-
1000-179-PD		1000-5119	-	1000-386-22	1000-U28	-
1000-229-PD		-	-	1000-386-24	1000-U29	1000-U139
-		-	-	-	1000-U30	-
1000-230-PD		-	-	-	1000-U31	-
1000-180-PD		1000-5164	-	1000-386-28	1000-U32	1000-U140
-		-	-	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	-

Rod control for multiple interlocking

PROGRAM 1000

Example with three quarter turns

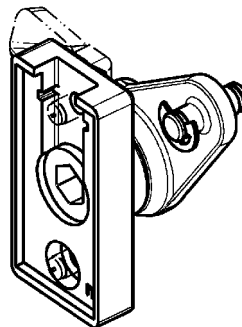
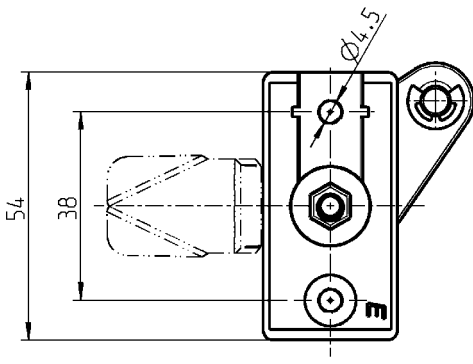
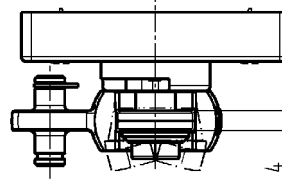
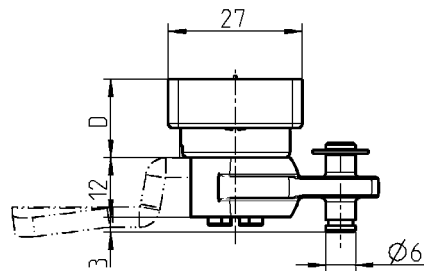
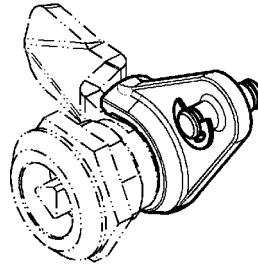
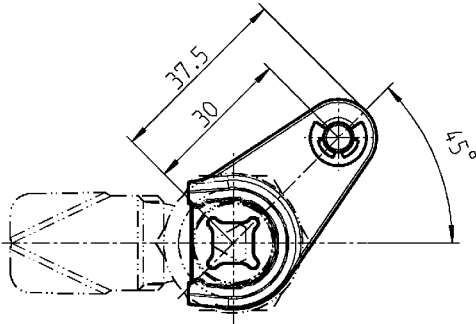
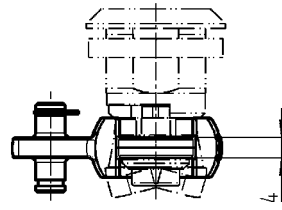
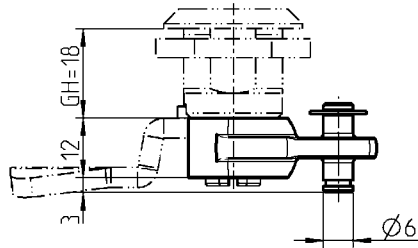
Example with one quarter turn and two bearing bushes



e.g. weld stud DIN 32501 5x6-M3
not included in the scope of delivery

e.g. screw M3x6
not included in the scope of delivery

Locking screw M6x10



Rod control zinc die, zinc-plated or AISI 316; circlip m.s. zinc plated or stainless steel

Zinc die zinc-plated 1000-U874

AISI 316 1000-U874-VA

Bearing bush polyamide GF black

for Ts	Dim. D	with stopper left	with stopper right
1.5	16.5	1125-83-015	1125-84-015
2.0	16.0	1125-83-020	1125-84-020

Connecting shaft zinc-die

1000-556-KA

Locking screw M6x10 for connecting shaft m.s. zinc-plated

1000-277-01JB

Connecting rod m.s. zinc-plated

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

Note:

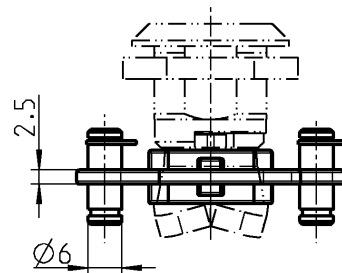
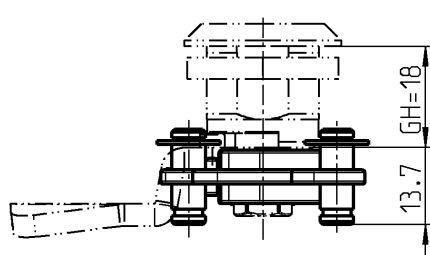
When using the rod control for multi-point locking, the screw-in depth of the screw is reduced by 4 mm

Further parts see page

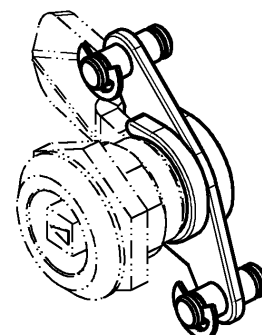
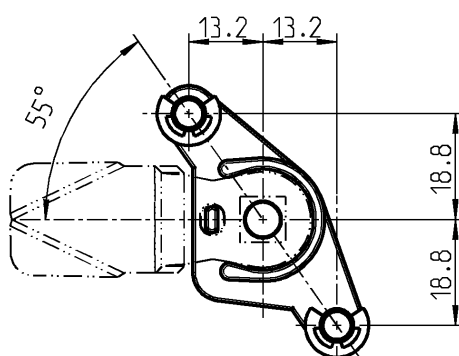
– Cam (version 1)	1C-120
– Quarter turn	1B-120
(only for GH = 18)	1B-140
	1B-330
	1B-332
(only 1x lockable)	1B-520
(only 1x lockable)	1B-540
(only 1x lockable)	1B-560
(only 1x lockable)	1B-580
(bottom)	1B-720
(not with bearing bush)	1B-820
(bottom only 1x)	1B-840
(only 1x)	1B-850
(bottom)	1B-860



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



Stroke 32 mm



Attention:

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

Note:

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

Further parts see page

- Cam (version 1) 1C-120
- Ramp 1C-170
- Quarter turn 1B-120

1B-140
1B-320
1B-335
1B-360
1B-520
to 1B-690
(bottom) 1B-720
1B-820
1B-840
1B-850
1B-860

- Rod 3ZB-420

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



Rod control in open position

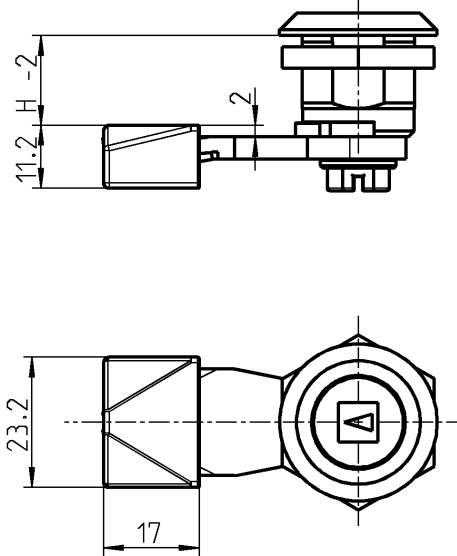
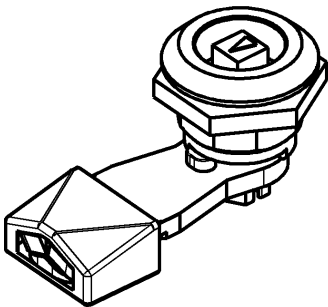
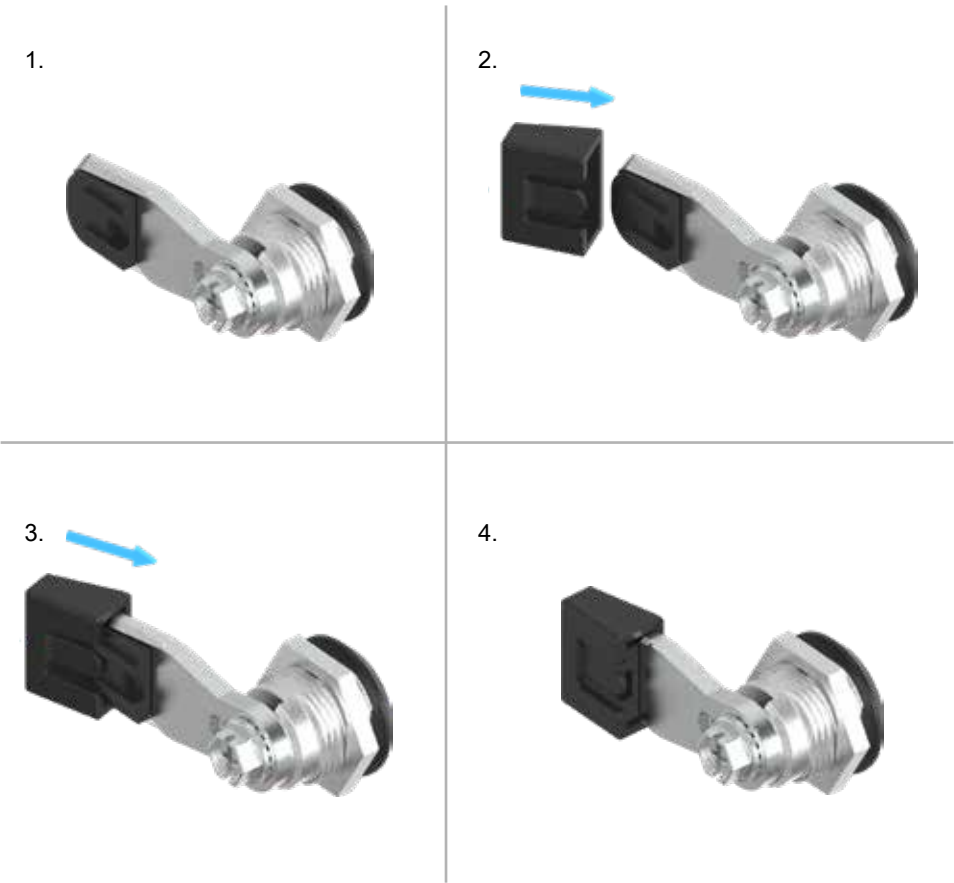
Rod control zinc die zinc-plated, circlip m.s. zinc-plated

1150-U63

Slide shoe for cam

PROGRAM 1000

For cams made of steel and stainless steel



Note:
For cams made of steel and stainless steel

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

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



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

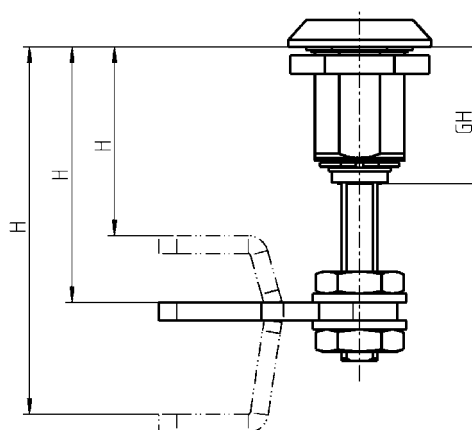
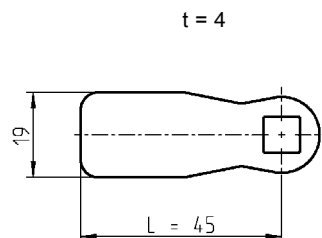
PROGRAM 1000



straight cam



cranked cam



Note:
Cranked cam can be used positively and negatively

Further parts see page

- Compression latch with insert 1B-222
- Compression latch with handle 1B-232
- Chest handle with compression function 8A-135

Cam m.s. zinc-plated

for GH = 31 mm	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 mm	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 mm	H	GH = 64
straight	71 - 91	1000-476
Offset 14 mm	57 - 77 ; 85 - 105	1000-478
Offset 26 mm	45 - 65 ; 97 - 117	1000-477

Cam

PROGRAM 1000

Beschlagteile

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

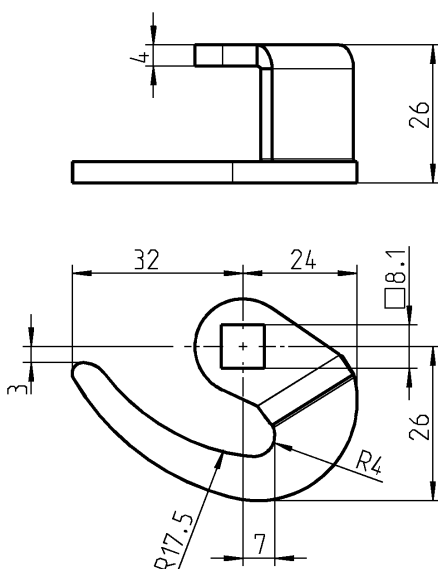
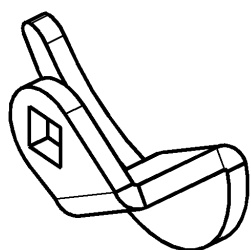
6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

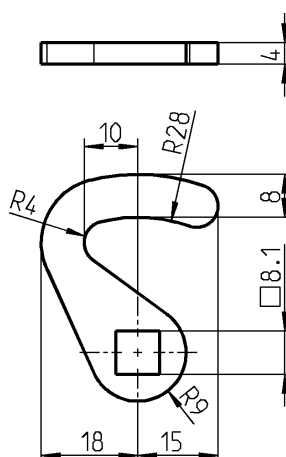
Index



Hooked cam for desk lid, LH version

m.s. zinc-plated

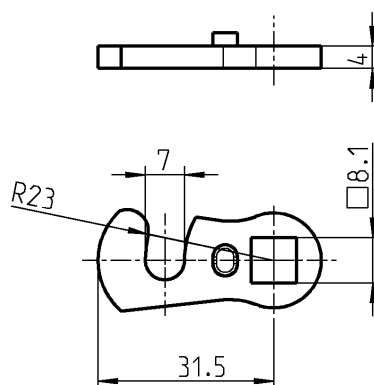
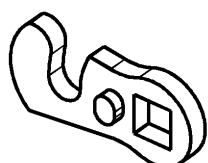
1000-91



Hooked cam, RH and LH version

m.s. zinc-plated

1000-93



Hooked cam, LH version

m.s. zinc-plated

1000-61

Further parts see page

– Quarter turn

1B-120

1B-140

1B-320

to 1B-335

1B-360

to 1B-760

1B-835

up tp 1B-860

3N-120

– Swinghandle



Attention:

Attention: When using the ramp, the H dim. of the cam increases by 4 mm as well as the A dim. by 4 mm of the cam on catalogue page 3YA-820.

Further parts see page

– Cam

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



Further parts see page

– Cam

– Quarter turn

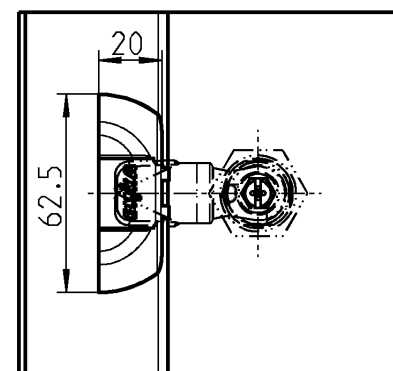
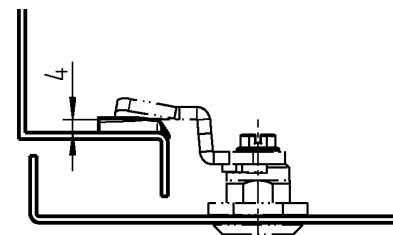
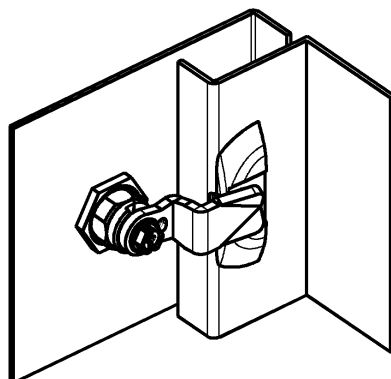
(non locking)
to (non locking)

1C-120
1C-130
1B-120
1B-140
1B-360
1B-520
1B-580
1B-720
1B-835
1B-860

® Ramp, self-adhesive, Inside handle PROGRAM 1000



Installation example: door and frame shown from the inside



Product benefits

- The ramp increases the compression by 4 mm
- Good positioning of the cam by small recess in the ramp
- Prevents scratching of the frame

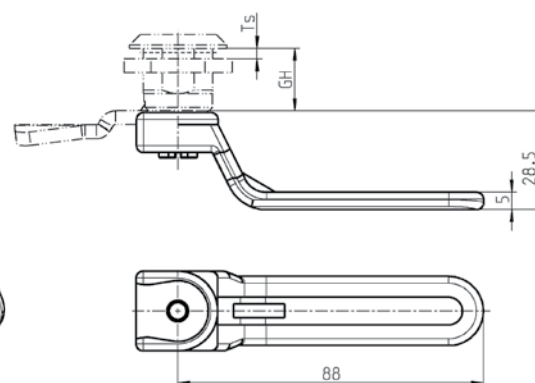
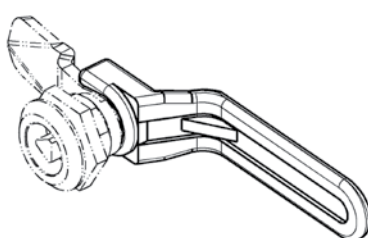
Ramp polyamide black, self-adhesive or rivetable

self-adhesive

1000-U858

rivetable with bore hole Ø4.1

1000-510-01AA



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

GH	Ts 1.5-	M6	
18	8	16	1000-U681
30	20	25	1000-U682
36	26	30	1000-U683
40	30	40	1000-U684
50	40	50	1000-U685
60	50	55	1000-U686

Hook lever lock, Slam cam

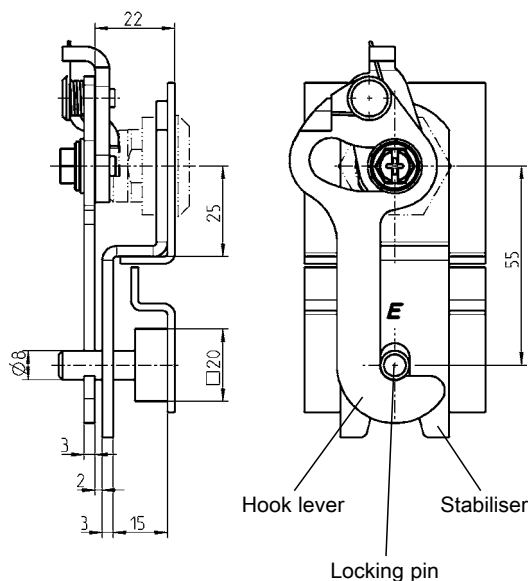
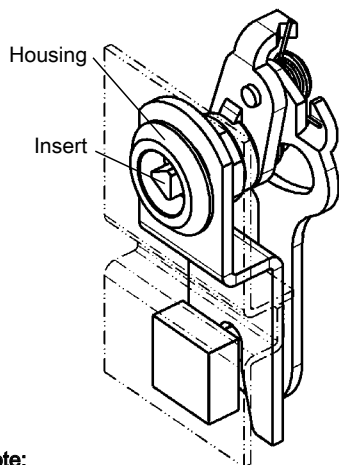
PROGRAM 1000

Hook lever lock

with 90° turn, rotation and pulling 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.

Hook lever lock m.s. zinc-plated consistant of:

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



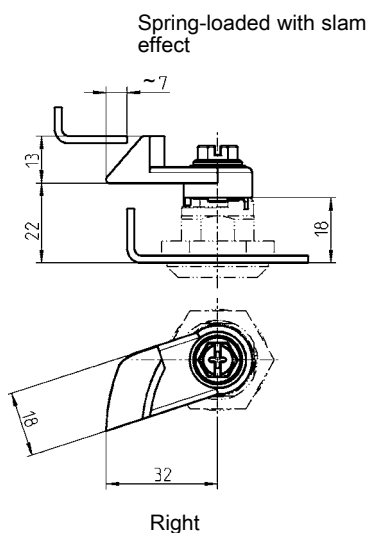
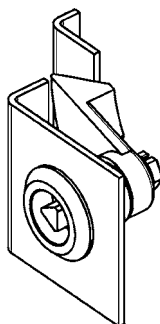
Slam cam

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

The spring washer delivered with the insert has to be replaced by the enclosed spacer ring.

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

Part no.:
1000-U235-N
1000-U235-NPH
1000-U236-N
1000-U236-NPH



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

for quarter turn see catalogue page

	Right	Left
1B-120, 1B-140, 1B-360, 1B-830, 1B-835, 1B-860	1000-U235-N	1000-U236-N
1B-420 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
--	---------------	---------------



Further parts see page
– Quarter turn

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





® Finger pull, Dust cap PROGRAM 1000


Attention:

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


Attention:

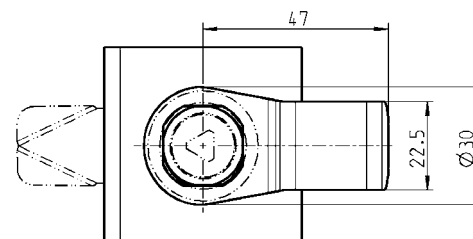
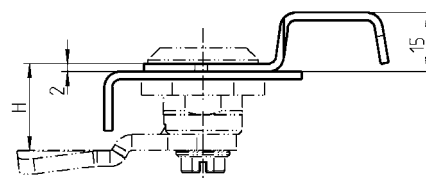
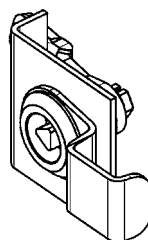
The H-dimension will be reduced by 2 mm when using this dust cap.

Further parts see page
– Quarter turn

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

1C-320

(1C-150)

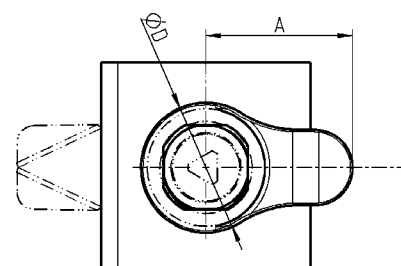
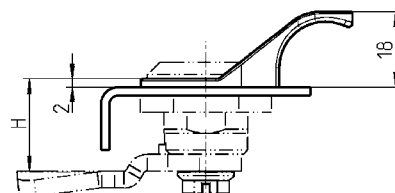
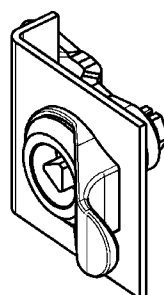

Finger pull m.s. black powder-coated

1000-359

IP 65 achieved by:

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

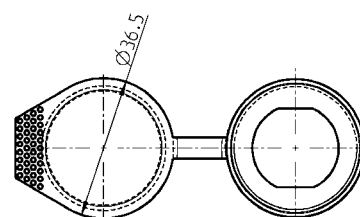
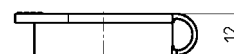
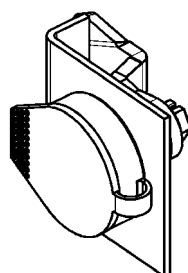
; D = 35, A = 36

1000-358-01

IP 65 achieved by:

Flat seal

1000-23


Dust cap polyethylene black

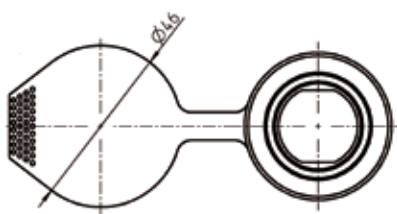
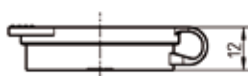
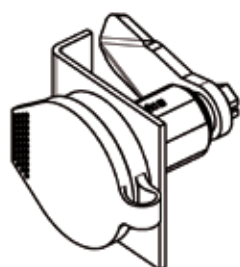
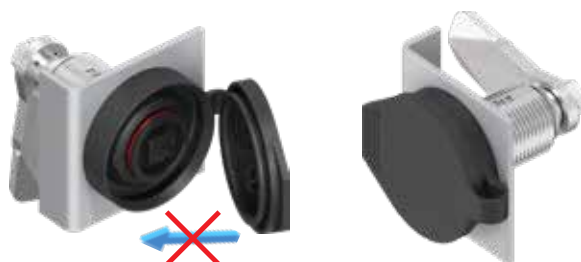
1000-97-01

Dust cap for high-speed trains, Dust cap for T-handle

PROGRAM 1000

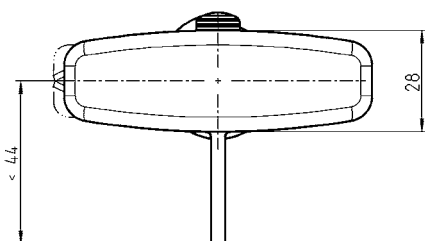
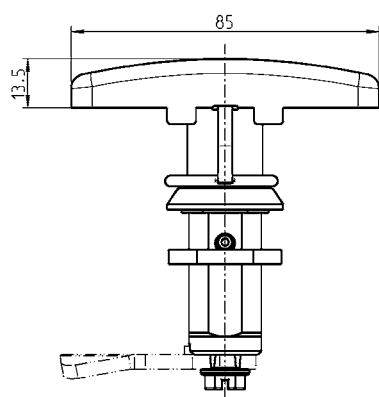
When combined use of dust cap and compression latch with optical open indicator (catalogue page 1B-237) an additional safety aspect is achieved.

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



Dust cap TPE, UV resistant, black

1000-97-02



Also suitable for:

– Program 1000

(see catalogue page 1B-560)

– Program 1102

(see catalogue page 2A-140)

– Program 1005

(see catalogue page 2B-160)

– Program 1125

(see catalogue page 3B-180)

– Program 1225

(see catalogue page 3G-180)

– Program 2100

(see catalogue page 3H-220)

T-handle cap polypropylene black

1000-460



Note

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

Attention:

The H-dimension will be reduced by 2 mm when using this dust cap.

Further parts see page

– Quarter turn

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



® Slam latch, Anti-rotation device PROGRAM 1000



Further parts see page
– Quarter turn

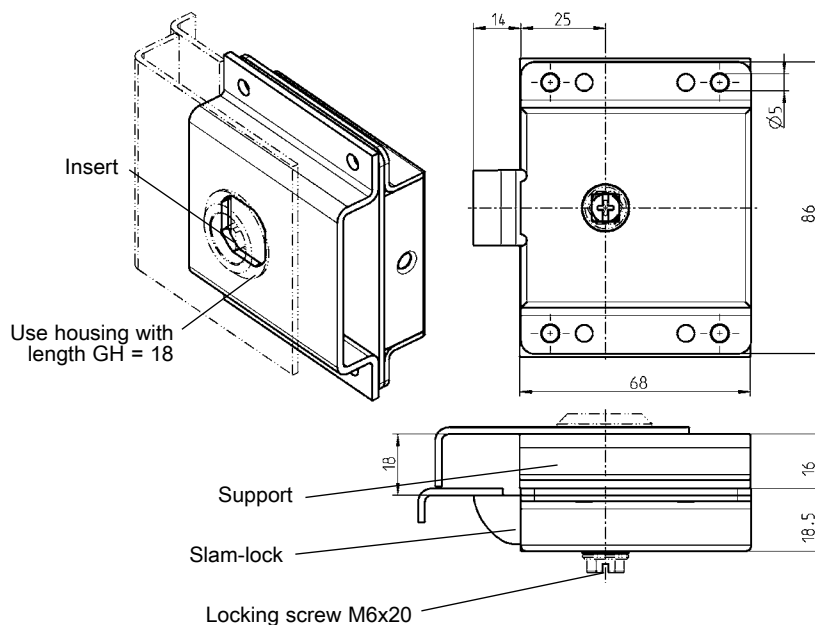
1B-120
1B-140
1B-330
to 1B-335
1B-520
to 1B-680
1B-835
up to 1B-860



Note:
The H-dimension will be reduced by 2 mm when anti-rotation device is on the outside.
Ts-dimension will be reduced by 2 mm when used from the inside.

Further parts see page
– Quarter turn

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



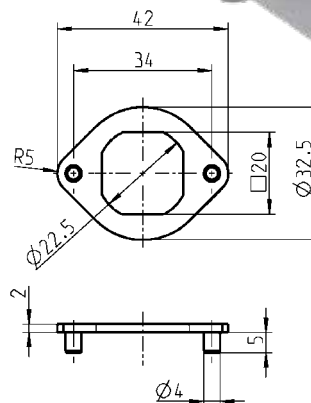
**Slam latch m.s. zinc-plated., zinc die raw and spring steel
Support and vibration proof screw m.s. zinc-plated**

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

Front mounted anti-rotation device,
under the housing



Back mounted anti-rotation device,
under the nut

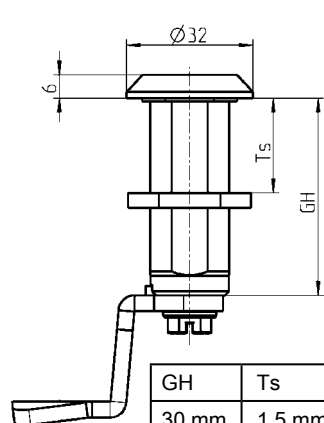


Anti-rotation device zinc die, surface of choice

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

Dish

PROGRAM 1000



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



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

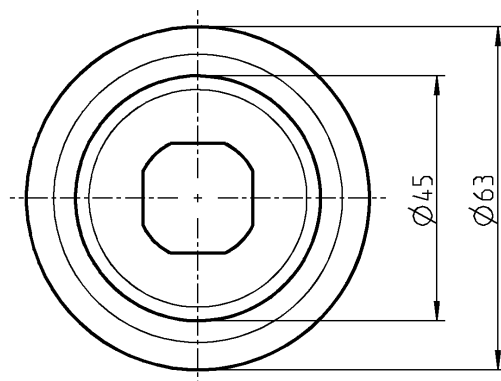
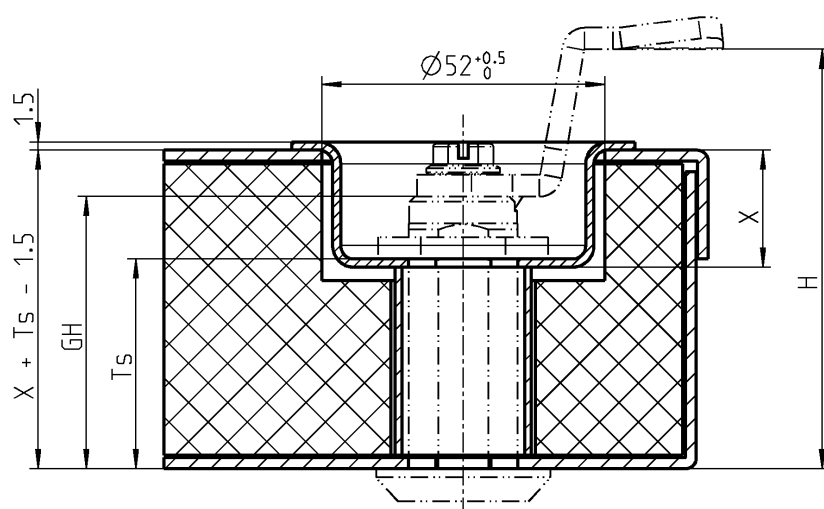
6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

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

Further parts see page
– Quarter turn

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

Dish m.s. zinc-plated

Dimension X

10.5 mm	1000-264
17.5 mm	1000-265
21.5 mm	1000-266

Rod

PROGRAM UNIVERSAL

Round rod
in fixed lengths

Minimum order quantity: 200 pieces
Smaller quantities on request

Program 1000

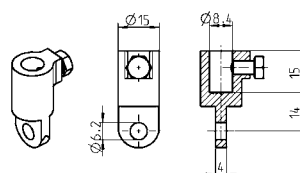
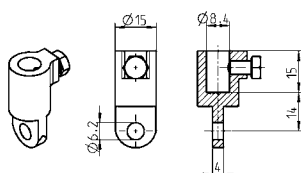
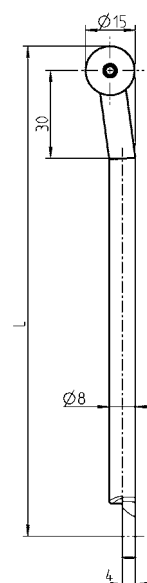
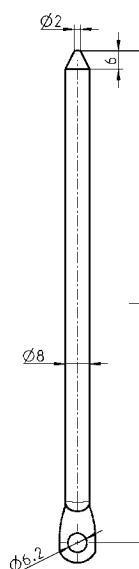
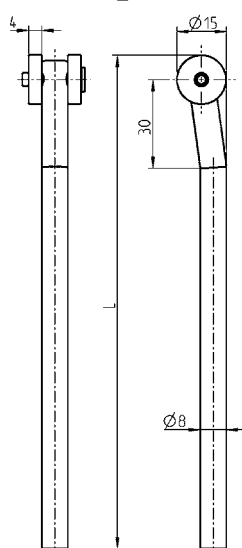
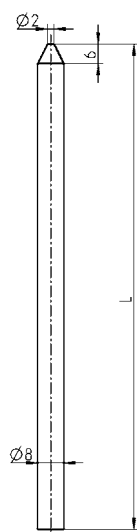
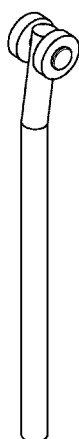
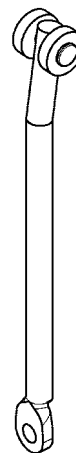
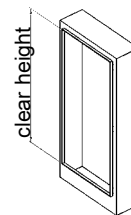
Calculation of rod length L
when pivot point is central

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

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

L ≤ 1200

Order example: Order no. for a round rod with rollers and a length of 1034 mm
= 1049-18-L 1034



with eye m.s. zinc pl.
and rollers
polyamide black

(not suitable for rod control program
1121 and 2121)

1000-U144-L mm

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

with pointed end
m.s. zinc plated

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 plated

1000-211-L mm

(1000-211-01 to -17
see price list)

with eye AISI 304
and rollers

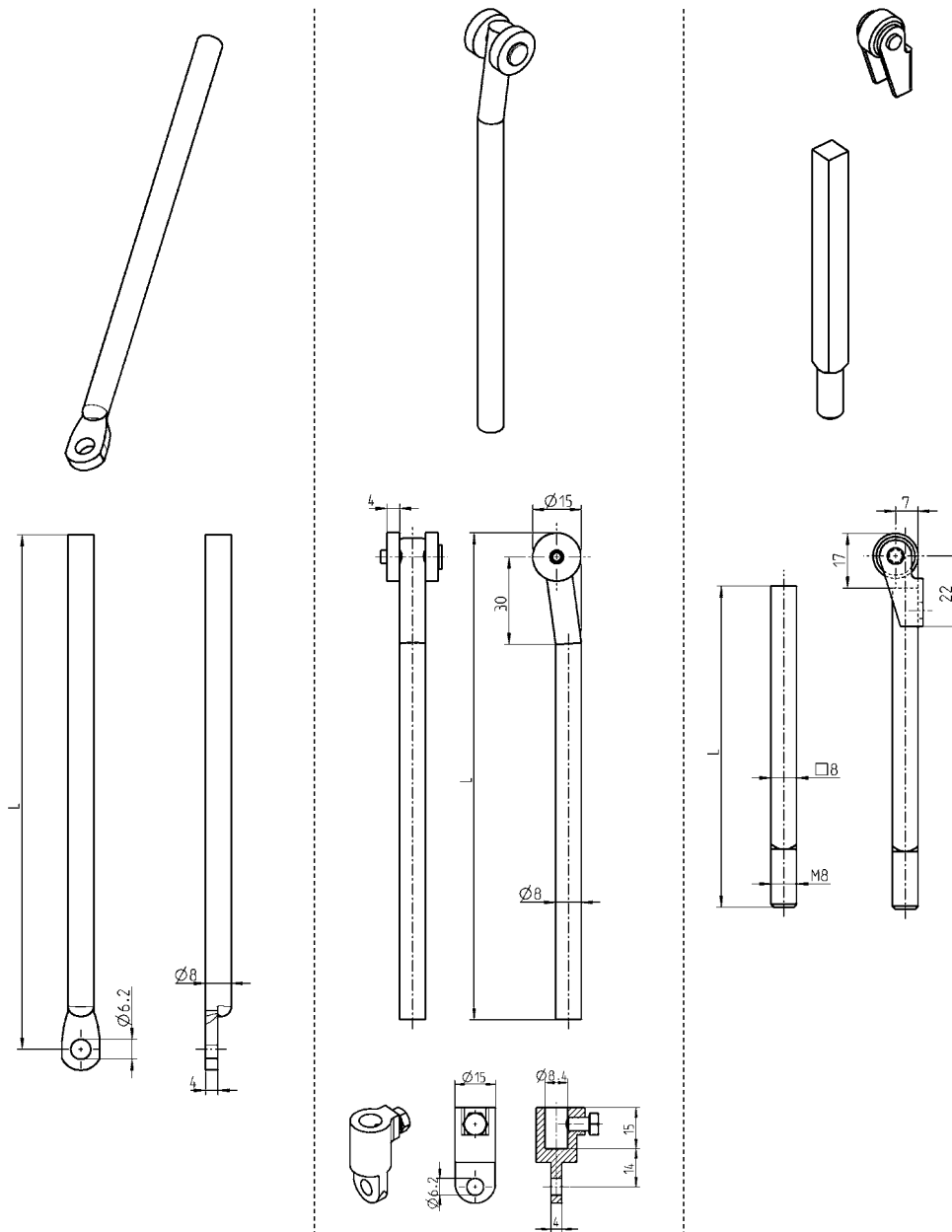
polyamide black

(not suitable for rod control program
1121 and 2121)

1000-U538-L mm

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

Round rods and square rods in available lengths



Round rod with eye m.s. zinc-plated

L in mm

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

Round rod m.s. zinc-plated 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-plated 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
	2B-140
– Rod guide	1C-630
	1C-640



® Rod guide for quick assembly for round rods 8 mm

PROGRAM UNIVERSAL



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



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.

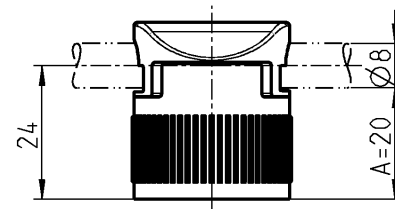
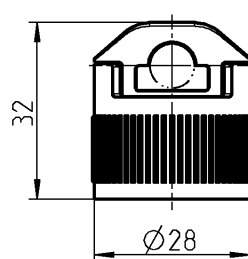
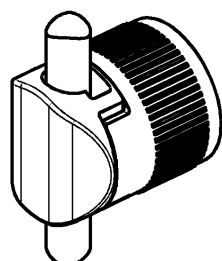


3. Rod guide is completely mounted.

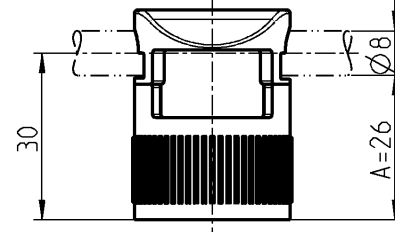
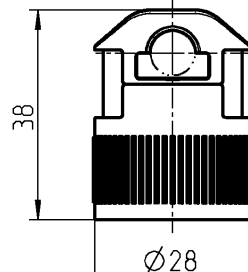
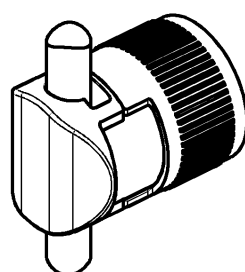


+ ADVANTAGE

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
– Rod

1C-620

Rod guide polyamide GF black

A for weld stud

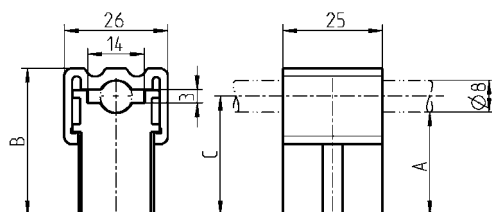
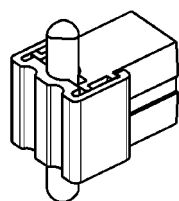
20 M6x16

26 M6x20

1001-U47

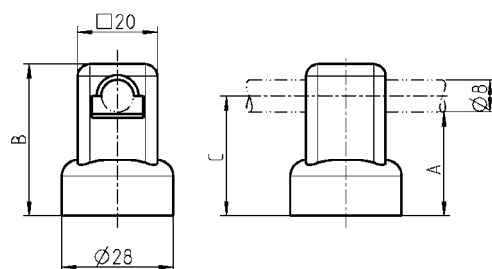
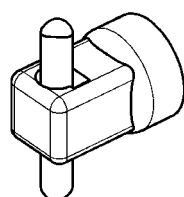
Rod guide for round rods 8 mm

PROGRAM UNIVERSAL



Rod guide polyamide black

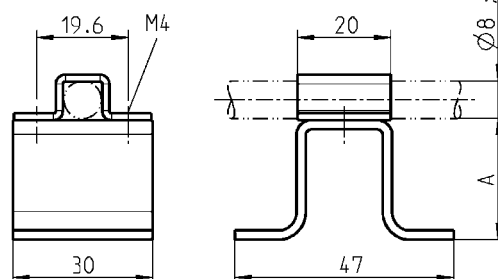
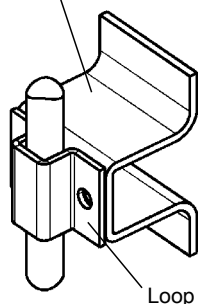
A	B	C	for weld stud	
20	31	24	M6x12 - 20	1001-U40
26	37	30	M6x12 - 20	1001-U41



Rod guide polyamide black with sunken nut m.s. zinc-plated

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

Rod support



Loop m.s. zinc-plated

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



For round and horizontal flat rod



For round rod



For round rod and square rod

Further parts see page
– Rod

1C-620

1C-640

(1C-220)

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

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1 Quarter turns	Beschlagteile
2 Rod controls	Notes:
3 Locking systems	
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Quarter turns Program 1500

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

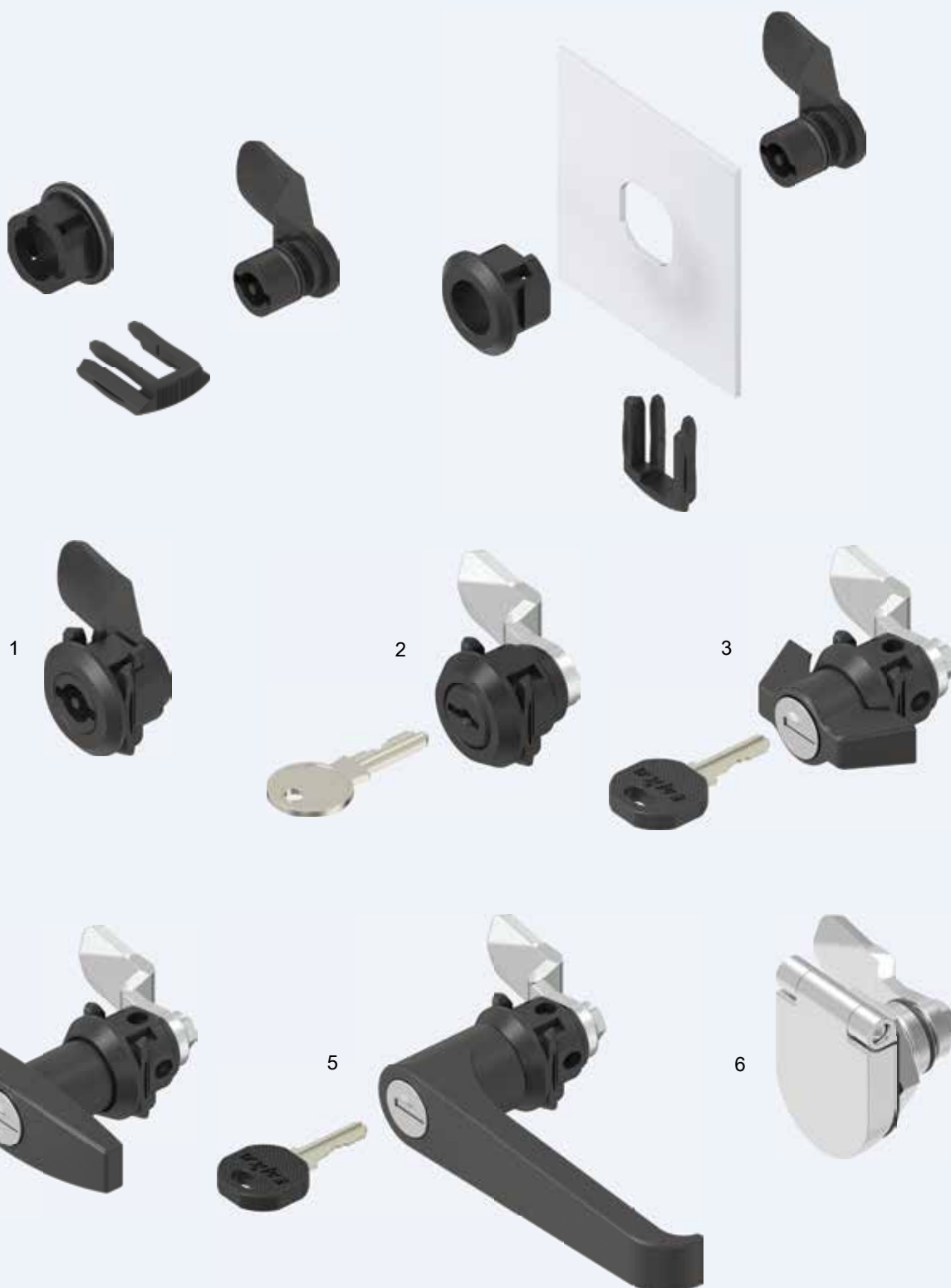
6 Handles

7 Aluminium windows

8 Miscellaneous

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- 1 Quarter turn with insert cam clip fix
- 2 Cylinder quarter turn
- 3 Wing knob quarter turn
- 4 T-handle quarter turn
- 5 L-Handle quarter turn
- 6 Compression latch with optical opening indicator

1D-140
1D-240
1D-220
1D-220
1D-220
1D-420



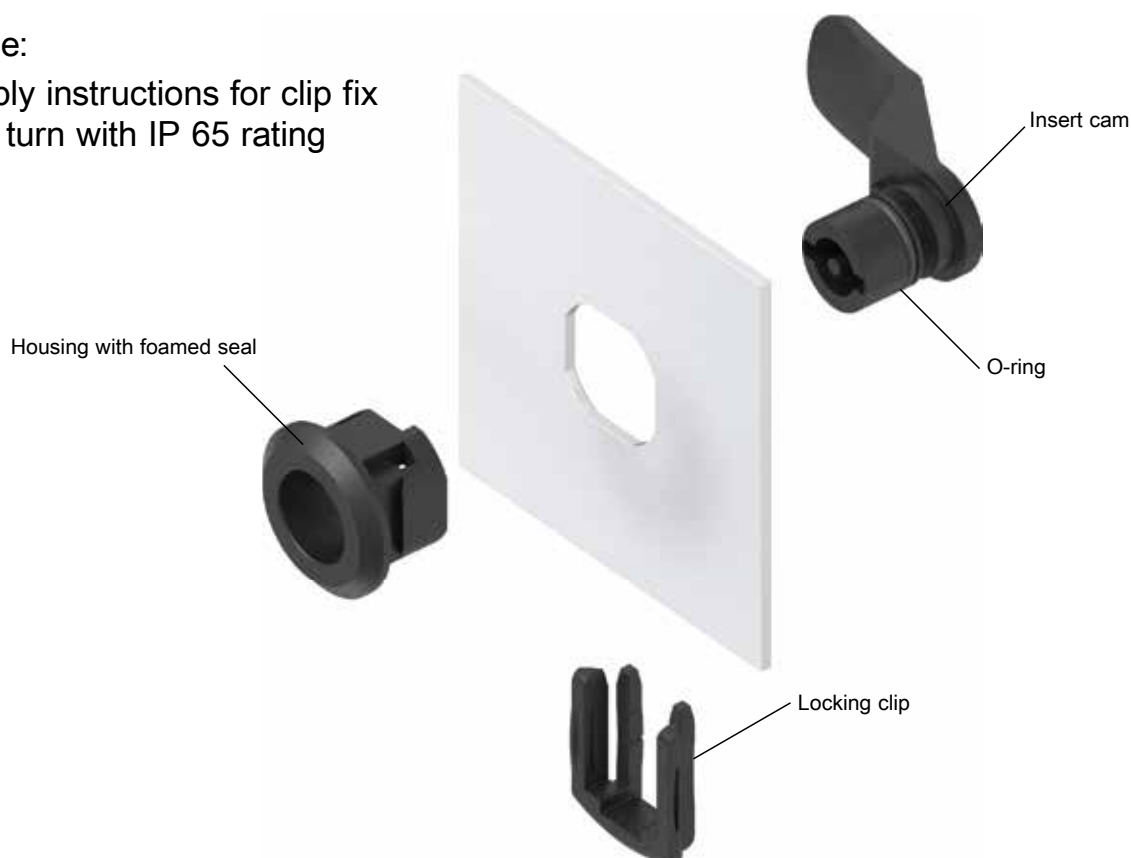
1D-100

Quarter turn, 3-piece, clip fix

PROGRAM 1500

Example:

Assembly instructions for clip fix quarter turn with IP 65 rating



Housing polyamide GF colour of choice

without seal

black

silver

1500-01

1500-01-HW

with foamed seal (for IP 65)

1500-01-G

1500-01-GHW

Locking clip polyamide GF colour depends according to thickness

Ts = 1.0 - 1.5 including surface coating; colour pebble grey

1500-02-10

Ts = 1.5 - 2.0 including surface coating; colour black

1500-02-15

Ts = . . .

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

H = 16

H = 18

H = 22

H = 24

without
O-ring

without
O-ring

without
O-ring

without
O-ring

Square 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

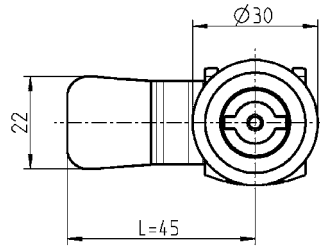
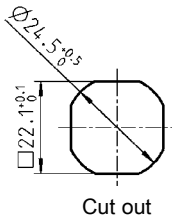
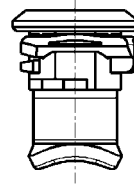
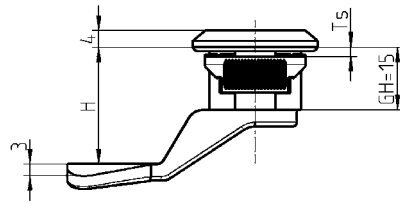
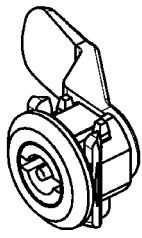
Slot 2 x 4 coinproof, black

on request

on request

on request

on request



Order example for insert cam 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

Order example for 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 letter 'B' to the item no. from the table the after '1500-'.

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



Attention:

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

Note:

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

Further parts see page
– Key

8B-120

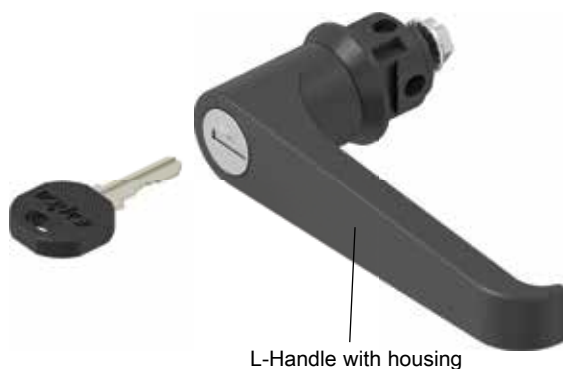
1D-140 06/16

(1D-220)

Handle quarter turn, clip fix

PROGRAM 1500

L-Handle quarter turn, clip fix



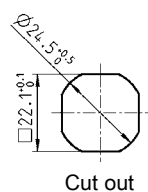
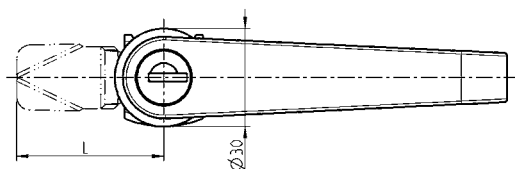
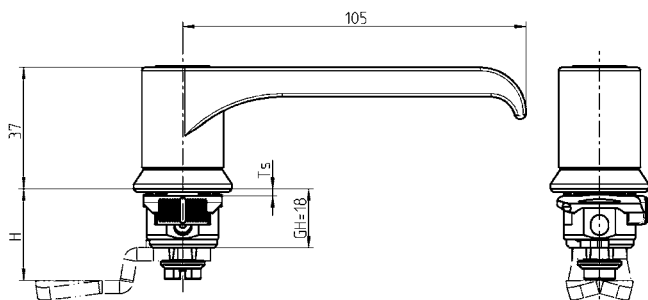
L-Handle with housing



Cam



Locking clip



Cut out

T-handle quarter turn, clip fix



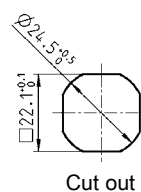
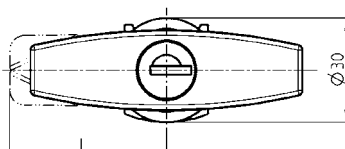
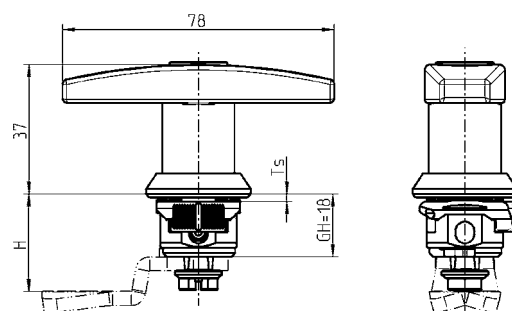
T-handle with housing



Cam



Locking clip



Cut out

T-handle quarter turn, small, clip fix



Wing knob quarter turn, clip fix



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

	non locking	keyed EK 333	keyed different
Wing knob	1500-U343	1500-U345	1500-U347
T-handle small	1500-U775 (IP 40)	1500-U773	1500-U774
T-handle	1500-U546	1500-U548	1500-U550
L-handle	1500-U570	1500-U572	1500-U574

Locking clip polyamide GF, colour depending on item

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

Further parts see page

– Cam (GH = 18)

– Spare key

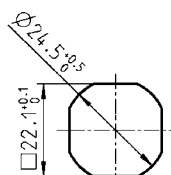
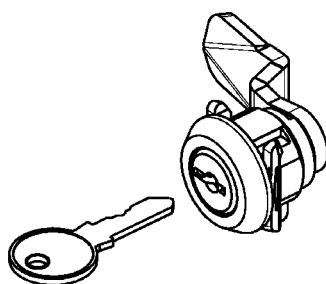
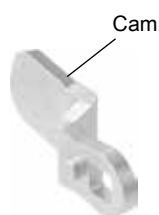
1C-120

1C-160

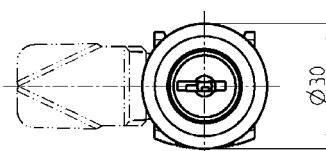
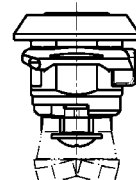
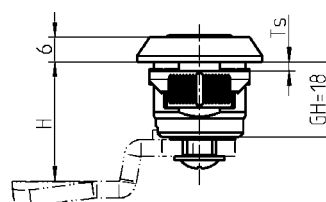
8B-140



Cylinder quarter turn, clip fix PROGRAM 1500



Cut out



Further parts see page

- Cam (GH = 18) 1C-120
- (without rod control) 1C-160
- Spare key 8B-140

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

keyed EK 333

1500-U18

keyed different

1500-U19

Locking clip polyamide GF, colour depending on item

Ts = 1.0 - 1.5 colour pebble grey

1500-05-10

Ts = 1.5 - 2.0 colour black

1500-05-15

Compression latch with optical opening indicator

PROGRAM 1500

Tamper and vibration proof

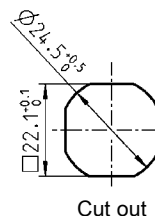
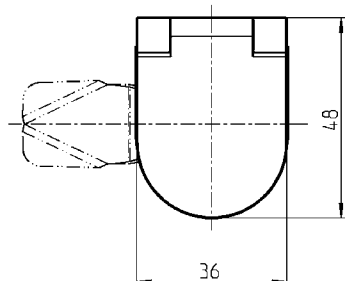
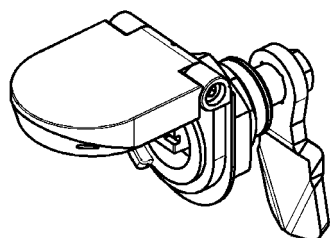
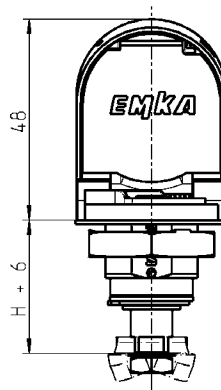
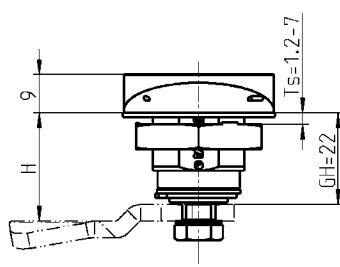
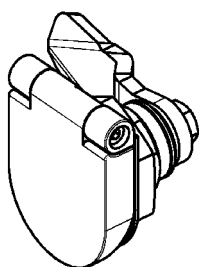
The compression latch is designed to be vibration-proof as such. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.

Tested according to DIN EN 45545-2 E30



Product benefits

- Visual opening indicator clearly visible due to 90° open flap when uncompressed
- The red surface on the inside of the cap makes it easier to recognize the open position
- The flap closes automatically when compressed
- Integrated dust cap
- The flat seal cushions the flap and prevents damages to the door
- Standard cut out program 1500
- Patent submitted



Compression latch with visual opening indicator AISI 316;
nut and earthing nut AISI 316;
screw and toothed lock washer stainless steel; with spring and seal

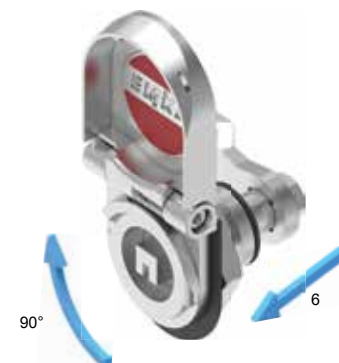
	Left-hand version	Right-hand version
Square 8 with marking	1500-U776-LIPH	1500-U776-REPH
Square 8 with marking and cap with red pad printing	1500-U776-01LIPH	1500-U776-01REPH



Beschlagteile



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



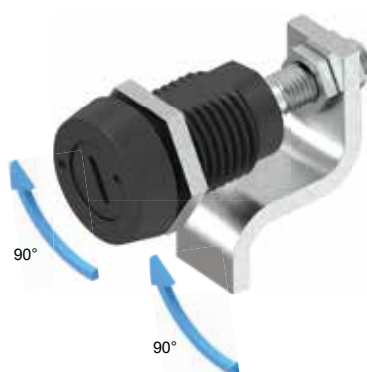
Closed condition
Further rotation of the insert by 90° moves the cam 6 mm in axial direction.



Compressed condition

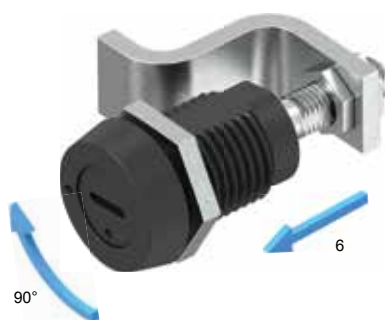
Open:
Reversed motion

Further parts see page
– Cam without catch 1C-120
– Key 8B-120



Open condition

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



Closed condition

The second 90° of rotation of the insert draws the cam toward the door 4 mm axially.



Compressed condition

Open:

Reversed motion

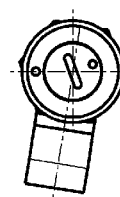
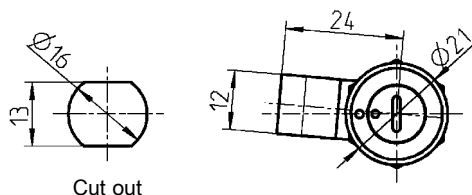
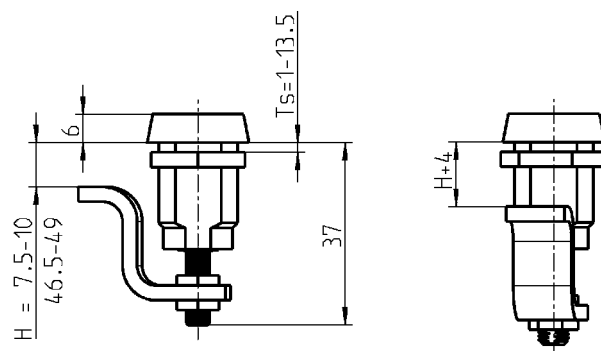
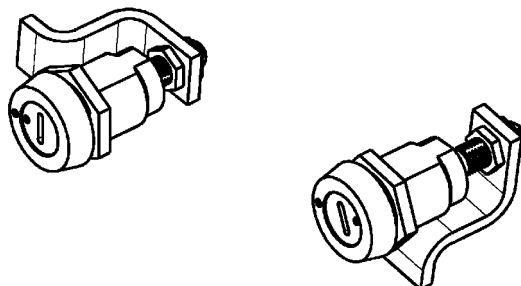
Compression latch

PROGRAM 1022

Tamper and vibration proof

The compression latch is designed to be vibration-proof as such.

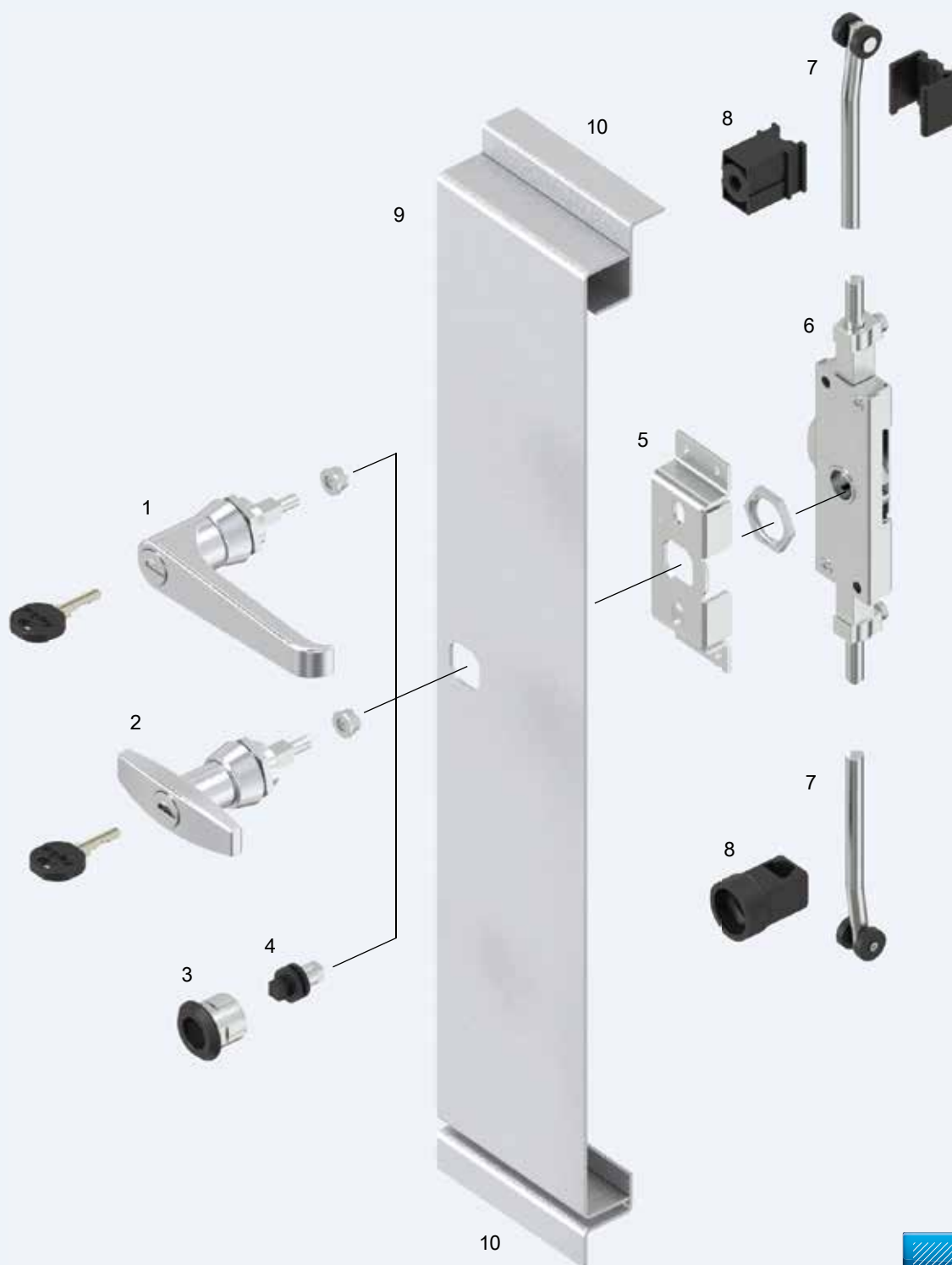
Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.



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

1022-U86

Rod control 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 | Rod | |
| 8 | Rod guide | |
| 9 | Door | |
| 10 | Housing / Frame | |

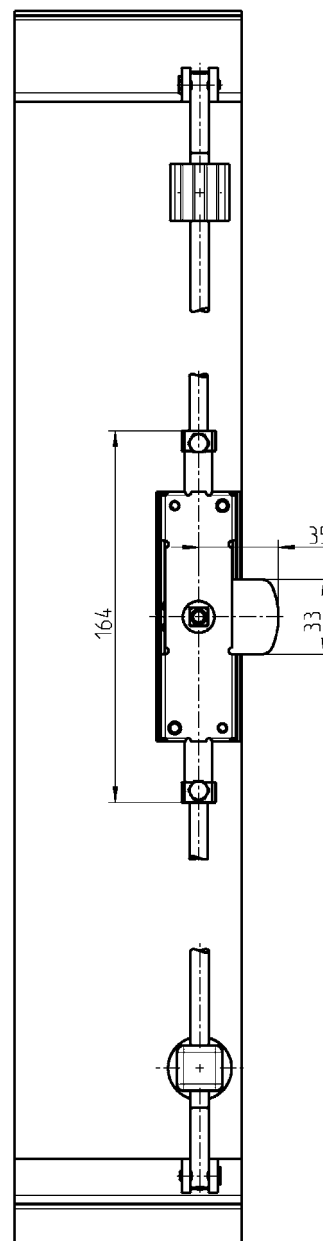
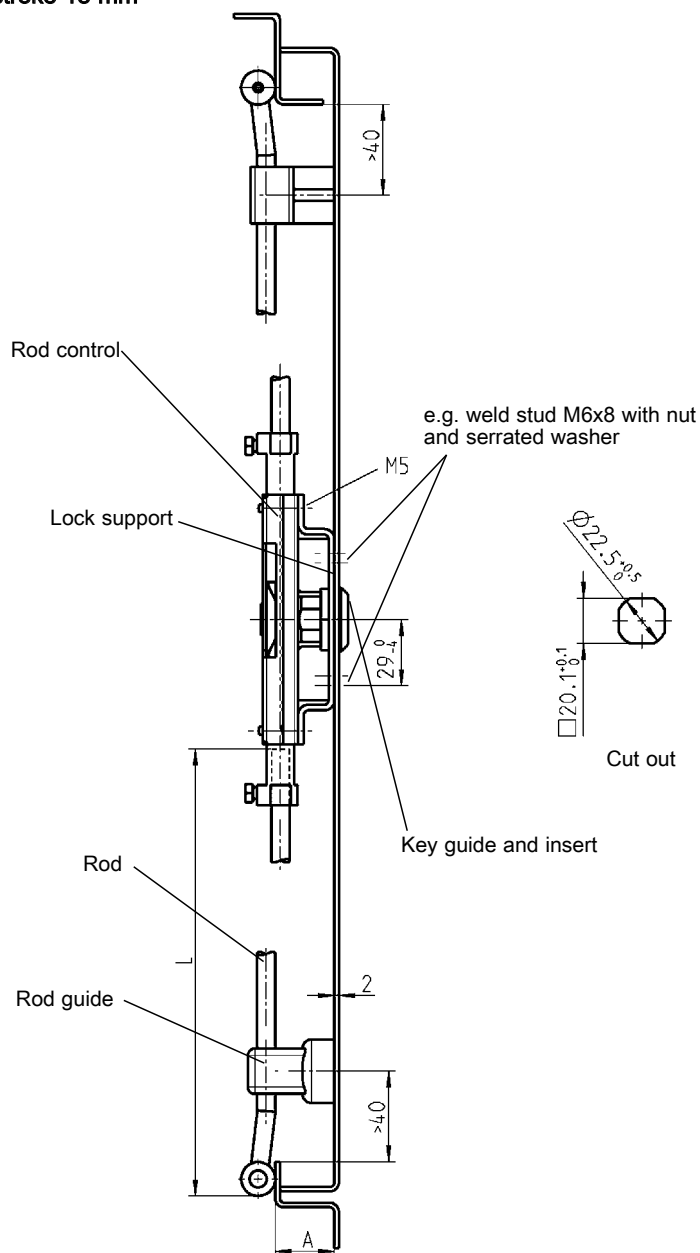


2A-100

Rod control and insert

PROGRAM SCREW-ON

Stroke 13 mm
or stroke 18 mm

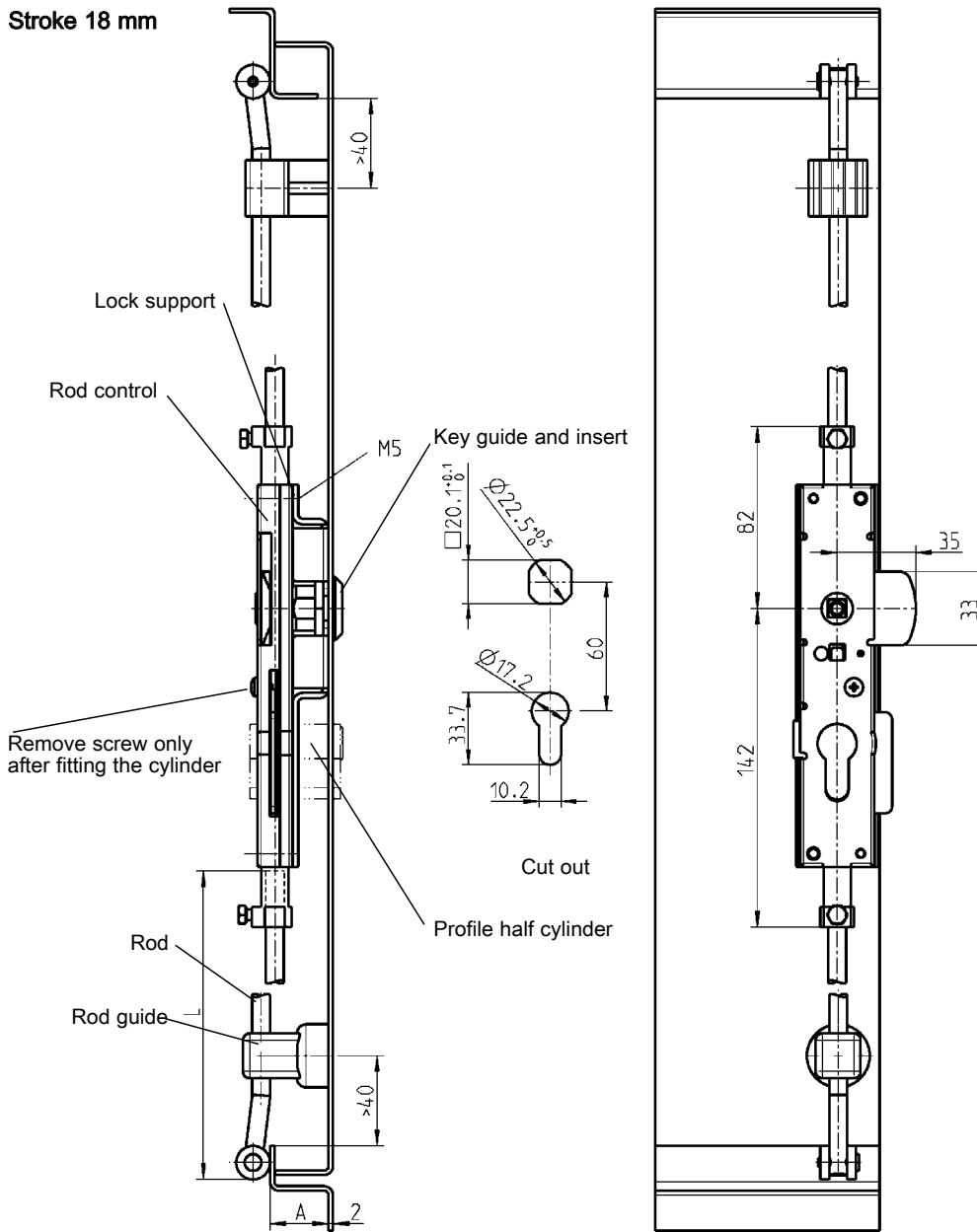


RH-version shown.

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

Rod control m.s. zinc-plated			Rod control m.s. zinc-plated for profile half cylinder		
	Stroke 13	Stroke 18			Stroke 18
Right	1049-U1	1049-U19	Right	–	1068-U1
Left	1049-U2	1049-U20	Left	–	1068-U2
Support m.s. zinc-plated			Support m.s. zinc-plated		
	A20	A26		A20	A26
Right / Left	1001-47	1001-50	Right	1001-45	1001-48
			Left	1001-46	1001-49

Stroke 18 mm



RH-version shown.



Insert zinc die chrome-plated

Key guide zinc die chrome-pl. or
black powder-coated with nut m.s. zinc-pl.

Square 6	1000-59
Square 7	1000-04
Square 8	1000-05
Triangular 7	1000-06
Triangular 8	1000-07
Double bit 3	1000-08
Double bit 5	1000-09
Daimler Benz	1000-64
Fiat	1000-352
IP 65 achieved by:	
Flat seal	1000-23
O-ring	1000-24

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	—

Further parts see page

— T-handle	2A-140
— L-handle	2A-140
— Rod	1C-620
— Profile half cylinder	2B-220
— Key	8B-120
— Escutcheon	8D-120
— Adapter system for insulated doors	2A-180

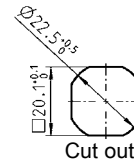
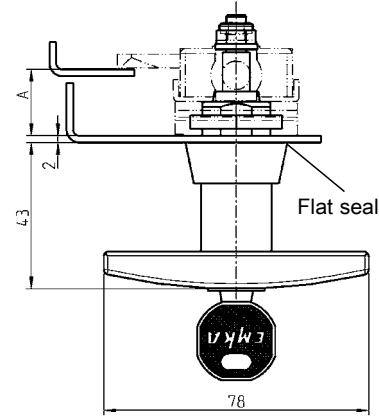
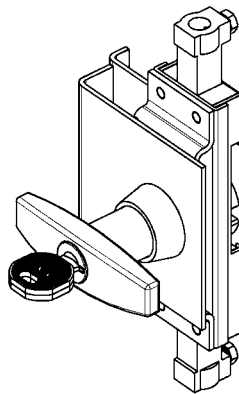
Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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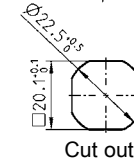
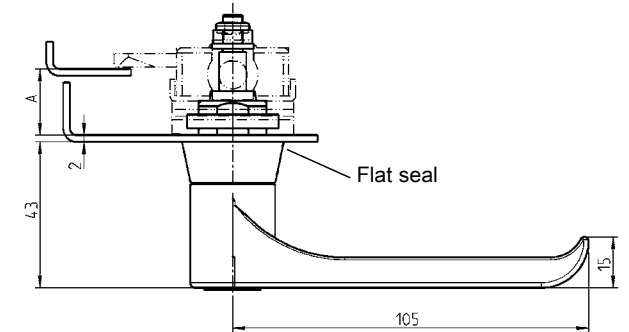
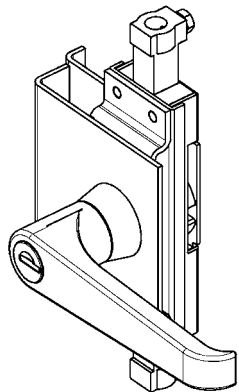
Handle

PROGRAM SCREW-ON

T-handle



L-handle



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

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

L-Handle zinc die with nut and washer m.s. zinc-pl., with seal.
Each round cylinder has one silver steel key with polyamide grip GF black
– Insert spring loaded –

		chrome-plated		black powder-coated	
		A20	A26	A20	A26
non locking	(IP 65)	1103-U1	1103-U2	1103-U21	1103-U22
keyed EMKA 333	(IP 65)	1103-U3	1103-U4	1103-U23	1103-U24
keyed different	(IP 65)	1103-U5	1103-U6	1103-U25	1103-U26
Square 7	IP 65 (on request)	1103-U7	1103-U8	1103-U27	1103-U28
Square 8		1103-U9	1103-U10	1103-U29	1103-U30
Triangular 7		1103-U11	1103-U12	1103-U31	1103-U32
Triangular 8		1103-U13	1103-U14	1103-U33	1103-U34
Double bit 3		1103-U15	1103-U16	1103-U35	1103-U36
Double bit 5		1103-U17	1103-U18	1103-U37	1103-U38
Daimler Benz		1103-U19	1103-U20	1103-U39	1103-U40

Suitable for rod program:

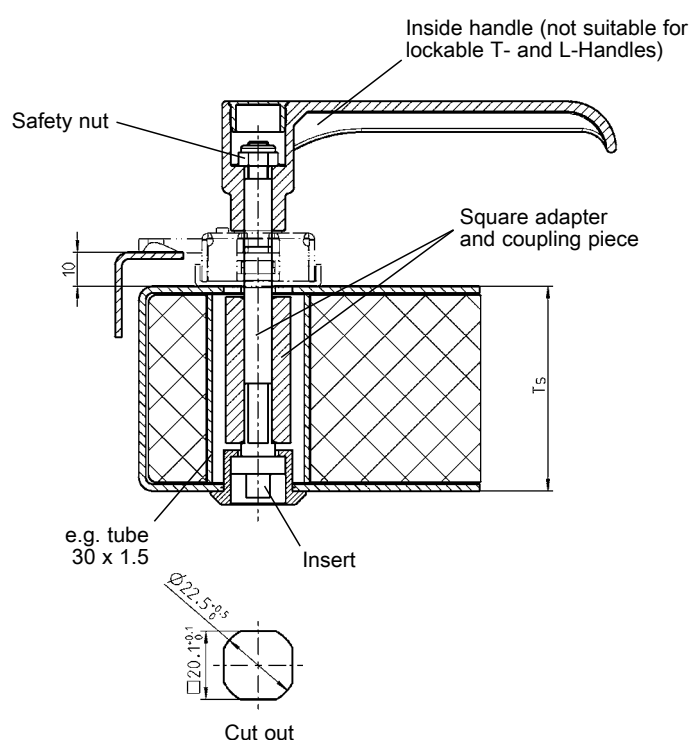
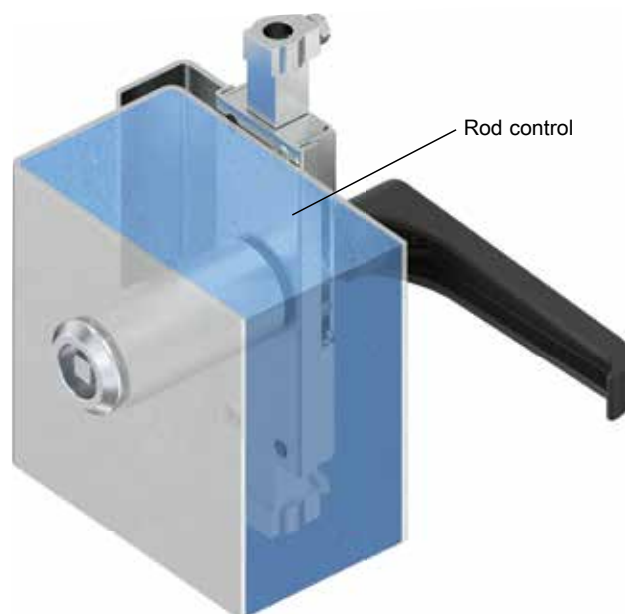
1001
1049
1068

Further parts see page

- Dust cap for T-handle 1C-340
- Spare key 8B-140
- Adapter system for insulated doors 2A-180

Adapter system for insulated doors

PROGRAM SCREW-ON



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

Insert, m.s. zinc-plated, key guide zinc die chrome-plated, safety nut m.s. zinc-plated		Door thick- ness Ts	Square adapter m.s. z.pl.	Coupling 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
Inside handle polyamide black		100	2x1001-67	1001-73
	1000-U829			

Further parts see page
– Anti-rotation device
– Rod control

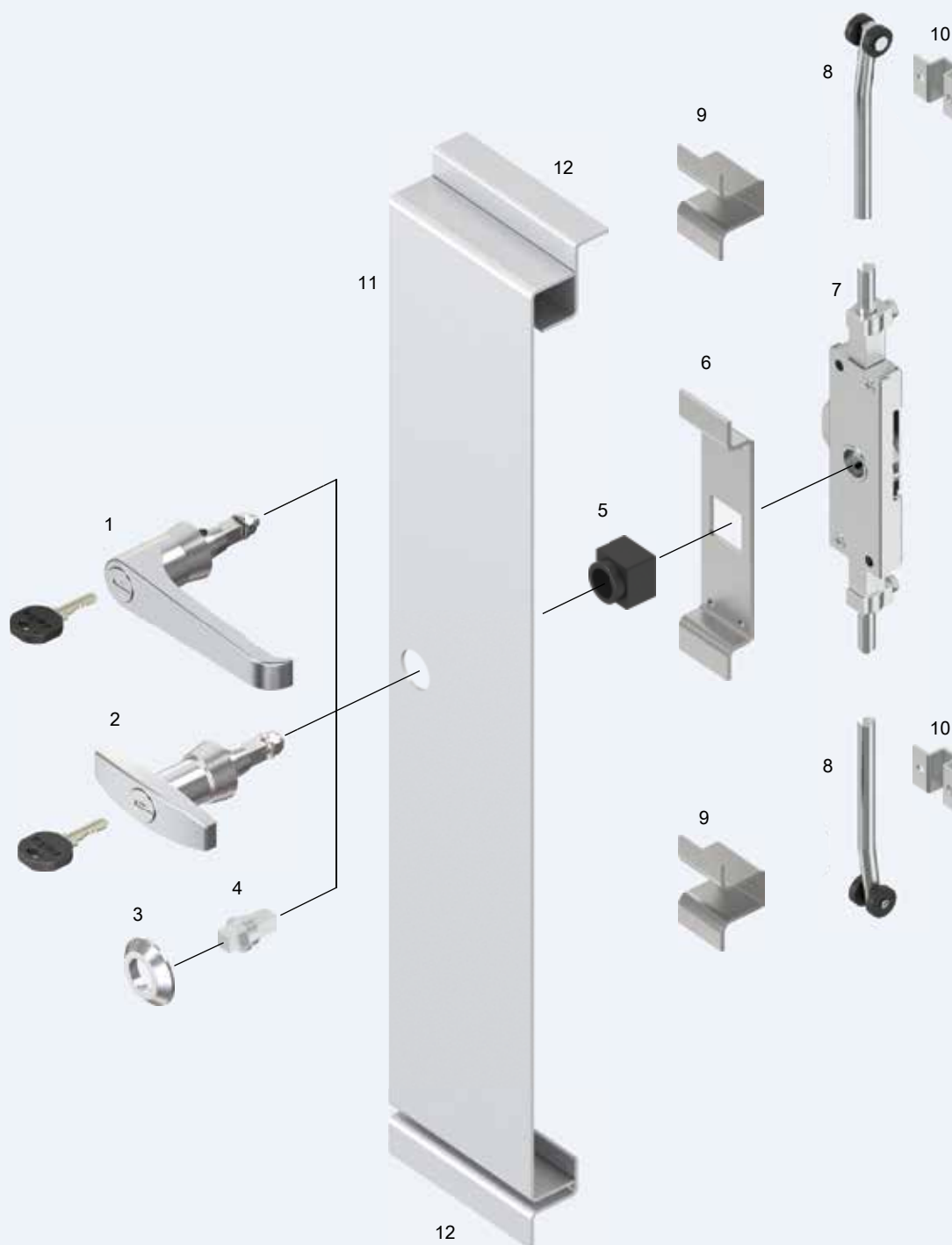
1C-360
2A-120
2B-120
2B-130
2B-180

– T-handle or L-Handle
A = 26

2A-140

Info	
1 Quarter turns	Beschlagteile
2 Rod controls	Notes:
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
9 Special catalogues	
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Rod control 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 to 2B-140, 2B-180 |
| 7 | Rod control | 2B-120 to 2B-140, 2B-180 |
| 8 | Rod | |
| 9 | Rod support | |
| 10 | Loop | |
| 11 | Door | |
| 12 | Housing / Frame | |



2B-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

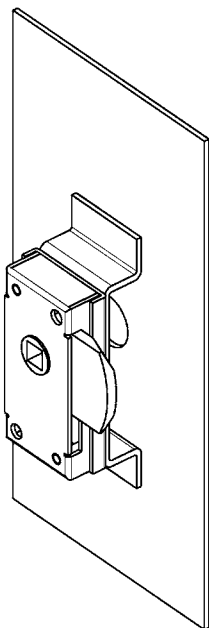
9 Special catalogues

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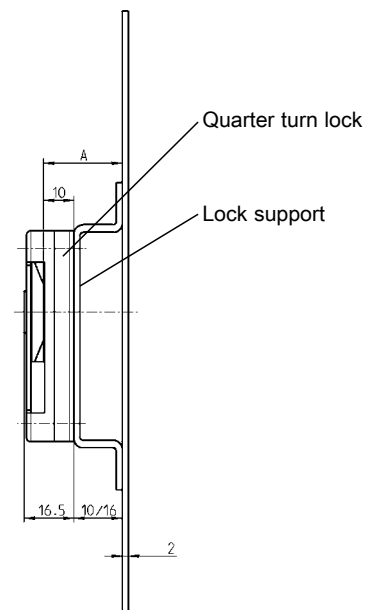
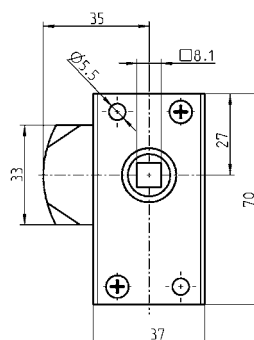
Lock for quarter turn, hooked cam and rod control

PROGRAM weld-on

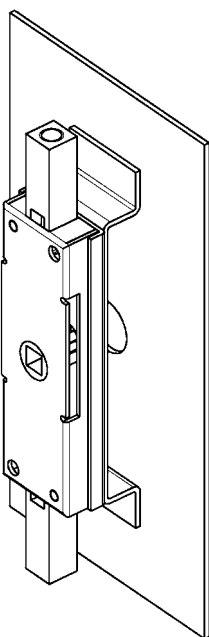
Quarter turn lock



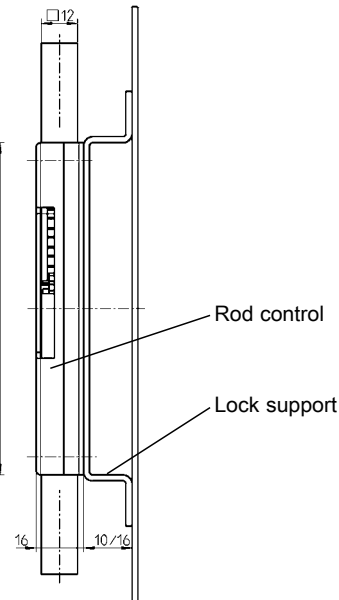
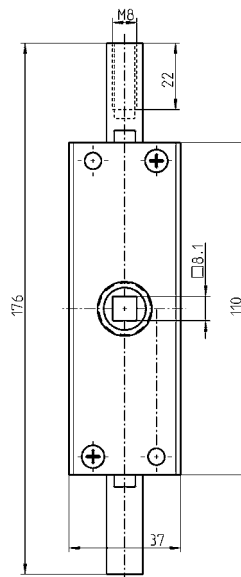
90° turn



Two-sided lock for screw-in rod



180° turn
Stroke 32 mm



Quarter turn lock m.s. zinc-plated, right and left usable

1002-U1

Support m.s. raw

A20

1002-04

A26

1002-05

Rod control with two-sided lock m.s. zinc-plated

Right

1001-U19

Left

1001-U20

Support m.s. raw

A20

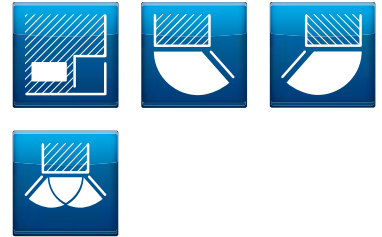
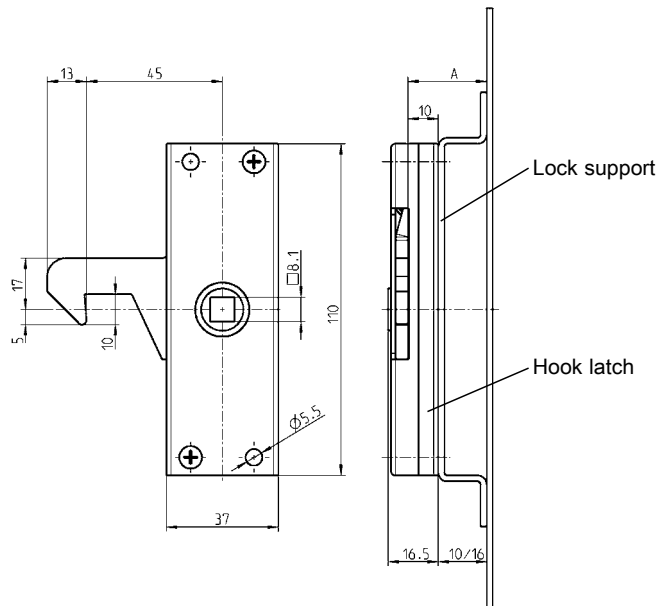
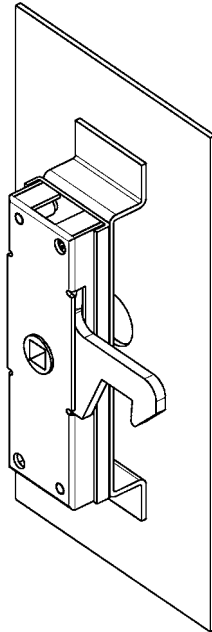
1001-18

A26

1001-19

Hook latch

Hooked cam free running
(locks in place even
when the handle is closed)



Hook latch m.s. zinc-plated

Right	1001-U30
Left	1001-U31

Support m.s. raw

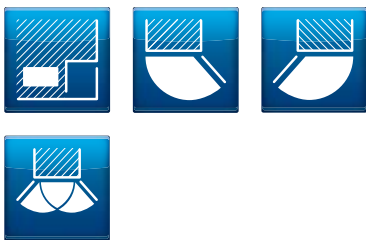
A20	1001-18
A26	1001-19

Further parts see page

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

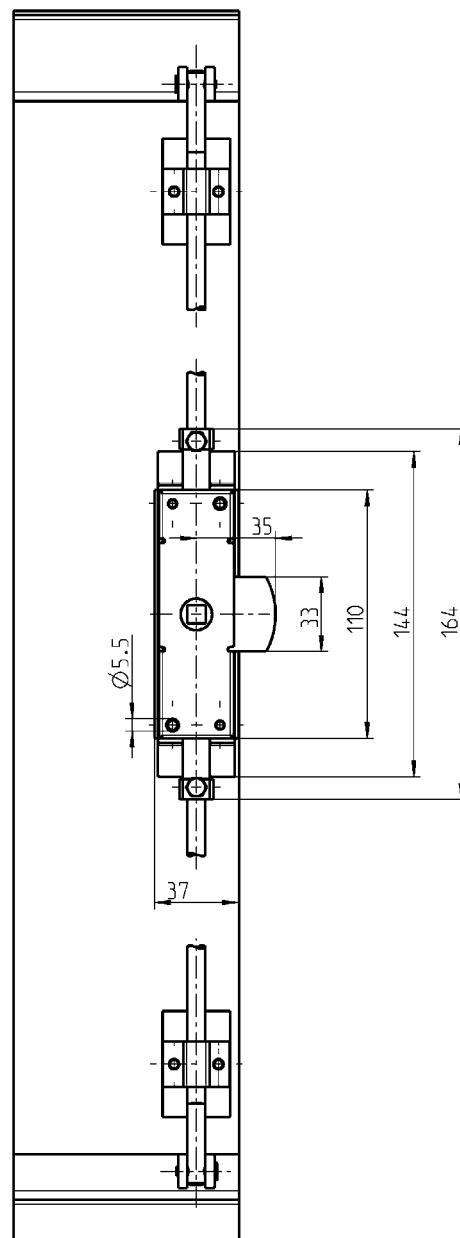
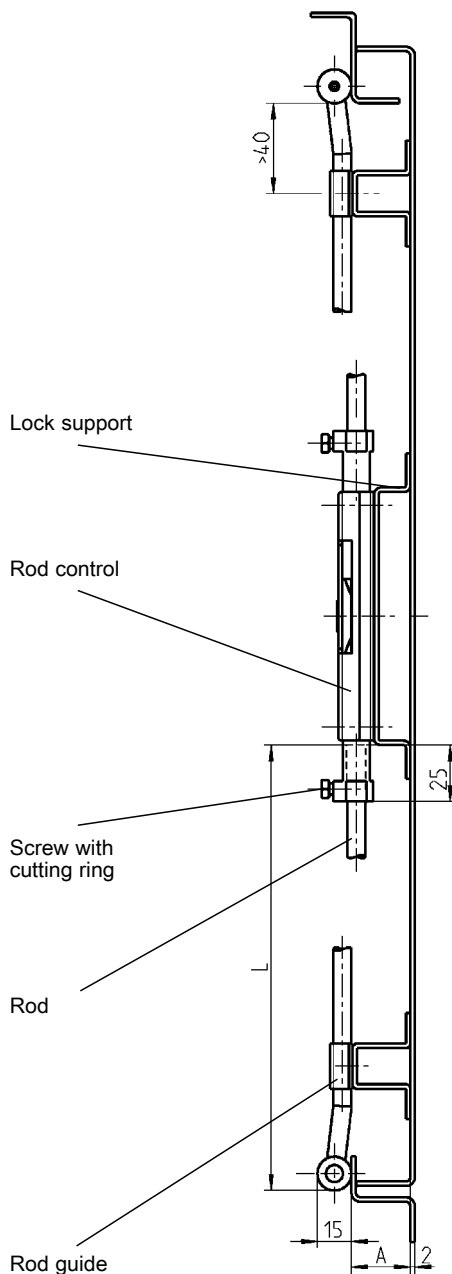
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Rod control PROGRAM weld-on



Three-sided lock for plug-in rod
Stroke 13 or 18 mm

90° turn



Rod control can also be operated with socket spanner when mounted without insert., see catalogue page 12B-120.

Further parts see page

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

Program 1107

– Swinghandle	3A-220
---------------	--------

Rod control m.s. zinc-plated

Right

Left

Support m.s. raw

Stroke 13

1049-U1

1049-U2

A20

1001-18

Stroke 18

1049-U19

1049-U20

A26

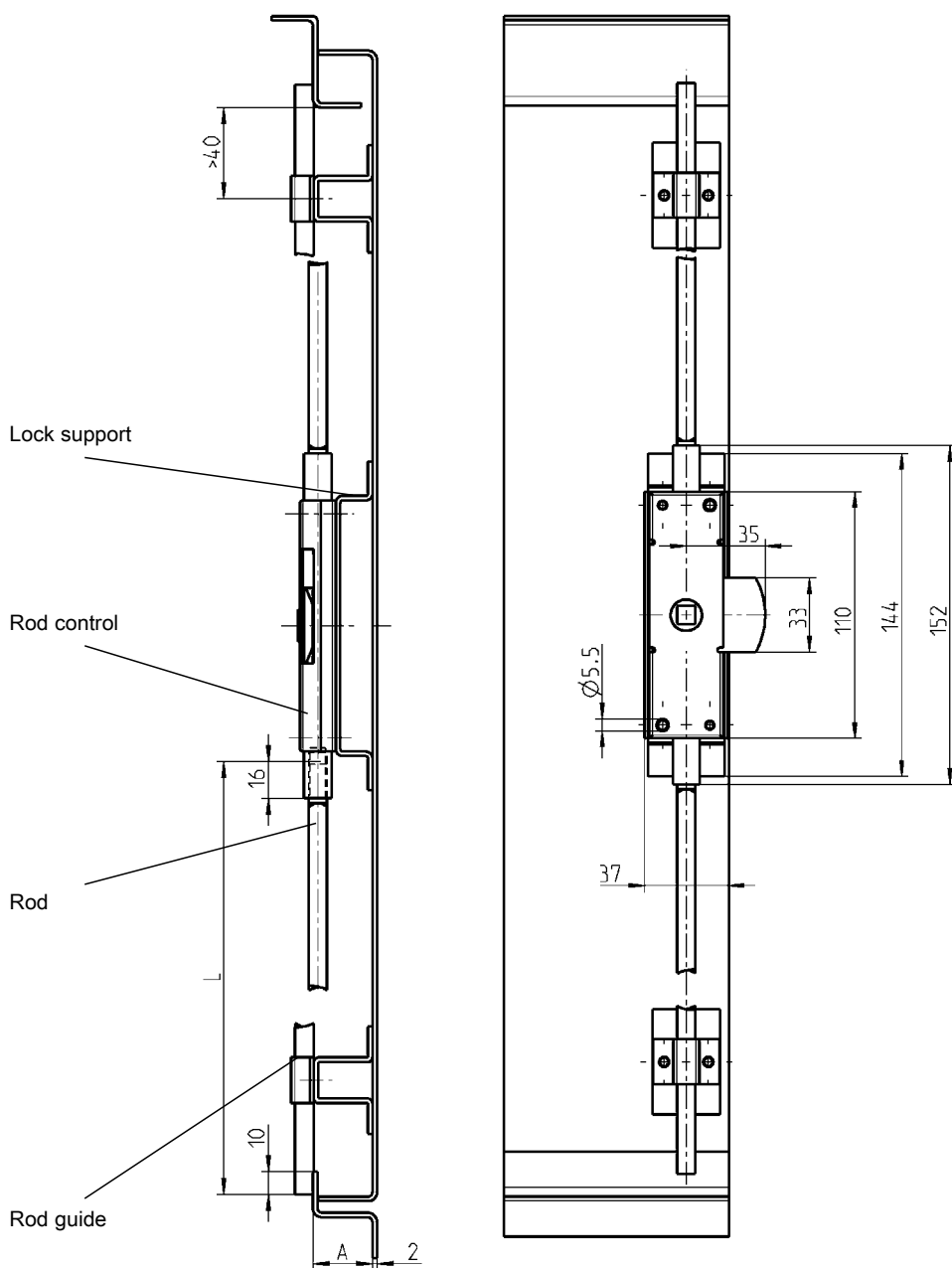
1001-19

Rod control

PROGRAM weld-on

Three-sided lock for screw-in rod
Stroke 13 mm

90° turn



Rod control can also be operated with socket spanner when mounted without insert., see catalogue page 12B-120.



Further parts see page

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

Program 1107

- Swinghandle 3A-220

Rod control m.s. zinc-plated

Stroke 13

Right

1001-U1

Left

1001-U2

Support m.s. raw

A20

A26

1001-18

1001-19

Info
1 Quarter turns
2 Rod controls
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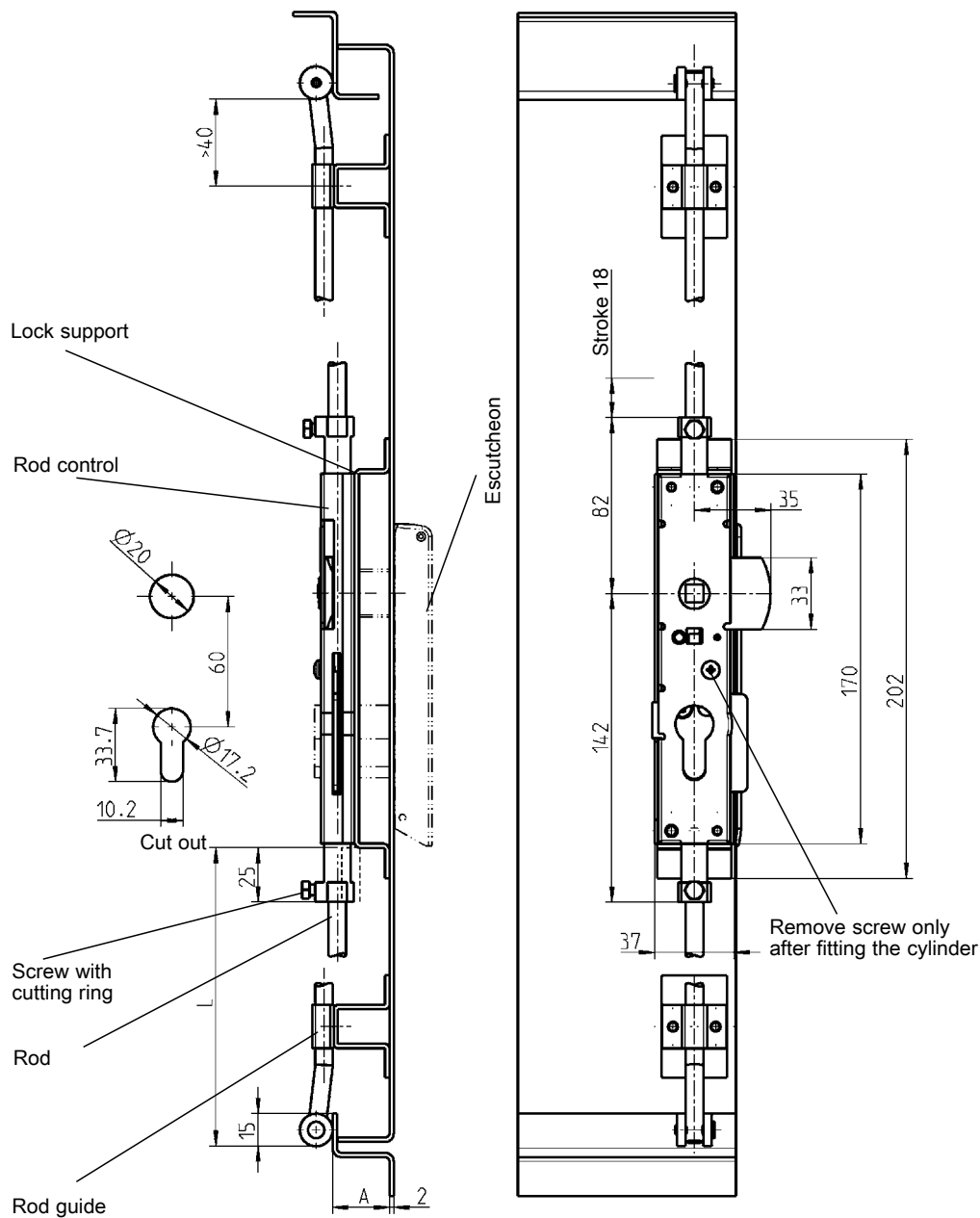
Rod control for profile half cylinder PROGRAM weld-on



Further parts see page

- | | |
|-------------------------|--------|
| - Insert, bezel | 2B-160 |
| - T-handle | 2B-160 |
| - L-handle | 2B-160 |
| - Ring handle insert | 2B-190 |
| - Rod | 1C-620 |
| - Profile half cylinder | 2B-220 |
| - Escutcheon | 8D-120 |

90° turn
Stroke 18 mm



Rod control m.s. zinc-plated

Right	1068-U1
Left	1068-U2

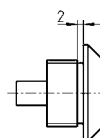
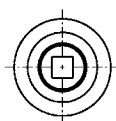
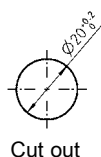
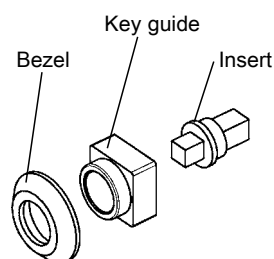
Support m.s. raw

A20	1017-14
A26	1017-15

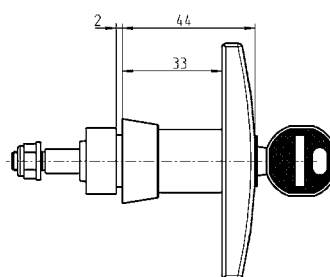
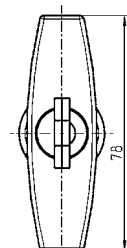
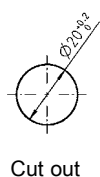
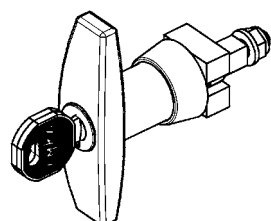
Blind plug for profile half cylinder cut out

A20	1059-U1
A26	1059-U2

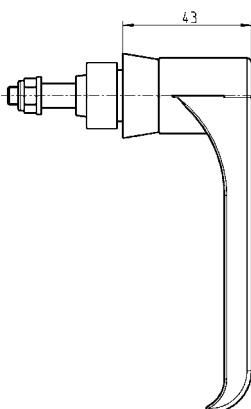
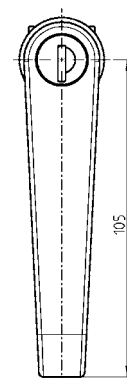
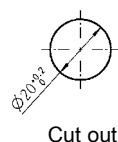
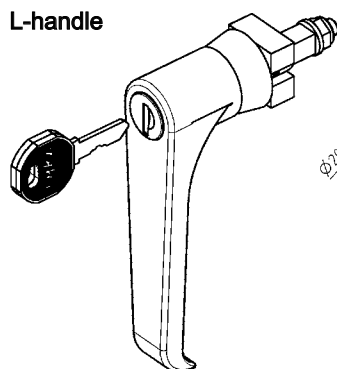
Insert and handle PROGRAM weld-on



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-plated

	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-plated

	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 half-round	1044-U21	1044-U22

Note:
Insert with spring loaded return (two-hand operation)

Further parts see page

- Dust cap for T-handle	1C-340
- Key	8B-120
- Spare key	8B-140
- Hook latch	2B-120
- Rod control	2B-130
	to 2B-140

Rod control, pressure tight system PROGRAM weld-on

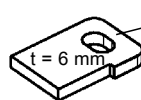
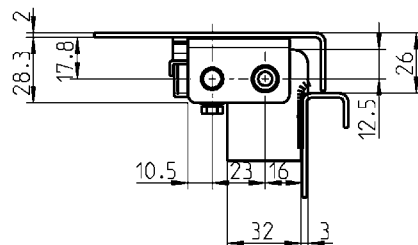
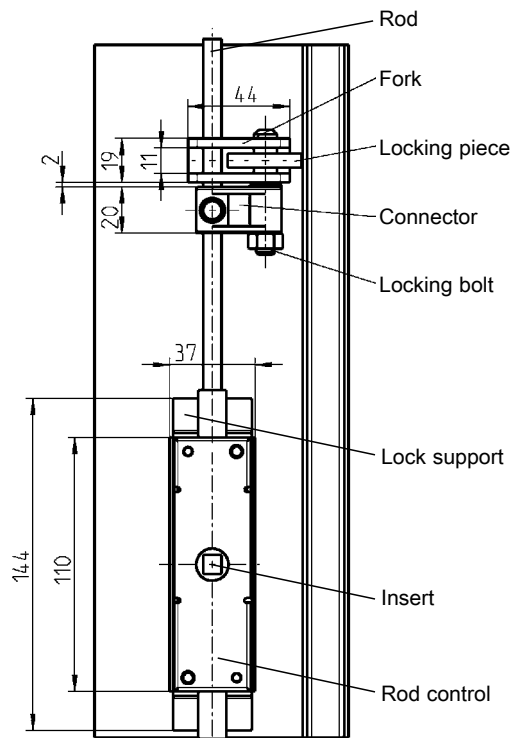


Version A

Version B

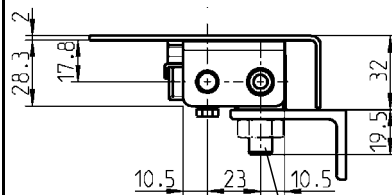
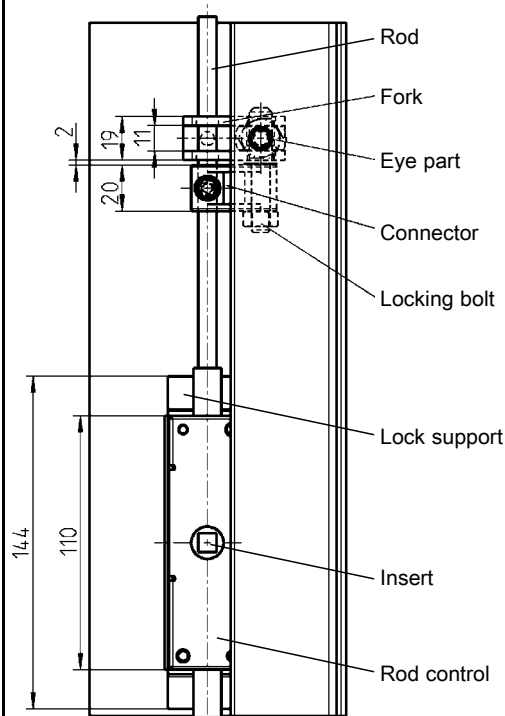


Version A

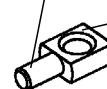


Locking piece

Version B



M10



Eye part

Single components on request

Further parts see page
– Screw-on hinge

4A-260

Rod control m.s. zinc-plated

Right

Left

Support m.s. raw

Insert zinc die chrome-plated

Double bit 5

Key guide ABS

Bezel ABS chrome pl.

Rod m.s. zinc-pl.

1000 mm long

Pressure fitting complete consisting of following single components:

Fork m.s. raw, connector zinc die zinc-plated, locking pin m.s. zinc-plated and

Version A: Locking piece m.s. raw

Version B: Screw-on eye m.s. zinc-plated

Stroke 18

1001-U9

1001-U10

1001-18

1001-28

1001-29

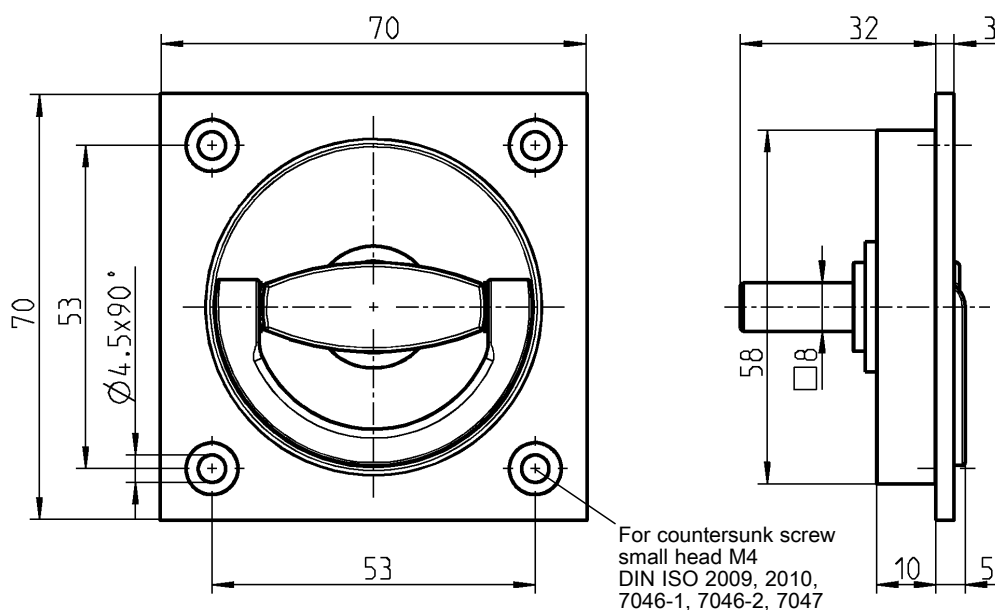
1001-33

1092-03

1092-U03

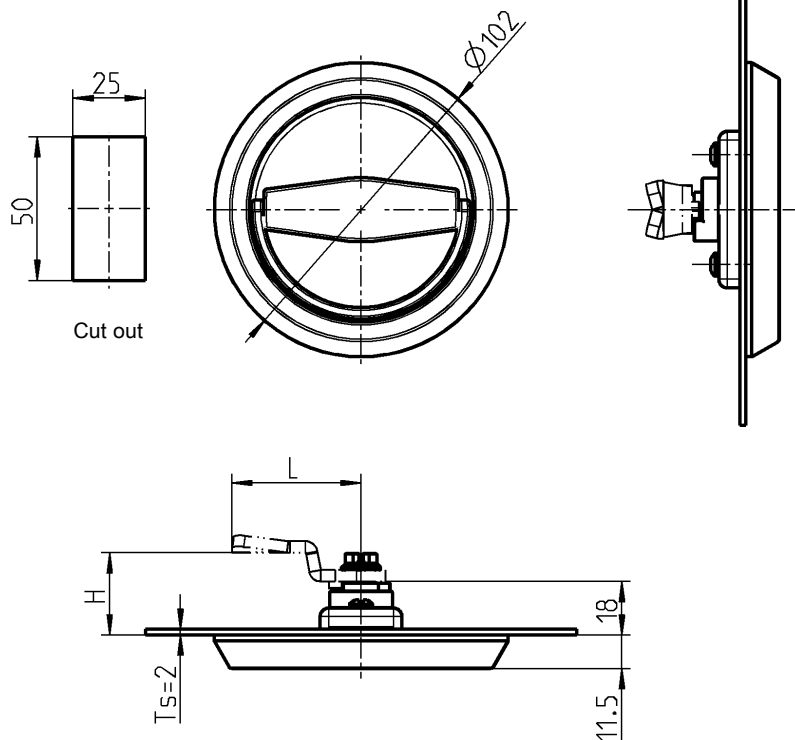
1092-U04

Ring-handle insert PROGRAM 1098



Ring-handle insert zinc die silver powder-coated

1098-U1



Ring-handle quarter turn AISI 316 Ti, with seal

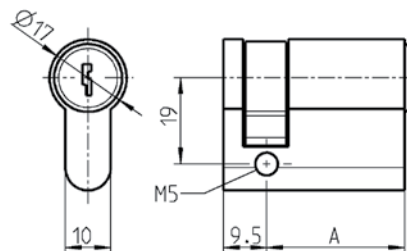
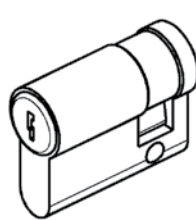
IP 65

1098-U2

Further parts see page
– Cam with catch 1C-120
(not suitable for stainless steel slam cam)

Profile half cylinder PROGRAM universal

Profile half cylinder according to DIN 18252 (EN 1303)



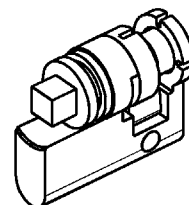
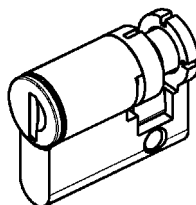
Profile half cylinder according to DIN 18252,
brass nickel-plated with 3 keys

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 insert,
rotates 360°



EMKA profile half cylinder with round cylinder zinc die with stainless steel cap and dust cap,
each round cylinder has one silver steel key with grip polyamide GF black, rotates 360°

keyed different or keyed EK 333

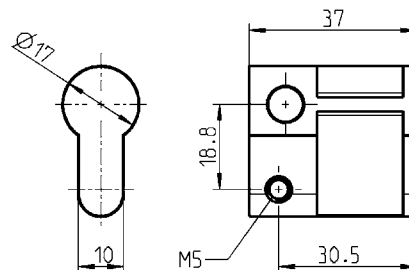
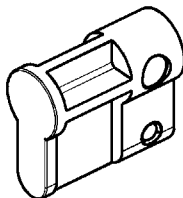
on request

EMKA profile half cylinder with insert zinc die chrome-plated, rotates 360°

Insert, e.g. square, triangular, double bit, slot and more

on request

Blind plug



Blind plug polyamide GF black

1109-09-AA

Further parts see page

- Key 8B-120
- Spare key 8B-140
- Rod control 2A-120
- 2B-140

Blind plug for rod control Program 1068

A20

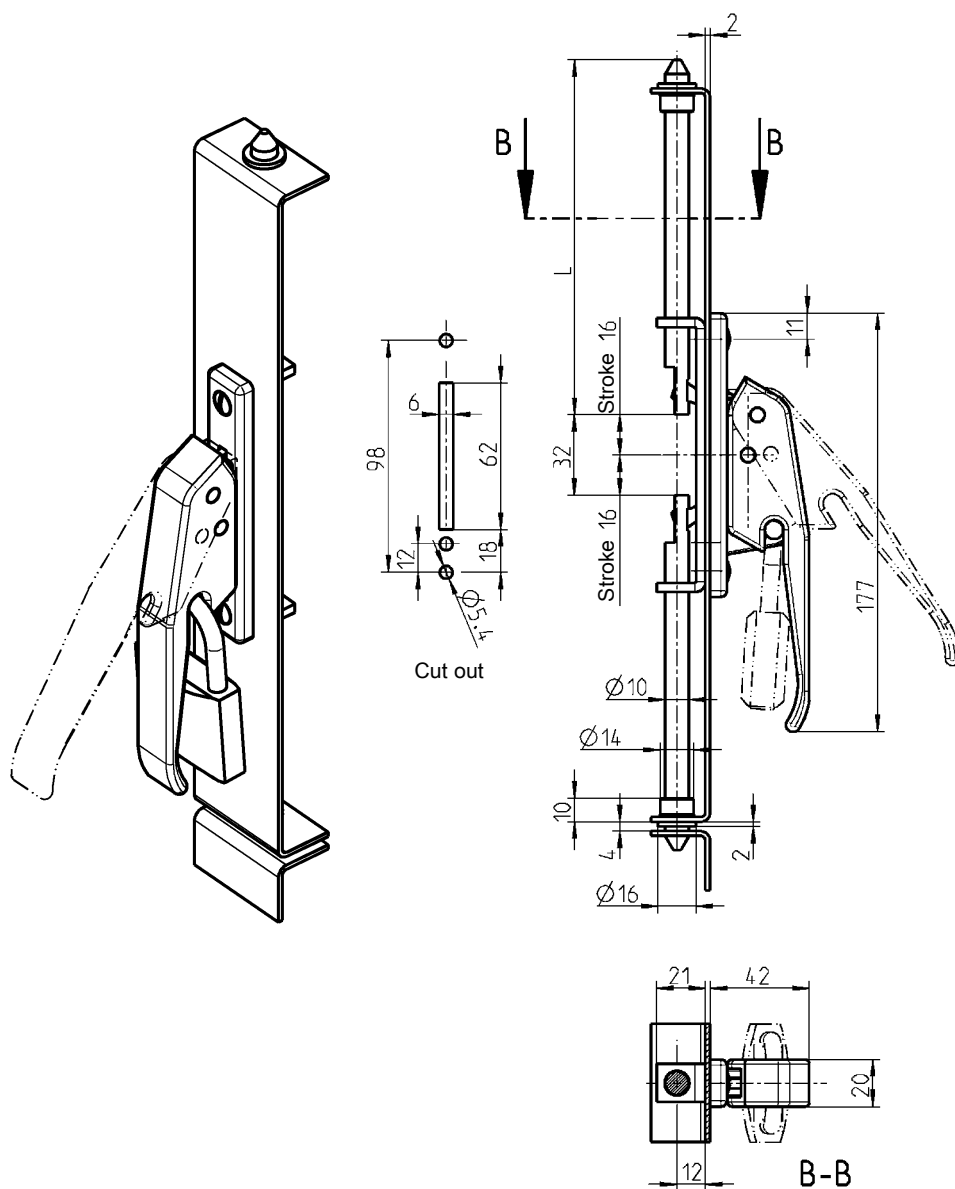
A26

(Illustration see right side, bottom)

1059-U1

1059-U2

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-plated

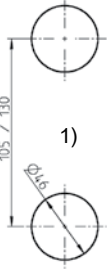
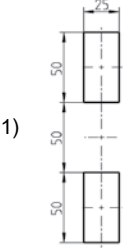
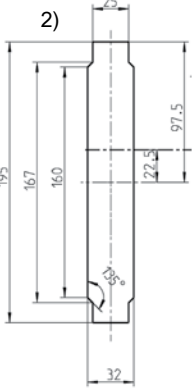
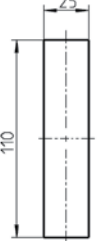
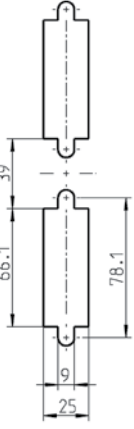
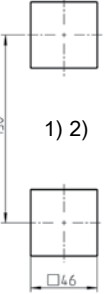
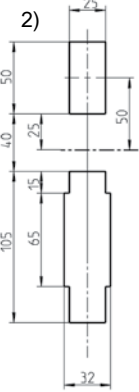
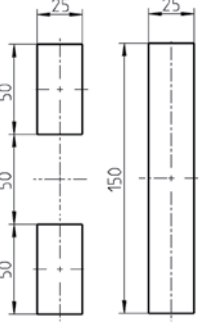
L = 1100 mm

1099-03

Other rod lengths available on request

Info	1 Quarter turns	2 Rod controls	3 Locking systems	4 Hinges	5 Seals	6 Handles	7 Aluminium windows	8 Miscellaneous	9 Special catalogues	Index
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Swinghandles, lifthandles and escutcheons, Part 1

1107	1125	1125	1150	1150	1150
Swinghandle	Swinghandle	Double cylinder swinghandle	Swinghandle 1150	Swinghandle 1150	Swinghandle 1151
3A-100	3B-100	3B-100	3C-100	3C-100	3C-100
					
1)	1)	2)			
					
					
●	●	●	●	●	●
IP 65	IP 40/IP 65	IP 65	IP 65	IP 40	IP 54/IP 65
	●		●		●
	●		●	Emergency opening	●
●	●	●		●	●
●	●		●		●
●	●	●	●		●
●	●		●		
	●		●	●	●
	●				
	●				

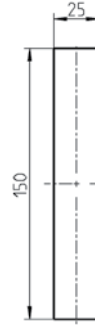
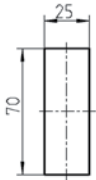
1150	1150	1150	1150
Swinghandle 1152	Swinghandle 1153	Swinghandle 1154	Swinghandle 1154
3C-100	3C-100	3C-100	3C-100

Beschlagteile

see catalogue page



→
Please see next page.
Overview of further
products.



•	•	•	•
IP 40/IP 65	IP 65	IP 65	IP 65
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•

Inside the sealing
Outside the sealing
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

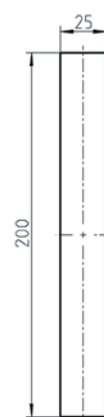
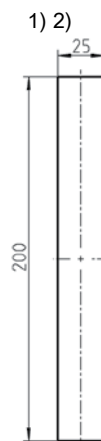
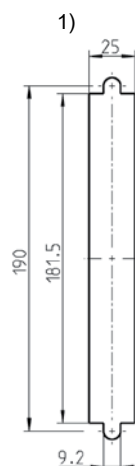
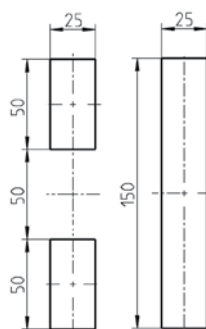
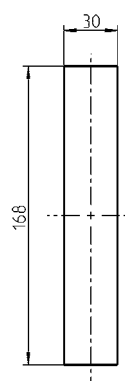
1180

Swinghandle
1185

3E-100



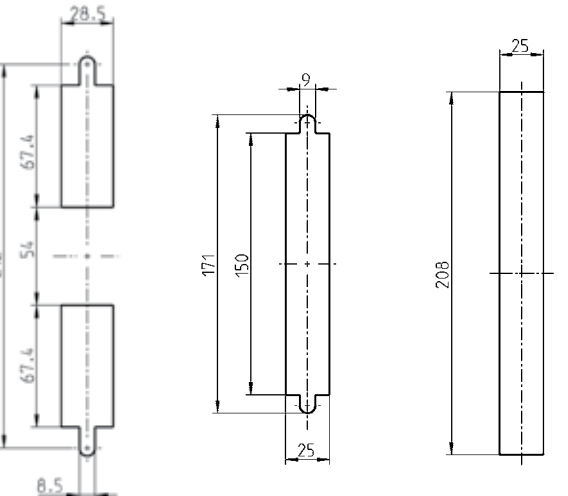
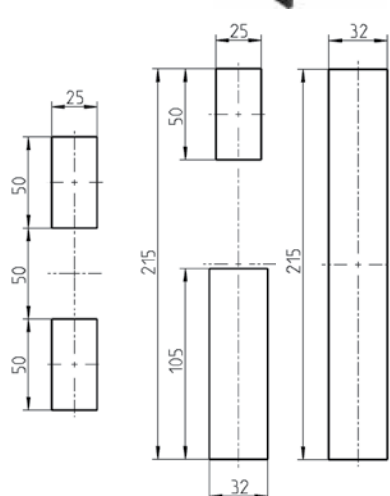
2)

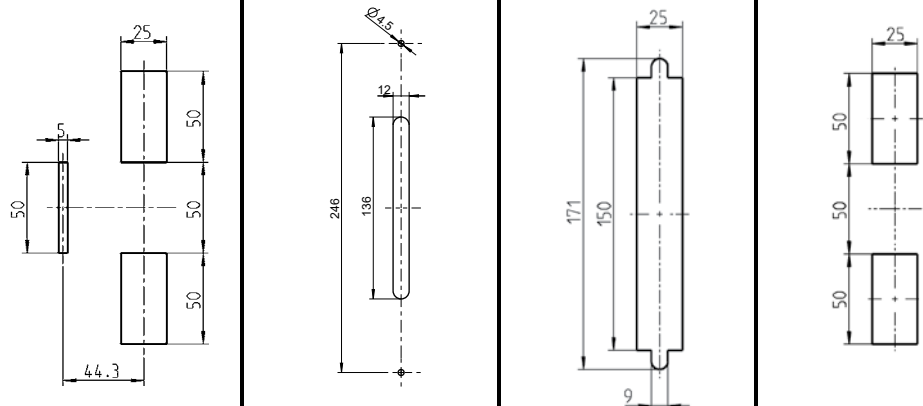


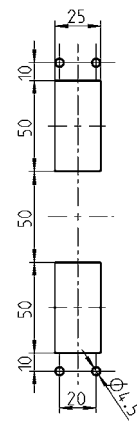
IP 65

Combination lock

●

1190	1190	1190	1225	1225	Beschlagteile
Lifthandle	Lifthandle	Lifthandle	Swinghandle	Double cylinder swinghandle	
3F-100	3F-100	3F-100	3G-100	3G-100	see catalogue page
 			 		→ Please see next page. Overview of further products. ← Please see previous page. Overview of further products.
•	•	•	•	•	Inside the sealing
•	•	•	•	•	Outside the sealing
IP 40	IP 40	IP 40	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

1325	1390	2100	2225	Beschlagteile
Swinghandle	Lifthandle	Swinghandle	Swinghandle	
3BA-100	3FA-100	3H-100	3J-100	see catalogue page
				→ Please see next page. Overview of further products. ← Please see previous page. Overview of further products.
				
•		•	•	Inside the sealing
•	•	•		Outside the sealing
IP 65		IP 54	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
				3-102 03/20

Info		® Swinghandles, lifthandles and escutcheons, Part 4					
Quarter turns		Beschlagteile	2400 Swinghandle	3000 Swinghandle			
1		see catalogue page	3K-100	3N-100			
2 Rod controls		 Please see previous page. Overview of further products.					
3 Locking systems							
4 Hinges							
5 Seals							
6 Handles							
7 Aluminium windows			Inside the sealing		•		
8 Miscellaneous			Outside the sealing	•	•		
			IP-Rating	IP 40			
			Unlocked with insert	•			
			Unlocked with round cylinder	•			
			Unlocked with profile half cylinder	•			
9 Special catalogues			Unlocked electronically	•	•		
			Unlocked without key	•			
			Modular technology	•			
			Handle and dish polyamide	•			
		Handle zinc die and dish polyamide		•			
Index		3-103 03/20					

Swinghandle Program 1107

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

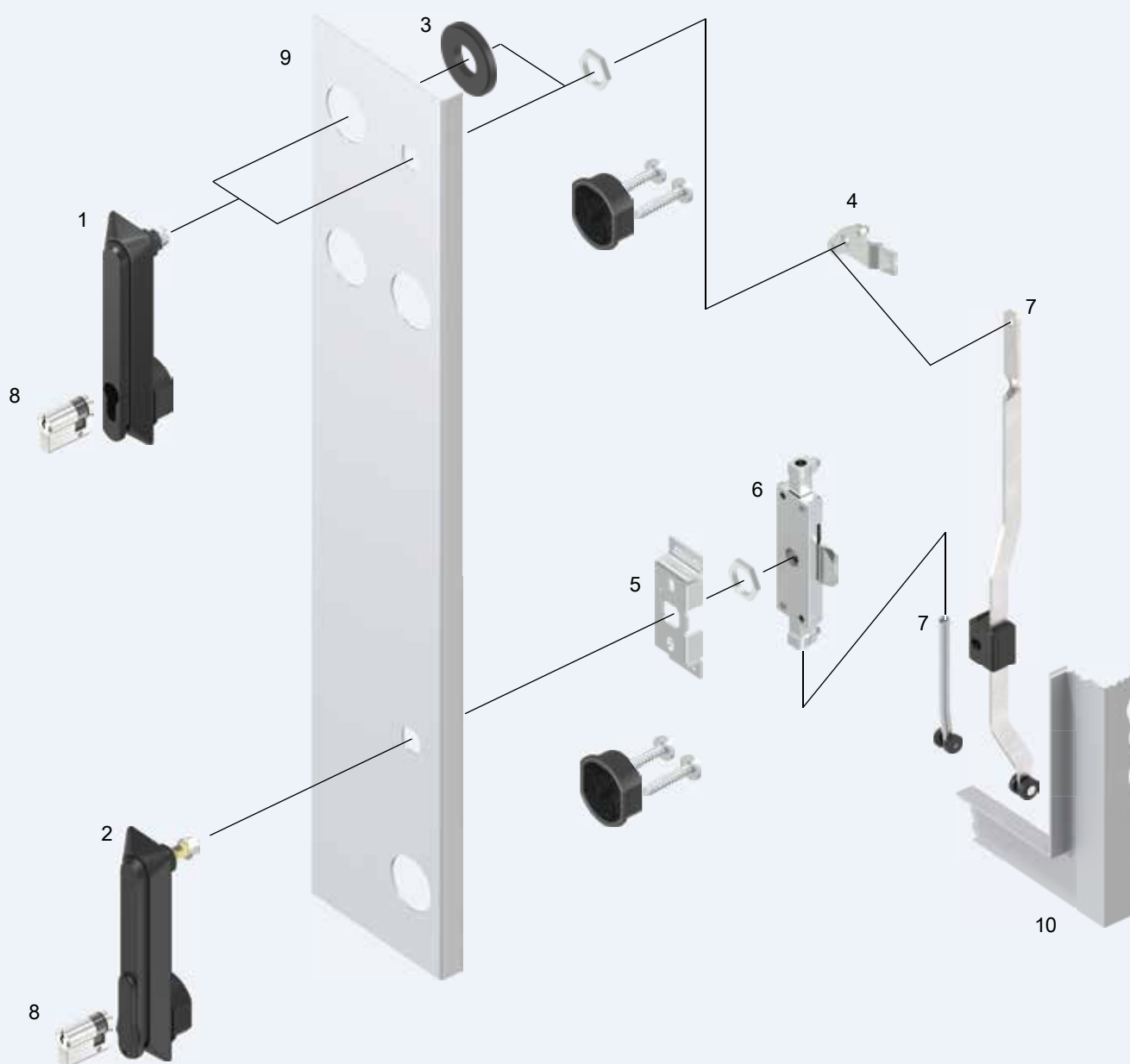
6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

Index



- 1 Swinghandle
- 2 Swinghandle
- 3 Adapter ring
- 4 Cam
- 5 Support
- 6 Rod control
- 7 Rod
- 8 Profile half cylinder
- 9 Door
- 10 Housing/frame

3A-120, 3A-140
3A-220

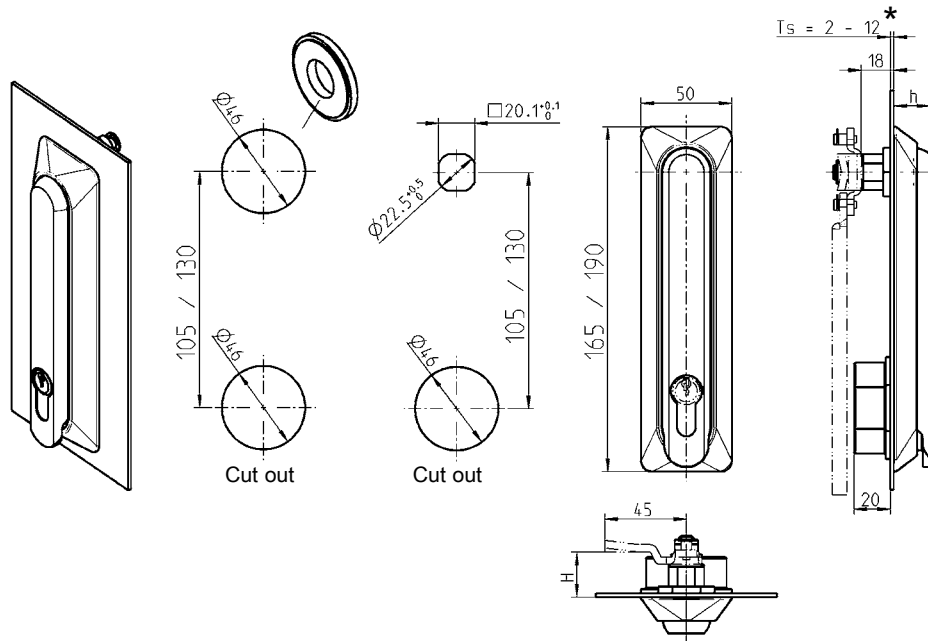


3A-100



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!

Swinghandle 'long' or 'short'
handle polyamide GF black; dish polyamide GF V0 black;
shaft brass; cylinder cover polyamide GF black;
fixing material m.s. zinc plated; with seal

Swinghandle 'long' (190) without cylinder cover

for 40 mm profile half cylinder (h = 20 mm)

1107-U1-G

Swinghandle '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)

1107-U102-G

(handle zinc die black powder-coated)

for 45 mm profile half cylinder (h = 25 mm)

1107-U32-G

Swinghandle 'short' (165) without cylinder cover

for 40 mm profile half cylinder (h = 20 mm)

1107-U158-G

Swinghandle '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 ring polyamide GF black, required for cut out version A

1107-53

* Order screw set separately if Ts = 4-12 mm

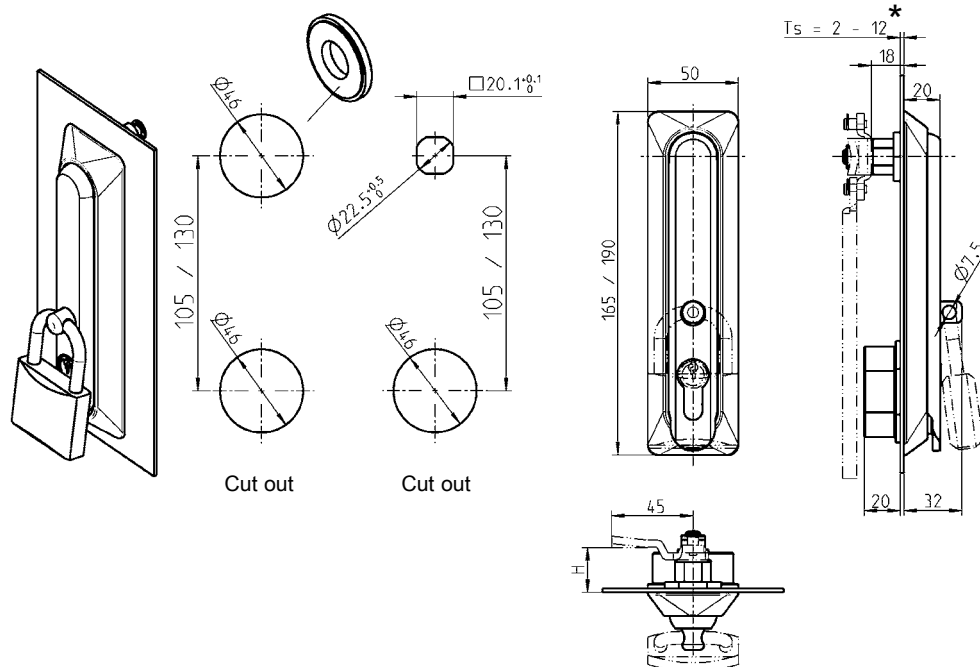
1107-U170

Further parts see page

– Cam	3YC-120
– Rod control	
for cam	3YC-180
– Profile half cylinder	3XB-120

Swinghandle for padlock 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!



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

Index

Swinghandle '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

Swinghandle 'long' (190)

for 40 mm profile half cylinder

1107-U96-G

Swinghandle 'short' (165)

for 40 mm profile half cylinder

1107-U164-G

Adapter ring polyamide GF black, required for cut out version A

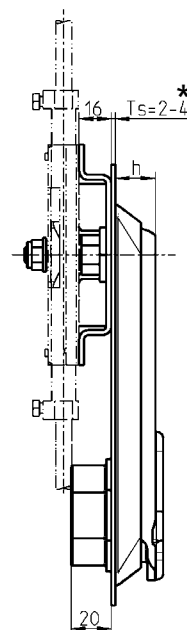
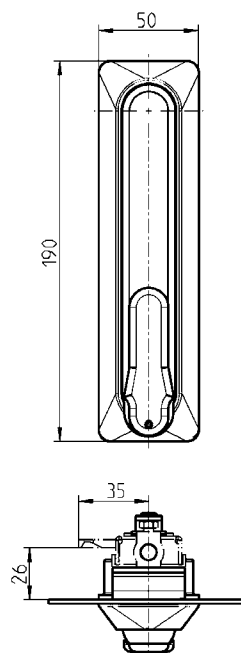
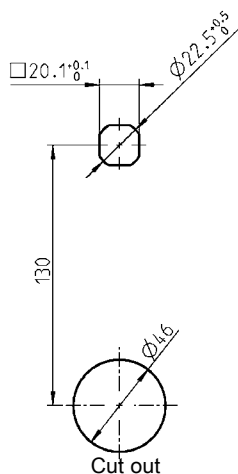
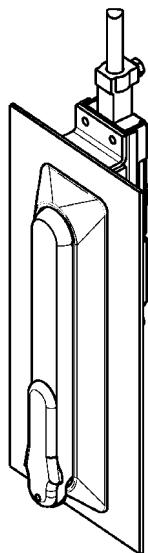
1107-53

* Order screw set separately if Ts = 4-12 mm

1107-U170

Further parts see page

– Cam 3YC-120
– Rod control 3YC-180
– Profile half cylinder 3XB-120



* Ts > 4 to 11 mm on request

Further parts see page

- Rod control 2B-130
- Profile half cylinder 2B-135
- Profile half cylinder 3XB-120

Handle material of choice; 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 powder-coated

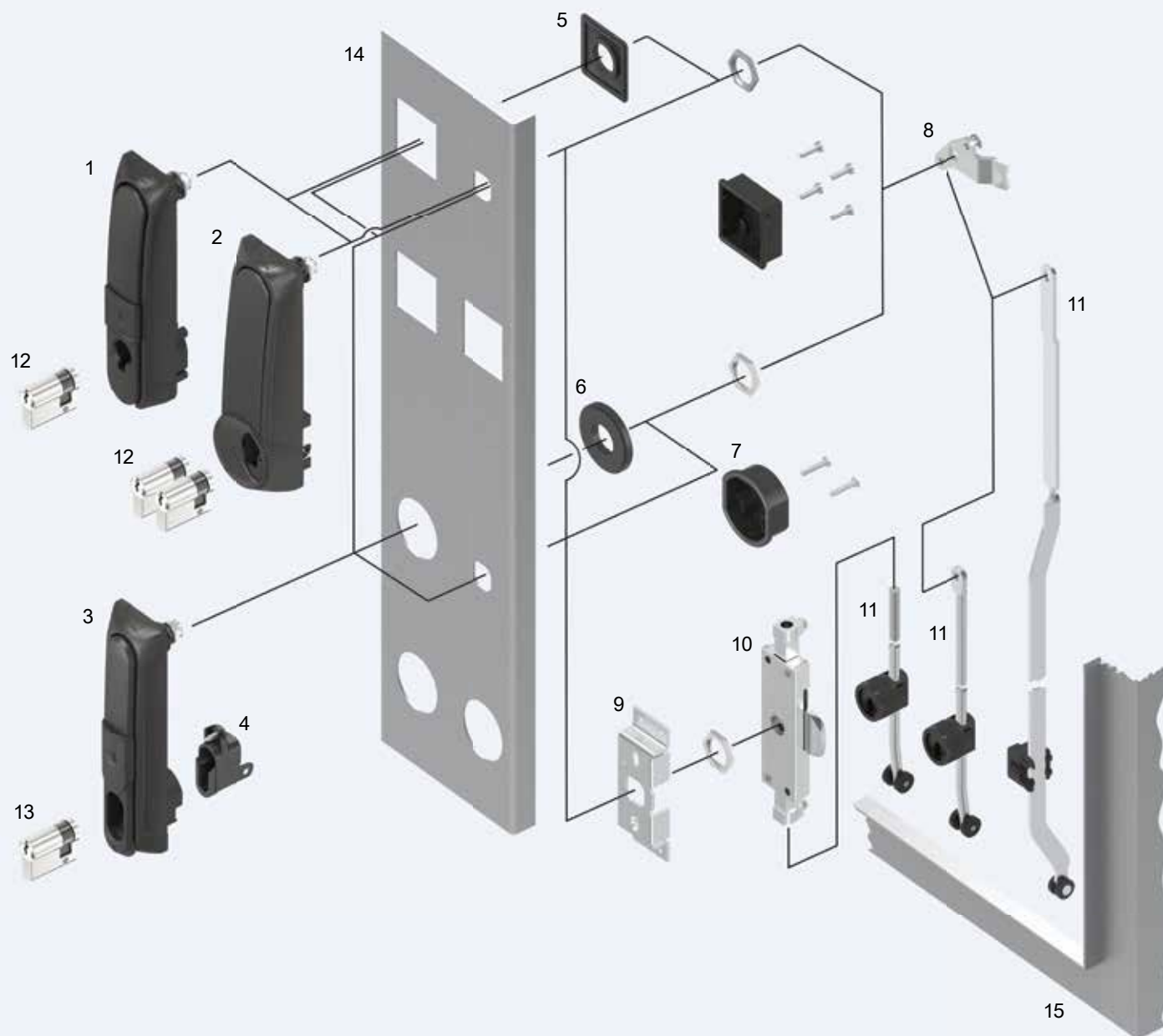
1107-U104-G

Support m.s. zinc-plated

RH and LH version

1001-50

Swinghandle Program 1317



- | | | |
|----|--|------------------|
| 1 | Swinghandle with RC2 | 3AB-120; 3AB-180 |
| 2 | Double cylinder swinghandle with RC2 | 3AB-160; 3AB-220 |
| 3 | Swinghandle with modular locking system | 3AB-140; 3AB-220 |
| 4 | Locking set | |
| 5 | Adapter plate | |
| 6 | Adapter ring (not included in scope of delivery) | |
| 7 | Cap (not included in scope of delivery) | |
| 8 | Cam | |
| 9 | Support | |
| 10 | Rod control | |
| 11 | Rod | |
| 12 | Profile half cylinder | |
| 13 | Locking set, e.g. profile half cylinder | |
| 14 | Door | |
| 15 | Housing / Frame | |



3AB-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

Index

Swinghandle with RC2, mechanical or electromechanical release

PROGRAM 1317

Resistance class: RC2 DIN EN 1630, achieved by profile half cylinder according to DIN EN 18252-BZ or DIN EN 1303 with resistance class 2 with protection against drilling and pulling. The profile half cylinder should be certified and monitored by PIV CERT or alternatively by a certifying body according to DIN EN ISO/IEC 17065.

Size: 'long' (189.5 mm, cut out 130 mm) or 'short' (164.5 mm, cut out 105 mm)

Material: Zinc die black powder-coated or zinc die grey powder-coated (RAL 7038) or zinc die grey powder-coated (RAL 7038) and anti-graffiti coated

Mechanical version:

Profile half cylinder: 40 mm and 45 mm; set locking cam at 6 or 7 o'clock. At 3 or 5 o'clock push-to-close is not possible.

Sealable: Yes

Electromagnetic version (EL):

Application range: Indoor and outdoor from -30°C to +80°C

Release: By applying a 48 V DC signal

Power-on time: Up to 1 minute

Display: Optional by LED

Remote monitoring: Status indication via Reed contact

Closing: Push the handle into the dish until the locking mechanism engages

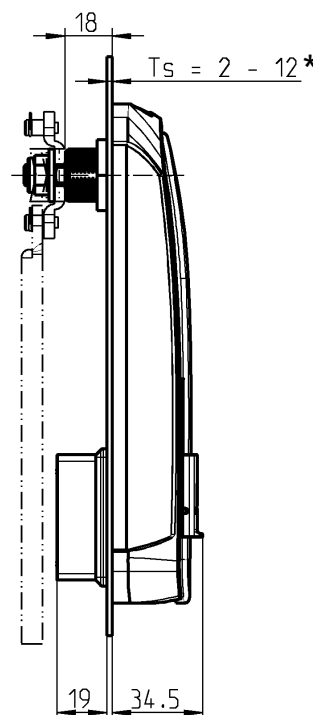
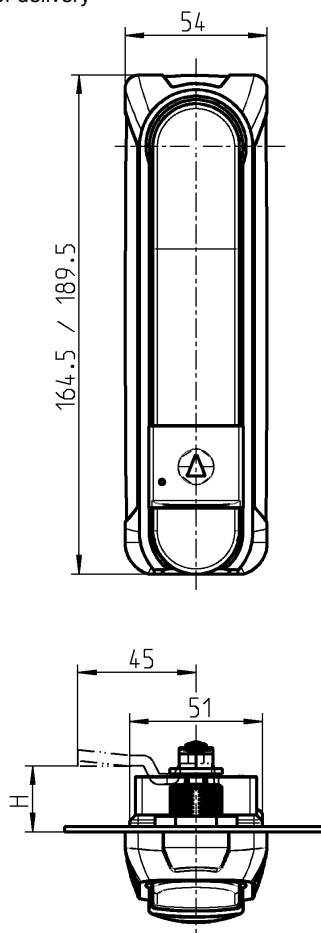
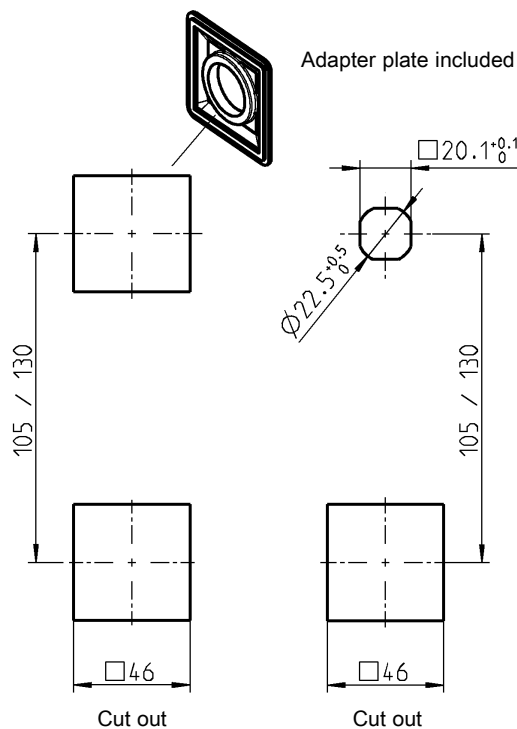
Emergency opening: Optional with 40 mm or 45 mm profile half cylinder

Version A

Version B

Adapter plate included in scope of delivery

Ts > 6 mm - 12 mm on request



Product benefits

- The swinghandle has successfully passed the test according to RC2 DIN EN 1630
- The IK 10 protection class test in accordance with DIN EN 50102 was successfully passed
- Integrated scratch protection prevents surface damage (handle / dish)
- Tested and approved by Deutsche Telekom

Attention:

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

Note:

If door gauge (Ts) > 6 mm standard round rods cannot be used!

** In case of mechanical and the electromechanical version, only the profile half cylinder according to DIN EN 18252 and DIN EN 1303 can be used.

Note:

Without profile half cylinder, opening is only possible by temporary key 1004-44-01AA



Swinghandle 'long' or 'short'
dish and handle zinc die surface on request
shaft brass; cylinder cover polyamide black or grey (RAL 7038);
cap zinc die black powder coated; adapter plate polyamide GF black for cut out version A;
blind plug polyamide GF black (loose), spring, data sheet and assembling instruction included
in the electromechanical version;
fixing material m.s. zinc-plated; with seal

Swinghandle 'long' (189.5)
GD-Zn black powder-coated

Mechanical version for 40 mm profile half cylinder, with additional locking cam position 30°	1317-U122
Mechanical version for 45 mm profile half cylinder	1317-U123
Mechanical version for KABA cylinder type 1514	on request
Electromechanical version optional for 40 and 45 mm profile half cylinder	1317-U161-02

Swinghandle 'long' (189.5)
zinc die grey powder-coated (RAL 7038)

Mechanical version for 40 mm profile half cylinder, with additional locking cam position 30°	1317-U122-BO
Mechanical version for 45 mm profile half cylinder	1317-U123-BO

Swinghandle 'long' (189.5)
zinc die grey powder-coated (RAL 7038) and anti-graffiti coated

Mechanical version for 40 mm profile half cylinder, with additional locking cam position 30°	1317-U122-HJ
Mechanical version for 45 mm profile half cylinder	1317-U123-HJ
Mechanical version for KABA cylinder type 1514	on request
Electromechanical version optional for 40 and 45 mm profile half cylinder	1317-U161-02HJ

Swinghandle 'short' (164.5)
zinc die black powder-coated

Mechanical version for 40 mm profile half cylinder, with additional locking cam position 30°	1317-U102
Mechanical version for 45 mm profile half cylinder	1317-U103
Mechanical version for KABA cylinder type 1514	1317-U131
Electromechanical version optional for 40 and 45 mm profile half cylinder	1317-U151-02

Swinghandle 'short' (164.5)
zinc die grey powder-coated (RAL 7038)

Mechanical version for 40 mm profile half cylinder, with additional locking cam position 30°	1317-U102-BO
Mechanical version for 45 mm profile half cylinder	1317-U103-BO

Swinghandle 'short' (164.5)
zinc die grey powder-coated (RAL 7038) and anti-graffiti coated

Mechanical version for 40 mm profile half cylinder, with additional locking cam position 30°	1317-U102-HJ
Mechanical version for 45 mm profile half cylinder	1317-U103-HJ
Mechanical version for KABA cylinder type 1514	1317-U131-HJ
Electromechanical version optional for 40 and 45 mm profile half cylinder	1317-U151-02HJ

Building key polyamide black

1004-44-01AA



Note:
The electromechanical version
is also available in 12 V DC on
request.

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

Swinghandle with modular locking system

PROGRAM 1317

Single cylinder swinghandle

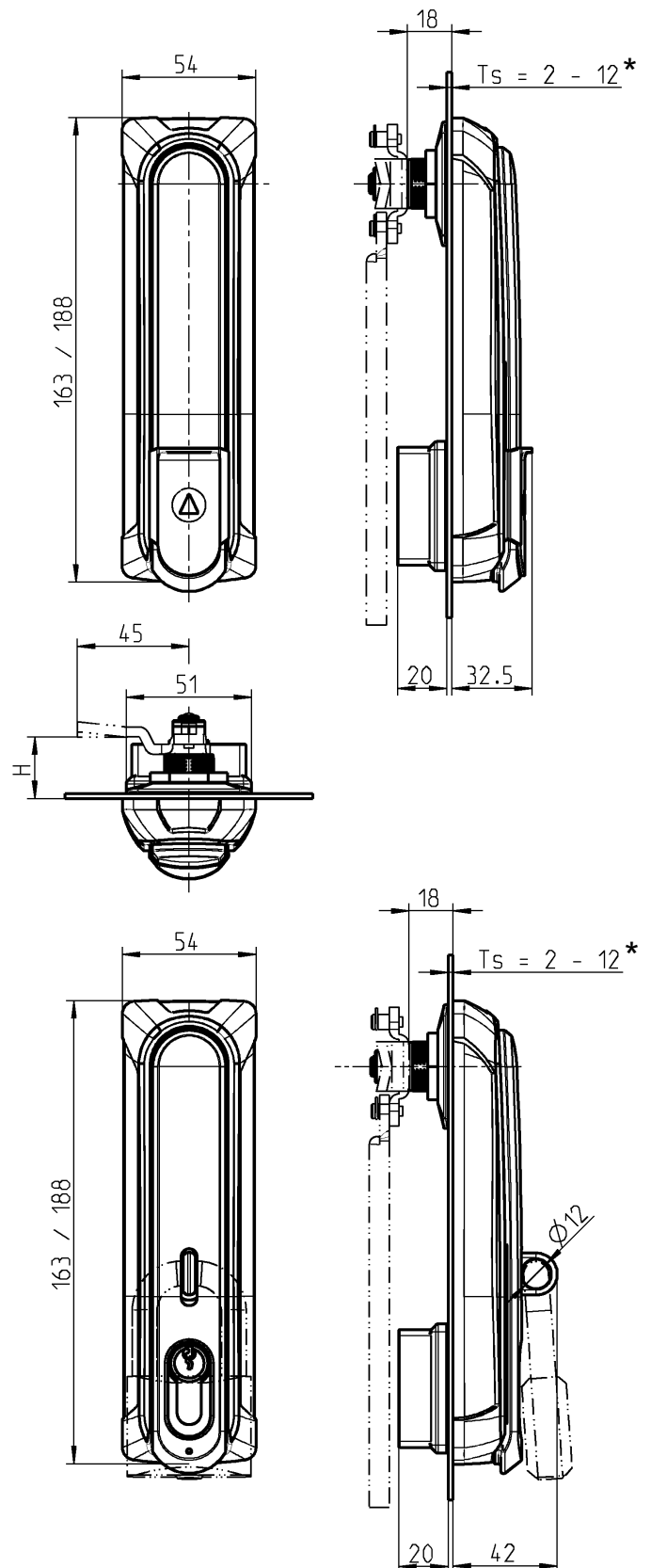
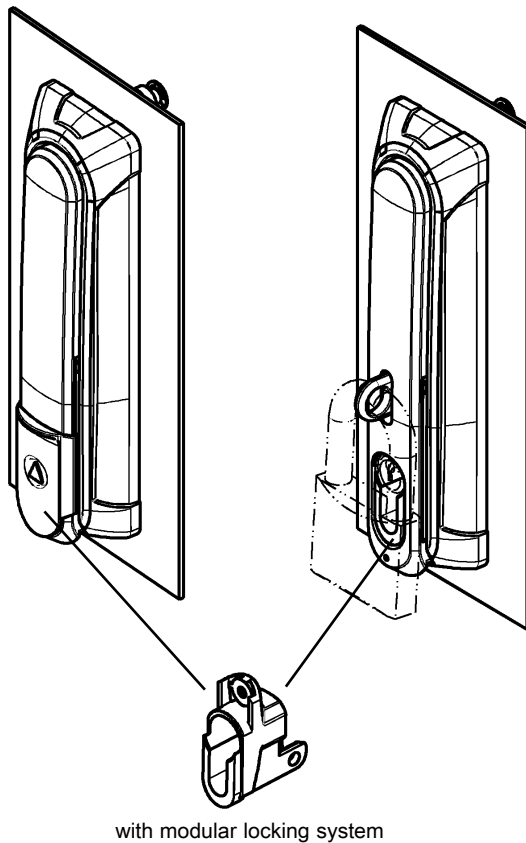
Size: 'long' (188 mm, cut out 130 mm)
or 'short' (163 mm, cut out 105 mm)

Material: Polyamide GF black

Profile half cylinder: 40 mm
45 mm

Sealable: Yes, bore hole in dish necessary

Ts > 6 mm - 12 mm on request



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!

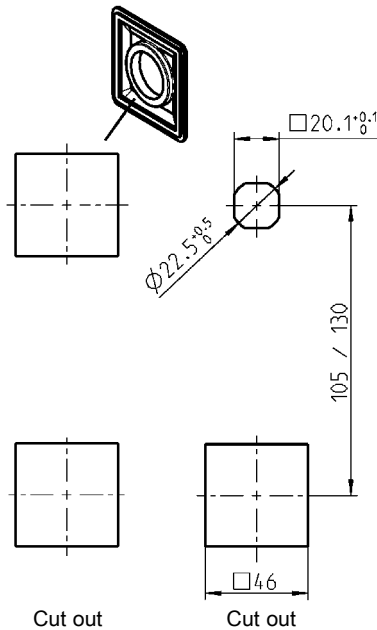
Version A

Version B

Version C

Version D

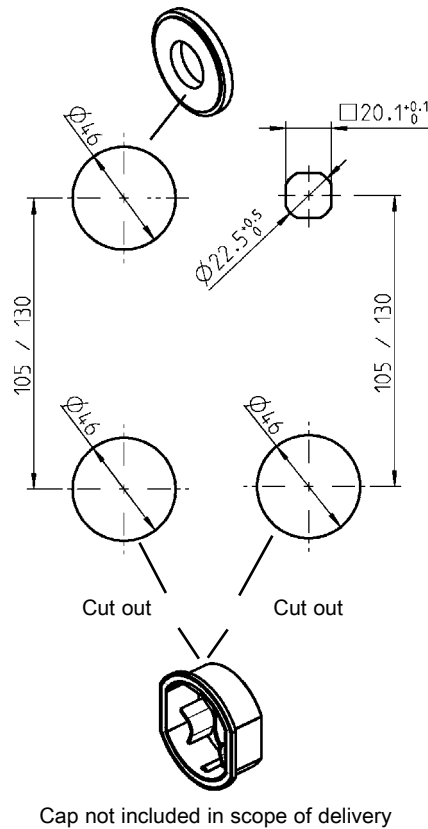
Adapter plate included in scope of delivery



New defined standards

- Ergonomic surface feel
- Variable locking options
- Integrated scratch protection prevents surface damage (handle / dish)

Adapter ring not included in scope of delivery



Swinghandle 'long' or 'short'
handle polyamide GF black; dish polyamide GF black;
cylinder cover polyamide GF black (not for swinghandle for padlock);
shaft brass and POM GF black;
padlock shackle AISI 316 (for swinghandle 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

		with locking set for profile half cylinder ②	
		40 mm (A = 30 mm)	45 mm (A = 35 mm)
① (Please order locking system separately)			
② (In case of profile half cylinder, the locking cam has to be at 90°)			
Swinghandle 'long'	1317-U421	1317-U421-01	1317-U423-01
Swinghandle 'long' for padlock	1317-U426	1317-U426-01	on request
Swinghandle 'short'	1317-U401	1317-U401-01	1317-U403-01
Swinghandle 'short' for padlock	1317-U406	1317-U406-01	on request

required for cut outs C and D

Adapter ring polyamide GF V0 black	1107-53
Cap polyamid V0 black	1107-11-03AA

* Order screw set separately if Ts = 4 - 12 mm

1107-U170



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
– Rod control for cam	3YC-180

Double cylinder swinghandle with RC2

PROGRAM 1317

Double cylinder swinghandle

Resistance class: RC2 DIN EN 1630, achieved by profile half cylinder according to DIN EN 18252-BZ or DIN EN 1303 with resistance class 2 with protection against drilling and pulling. The profile half-cylinder should be certified and monitored by PIV CERT or alternatively by a certifying body according to DIN EN ISO/IEC 17065.

Size:
or
'long' (189.5 mm, cut out 130 mm)
'short' (164.5 mm, cut out 105 mm)

Material:
or
or
or
Zinc die black powder-coated
Zinc die grey powder-coated (RAL 7038) and anti-graffiti coated
Polyamide GF black
Polyamide GF grey (RAL 7038)
Polymide anti-graffiti coated on request

RC2: Swinghandle zinc die

Profile half cylinder: 40 mm and 45 mm; set locking cam at 6 o'clock. Profile half cylinder on the right hand also possible at 5 o'clock.

Key removable: Always removable or when handle is put in

Sealable: Yes, bore hole Ø2 mm necessary in handle

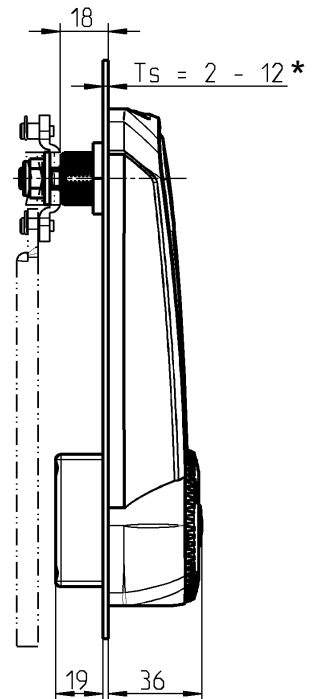
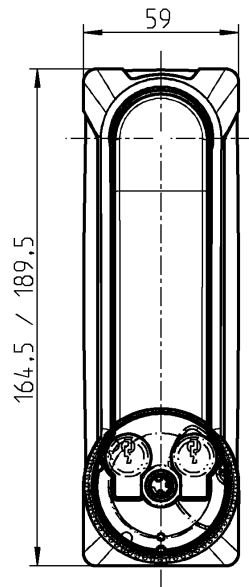
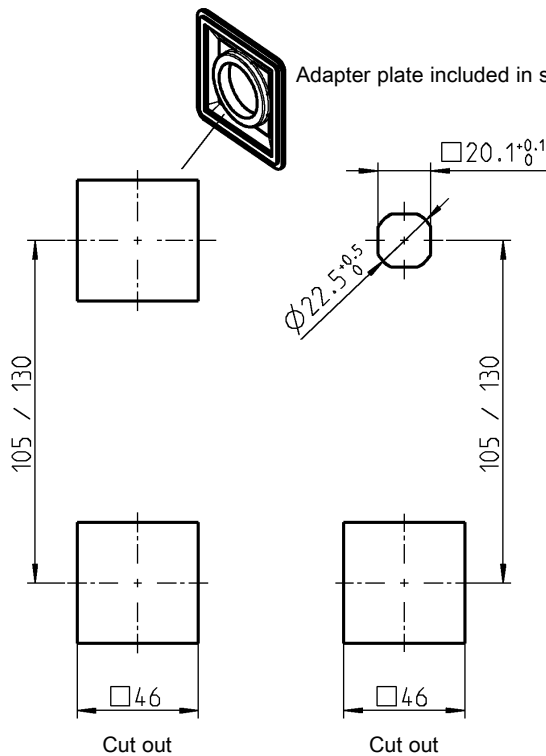


45 mm
40 mm
not included in scope of delivery

Version A

Version B

Ts > 6 mm - 12 mm on request

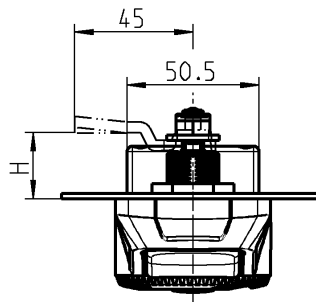


Product benefits

- Zinc die version fulfills the requirements of resistance class RC2 (protection against vandalism) according to DIN EN 1630
- Great flexibility regarding cost / benefit due to the big variety of types
- Tested and approved by Deutsche Telekom

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

Note:
If door gauge (Ts) > 6 mm standard round rods cannot be used!



New defined standards

The swinghandle made of zinc die has successfully passed the test according to RC2 DIN EN 1630.
The IK 10 protection class test in accordance with DIN EN 50102 was successfully passed for swinghandles made of zinc die.
Integrated scratch protection prevents surface damage (handle / dish)



Swinghandle 'long' or 'short'
dish and handle version of choice;
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. Zinc die black powder-coated; cap zinc die black powder-coated; shaft brass
2. Polyamide GF black; cap polyamide GF V0 black;
shaft brass and POM GF black

1. Zinc die (RC2); key always removable	1317-U221
1. Zinc die (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. Zinc die grey powder-coated (RAL 7038) and anti-graffiti coated;
cap zinc die black powder-coated; shaft brass
2. Polyamide GF grey (RAL 7038); cap polyamide GF V0 black;
shaft m.s. zinc-plated

1. Zinc die (RC2); key always removable	1317-U221-HJ
1. Zinc die (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. Zinc die black powder-coated; cap zinc die black powder-coated; shaft brass
2. Polyamide GF black; cap polyamide GF V0 black;
shaft brass and POM GF black

1. Zinc die (RC2); key always removable	1317-U201
1. Zinc die (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. Zinc die grey powder-coated (RAL 7038) and anti-graffiti coated;
cap zinc die black powder-coated; shaft brass
2. Polyamide GF grey (RAL 7038); cap polyamide GF V0 black;
shaft brass and POM GF black

1. Zinc die (RC2); key always removable	1317-U201-HJ
1. Zinc die (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
– Rod control for cam	3YC-180
– Profile half cylinder	3XB-220

3AB-160 02/18

Swinghandle Outdoor with RC2, mechanical or electromechanical release

PROGRAM 1317

Resistance class: RC2 DIN EN 1630, achieved by profile half cylinder according to DIN EN 18252-BZ or DIN EN 1303 with resistance class 2 with protection against drilling and pulling. The profile half cylinder should be certified and monitored by PIV CERT or alternatively by a certifying body according to DIN EN ISO/IEC 17065.

Size: 'short' (164.5 mm, cut out 105 mm)

Material: Zinc die grey powder-coated (RAL 7038), anti-graffiti coating on request

Mechanical version:

Profile half cylinder: 40 mm and 45 mm; set locking cam at 6 or 7 o'clock. At 3 or 5 o'clock push-to-close is not possible.

Sealable: Yes

Electromagnetic version (EL):

Application range: Indoor and outdoor from -30°C to +80°C

Connection type: Plug RJ45 with connection cable (4 m)

Release: By applying a 3 - 3.6 V DC signal

Wake-up function: Yes, by push button

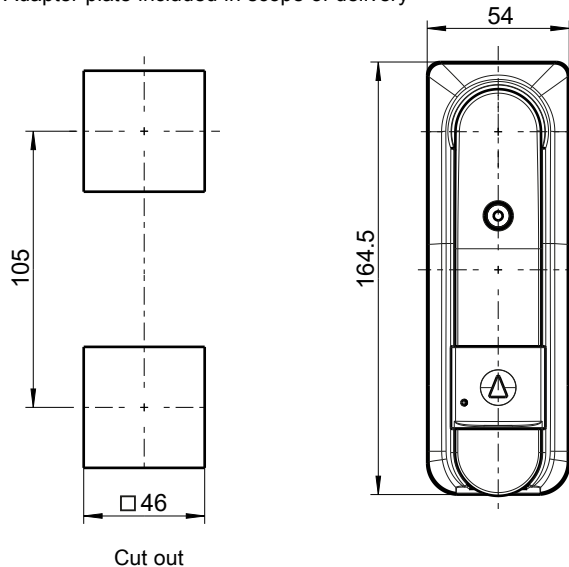
Display: By LED

Remote monitoring: Status indication via Reed contact

Closing: Push the handle into the dish until the locking mechanism engages

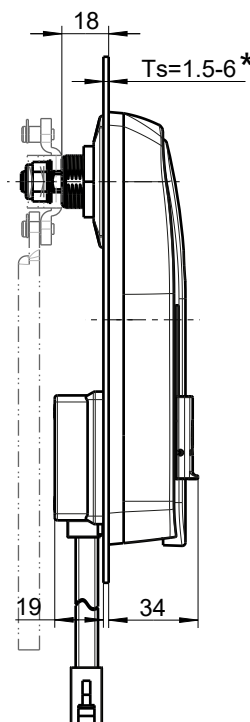
Emergency opening: Optional with 40 mm or 45 mm profile half cylinder

Adapter plate included in scope of delivery



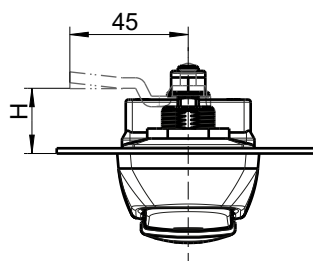
Cut out

* Ts > 6 mm - 8 mm on request



Product benefits

- The swinghandle has successfully passed the test according to RC2 DIN EN 1630
- The IK 10 protection class test in accordance with DIN EN 50102 was successfully passed
- Integrated scratch protection prevents surface damage (handle / dish)



Note:

Without profile half cylinder, opening is only possible by temporary key
1004-44-01AA

Note:

If door gauge (Ts) > 6 mm standard round rods cannot be used!

** In case of mechanical and the electromechanical version, only the profile half cylinder according to DIN EN 18252 and DIN EN 1303 can be used.

RJ45 plug front view	PIN	Assignment	Wire colours
 87654321	1	Motor V +	white
	2	V -	brown
	3	LED V +	green
	4	Reed contact	yellow
	5	-	grey
	6	Motor position 1	pink
	7	Motor position 2	blue
	8	Button	red

The pins 4, 6, 7, 8 must be provided with a pull-up resistor, pin 5 can be provided with a pull-up resistor.

The motor must be directly controlled by a higher-level controller and can only be moved in one direction.
To set the lock in the required status (locked/unlocked), not only the motor must be controlled, but also the motor position switches must be interrogated and evaluated.
The following table serves to identify the corresponding status.

Motor position 1	Motor position 2	Handle status
Logical 0	Logical 1	Locked
Logical 1	Logical 1	Not defined
Logical 1	Logical 0	Unlocked
Logical 1	Logical 1	Not defined
Logical 0	Logical 1	Locked

Whether the lever is open can be queried via Reed contact.
The button can be used for interaction in any form, just as the LED can be used for indication in any way.

Motor: 3.3 V DC, 48 mA (idle), max. 100 mA
LED: 3.3 V DC, 30 mA

Swinghandle 'short'
dish and handle zinc die grey powder-coated (RAL 7038);
shaft AISI 303;
cylinder cover polyamide black or grey (RAL 7038);
cap zinc die black powder-coated;
adapter plate polyamide GF black;
locking box ABS black;
locking pin AISI 303;
miniature push button with LED;
cam disk POM black;
clamp polyamide GF red (transport securing device);
assembly instruction; data sheet included for electromechanical version;
fixing material m.s. zinc-plated; with seal and spring

Electromechanical version optional for 40 and 45 mm profile half cylinder with additional locking cam position 30°	1317-U155-BO
Electromechanical version for type KABA 1514	1317-U156-BO
Mechanical version for 40 and 45 mm profile half cylinder, with additional locking cam position 30°	1317-U157-BO
Mechanical version for KABA cylinder type 1514	1317-U158-BO
Building key polyamide black	
	1004-44-01AA



Note:
The electromechanical version is also available in 12 V DC on request.

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



Further parts see page

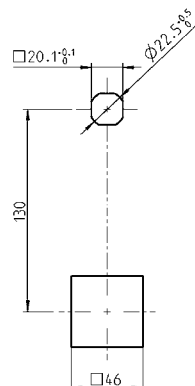
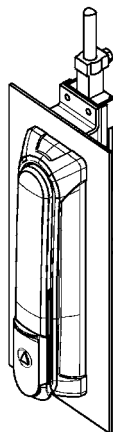
- Rod control 2B-130
- 2B-135
- Profile half cylinder 3XB-120
- 3XC-120
- Locking set

3AB-220

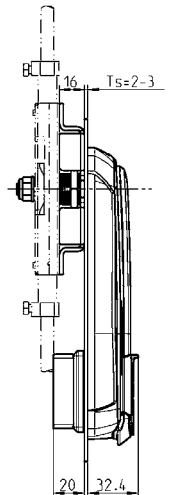
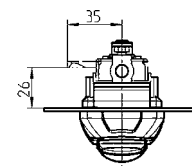
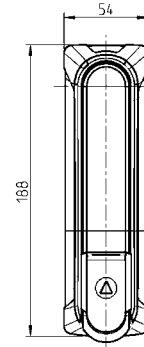
® Swinghandle with modular locking system; Double cylinder swinghandle

PROGRAM 1317

Swinghandle for rod control



Cut out



Swinghandle 'long' with modular locking system

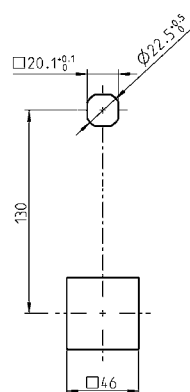
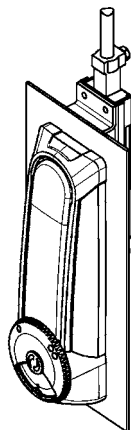
handle and escutcheon polyamide GF black; cylinder cover polyamide GF black;
shaft brass; cap polyamide GF V0 black;
locking set for profile half cylinder; with seal

1317-U421-02

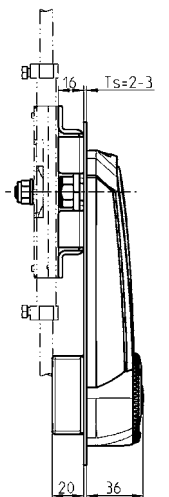
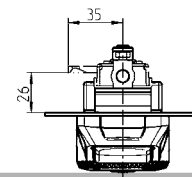
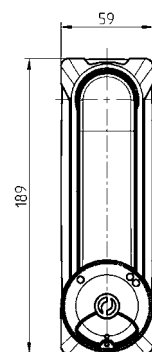
Support m.s. zinc-plated

1001-50

Double cylinder swinghandle for rod control



Cut out



Swinghandle 'long'

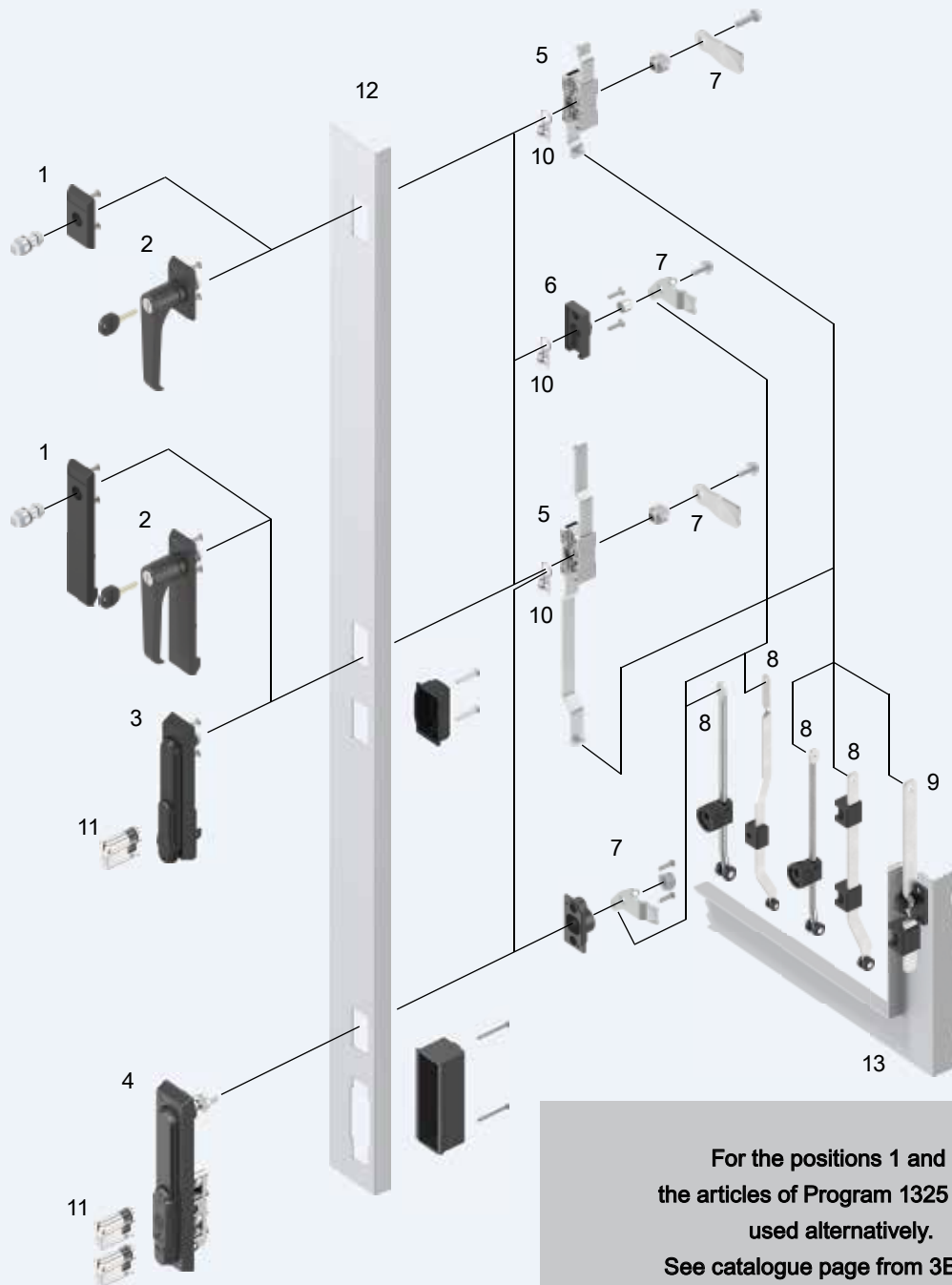
handle and dish polyamide GF black;
cylinder cover zinc die black powder coated;
shaft brass; cap polyamide GF V0 black;
fixing material m.s. zinc die; with seal and spring

1317-U321-01

Support m.s. zinc-plated

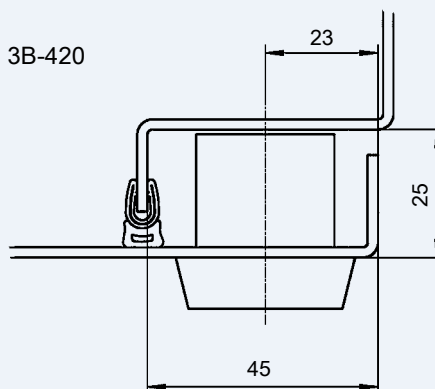
1001-50

Swinghandle and Escutcheon Program 1125



- 1 Escutcheon 1121 with insert
- 2 Escutcheon 1123 with handle
- 3 Swinghandle
- 4 Swinghandle (double cylinder)
- 5 Rod control
- 6 Bearing bush
- 7 Cam
- 8 Rod (inside the sealing)
- 9 Rod (outside the sealing)
- 10 Grounding device
- 11 Profile half cylinder
- 12 Door
- 13 Housing / Frame

- 3B-120
- 3B-180
- 3B-220, 3B-420
- 3B-320



3B-100

Escutcheon 1121 with insert PROGRAM 1125

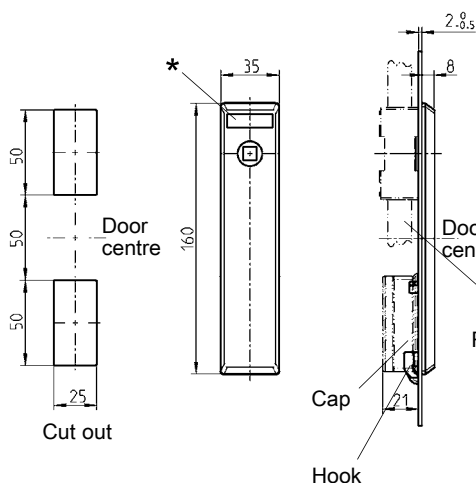


* Logo recess: 27 x 8 x 0.5
Multicolour pad print possible

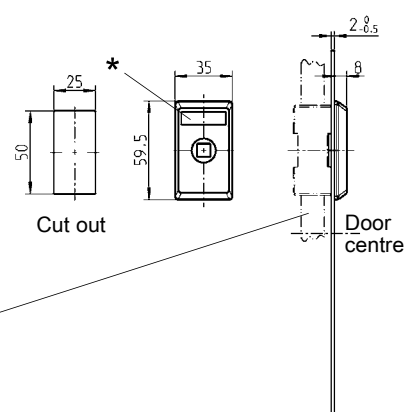
** made of polyamide
on request

Further parts see page

- Key 8B-120
- Rod control for long version 3YA-110
3YA-120
3YA-140
(only with hook) 3YA-190
- Short version 3YA-115
3YA-160
3YA-120
- Bearing bush



Escutcheon short



Escutcheon long material of choice, screws m.s. zinc-plated or stainless steel, with seal

	Hook IP 40	Clip-in cap IP 40	Screw-on cap IP 65	Escutcheon short material of choice, screws m.s. z.pl or stainless steel, with seal IP 65
Polyamide GF black				
for square, triangular Daimler Benz, slot	1121-U19-06	1121-U19-N6	1121-U133-06	1121-U22-06
for double bit	1121-U20-06	1121-U20-N6	1121-U134-06	1121-U23-06
for railway square 9	1121-U19A-06	–	1121-U135-06	1121-U22A-06
for FIAT	1121-U63-06	1121-U63-N6	1121-U132-06	1121-U62-06
AISI 316				
for square, triangular Daimler Benz, slot	–	–	1121-U133-6PH	1121-U22-6PH

Insert material of choice, fixing material m.s. zinc-plated or stainless steel

	Zinc die chrome-plated	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
Railway square 9	1121-U72	on request

Accessories



Transport safety device polyamide GF black
for insert double bit

1121-32

Escutcheon for quarter turn, Program 1000

PROGRAM 1125



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

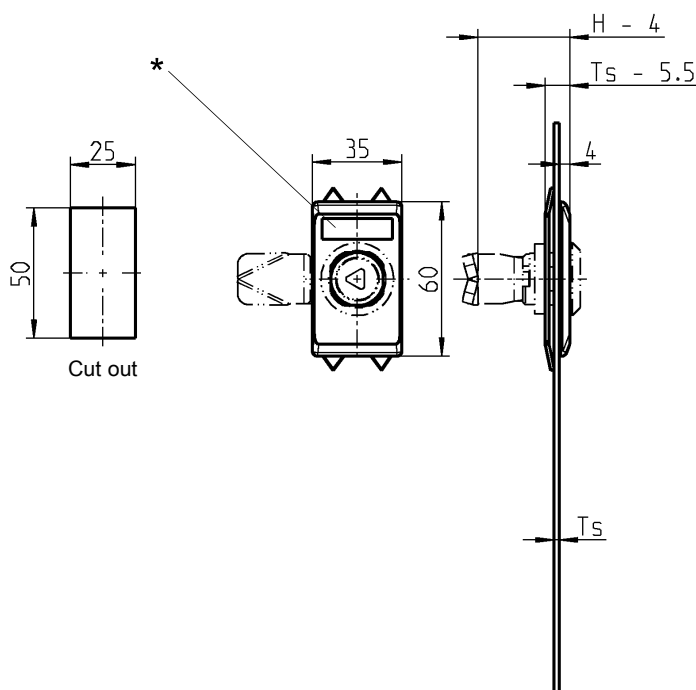
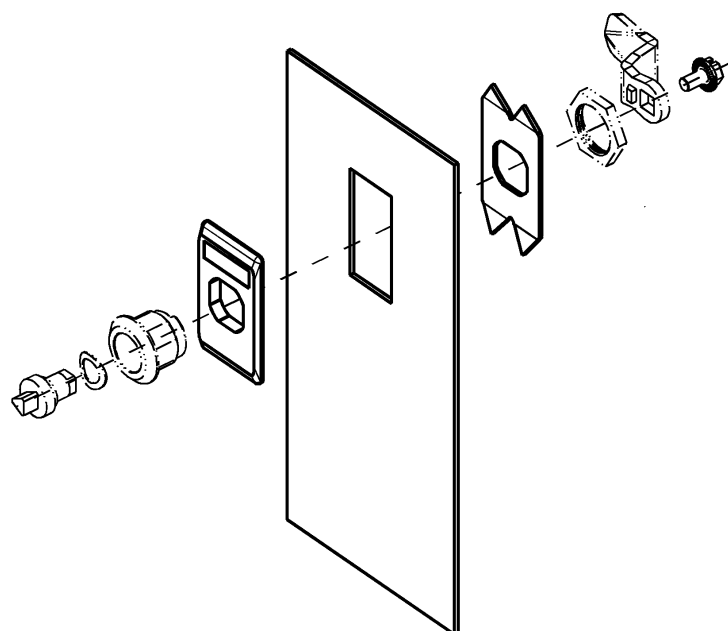
6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

Index



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

Attention:
Dimension H of the cam reduces by 4 mm, dimension Ts of the housings by 5.5 mm

Note:
IP 65 achieved by quarter turn with with protection class IP 65

Further parts see page
– Quarter turns

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

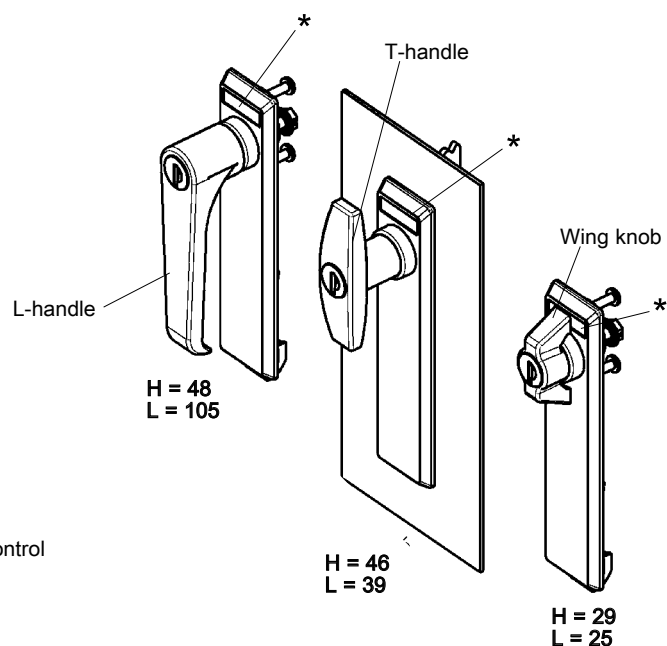
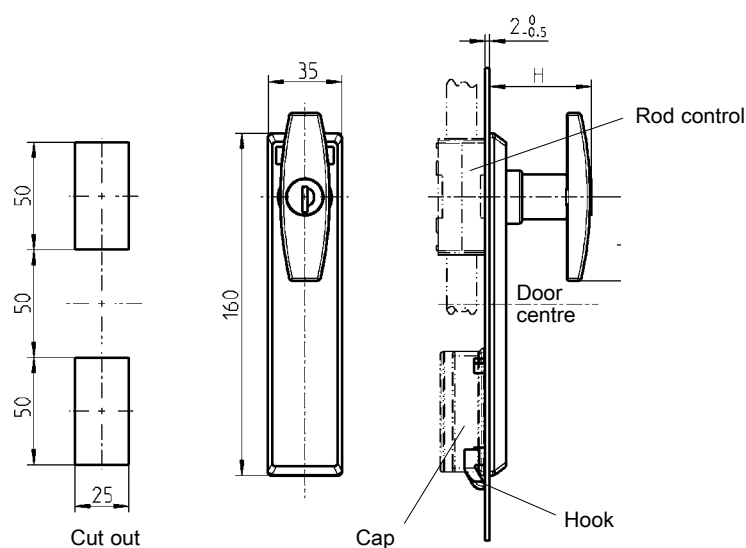
3B-140

(3A-145)

Escutcheon 1123 with handle

PROGRAM 1125

Escutcheon long

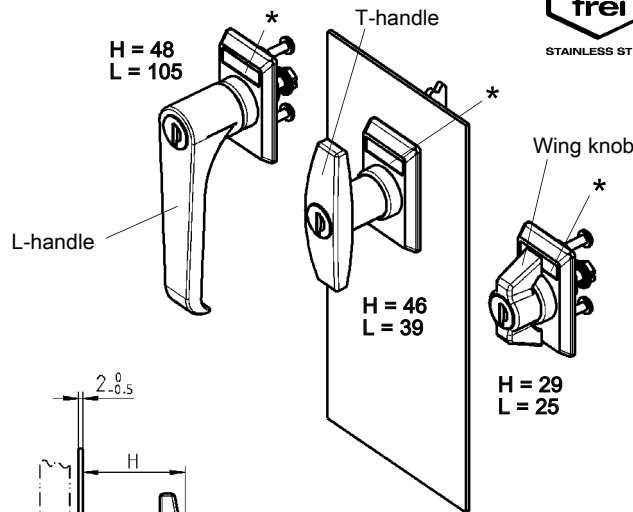
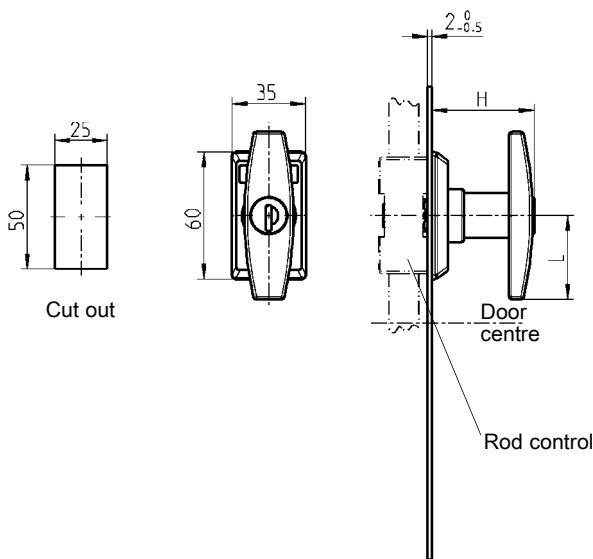


Each round cylinder has one silver steel key with grip polyamide GF black

Escutcheon long polyamide GF black, fixing material m.s. zinc-pl. or stainless steel, with seal

	Hook IP 40	Clip-in cap IP 40	Screw-on cap IP 65
Wing knob zinc die black powder-coated			
non locking	1123-U1-06	1123-U1-N6	1123-U25-06
keyed EK 333	1123-U2-06	1123-U2-N6	1123-U26-06
keyed different	1123-U3-06	1123-U3-N6	1123-U27-06
Wing knob AISI 316			
non locking	1123-U41-06	1123-U41-N6	1123-U42-06
T-Handle zinc die black powder-coated			
non locking	1123-U7-06	1123-U7-N6	1123-U28-06
keyed EK 333	1123-U8-06	1123-U8-N6	1123-U29-06
keyed different	1123-U9-06	1123-U9-N6	1123-U30-06
prepared for KABA 1036	1123-U21-06	—	—
T-handle AISI 316			
non locking	1123-U38-06	1123-U38-N6	1123-U39-06
L-handle zinc die black powder-coated			
non locking	1123-U13-06	1123-U13-N6	1123-U31-06
keyed EK 333	1123-U14-06	1123-U14-N6	1123-U32-06
keyed different	1123-U15-06	1123-U15-N6	1123-U33-06
prepared for KABA 1036	1123-U19-06	—	—
L-handle AISI 316			
non locking	1123-U34-06	1123-U34-N6	1123-U35-06

Escutcheon short



Escutcheon 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-U4-06
keyed EK 333	1123-U5-06
keyed different	1123-U6-06

Wing knob AISI 316

non locking	1123-U40-06
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T-Handle zinc die black powder-coated

non locking	1123-U10-06
keyed EK 333	1123-U11-06
keyed different	1123-U12-06
prepared for KABA 1036	1123-U22-06

T-handle AISI 316

non locking	1123-U37-06
-------------	-------------

L-handle zinc die black powder-coated

non locking	1123-U16-06
keyed EK 333	1123-U17-06
keyed different	1123-U18-06
prepared for KABA 1036	1123-U20-06

L-handle AISI 316

non locking	1123-U36-06
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* Logo recess: 27 x 8 x 0.5
Multicolour pad print possible

Further parts see page

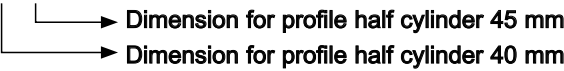
– Key	8B-120
– Spare key	8B-140
– Rod control for long version	3YA-110 3YA-120 3YA-140 (only with hook) 3YA-190
Short version	3YA-115 3YA-160
– Bearing bush	3YB-120
– Dust cap for T-handle	1C-340

Swinghandle

PROGRAM 1125

Example:

³⁾ (21/26 mm)



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

	Clip-in cap IP 40		Screw-on cap IP 65		Hook IP 40	
	with	without	with	without	with	without
	Cylinder cover		Cylinder cover		Cylinder cover	
for half cylinder 40 mm ³⁾ (21)	1125-U191-NA	1125-U190-NA	1125-U191-A	1125-U190-A	1125-U186-A	1125-U185-A
for hald 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 with 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 half cylinder 40 mm ³⁾ (21)	–	–	1125-U191-AQA	on request	–	–
Swinghandle for profile half cylinder AISI 316, shaft AISI 303, cap polyamide black, with seal (IP 66)						
for half cylinder 40 mm ³⁾ (21)	–	–	1125-U191-APH	on request	–	–

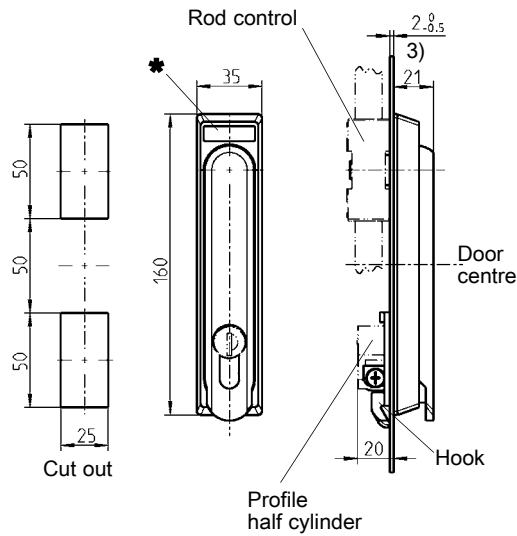
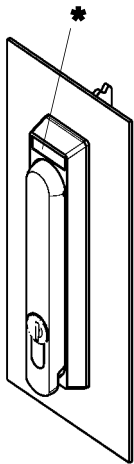
Swinghandle polyamide GF black with insert double bit,
zinc die chrome-plated, shaft zinc die zinc-plated, fixing material m.s. zinc-plated, with seal

	Clip-in 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

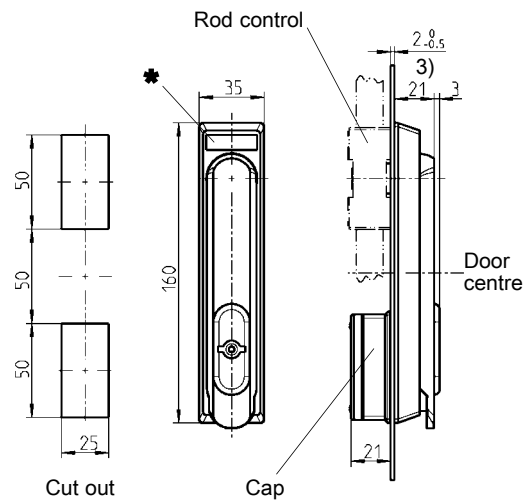
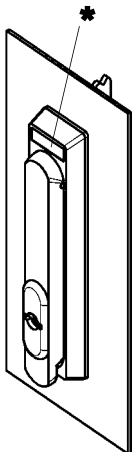
Swinghandle polyamide GF black,
with round cylinder incl. stainless steel cap and dust cap or insert m.s. zinc-plated,
shaft zinc die chrome-plated, fixing material m.s. zinc plated, with seal.
Each round cylinder has one silver steel key with grip polyamide GF black

	Clip-in cap IP 40		Screw-on cap IP 65		Hook IP 40
	with	without	with	without	without
	Cylinder cover		Cylinder cover		Cylinder cover
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 SW 10	1125-U251-NA	1125-U219-NA	1125-U251-A	1125-U219-A	on request
Square female 6	1125-U252-NA	1125-U220-NA	1125-U252-A	1125-U220-A	on request
Square female 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 half-round	1125-U282-NA	1125-U283-NA	1125-U282-A	1125-U283-A	on request

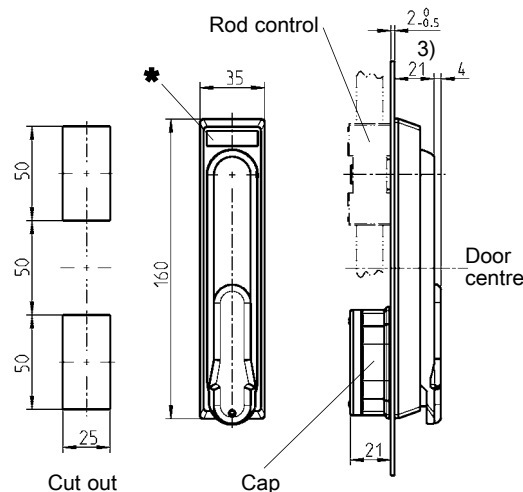
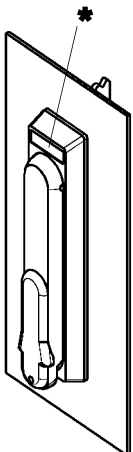
Swinghandle for profile half cylinder



Swinghandle with double bit



Swinghandle with round cylinder or insert



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

Further parts see page

- Key 8B-120
- Rod control 3YA-110
- 3YA-120
- 3YA-140
- (only with hook) 3YA-190
- Bearing bush 3YB-120
- Profile half cylinder 3XB-120

On request insert in

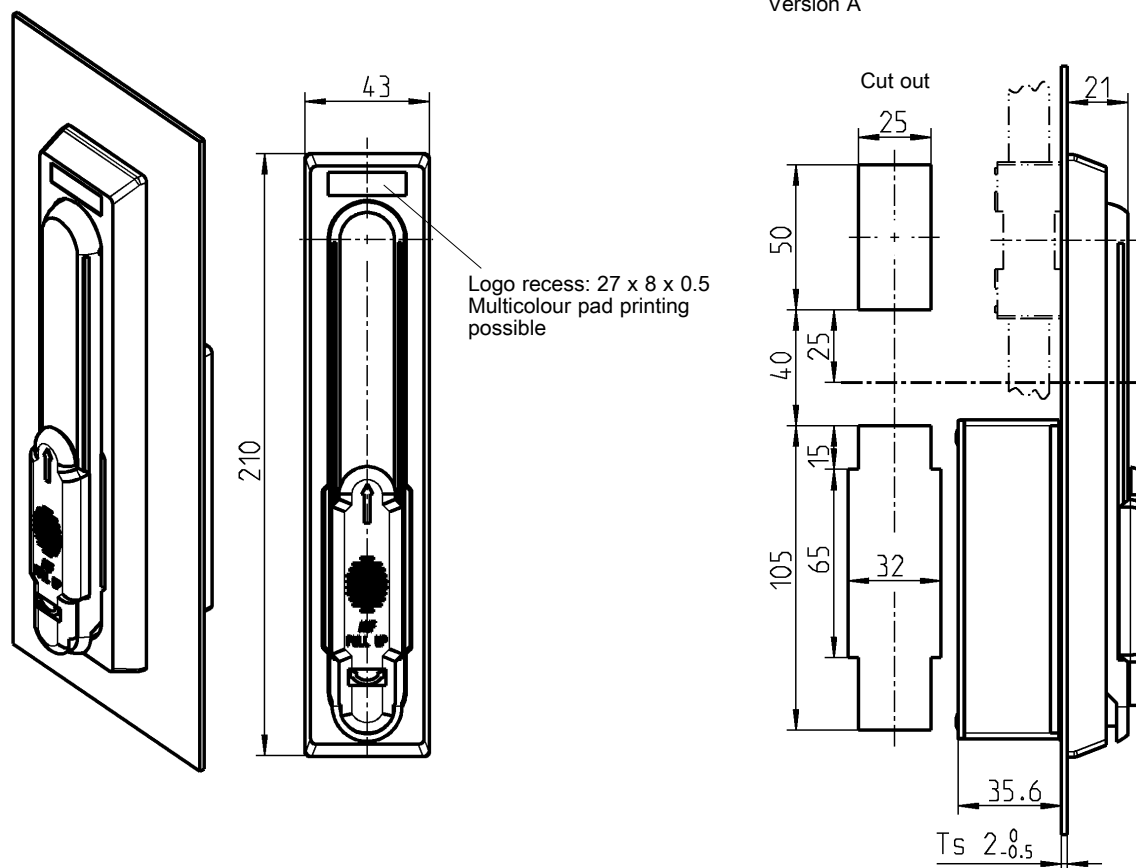
- ¹⁾ Zinc die black powder-coated
- ²⁾ Polyamide black
- Cap without foamed seal for small bending area on request
- EMC version

Swinghandle

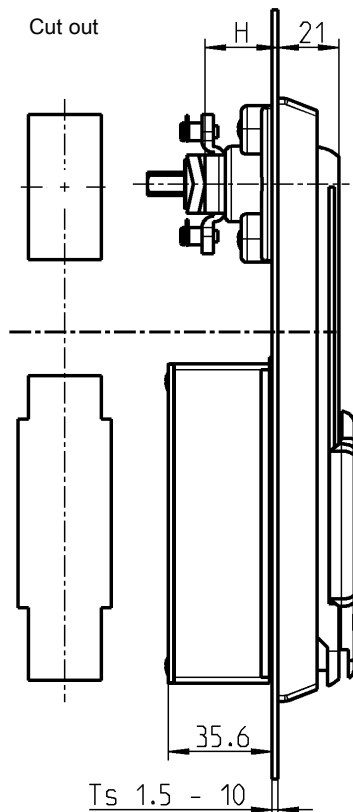
PROGRAM 1125

Double and single profile half cylinder swinghandle

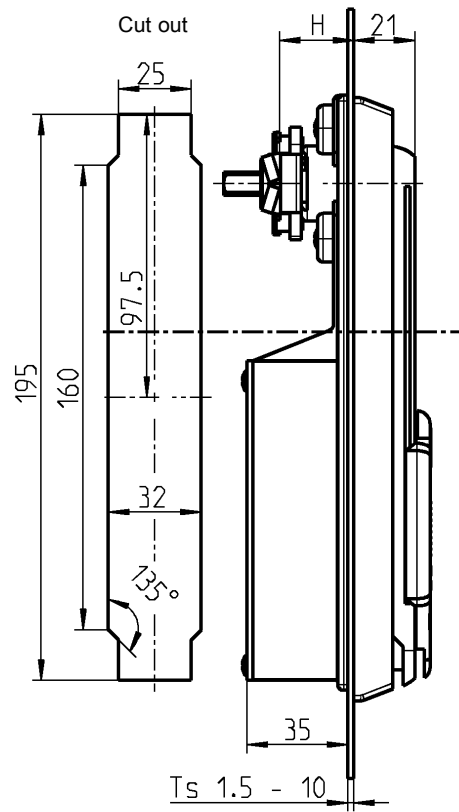
Version A

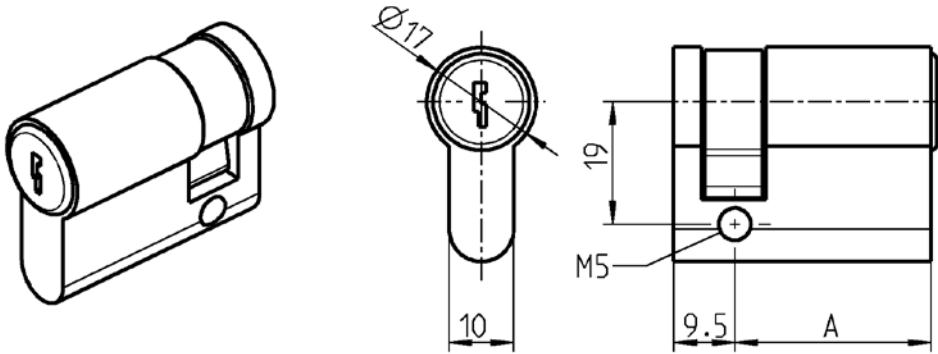


Version B

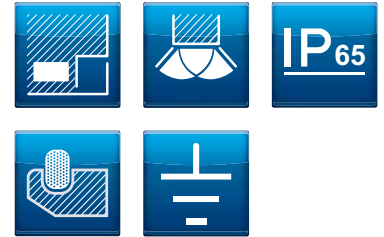


Version C





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



Earthing possible with version A!



Swinghandle for profile half cylinder polyamide GF black, shaft brass, lock zinc die, spring spring steel 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

1-key operation

Handle can be opened when one cylinder is unlocked. Removability of the key according to choice of the version.

2-key operation

The handle can only be opened when both cylinders are unlocked. The keys are only removable when the handle is put in.

The 2-key operation is set as 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 for cam for version B	3YC-180
– Cam for version C (H = 25 for Ts = 2)	3YC-140
– Profile half cylinder	3XB-220



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:
Swinghandle for CNOMO can only be used outside the sealing!

Further parts see page

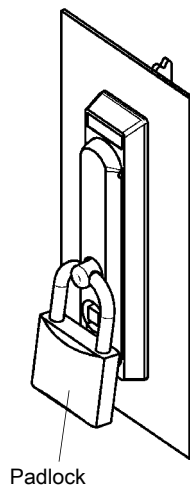
- Rod control 3YA-110
- 3YA-120
- Profile half cylinder 3XB-120

3B-420 11/15

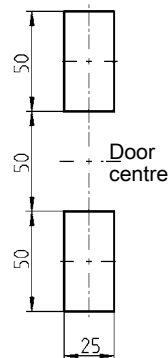
(3J-260)

Swinghandle PROGRAM 1125

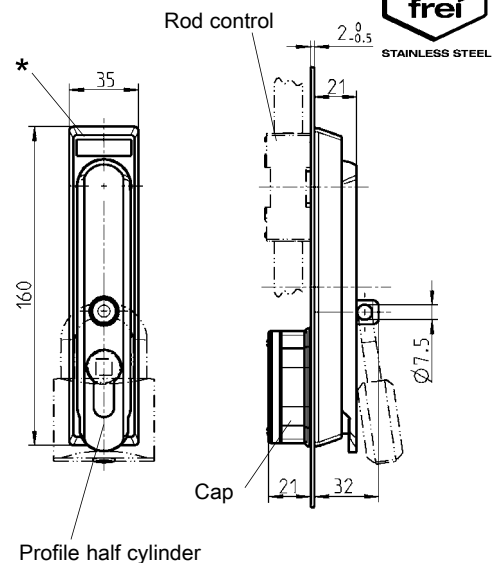
Swinghandle for padlock



Padlock



Cut out



Profile half cylinder

Swinghandle for profile half cylinder 40 mm polyamide GF black; shaft zinc die zinc-plated; padlock shackle AISI 303; fixing material m.s. zinc-plated; with seal

1125-U184-A

Swinghandle for profile half cylinder 40 mm AISI 316; shaft and padlock shackle AISI 303; cap polyamide black, with seal

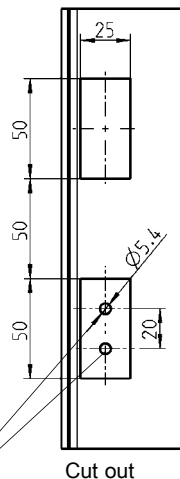
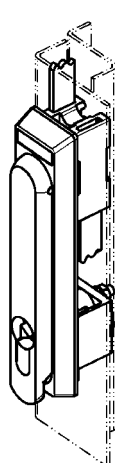
1125-U184-APH

Version Ford achieved with

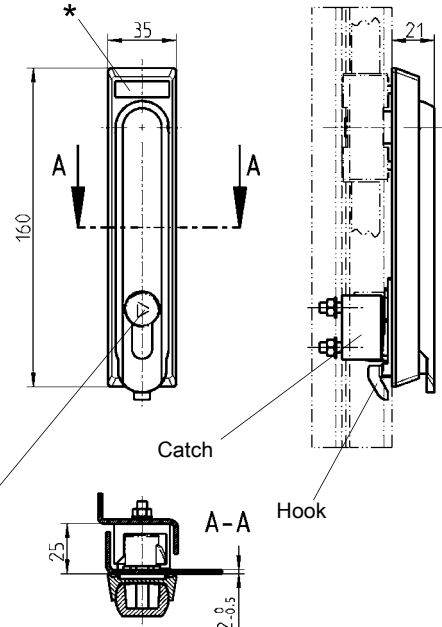
Profile half cylinder (square 7)

1109-U5-N

Swinghandle for CNOMO



Cut out



Catch

Hook

Bore holes symmetrical to cut out of swinghandle

CNOMO standard type 1
realised by snap cylinder
(triangular 6.5) 1109-U17-NC

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

Swinghandle for profile half cylinder 40 mm polyamide GF black; catch and shaft zinc die zinc-plated; fixing m.s. zinc-plated

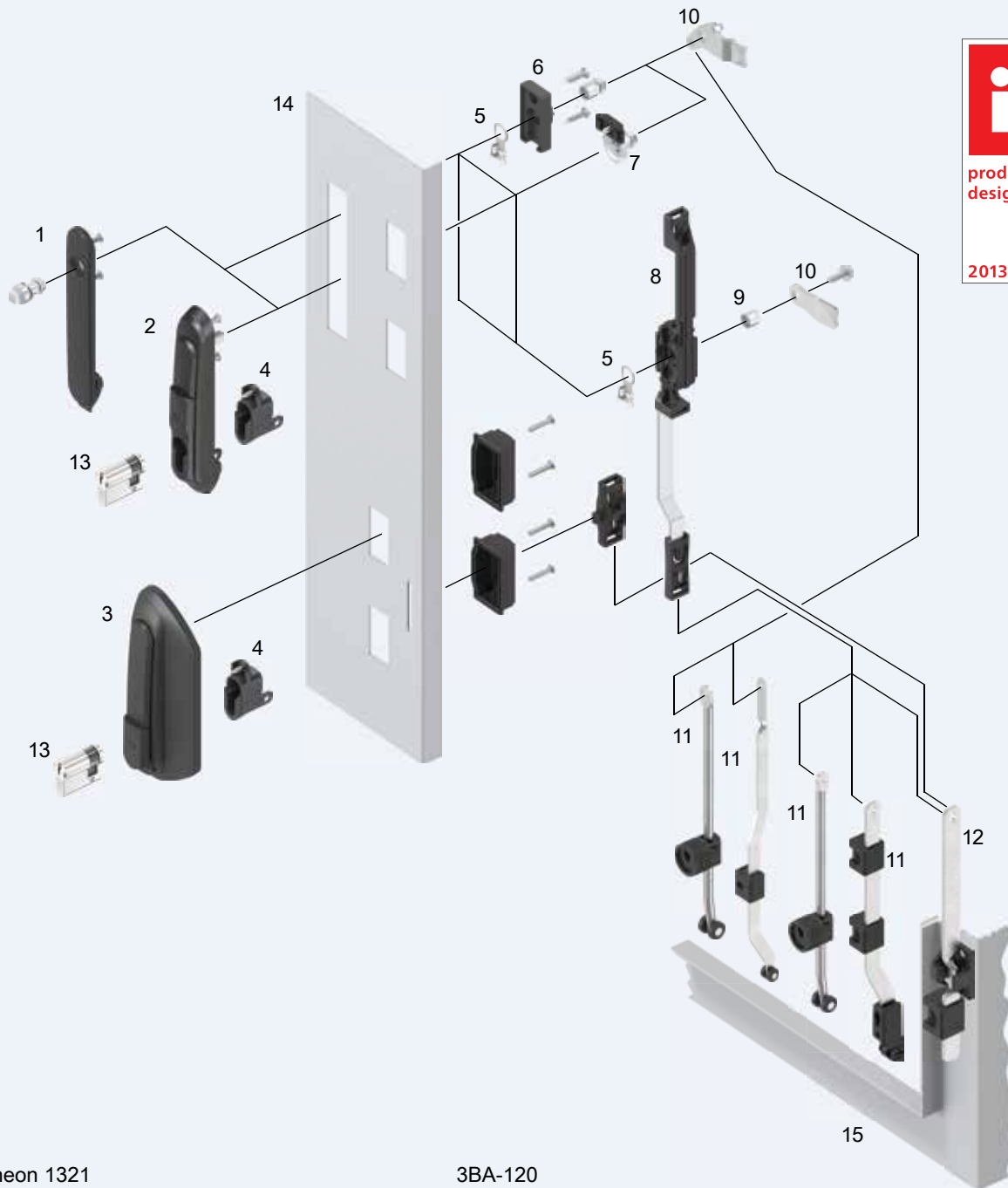
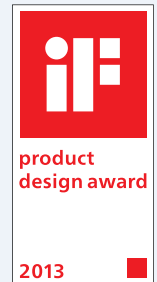
without cylinder cover

1125-U200-A

with cylinder cover

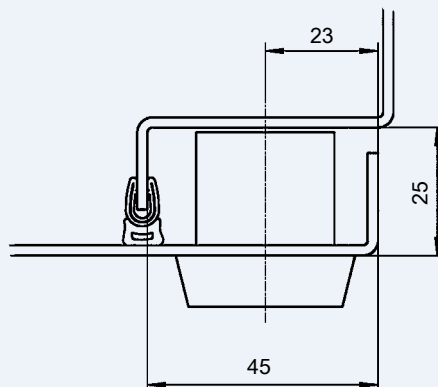
1125-U201-A

Swinghandle and Escutcheon Program 1325



- 1 Escutcheon 1321
- 2 Swinghandle
- 3 Swinghandle for narrow bending area
- 4 Locking set
- 5 Grounding device
- 6 Bearing bush for escutcheon
- 7 Adapter for swinghandle
- 8 Rod control
- 9 Adapter
- 10 Cam
- 11 Rod (inside the sealing)
- 12 Rod (outside the sealing)
- 13 Locking set, e.g. profile half cylinder
- 14 Door
- 15 Housing / Frame

3BA-120
3BA-220
3BA-320

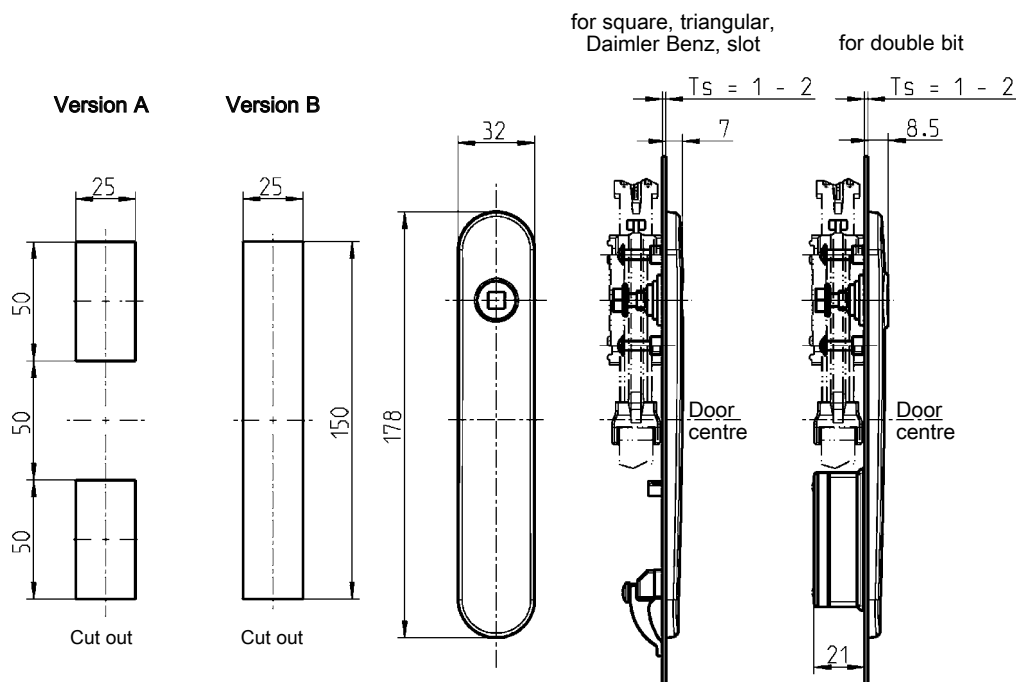


3BA-100

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
Index

Escutcheon 1321

PROGRAM 1325



Examples of combinations

Escutcheon polyamide GF black;
hook or cap polyamide GF black; screws 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 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
Railway square 9		1121-U72

Multicolour pad printing
possible

Further parts see page

- Key 8B-120
- Rod control 3YA-110
- 3YA-120
- 3YA-140
- (only with hook and cut out
version A) 3YA-190
- Bearing bush 3YB-120

Accessories

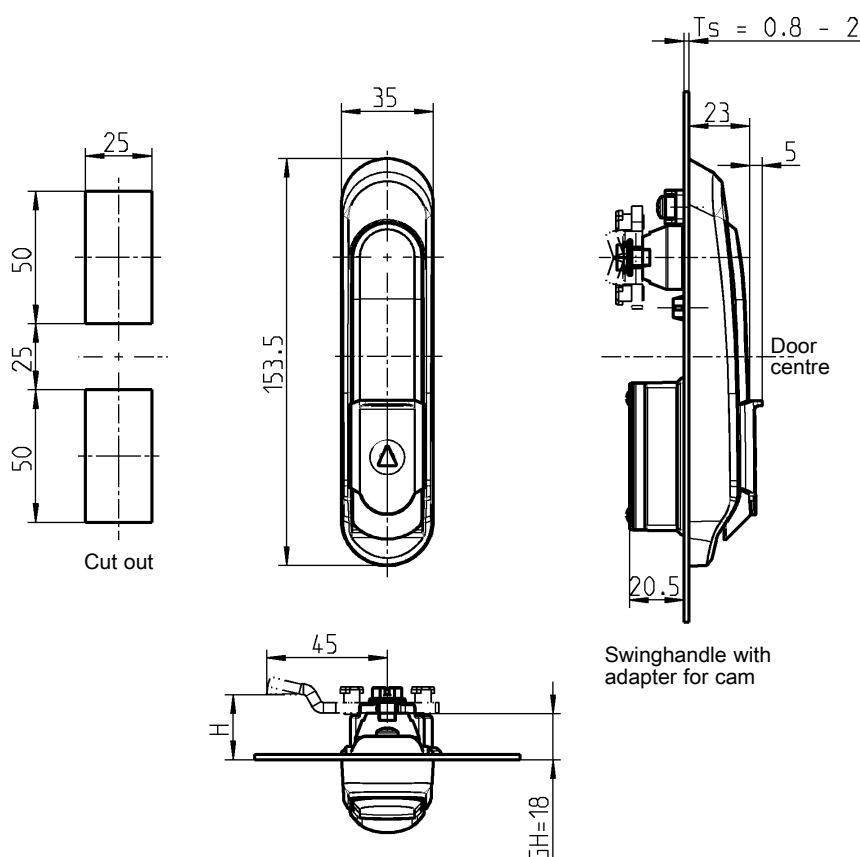


Transport safety device polyamide GF black
for insert double bit

1121-32

Swinghandle short with variable use of locking sets

PROGRAM 1325



Product benefits

- Flat design (23 mm + 5 mm dust protection slider)
- Pre-assembled swinghandle and dish
- Easy exchangeable locking unit inserts (locking sets)
- Spring-mounted handle
- Plastic parts protruding into the cabinet are of low flammability (PA 6 GF 30 V0)
- Patented

Adapter for cam 1325-U101, order separately

Rod control on request

Swinghandle
handle and escutcheon polyamide GF black;
cylinder cover polyamide GF black; shaft zinc die zinc plated;
circlip m.s. zinc plated; cap polyamide GF black;
fixing material m.s. zinc plated;
with spring and seal

(Please order locking set separately)

Swinghandle with cap; IP 65

Adapter for cam PBT GF V0 black; bridge bar polyamide GF V0 black;
fixing material m.s. zinc-plated

without locking set

1325-U22

1325-U101

Multicolour pad printing possible

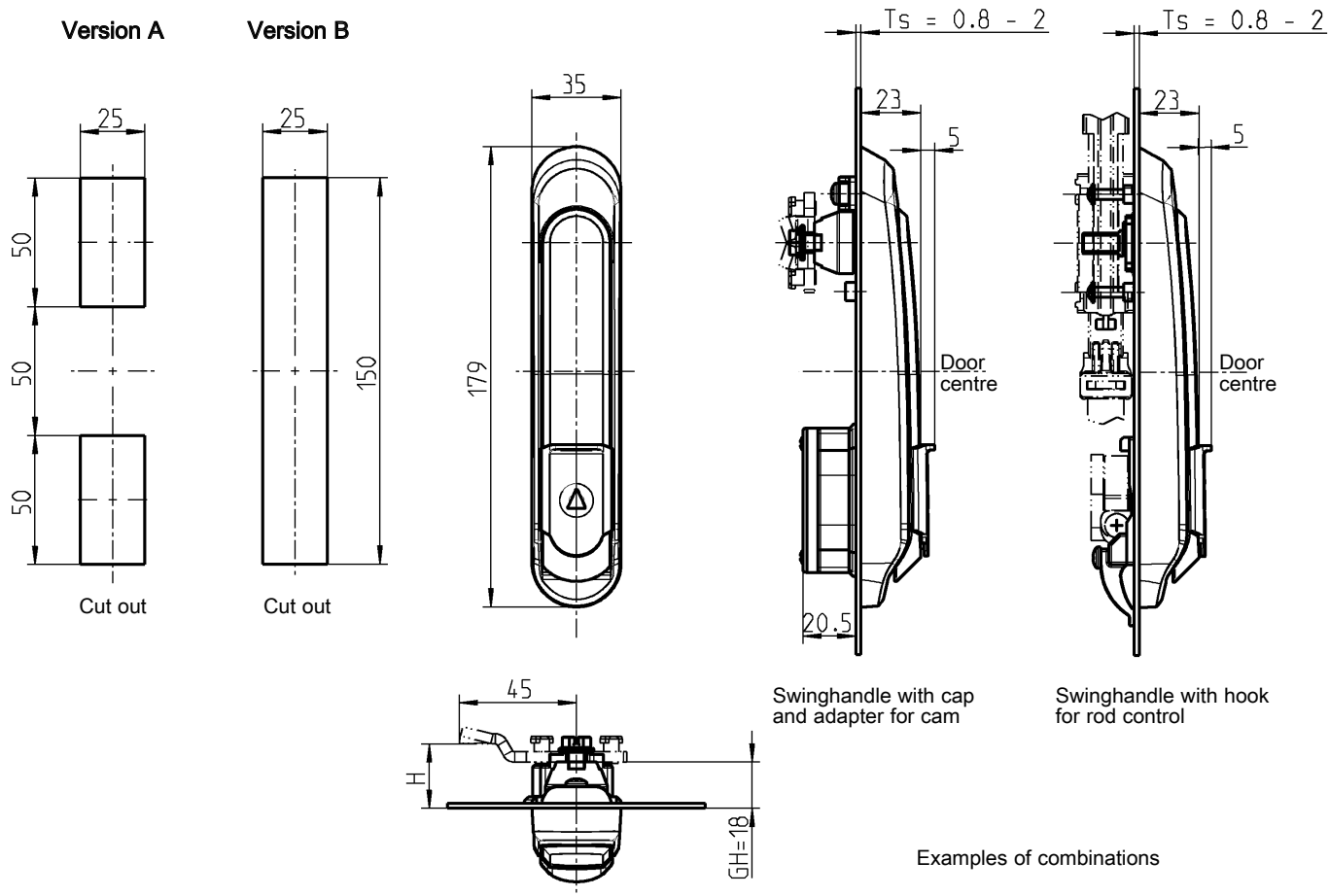
Swinghandle without cylinder cover on request

Further parts see page

- Locking set 3XC-120
- Cams (for adapter) 3YC-120
- Rod control on request
- Cam for rod control (2-point latch system) 3YA-840

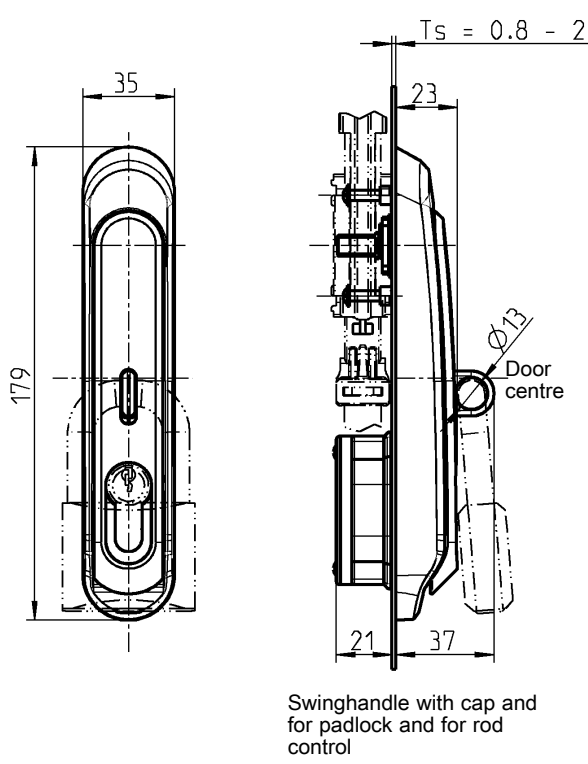
Swinghandle with variable use of locking sets

PROGRAM 1325



Examples of combinations

Adapter for cam 1325-U101, order separately



Module for different locking sets



Product benefits

- Flat design (23 mm + 5 mm dust protection slider)
- IP 65 when fixed with cap, IP 40 when fixed with hook
- For standard cut out
- Pre-assembled swinghandle and dish
- Easy exchangeable locking unit inserts (locking sets)
- Spring-mounted handle
- Plastic parts protruding into the cabinet are of low flammability (PA 6 GF 30 V0)
- Patented

Swinghandle for rod control
handle and dish polyamide GF black;
cylinder cover polyamide GF black (not for swinghandle for padlock);
shaft zinc die zinc-plated; circlip m.s. zinc-plated;
hook or cap polyamide GF black; padlock device AISI 316;
fixing material m.s. zinc-plated; with spring and seal

⁽¹⁾ (Please order locking set separately)

⁽²⁾ (with cut out version A)

⁽³⁾ (In case of profile half cylinder the locking cam must be set to 90°)

	without locking set ⁽¹⁾	with locking set for profile half cylinder 40 mm (A = 30 mm) ⁽³⁾
Swinghandle with hook; IP 40	1325-U1	1325-U1-01
Swinghandle with cap; IP 65 ⁽²⁾	1325-U2	1325-U2-01
Swinghandle with hook and for padlock; IP 40	1325-U3	1325-U3-01
Swinghandle 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 printing
possible

Swinghandle without
cylinder cover on request

Further parts see page

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

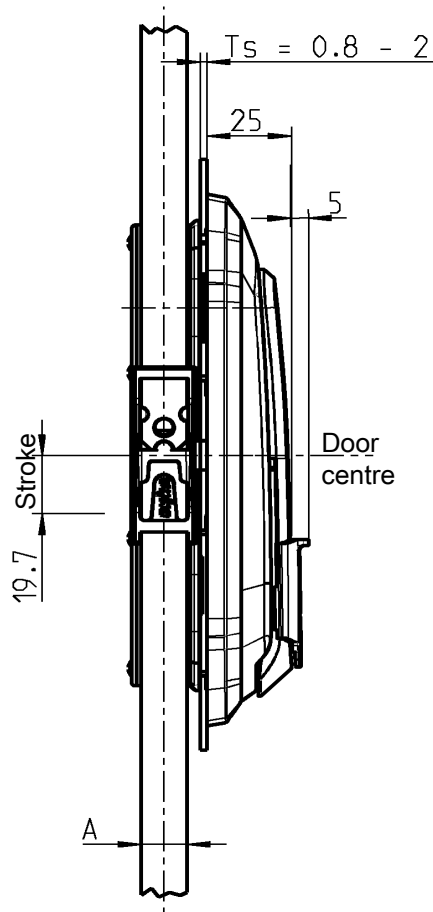
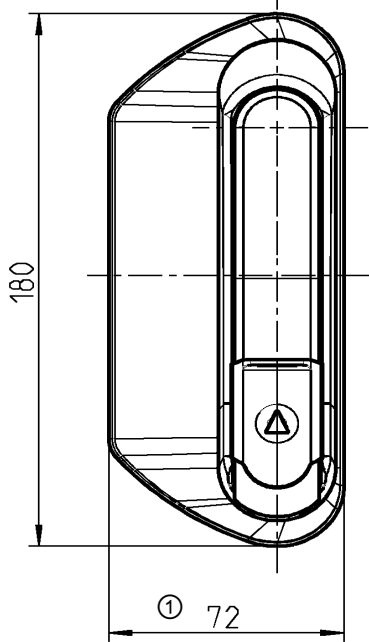
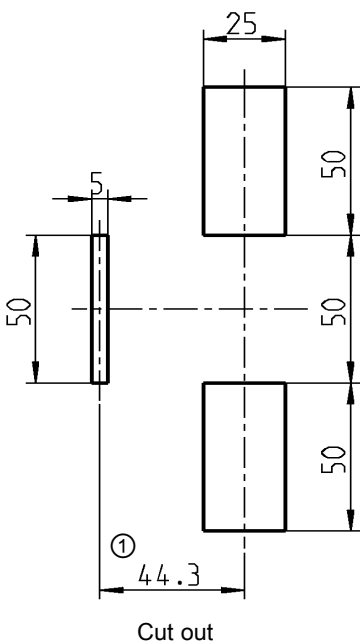
– Locking set 3XC-120
– Cams (for adapter) 3YC-120
– Rod control 3YA-110

3YA-120
3YA-140
(only with hook and cut out ver-
sion A) 3YA-190

– Cam for rod control
(3-point latch system) 3YA-840

Swinghandle with variable use of locking sets for small bending area

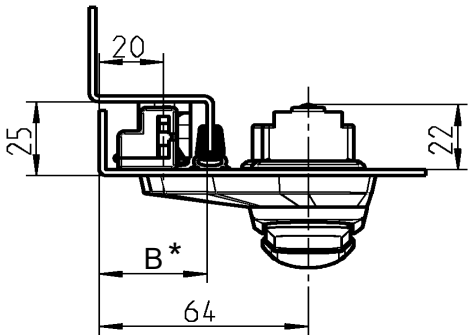
PROGRAM 1325



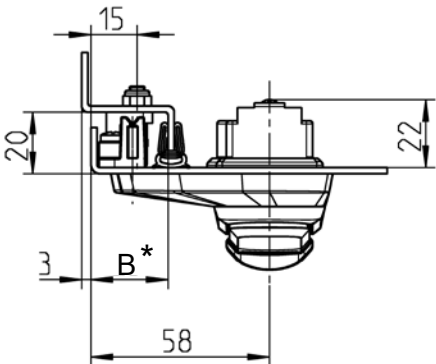
Rod movement is unidirectional

Product benefits

- Innovative award-winning design
- Ergonomic surface feel
- Variable locking options
- Quick assembly and simple right-left change
- Integrated scratch protection prevents surface damage (handle / dish)
- Rattle-free rod connection by patented clip-in connection
- Allows small bending area 33 x 25 mm or 37 x 25 mm for more usable clearance



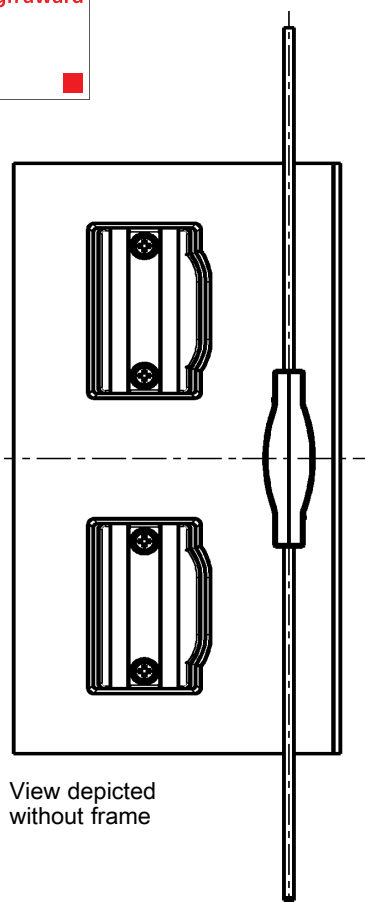
Example of an installation location



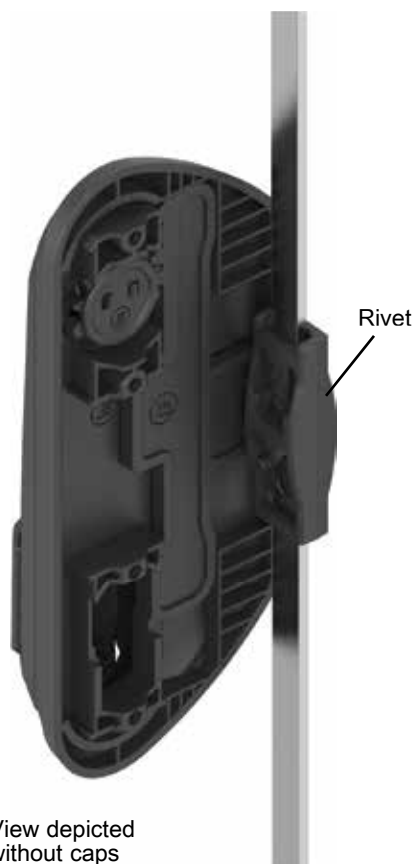
Dimension A	Flat rod 14x3	
Locking type (see right)	Dimension B	
	without seal	with seal
1	30	33
2	30	33
3	34	37

Dimension A	Flat rod 10x3	
Locking type (see right)	Dimension B	
	without seal	with seal
4	22	25

* The values in the table for dimension B with seal refer to the seal 1011-10. With other seals, the values for dimension B differ.



View depicted
without frame



View depicted
without caps



Locking types



1

Rod with
cut out



2

Rod with
single roller



3

Rod with
double roller



4

Rod with
single roller

Module for
different locking sets
(see catalogue page 3BA-220)

① = Articles in other dimensions
on request

Catch and hinge have the same
fixing points

Multicolour pad printing
possible

Further parts see page

– Locking set	3XC-120
– Rod controls	
door return 25	3ZA-600
– Door return 20	3ZA-605

**Hinge suitable for
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

Swinghandle, rivet and caps polyamide GF 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 lock set separately)

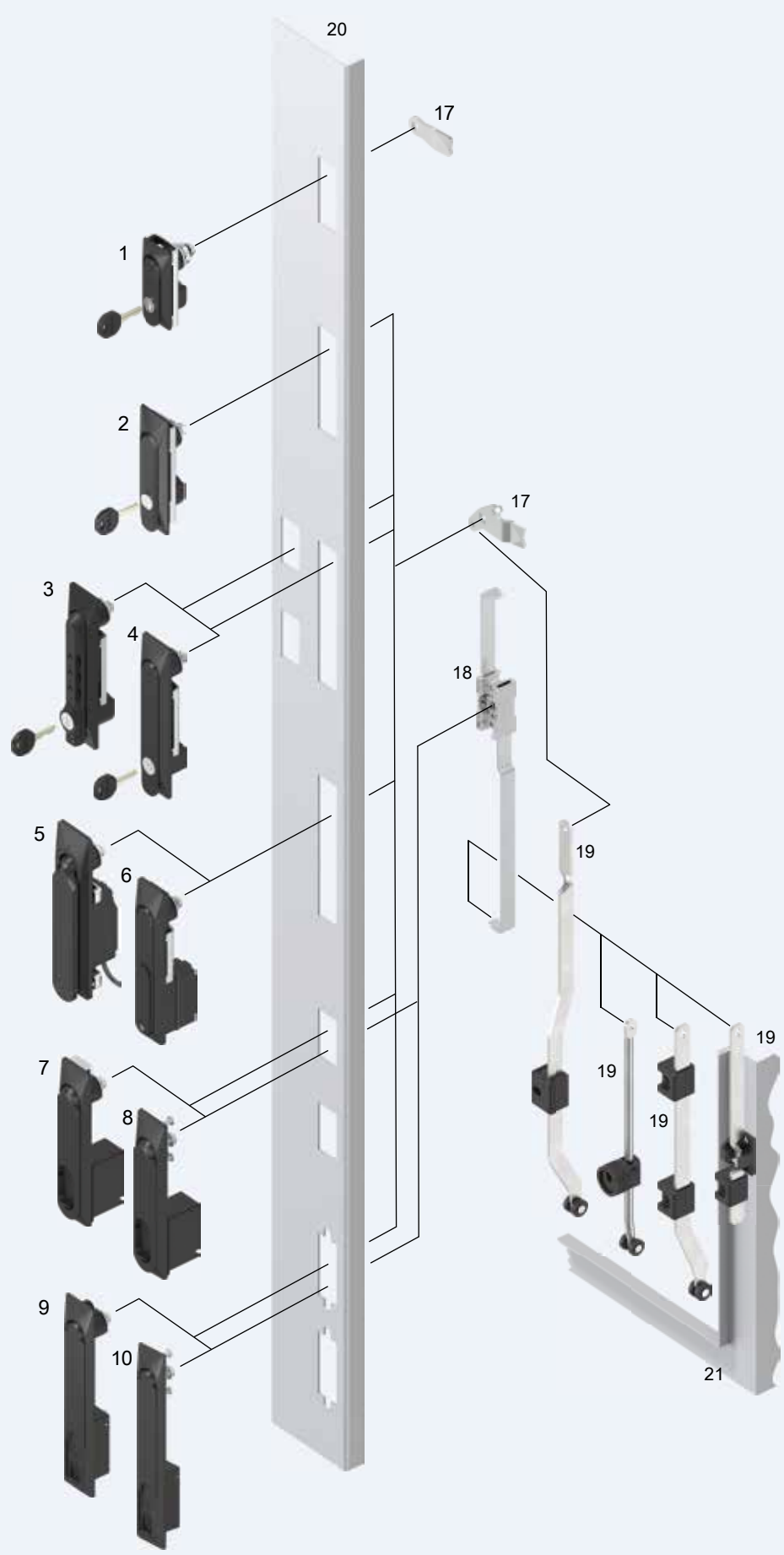
for flat rod 14x3; door return 25

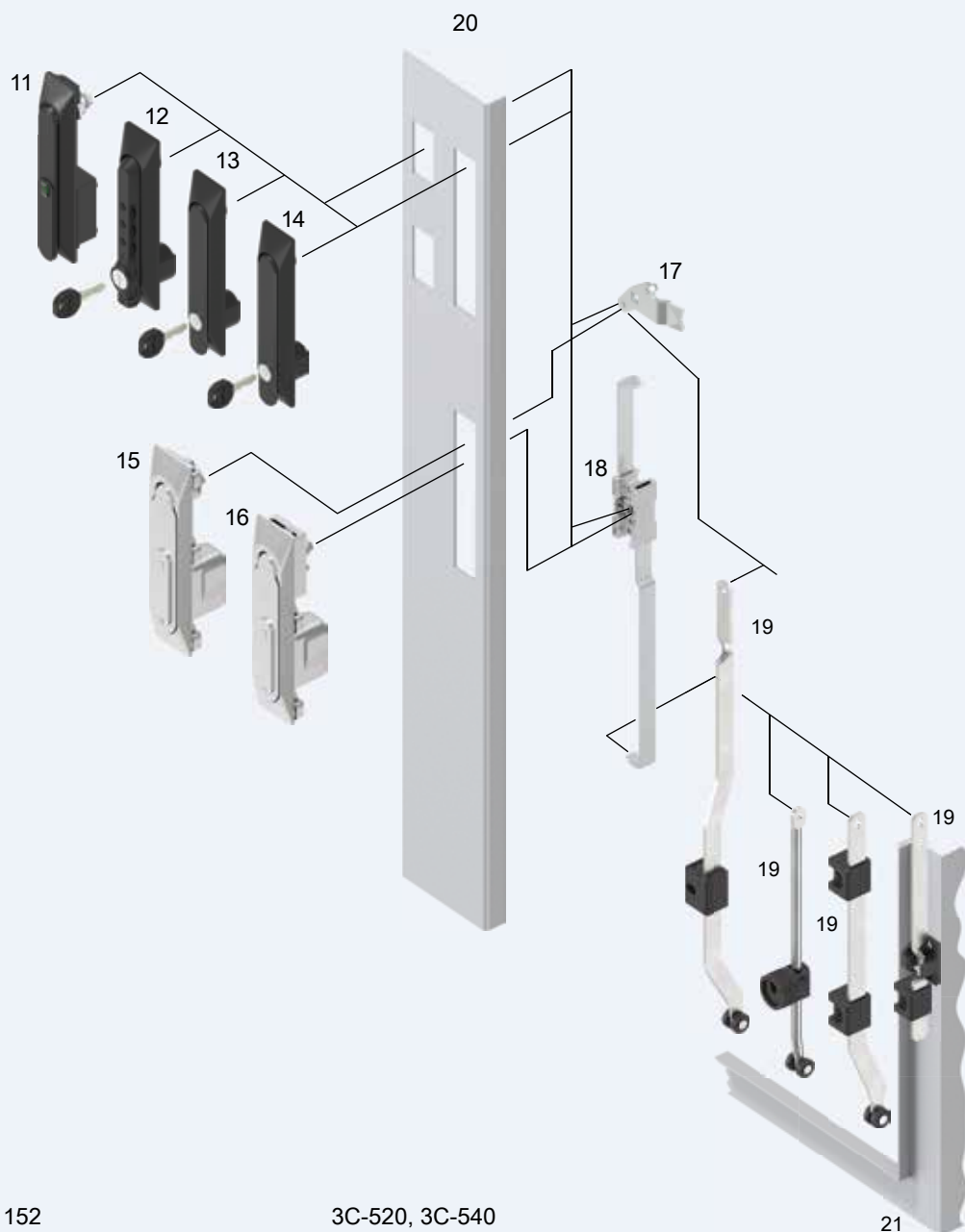
1325-U201

for flat rod 10x3; door return 20

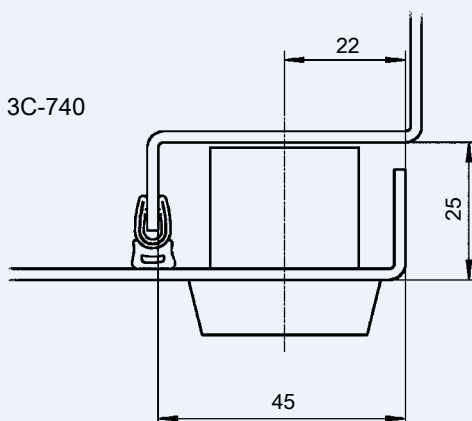
1325-U202

Swinghandle Program 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, electromechanically | 3C-160 |
| 12 | Swinghandle 1155 with universal escutcheon | 3C-750 |
| 13 | Swinghandle 1150 with universal dish and 'Push to Lock' function | 3C-740 |
| 14 | Swinghandle 1150 with universal dish | 3C-720 to 3C-740 |
| 15 | Swinghandle 1154 with RC2 for cam | 3C-260 |
| 16 | Swinghandle 1154 with RC2 for rod control | 3C-260 |
| 17 | Cam | |
| 18 | Rod control | |
| 19 | Rod | |
| 20 | Door | |
| 21 | Housing / Frame | |



3C-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

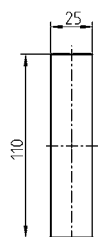
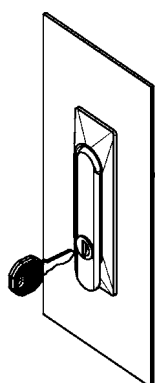
9 Special catalogues

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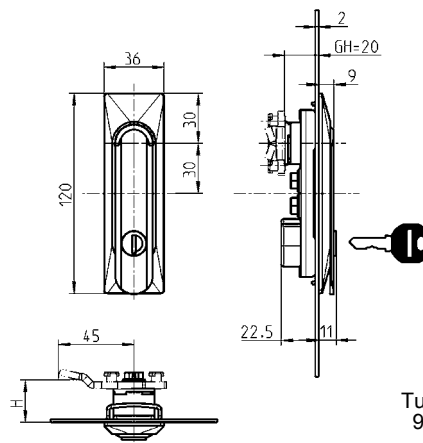
Swinghandle 1150

PROGRAM 1150

Version A (small)

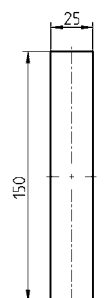
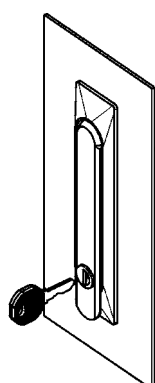


Cut out

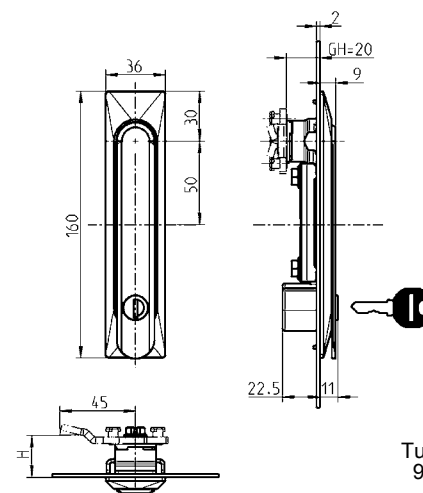


Turn = Stroke
90° = 26 mm

Version B (normal)



Cut out



Turn = Stroke
90° = 26 mm

* EMC version 1150U2-E

Swinghandle zinc die black powder-coated, round cylinder with stainless steel cap and shutter, fixing material m.s. zinc-pl., shaft zinc die zinc-pl., with seal, swinghandle is earthed

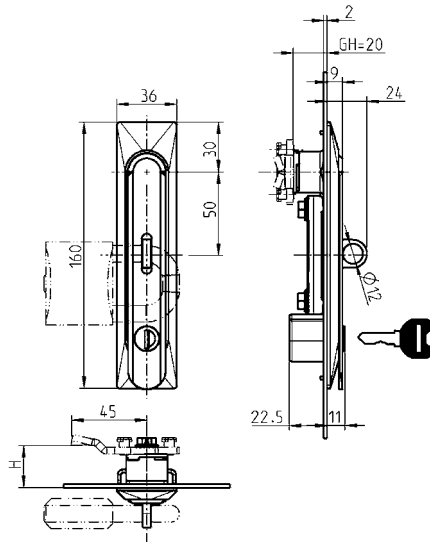
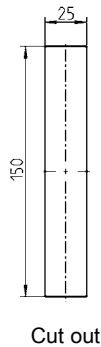
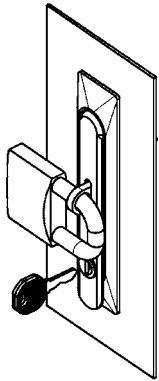
Swinghandle polyamide GF black, round cylinder with stainless steel cap and shutter, fixing material m.s. zinc-pl., shaft zinc die zinc-pl., with seal

Swinghandle zinc die black powder coated and dish polyamide GF black, round cylinder with stainless steel cap and dust cap, fixing material m.s. zinc-pl., shaft zinc die zinc-pl., 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-plated						
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 female SW 8 with pin	1150-U29	1150-U18	1150-U29-02	1150-U18-02	1150-U29-03	1150-U18-03
Hexagon male SW 11	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



Version B for padlock



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

Swinghandle 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, swinghandle earthed

Version B for padlock

keyed EK 333	1150-U2-01
keyed different	1150-U4-01

Insert zinc die chrome-plated

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 female SW 8 with pin	1150-U18-01
Hexagon male SW 11	1150-U19-01
Push button	1150-U55-01

Further parts see page

- Key 8B-120
- Spare key 8B-140
- Cam (GH = 20) 3YC-140

On request:

- Handle blind (without locking system)

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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Swinghandle* 1150

PROGRAM 1150



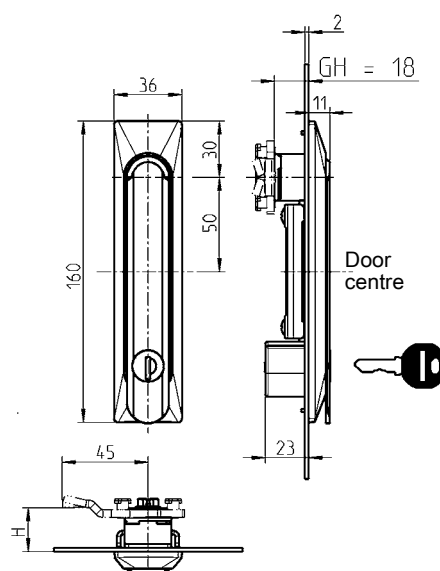
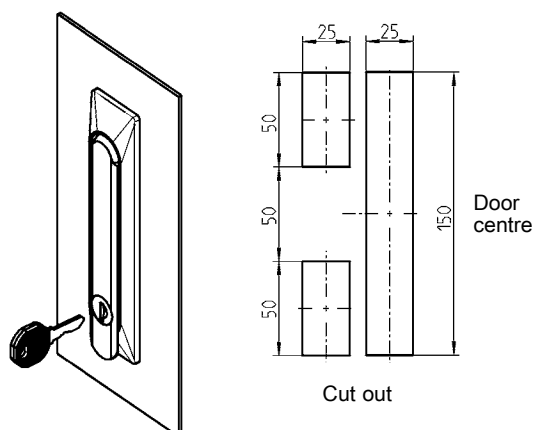
* can be used for
cut out of 1125/1225

Further parts see page

- Key 8B-120
- Spare key 8B-140
- Cams (GH = 18) 3YC-120

On request:

- Key of round cylinder not removable in open position
- Other inserts



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

keyed EK 333	1150-U33-03
keyed different	1150-U34-03

Insert zinc die chrome-plated

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 SW 8 with pin	1150-U45-03
Hexagon male SW 11	1150-U46-03

3C-140

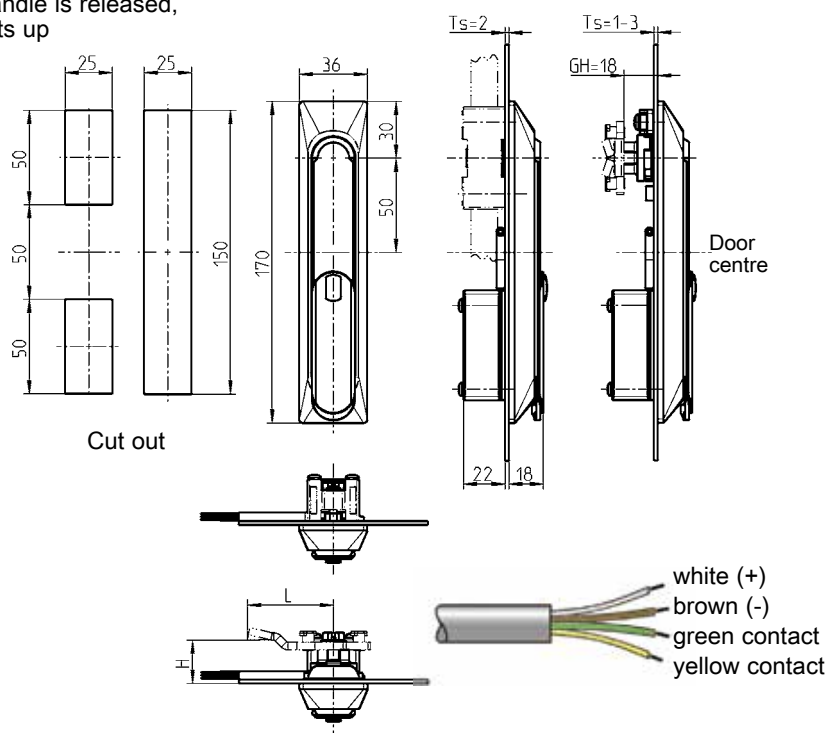
(3F-121)

PROGRAM 1150

When the handle is released, the LED lights up

Cylinder cover

$Ts=2$ $Ts=1-3$



Contact switching power: 48 VDC, 0.5 A

	keyed EK 333	keyed different
Solenoid 12 V, for rod control or cam	1150-U56	1150-U56-V
Solenoid 24 V, for rod control or cam	1150-U56-01	1150-U56-01V
Cylinder cover Bio-Flex black (spare part)		
		1150-B33



Note:
This handle can be connected to the modules 3000-U32-02 and 3000-U47-02 or 3000-U47-07.

- Cams (GH = 18) 3YC-120
- Rod control 3YA-110
- 3YA-120
- 3YA-140
- Spare key 8B-140

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
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Swinghandle 1154 with RC2 PROGRAM 1150



Resistance class:

RC2 DIN EN 1630, is achieved with the 1154-U2 swinghandle with profile half cylinder according to DIN EN 18252-BZ or DIN EN 1303 with resistance class 2 with drilling and pulling protection.

The profile half cylinder should be certified and monitored by PIV CERT or alternatively by a certifying body according to DIN EN ISO/IEC 17065.

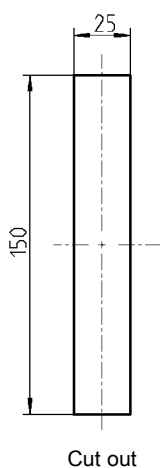


②

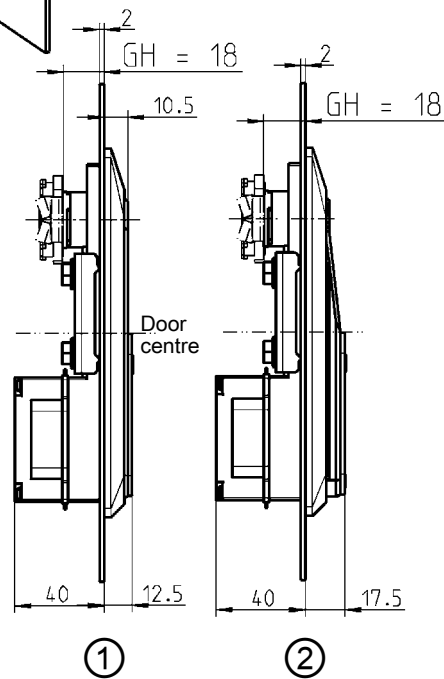
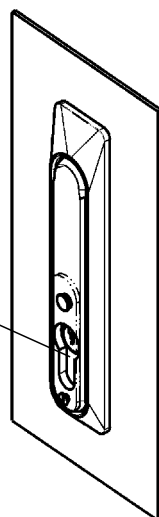
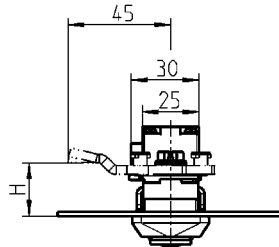
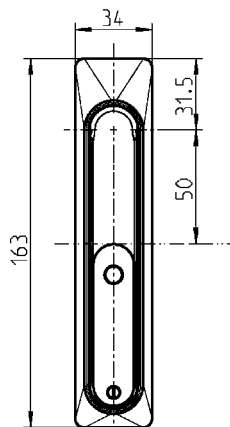


①

Profile half cylinder
is recessed by 3
mm



Cut out



Turn = Stroke
90° = 26 mm

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

Further parts see page

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

Swinghandle zinc die black powder-coated, cap polyamide black,
shaft zinc die zinc-plated, fixing material m.s. zinc-plated, with seal

① for profile half cylinder 40

1154-U1

② for profile half cylinder 45

1154-U3

Swinghandle AISI 316, shaft AISI 303, cap polyamide black,
fixing material stainless steel, with seal

① for profile half cylinder 40; with RC2

1154-U2

Swinghandle 1154 with electromechanical release and emergency opening

PROGRAM 1150

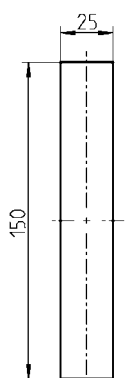
This handle is suitable for locking outdoor cabinets.

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.

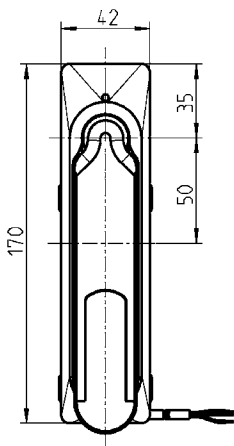
The integrated Reed contact is used for remote monitoring of the handle status. To lock the handle it must be pressed into the dish until the locking mechanism engages. The provided key is used to open the handle in case of power failure. To open the cylinder cover, the screw M3 has to be removed. Unlocking by means of round / pin cylinder is possible then.



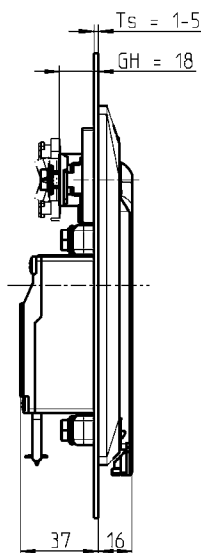
Round cylinder EK



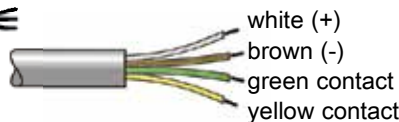
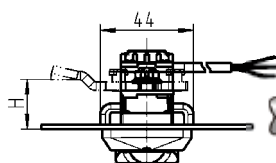
Cut out



Two countersunk screws M3 included in scope of delivery. Cross recess and hexagon female SW 2 with pin.



H-dimension starting at 33 mm



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

Contact switching power: 48 VDC, 0.5 A

	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



When the handle is released, the LED lights up.



Max. power-on time: 1 minute



Further parts see page

– Cam (stroke 26)
H-dimension starting at 33 mm
3YC-120

– Rod on request

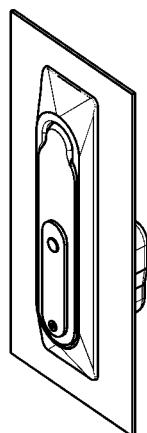
– Spare key EK 8B-140

Info	
1 Quarter turns	Beschlagteile
2 Rod controls	
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
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Stainless steel swinghandle 1154 with RC2

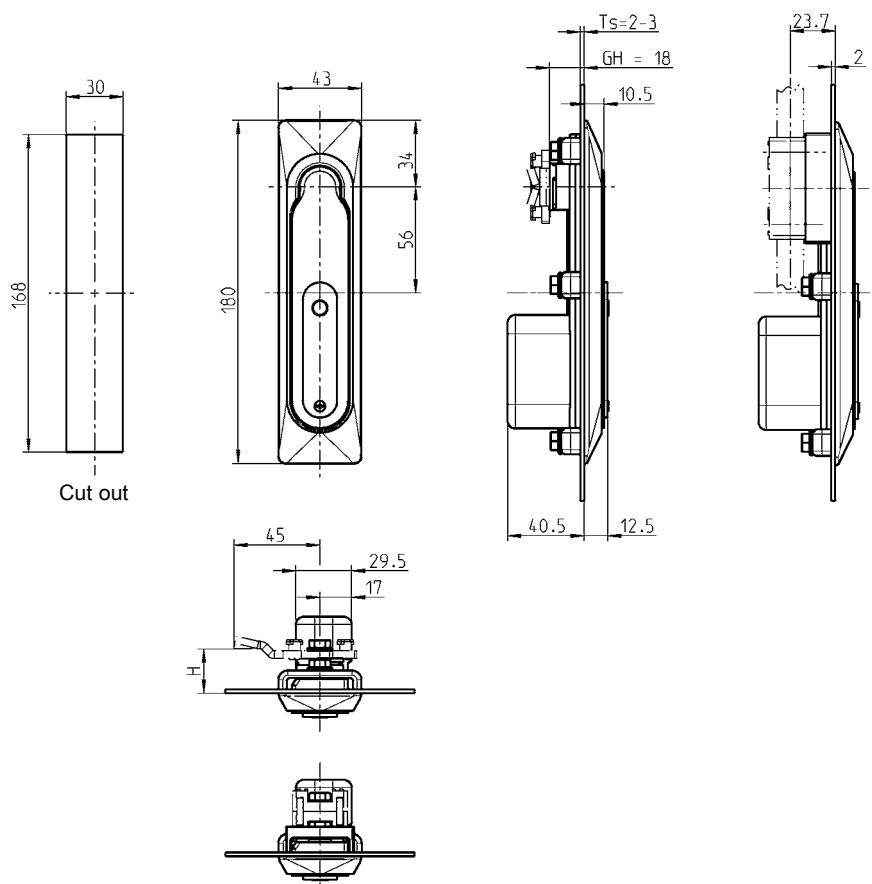
PROGRAM 1150

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



PIV certificate 20-15/07

The swinghandle has successfully passed the test according to RC2 DIN V ENV 1630 (RC2).
The test was approved by the 'test institute for locks and fittings Velbert'.



Turn 90° with cam



Further parts see page

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

Swinghandle AISI 316, shaft AISI 303, fixing material stainless steel, with seal

for cam	1154-U4
for rod control	1154-U5

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

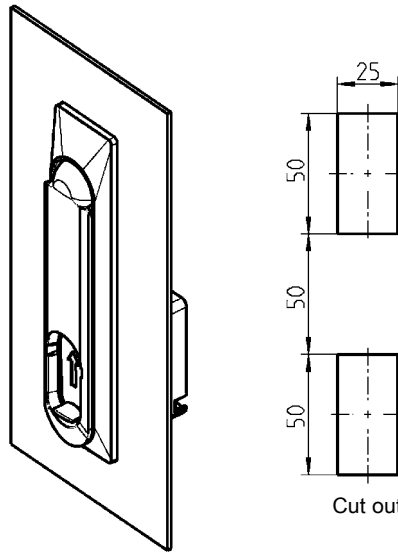
9 Special catalogues

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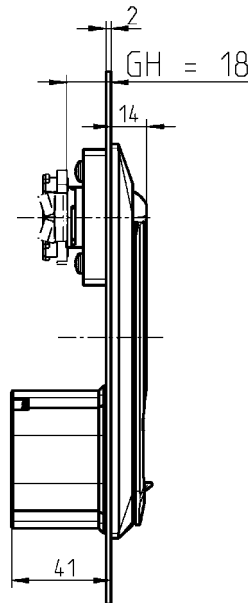
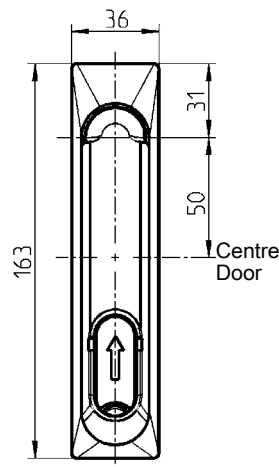
Swinghandle* 1153 PROGRAM 1150



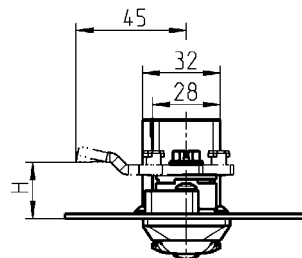
Prepared for profile half cylinder
(Length A = 30) DIN 18252 (EN 1303)



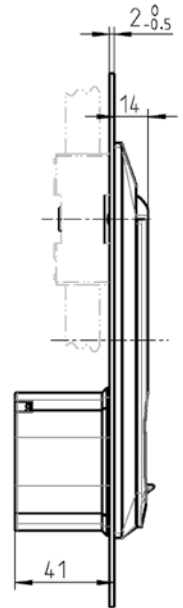
Cut out



Version A



Attention: Length of housing GH = 18 mm



Version B,
earthing possible

* can be used for
cut out of 1125/1225

Further parts see page
for version A

– Cam (GH = 18) 3YC-120

for version B

– Rod control only inside the sea-
ling 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 cams

1153-U1

Version B for rod control, earthing possible

1153-U2

Swinghandle 1151

PROGRAM 1150



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

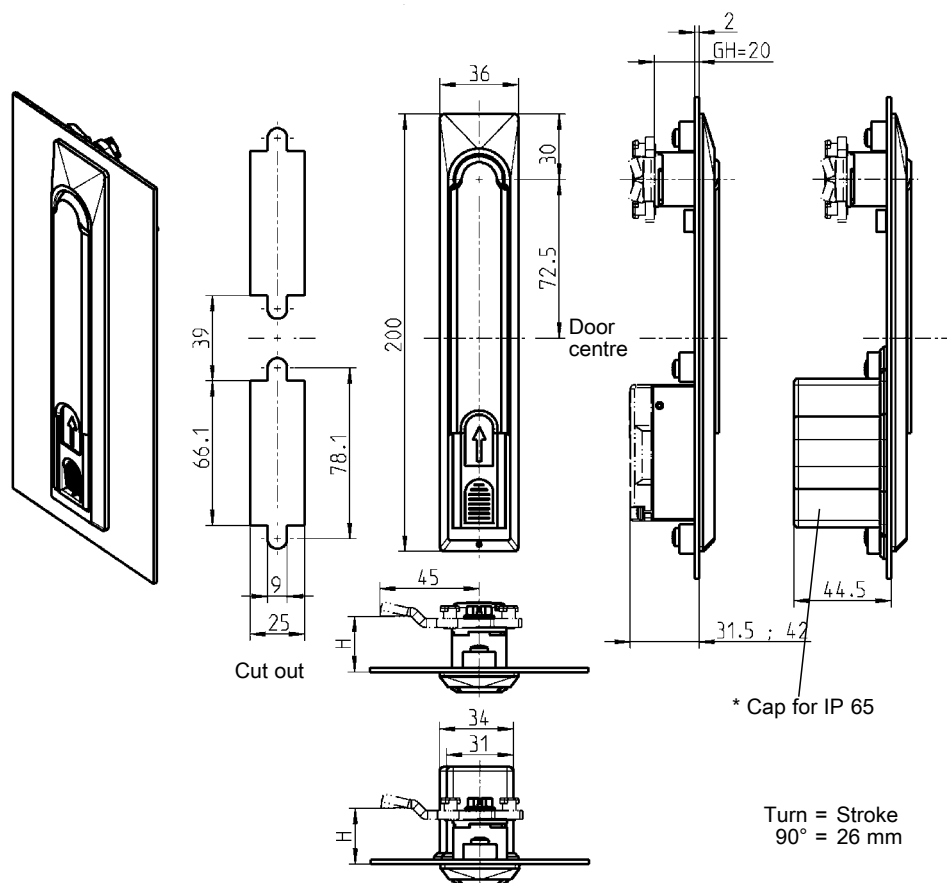
6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

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* Dimensions:
38.5 (wide) x 97 (length), cap for profile half cylinder
35 (wide) x 97 (length), cap for insert and round cylinder



Note:
Swinghandle without locking set

Further parts see page
– Locking set 3XA-120
3XA-140
– Locking set ELM
Special catalogue Electronics
– Cam (GH = 20) 3YC-140

Swinghandle zinc die black powder-coated,
fixing material m.s. zinc-plated, shaft zinc die zinc-plated, with seal

Protection class IP 54 1151-U1

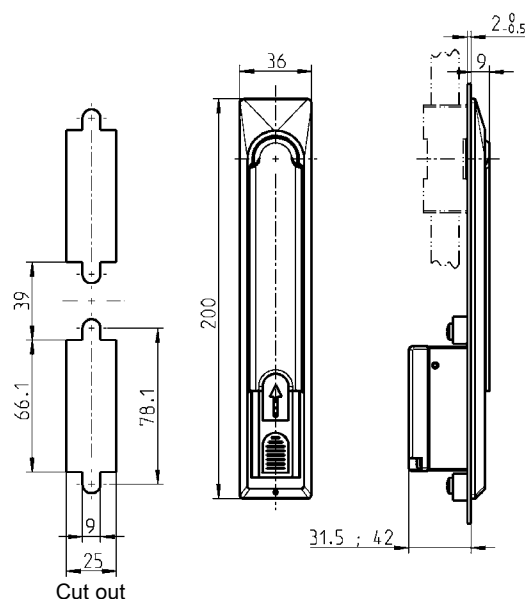
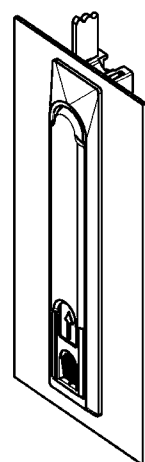
IP 65 achieved by

Cap for profile half cylinder 1151-05

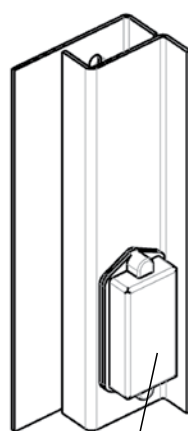
Cap for insert and round cylinder 1151-05-01

3C-420

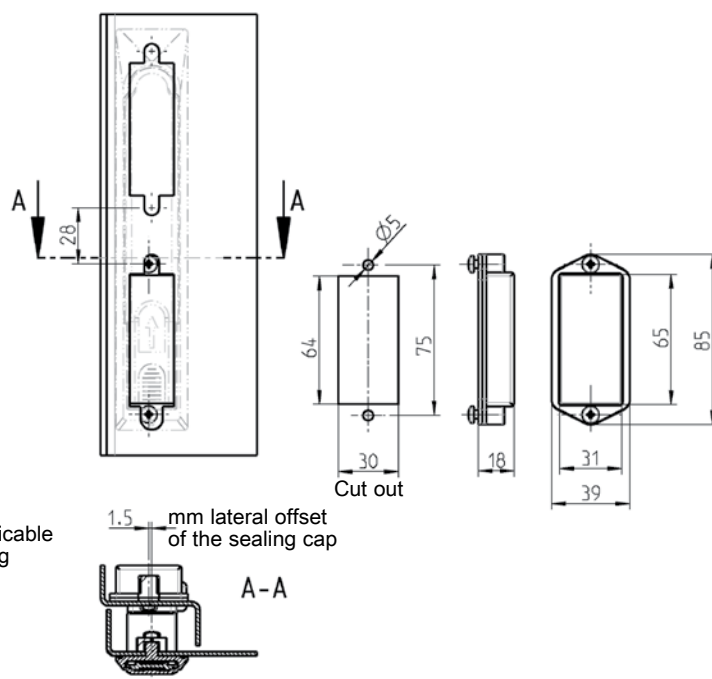
(3F-130)



Cut out



Frame cover applicable outside the sealing



Cut out

Note:
Swinghandle without locking set

Further parts see page

- Locking set 3XA-120
3XA-140
- Locking set ELM
Special catalogue Electronics
- 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 GF black, screws m.s. zinc plated for LH and RH application, with seal

2100-U31

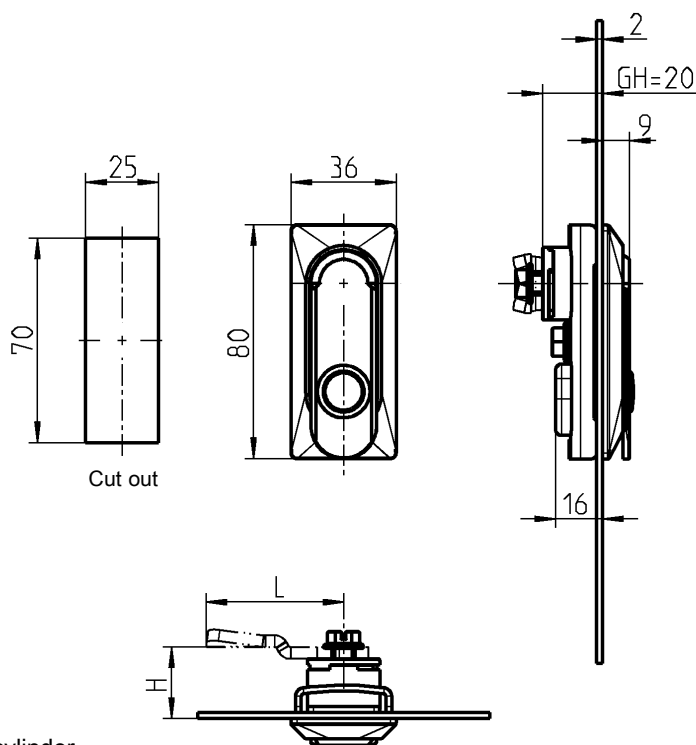
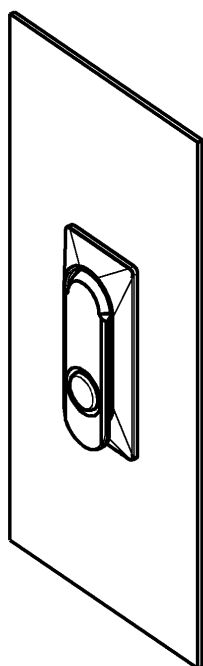
3C-440

(3F-135)

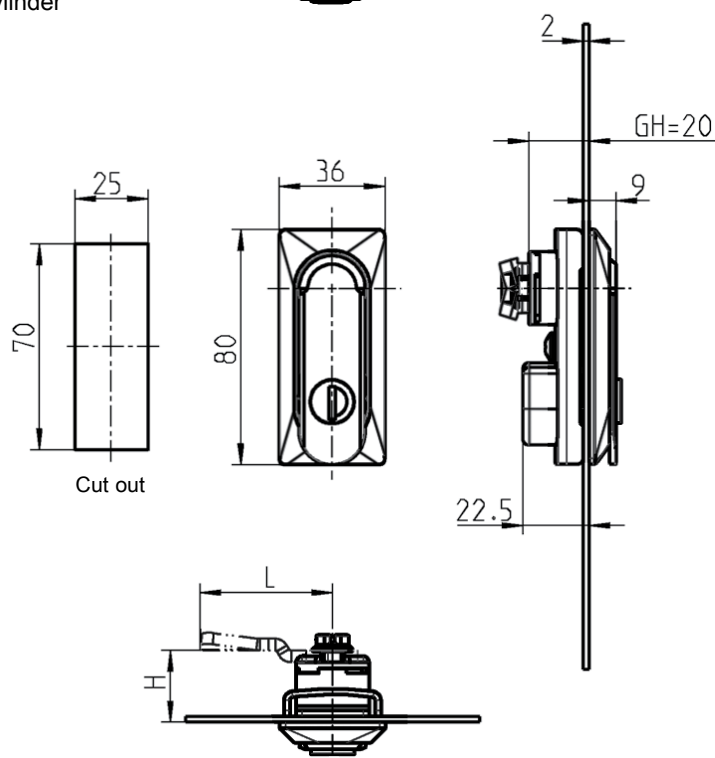
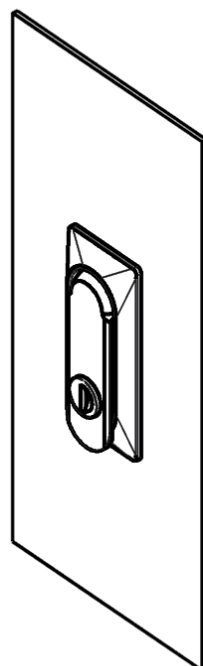
Swinghandle 1152

PROGRAM 1150

Swinghandle with push button or blind



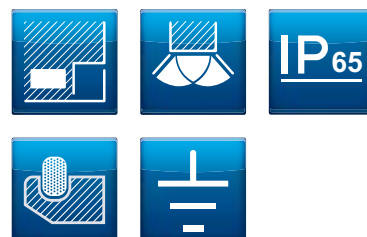
Swinghandle with round cylinder



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 grip polyamide GF black

Push button	1152-U1
keyed EK 333	1152-U2
keyed different	1152-U4
blind	1152-U3



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

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Turn 90°

Note:
Polyamide version on request.

Further parts see page
– Cam without catch on request (not for cam with rod control)
– Spare key 8B-140

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

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Swinghandle 1152 with compression

PROGRAM 1150

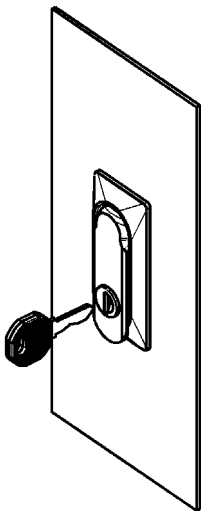


Turn 90°

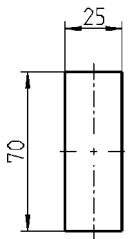
Note:
Suitable for door thicknesses from 1 - 3 mm.

Further versions on request
 – Version with logo possible
 – Additional vibration protection e.g. for use in vehicle construction

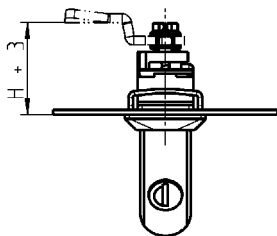
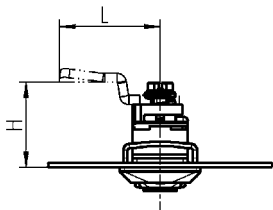
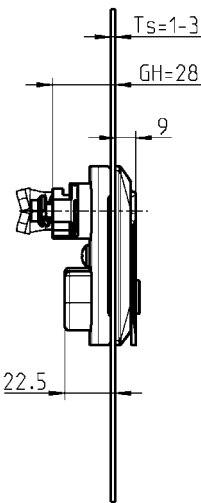
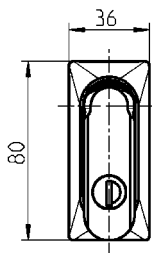
Further parts see page
 – Cam 1C-120
 – Spare key 8B-140



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



Cut out



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 grip polyamide 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
blind	1152-U11	1152-U11-01

Swinghandle* 1155

PROGRAM 1150

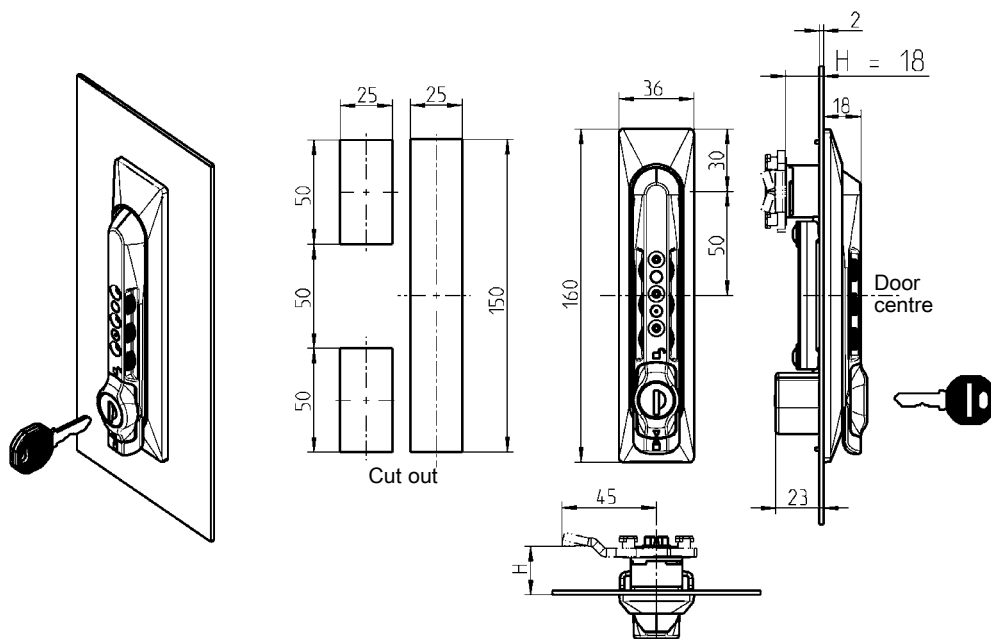
Swinghandle with two locking options. For single point or multiple point locking system.



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.



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 grip polyamide GF black

keyed EK 333

1155-U1

keyed different

1155-U2

EMKA

Beschlagteile



Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

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* can be used for cut out of 1125/1225

Further parts see page

– Cams (GH = 18)

3YC-120

– Spare key

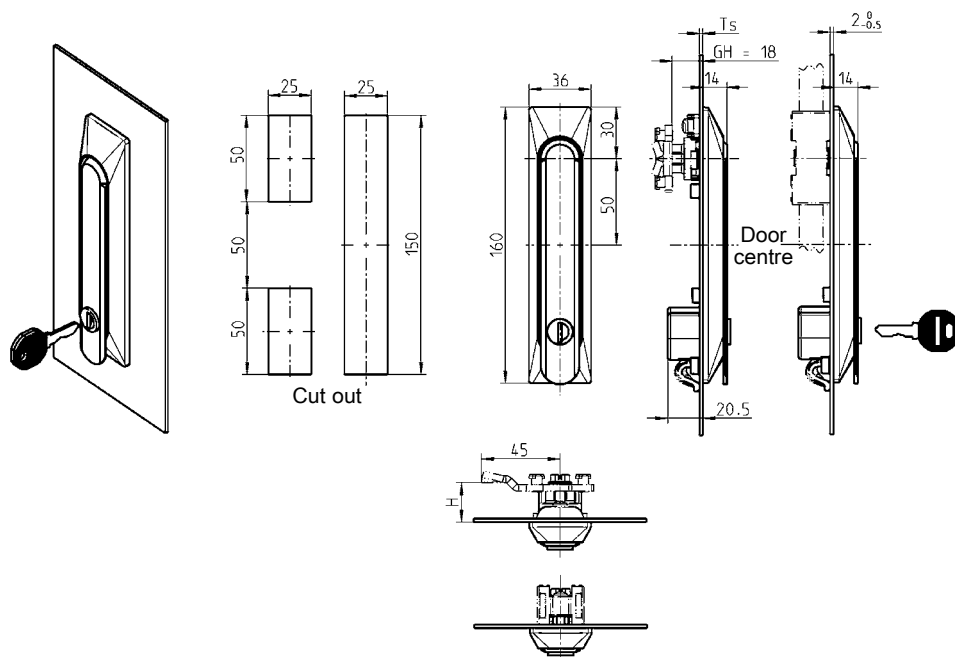
8B-140

3C-620

(3F-123)



Swinghandle* 1150 with universal dish PROGRAM 1150



Attention:

Please order fixing material separately.

Ts = 1.0 to 3.0 mm depending on choice of fixing material

* can be used for
cut out of 1125/1225

Further parts see page

- Fixing material 3C-780
- Cams (GH = 18) 3YC-120
- Rod control 3YA-110

- Key 3YA-120
- Spare key 3YA-140

- Key 8B-120
- Spare key 8B-140

On request:

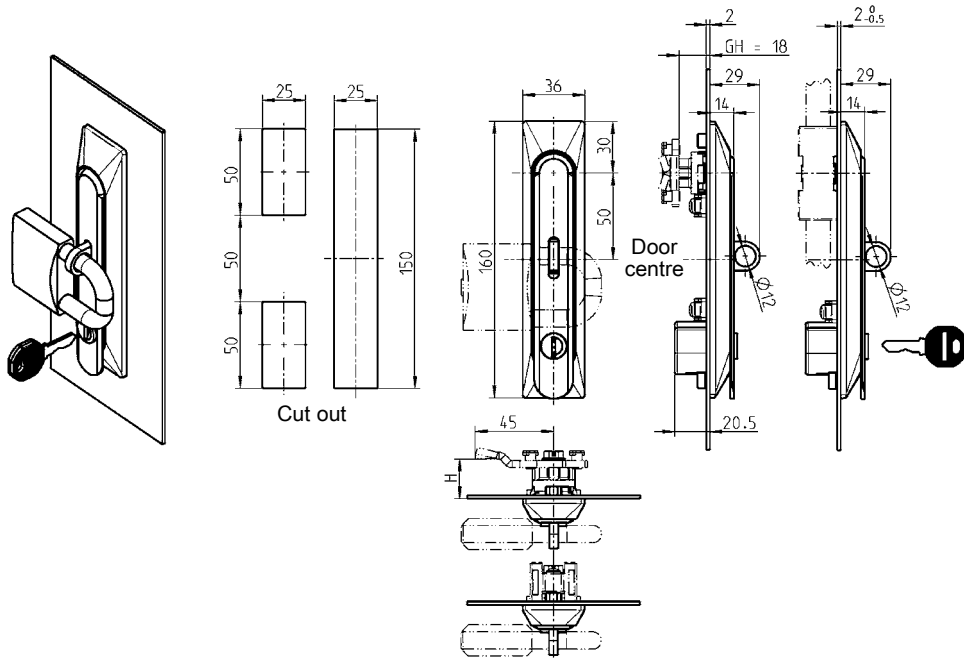
- Key of round cylinder not removable in open position
- Other inserts
- Handle blind (without locking system)

Swinghandle material of choice, dish 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 grip polyamide GF black

	Swinghandle polyamide GF black	Handle zinc die black powder-coated
keyed EK 333	1150-U2-11	1150-U2-12
keyed different	1150-U4-11	1150-U4-12
Insert zinc die chrome-plated		
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 female SW 8 with pin	1150-U18-11	1150-U18-12
Hexagon male SW 11	1150-U19-11	1150-U19-12
Push button	1150-U20-11	1150-U20-12

Swinghandle* 1150 for
padlock with universal dish
PROGRAM 1150



Please order fixing material separately.

Ts = 1.0 to 3.0 mm depending on choice of fixing material

Swinghandle zinc die black powder-coated; dish polyamide black;
padlock shackle AISI 316; shaft zinc die zincplated, with seal;
round cylinder zinc die with stainless steel cap and dust cap.
Each round cylinder has one silver steel key with grip polyamide GF black

keyed EK 333	1150-U2-13
keyed different	1150-U4-13
Insert zinc die chrome-plated	
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 female SW 8 with pin	1150-U18-13
Hexagon male SW 11	1150-U19-13
Push button	1150-U20-13

Beschlagteile



* can be used for
cut out of 1125/1225

Further parts see page

- Fixing material 3C-780
- Cams (GH = 18) 3YC-120
- Rod control 3YA-110

- | | |
|-------------|--------|
| – Key | 8B-120 |
| – Spare key | 8B-140 |

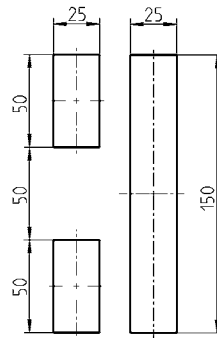
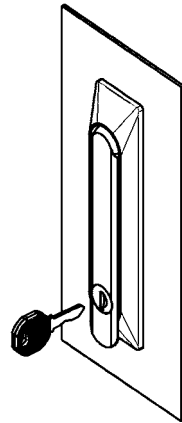
On request:

- Key of round cylinder not removable in open position
- Other inserts
- Handle blind (without locking system)

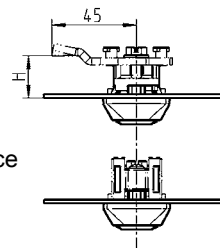
3C-730 01/13

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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® Swinghandle* 1150 with
'Push to Lock' function with universal dish
PROGRAM 1150

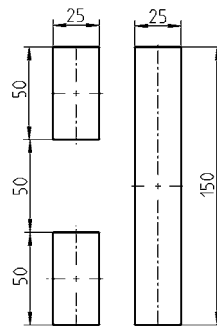
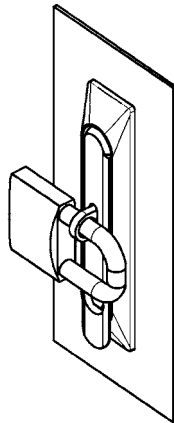


Cut out

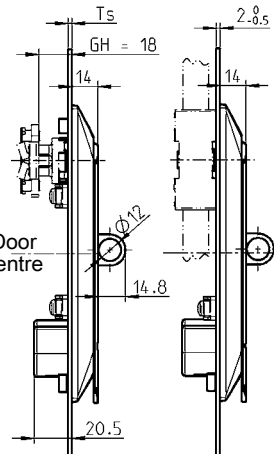
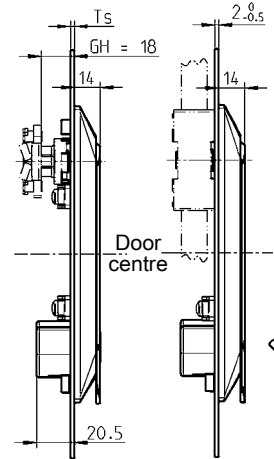
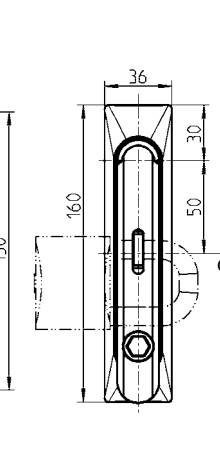


Attention:

Please order fixing material separately.
Ts = 1.0 to 3.0 mm depending on choice
of fixing material



Cut out



Swinghandle zinc die black powder-coated, dish 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 grip polyamide GF black

		Push to lock	Push to lock and for padlock
keyed EK 333	1150-U33-22	-	-
keyed different	1150-U34-22	-	-
Insert zinc die chrome-plated			
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 female SW 8 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 used for
cut out of 1125/1225

Further parts see page

- Fixing material 3C-780
- Cams (GH = 18) 3YC-120
- Rod control 3YA-110

- Key 3YA-120
- Spare key 3YA-140
- Key 8B-120
- Spare key 8B-140

On request:

- Key of round cylinder
not removable in open position
- Other inserts

Swinghandle* 1155 with combination lock with universal dish PROGRAM 1150

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

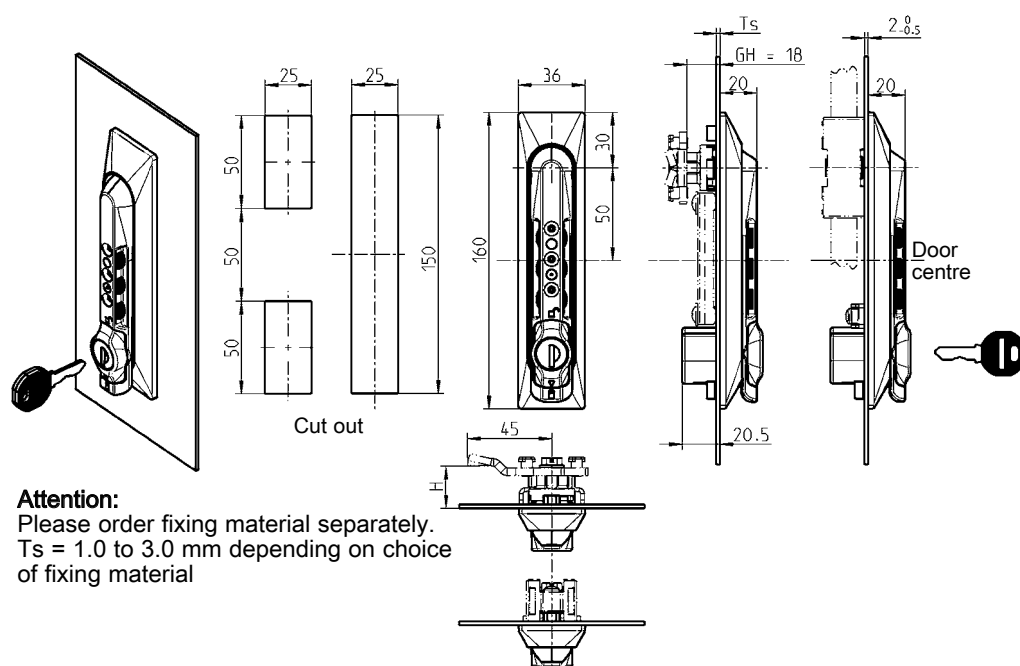


Option 1:

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:

Please order fixing material separately.
Ts = 1.0 to 3.0 mm depending on choice of fixing material

* can be used for
cut out of 1125/1225

Further parts see page

– Fixing material	3C-780
– Cams (GH = 18)	3YC-120
– Rod control	3YA-110
	3YA-120
	3YA-140
	8B-140

– Spare key

On request:

- Key of round cylinder not removable in open 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 grip polyamide GF black

keyed EK 333

1155-U1-11

keyed different

1155-U2-11

® Fixing material for swinghandle with universal dish

PROGRAM 1150



Fixing material for swinghandle with cam



Hook and bridge 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 swinghandle 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	-



Bridge polyamide GF black, adapter zinc die zinc-plated, fixing material m.s. zinc-plated

Ts = 1.0 to 3.0	1150-U52
-----------------	----------



Bridge polyamide GF black, fixing material m.s. zinc-plated

Ts = 2.0 - 0.5	1150-U53
----------------	----------



Adapter zinc die zinc-plated, mounting rail and fixing material m.s. zinc-plated

Ts = 1.0 to 2.0	1150-U54
-----------------	----------

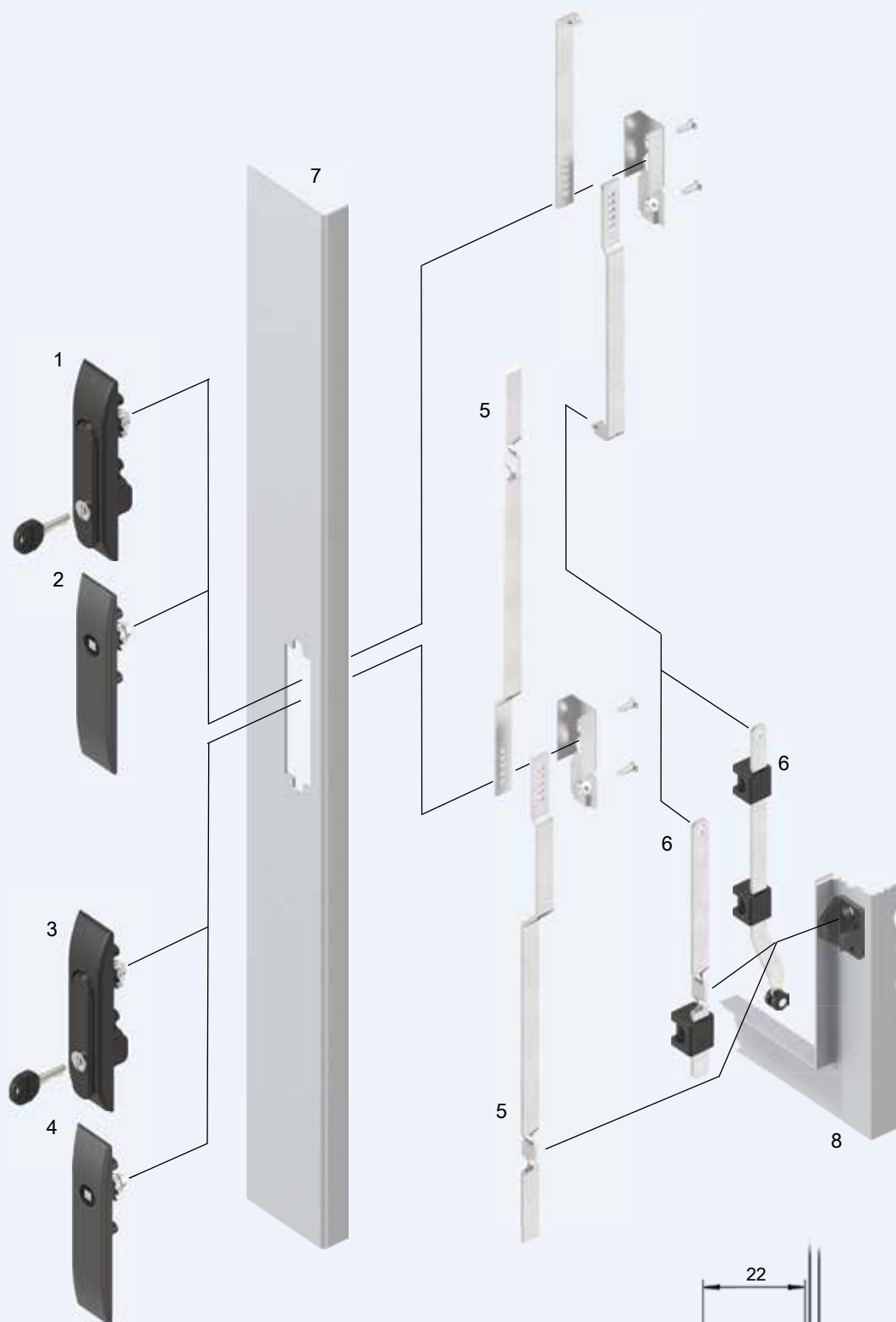
Further parts see page

- Swinghandle with universal dish 3C-720 to 3C-750
- Cams (GH = 18) 3YC-120
- Rod control 3YA-110, 3YA-120, 3YA-140

On request:

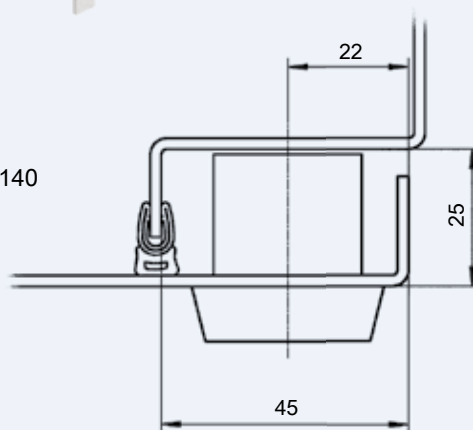
- Further door thicknesses Ts

Swinghandle and Escutcheon Program 1160



- 1 Swinghandle
- 2 Escutcheon
- 3 Swinghandle
- 4 Escutcheon
- 5 Rod
- 6 Rod
- 7 Door
- 8 Housing / Frame

3D-120, 3D-140
3D-120
3D-220
3D-220



3D-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

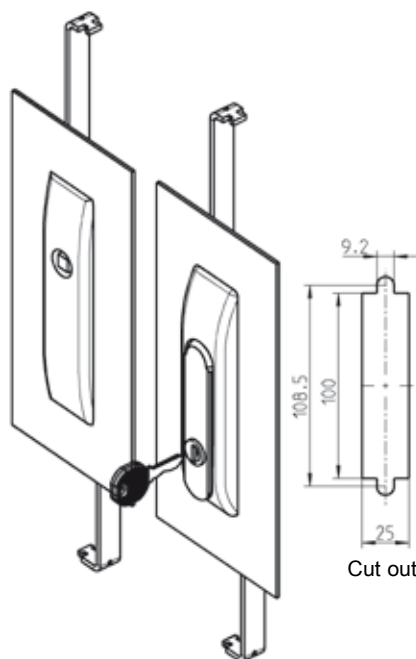
8 Miscellaneous

9 Special catalogues

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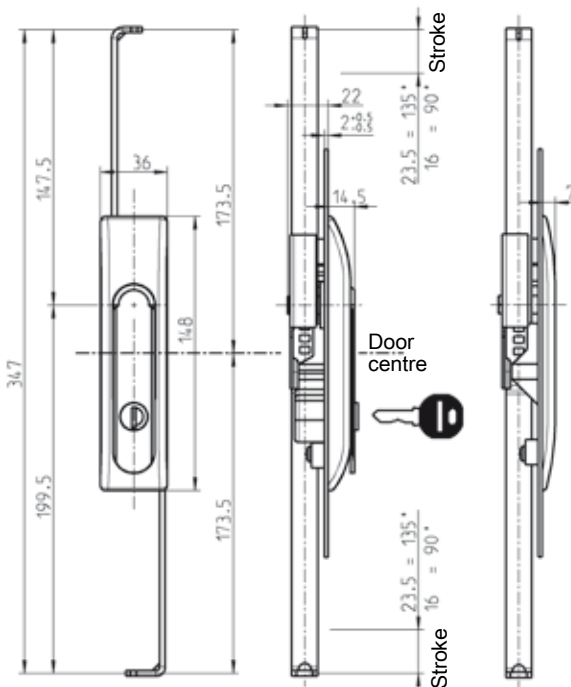
Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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Swinghandle / Escutcheon with rods PROGRAM 1160



Cut out

Turn = Stroke
135° = 23.5 mm
90° = 16 mm



Door centre

Stroke

Swinghandle zinc die black powder-coated, shaft material of 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 grip polyamide GF black

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

Escutcheon

	Polyamide	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 SW 8 with pin	1160-U18	1160-U29
Hexagon male SW 11	1160-U19	1160-U30
Push button	1160-U35	1160-U36

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 half-round	1160-U66

Further parts see page

– Rod



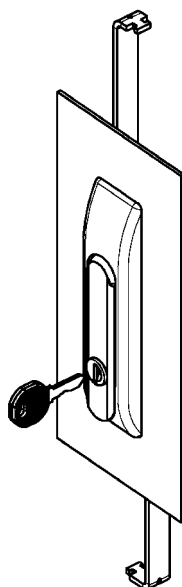
– Spare key

3ZA-120
3ZA-320
3ZB-120
3ZB-220
8B-140

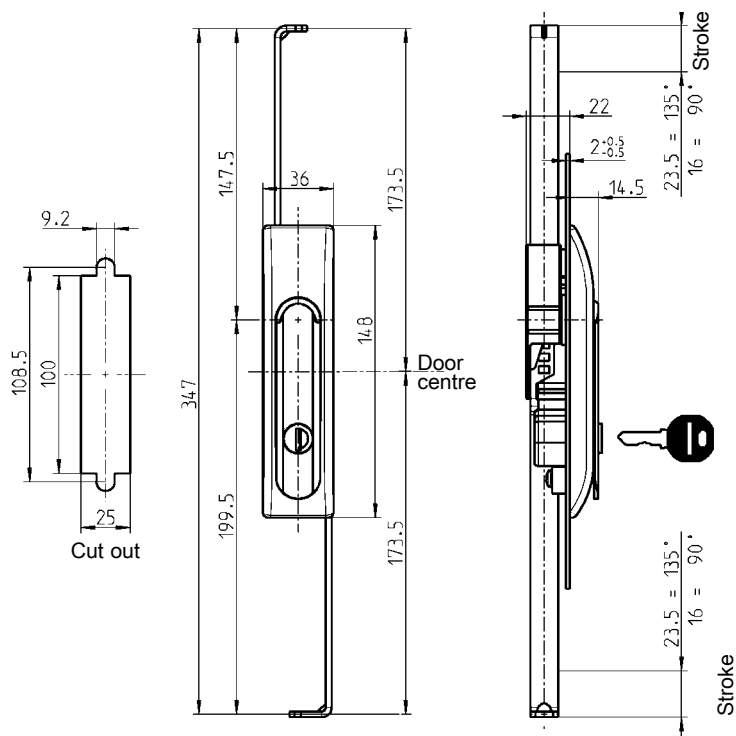
Swinghandle with rods

PROGRAM 1160

Swinghandle for
pre-assembled rod control



Turn = Stroke
135° = 23.5 mm
90° = 16 mm



Swinghandle zinc die black powder-coated, shaft material of 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 grip polyamide 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



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

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Further parts see page

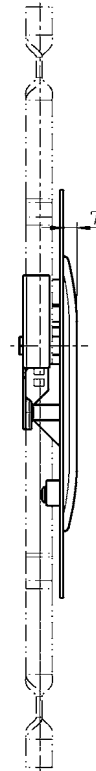
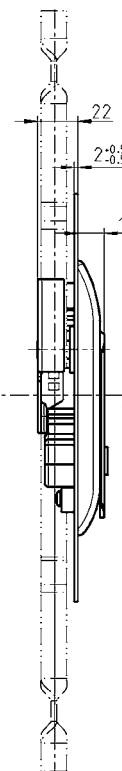
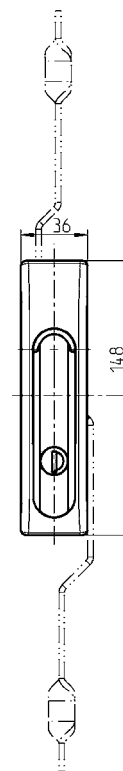
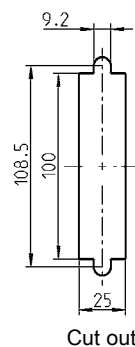
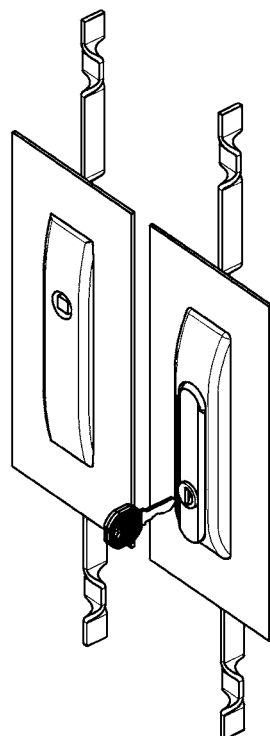
– Rod



3ZA-120
3ZA-320
3ZB-120
3ZB-220
8B-140

– Spare key

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
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Swinghandle zinc die black powder-coated, escutcheon material of 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 grip polyamide GF black

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

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 SW 8 with pin	1160-U118	1160-U129
Hexagon male SW 11	1160-U119	1160-U130
Push button	1160-U135	1160-U136

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 half-round	1160-U166

Further parts see page

– Rod

– outside

– Spare key

3ZA-420

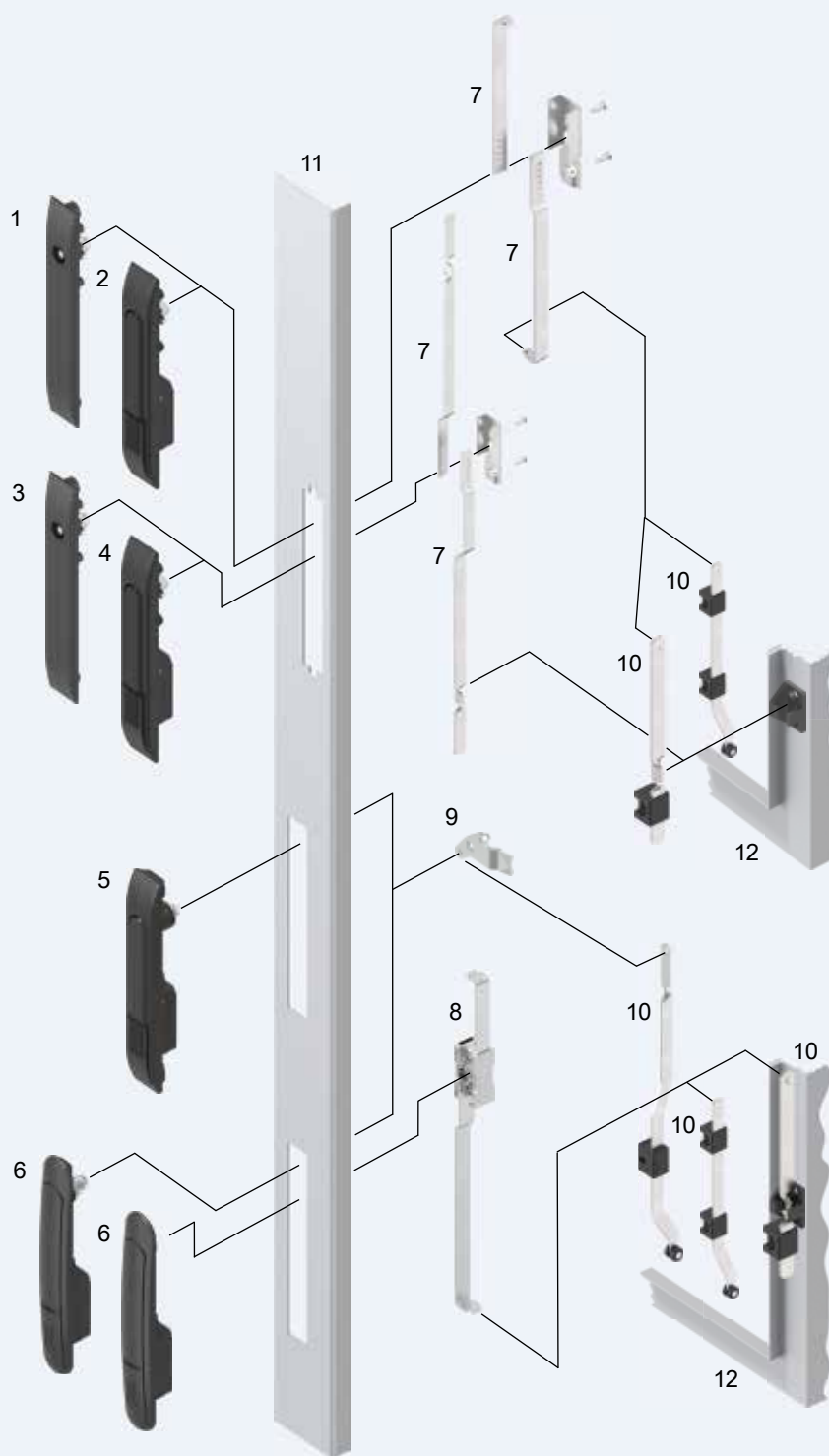
8B-140

3D-220 01/10

(3M-160)

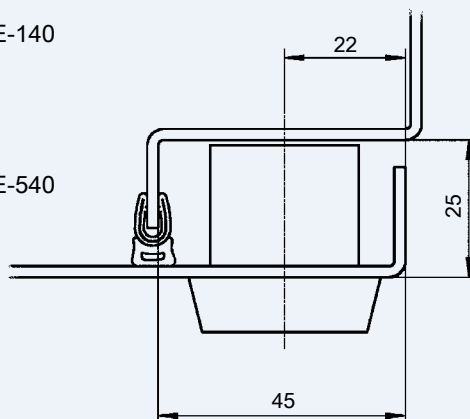
Items printed in gray without stock

Swinghandle and Escutcheon Program 1180



- 1 Escutcheon
- 2 Swinghandle 1180
- 3 Escutcheon
- 4 Swinghandle 1180
- 5 Swinghandle 1180
- 6 Swinghandle 1185
- 7 Rod
- 8 Rod control
- 9 Cam
- 10 Rod
- 11 Door
- 12 Housing / Frame

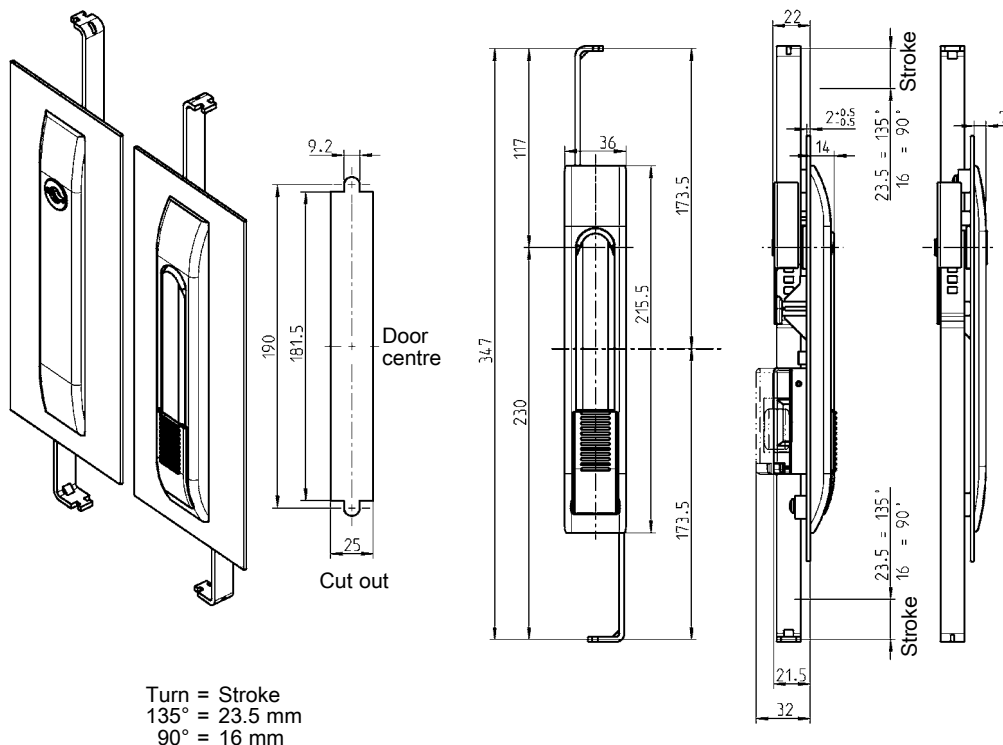
3E-120
3E-120, 3E-140
3E-220
3E-220
3E-320
3E-520, 3E-540



3E-100

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2 Rod controls
3 Locking systems
4 Hinges
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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 half-round

1180-U16

Further parts see page

– Key 8B-120
– Locking set 3XA-120
3XA-240

– Locking set ELM
Special catalogue Electronics
– Rod

outside 3ZA-120
inside 3ZA-320
inside 3ZB-120
3ZB-220

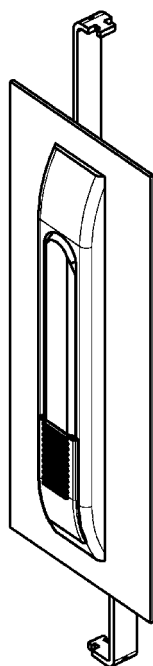
3E-120

(3P-120)

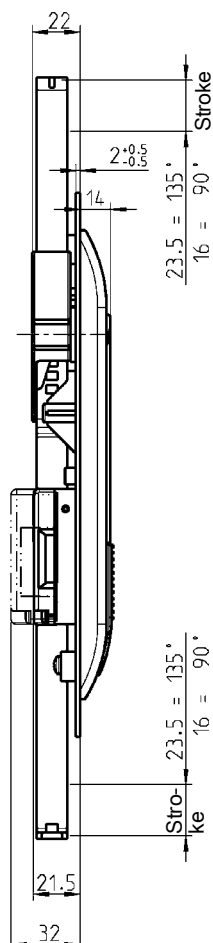
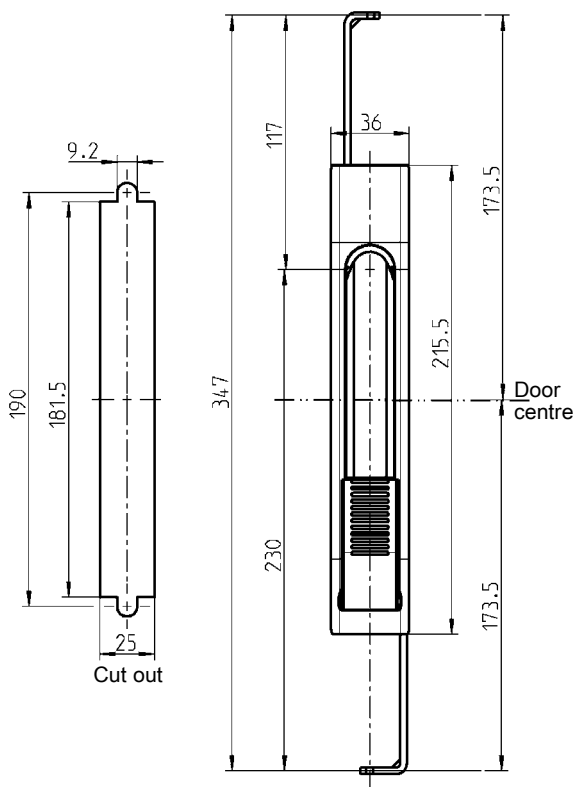
Swinghandle 1180 with rods

PROGRAM 1180

Swinghandle for pre-assembled rod control



Turn = Stroke
135° = 23.5 mm
90° = 16 mm



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

Rod control polyamide GF black, rods m.s. zinc-plated

Right-hand version

Left-hand version

1180-U301

1180-U200-RE

1180-U200-LI

Further parts see page

- Locking set

3XA-120

3XA-240

- Locking set ELM

Special catalogue Electronics

– Rod

3ZA-120

3ZA-320

3ZB-120

3ZB-220

3E-140

(3P-140)

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1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

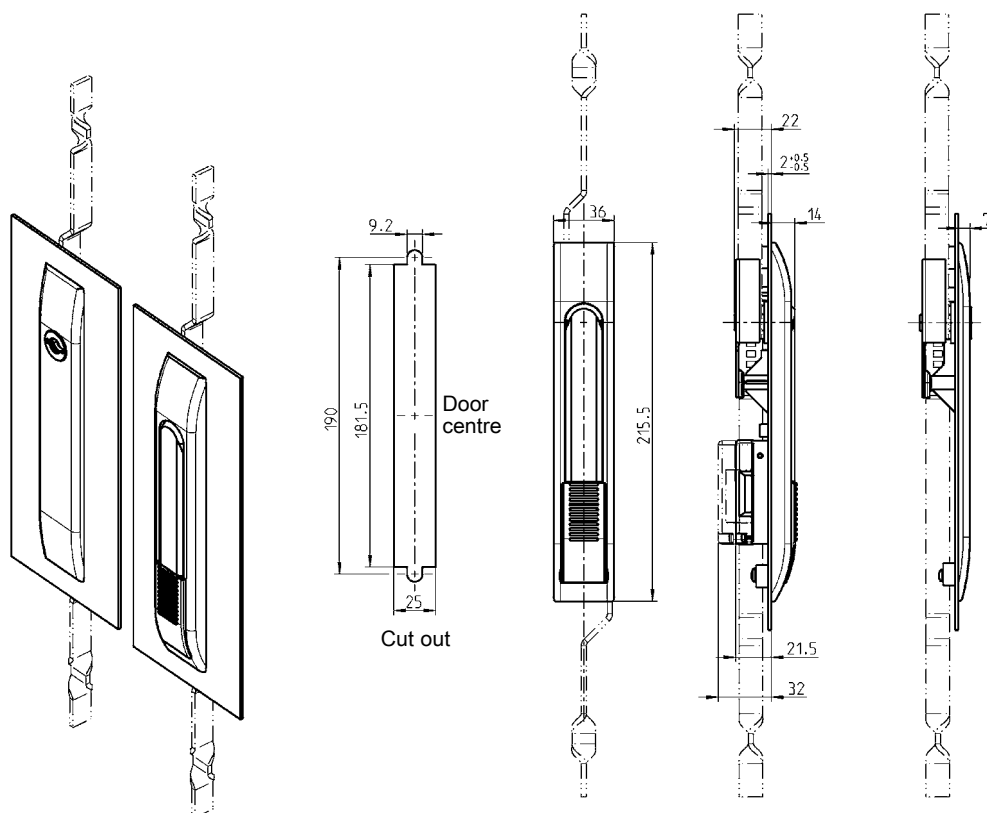
9 Special catalogues

Index



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 GF 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 half-round

1180-U116

Further parts see page

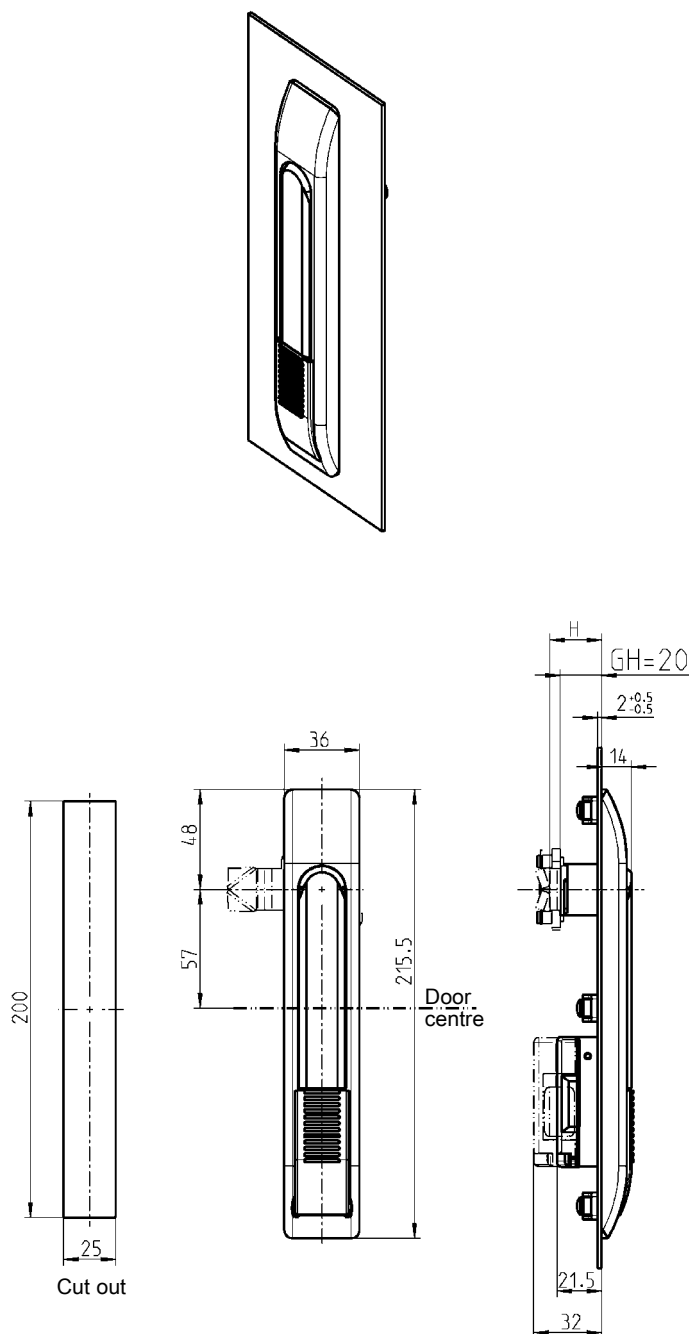
– Key 8B-120
– Locking set 3XA-120
3XA-240

– Locking set ELM
Special catalogue Electronics

– Rod

outside 3ZA-520

Swinghandle 1180 with 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
Special catalogue Electronics
– Cam (GH = 20) 3YC-140

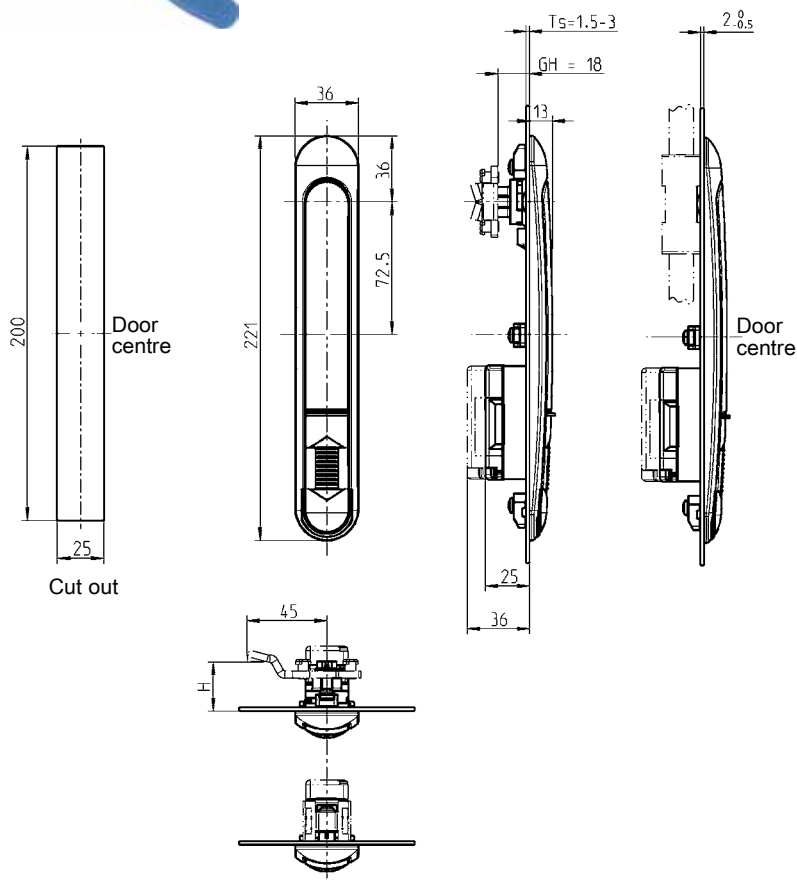
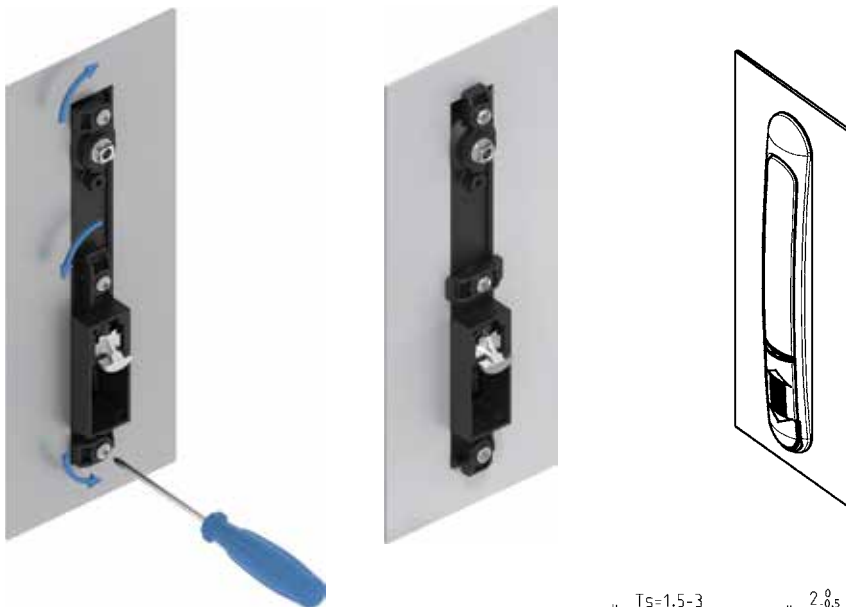
3E-320 01/14

(3P-200)



Swinghandle 1185 for cam or rod control PROGRAM 1180

Turn pre-assembled fixing bridges by 90° and tighten



Note:
Swinghandle without locking set

Further parts see page

- Locking set 3XA-120
3XA-140
- Locking set ELM
Special catalogue Electronics
- 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

Swinghandle with push button 1185 for cam or rod control

PROGRAM 1180

EMKA

Info

Beschlagteile



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

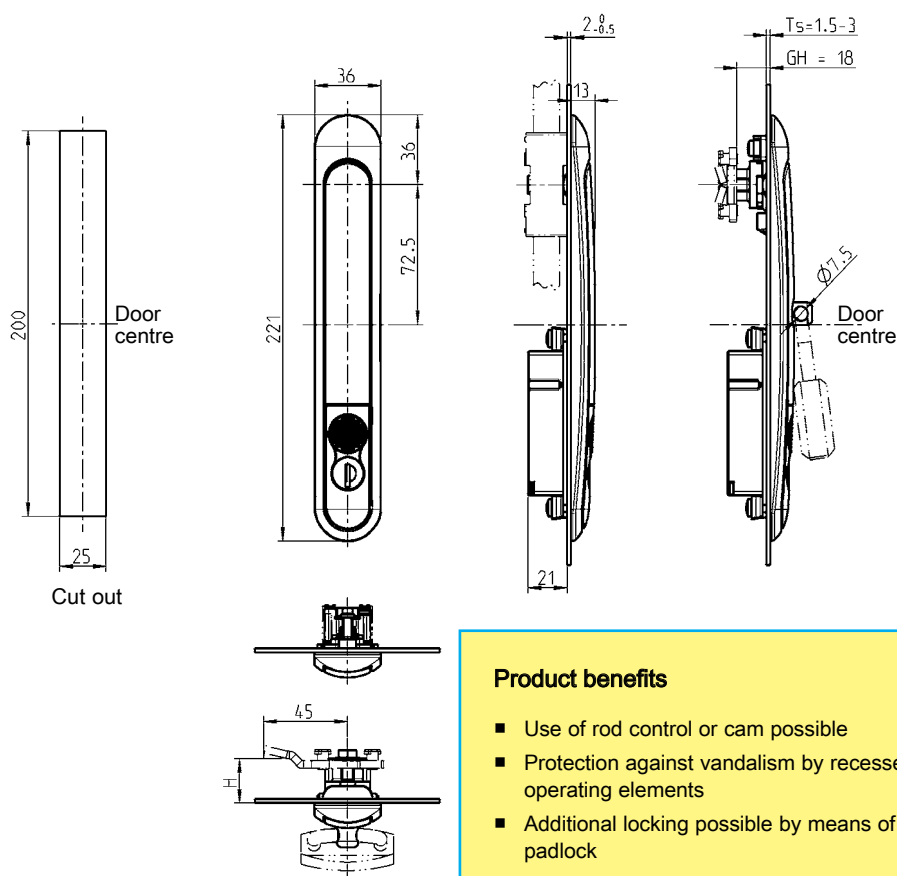
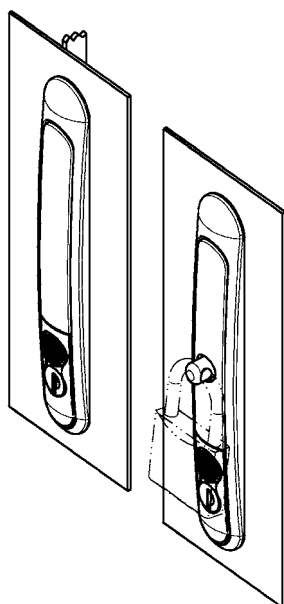
8 Miscellaneous

9 Special catalogues

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Adapter for
cam 1185-U3,
order separately



Product benefits

- Use of rod control or cam possible
- Protection against vandalism by recessed operating elements
- Additional locking possible by means of a padlock

Swinghandle for rod control
handle, escutcheon and push button 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 of m.s. nickel-plated.

keyed EK 333	1185-U4
keyed different	1185-U4-V
keyed EK 333 and for padlock	1185-U5
keyed different and for padlock	1185-U5-V

Adapter for cam zinc die zinc-plated; bridge polyamide GF V0 black;
with fixing material

1185-U3

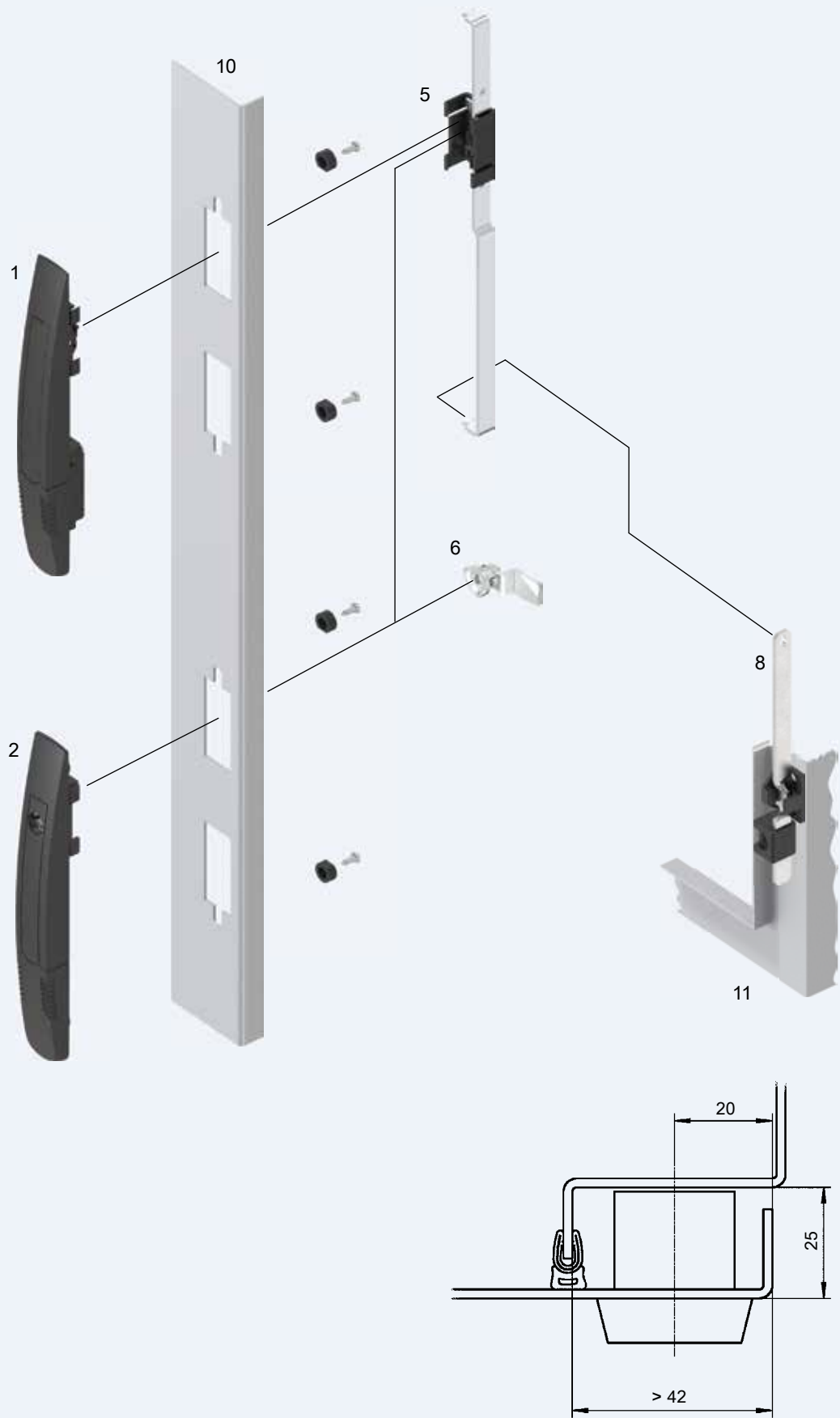


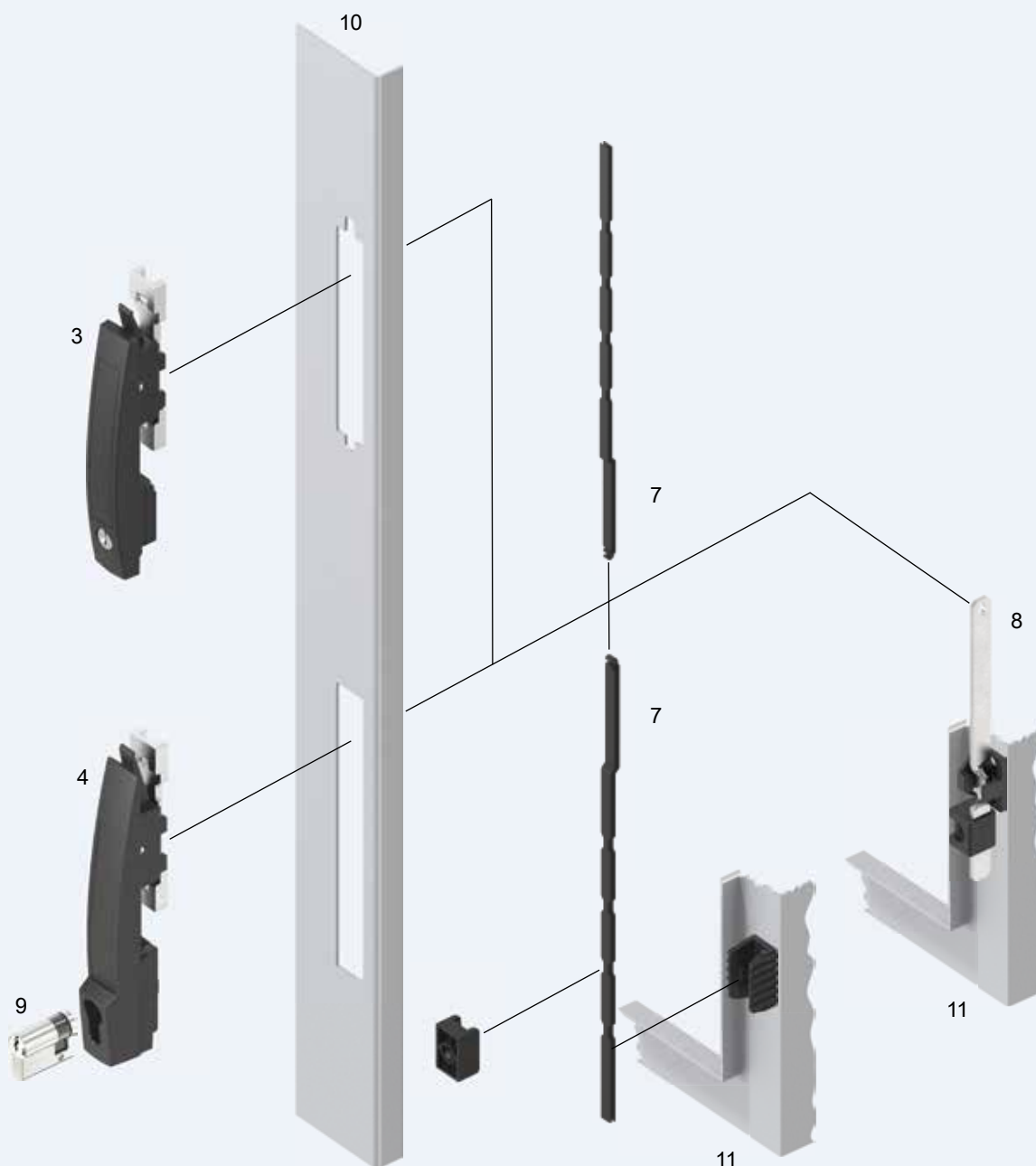
Further parts see page

– Cam (stroke = 26) 3YC-120
– Rod control 3YA-480

3E-540

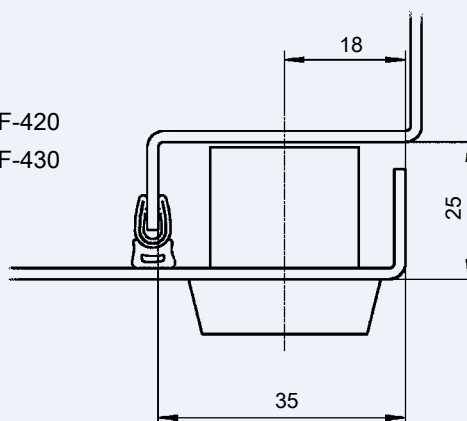
Lifthandle and Escutcheon Program 1190



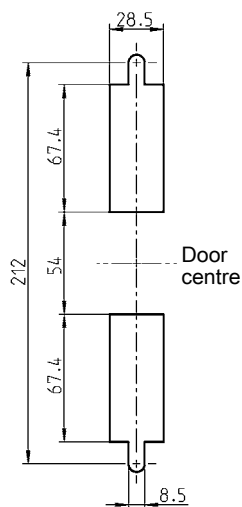
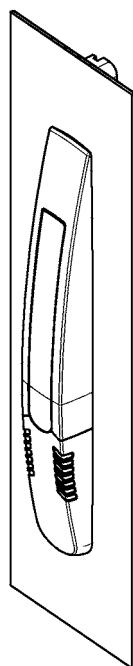


- 1 Lifthandle
- 2 Escutcheon
- 3 Lifthandle
- 4 Lifthandle
- 5 Rod
- 6 Cam
- 7 Rod
- 8 Rod
- 9 Profile half cylinder
- 10 Door
- 11 Housing / Frame

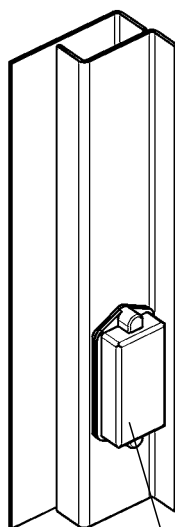
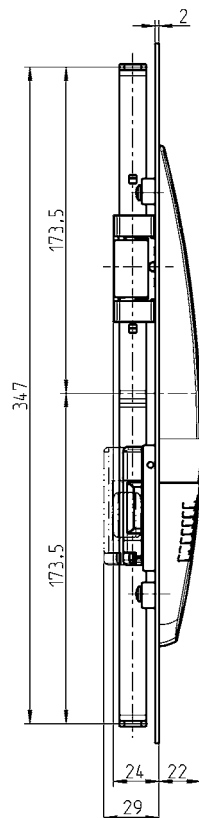
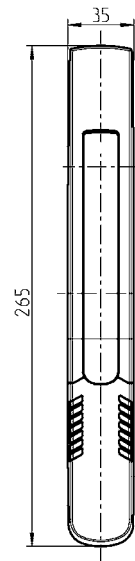
3F-120
3F-220
3F-320, 3F-420
3F-330, 3F-430



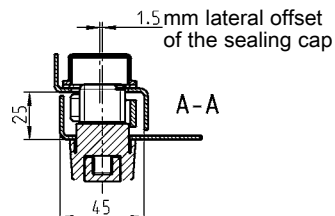
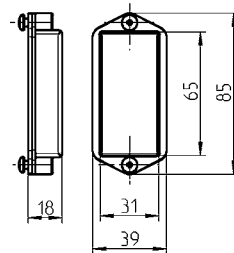
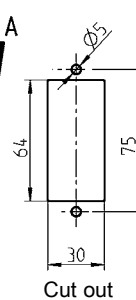
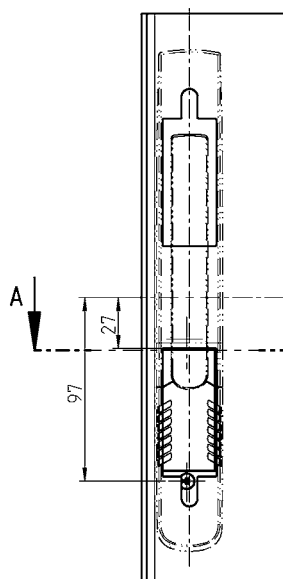
3F-100



Cut out



Frame cover
applicable
outside the sealing



Note:
Frame cover only necessary for
locking set from catalogue page
3XA-120

Rod movement is unidirectional
Stroke 18 mm

Further parts see page

– Locking set 3XA-120
3XA-240

– Rod 3ZA-120
3ZA-320



outside

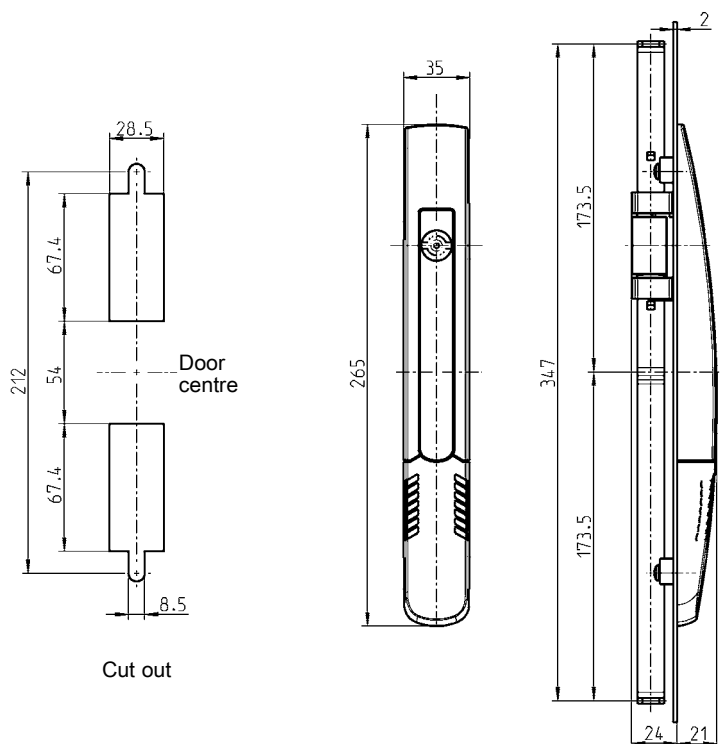
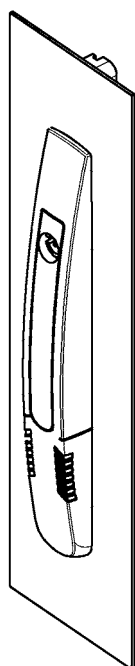
Lifthandle polyamide GF black, flat rod m.s. zinc-plated,
push button polyamide black, fixing material m.s. zinc-plated

1190-U1

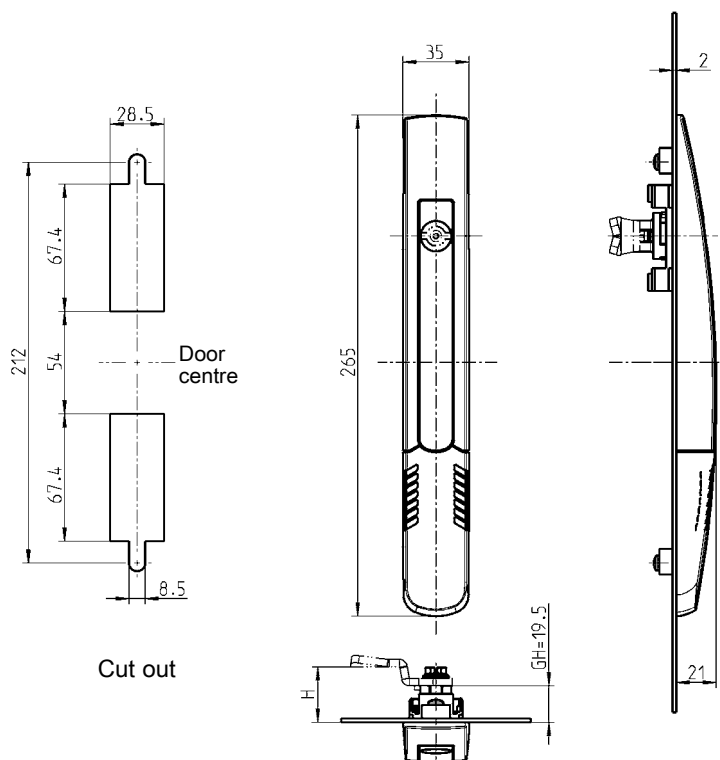
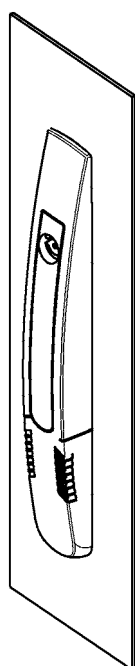
Frame cover polyamide GF black, screws m.s. zinc-plated,
for LH and RH application, with seal

2100-U31

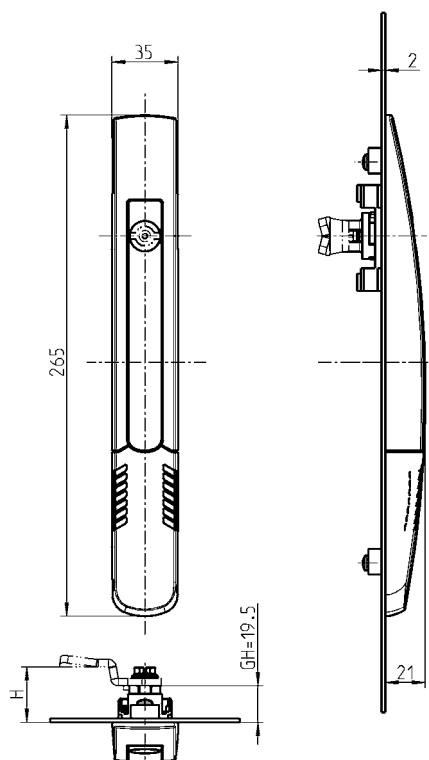
Escutcheon PROGRAM 1190



Cut out



Cut out



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

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Adapter for cam m.s.

Rod movement is unidirectional
Stroke 23.5 mm

Further parts see page
– Rod

outside	3ZA-120
– Insert	3ZA-320
– Cam (GH = 18)	1B-140
	1C-120

Note:
When using the adapter
for cam, the H-dimension
increases by 1.5 mm

Escutcheon polyamide GF black, fixing material m.s. zinc-plated

1190-U3

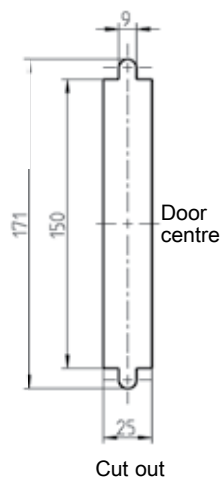
Rod control polyamide GF black, rods m.s. zinc-plated

1190-U4

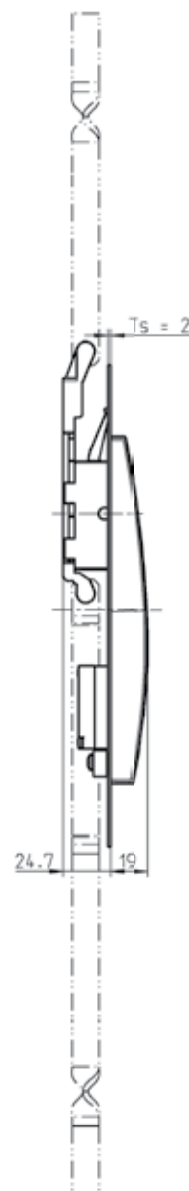
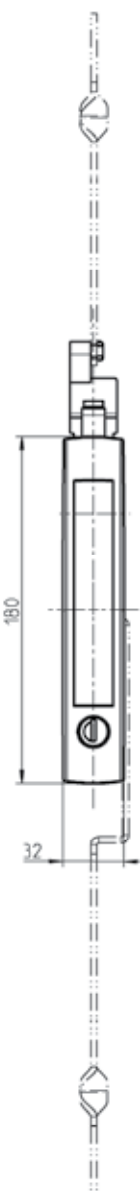
Adapter for cam m.s. zinc die, screw m.s. zinc-plated

1190-U5

3F-220



Cut out



Rod movement is unidirectional

Stroke 18 mm

Further parts see page
– Rod

outside

3ZA-560

Lifthandle 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 grip polyamide 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

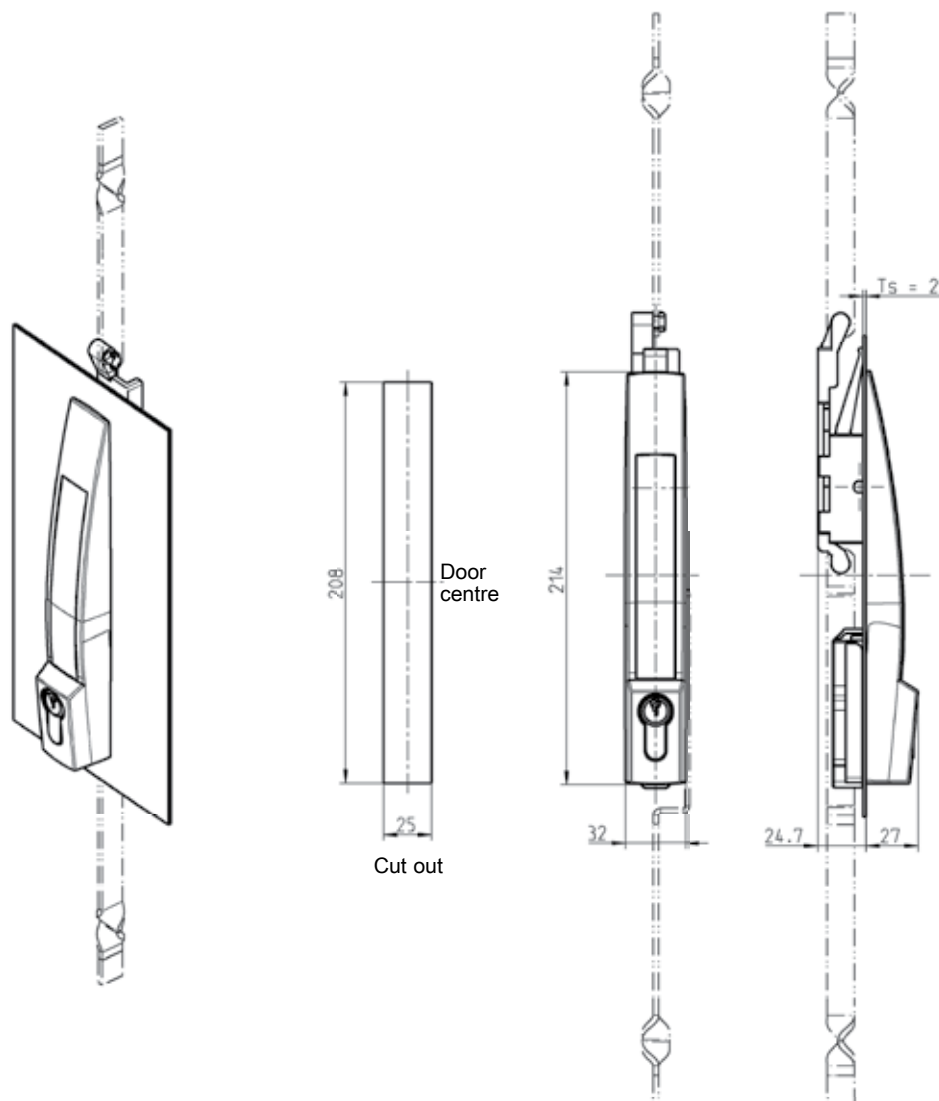
Hexagon female SW 8 with pin

1190-U218

Hexagon male SW 11

1190-U219

Lifthandle lock PROGRAM 1190



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

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Note:
Profile half cylinder 40 mm (A = 30 mm), set locking 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

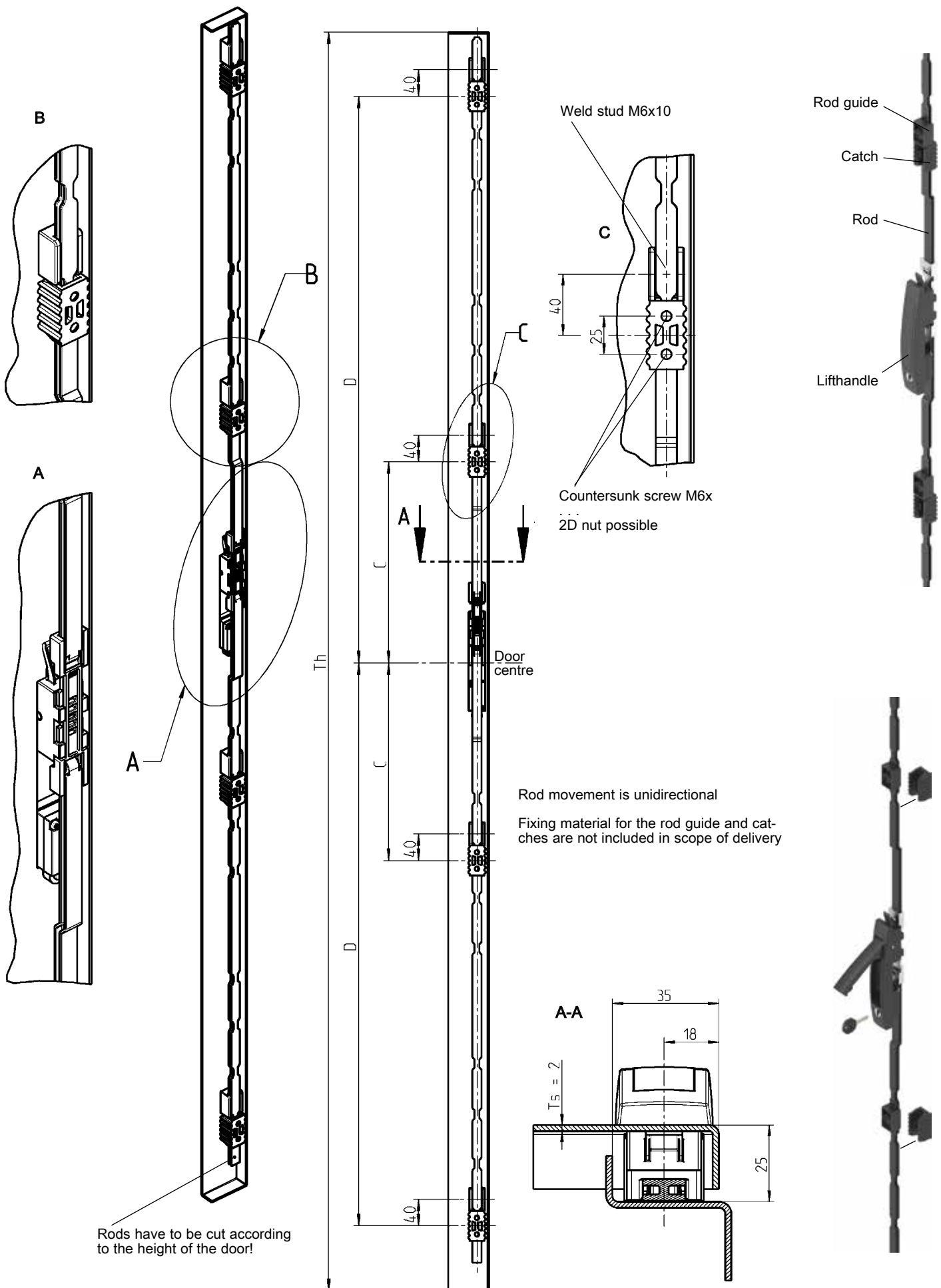
Lifthandle polyamide GF black,
rod control zinc die, screw m.s. zinc-plated

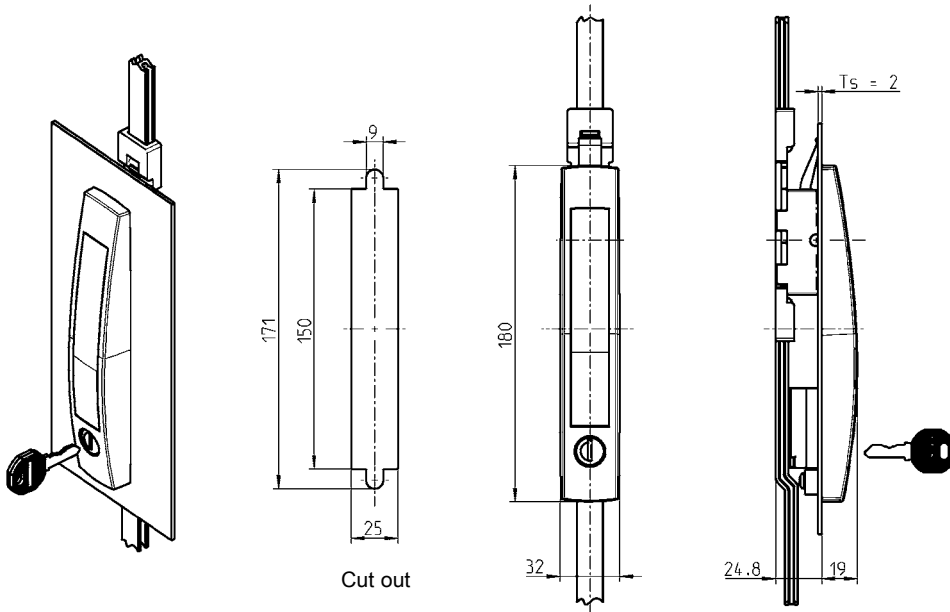
1190-U306

3F-330 01/13

Complete lifthandle locking system

PROGRAM 1190





Lifthandle polyamide GF black, rod control zinc die, 2 rods polyamide GF black, number of choice clip-in rod guides plastic black for weld stud M6x10, number of choice catches 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 grip polyamide GF black

Quantity rod guides and catches	2	4
keyed EK 333	1190-U7	1190-U6
keyed different	1190-U7-V	1190-U6-V

Insert zinc die chrome-plated

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 female SW 8 with pin	1190-U29	1190-U18
Hexagon male SW 11	1190-U30	1190-U19

Door height Th	Dim. C	Dim. D
800 - 1200	-	300
1200 - 1600	-	450
1600 - 1900	300	700
1900 - 2200	300	850

1190-U7

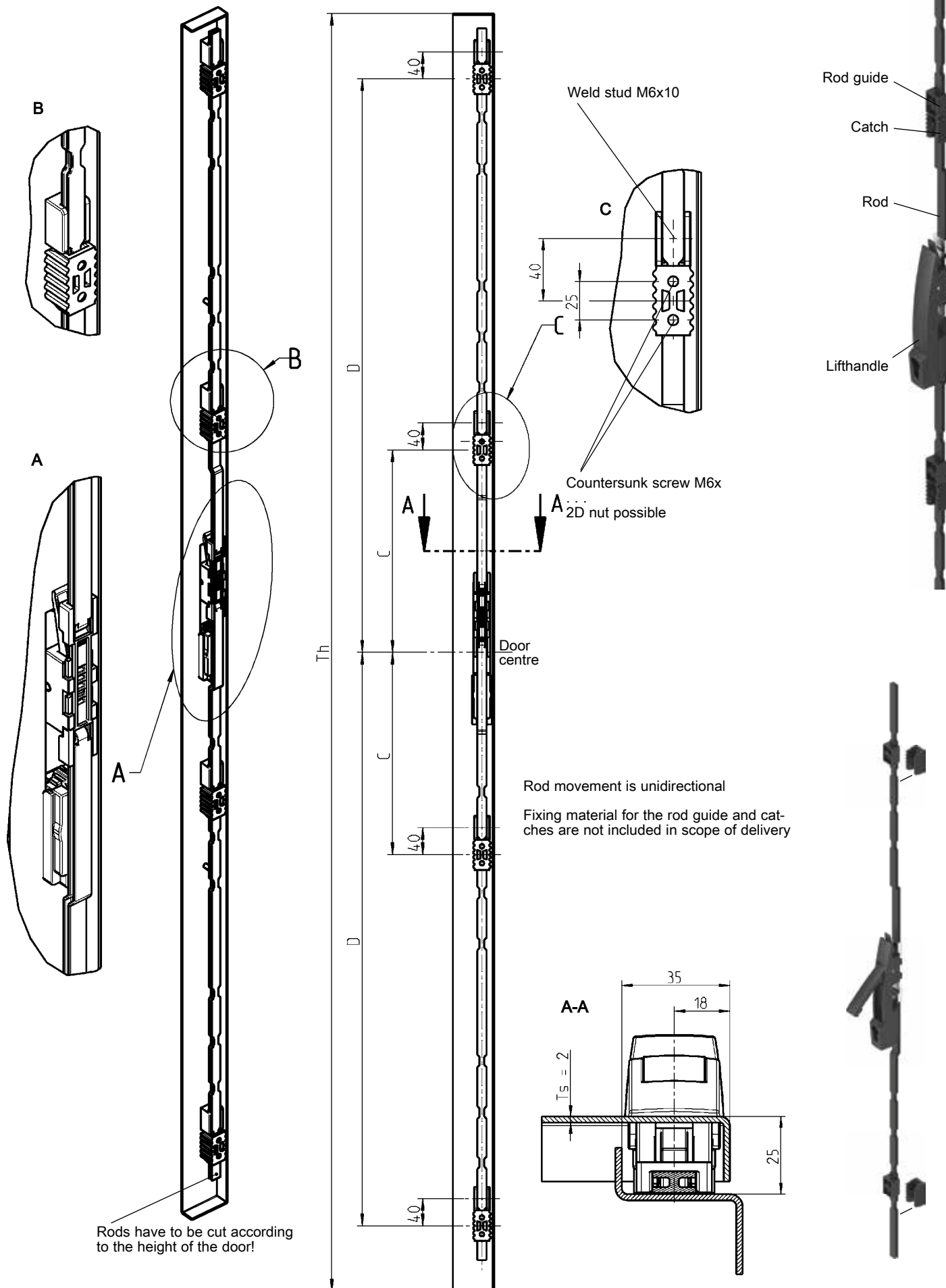
1190-U6

Stroke 18 mm

Further parts see page
Assembly instruction

3F-440

3F-420





1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

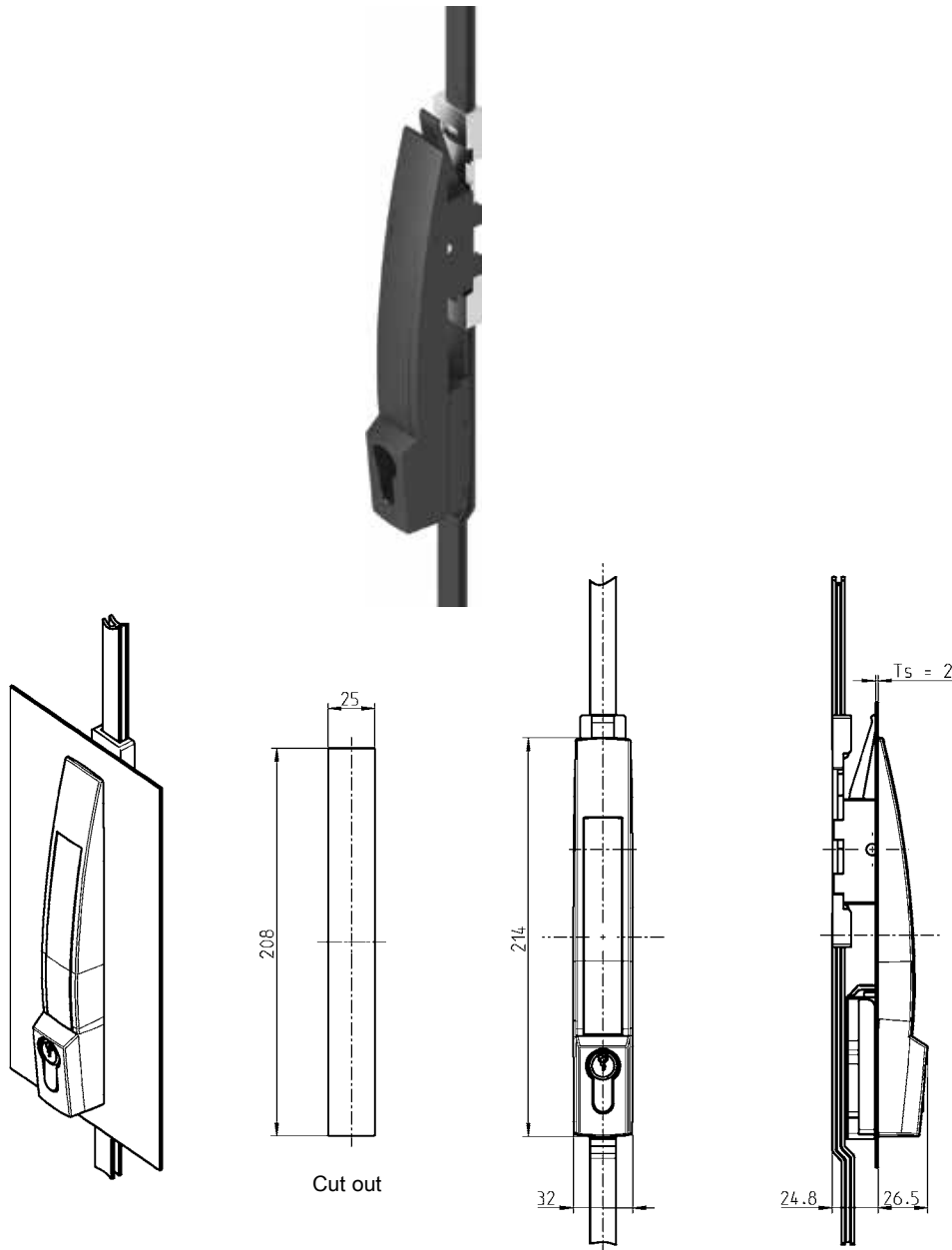
6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

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

Lifthandle polyamide GF black, rod control zinc die, 2 rods polyamide GF black, number of choice clip-in rod guides plastic black for weld stud M6x10, number of choice catches polyamide GF black for countersunk screw M6, screw m.s. zinc-plated

Quantity rod guides and catches	2	4
	1190-U107	1190-U106
Door height 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



Rod guide with rod pictured transparent

Further parts see page
– Article description

3F-420
3F-430



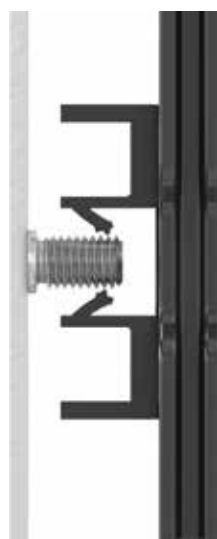
- Insert lifthandle through cut out
- Mount plastic washer and screw



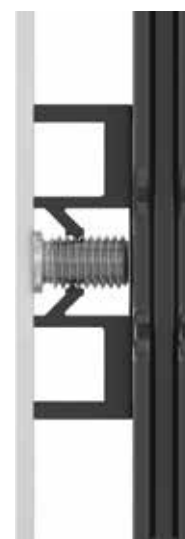
- Slide the rod guide onto the rods
- Hook in the rods

Pull-out force: $F_{min.} = 350 \text{ N}$
Application force: Typical value $F \approx 135 \text{ N}$

These values refer to threads with surface raw or zinc-plated and grease-free.

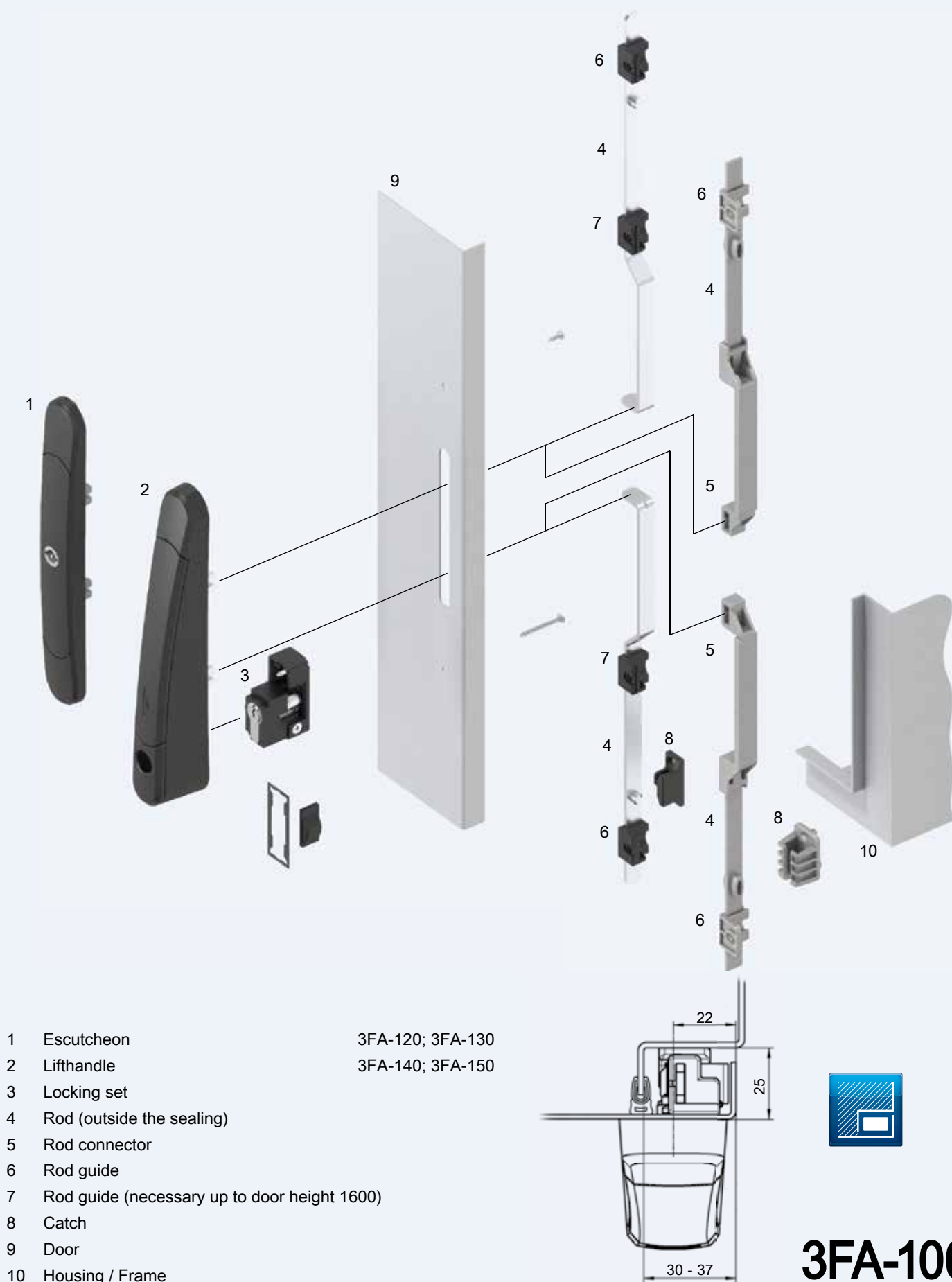


Mounting the rod guide on the welding studs



Rod guide ready mounted

Escutcheon and Lifthandle for small bending area Program 1390



3FA-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

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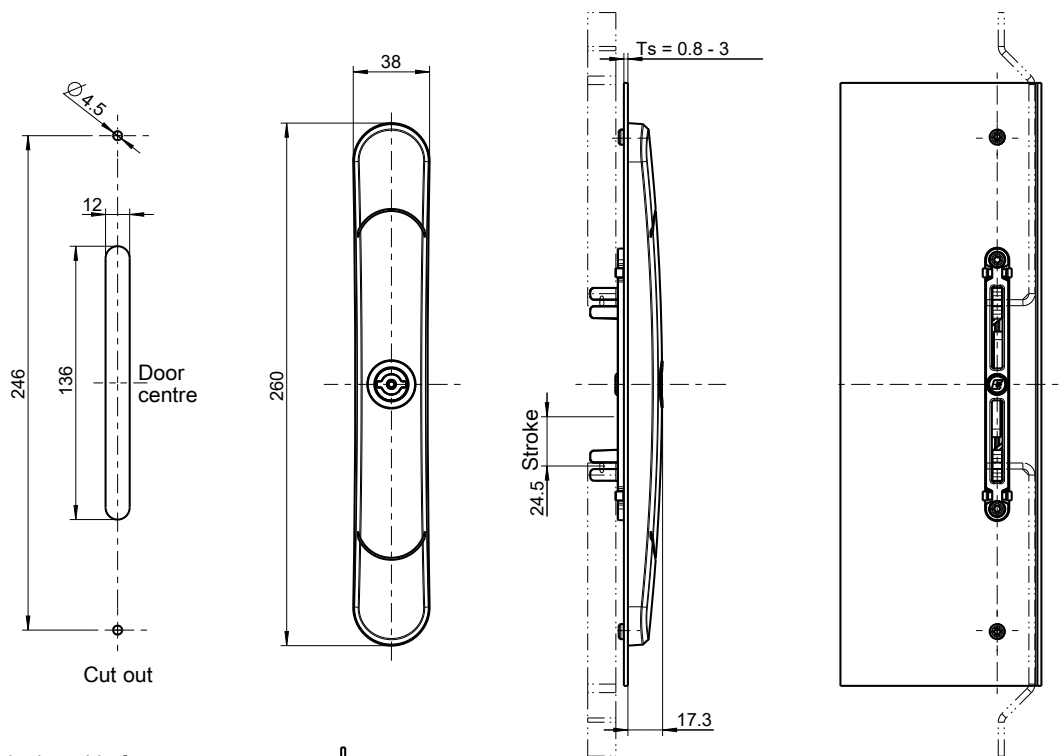
Escutcheon for bending area, variable

PROGRAM 1390



Product benefits

- Bi-directional escutcheon
- Variable positioning of the rods matching the hinge fixing
- Small cut out due to outside mechanism
- Innovative, new and low-priced technology
- Attractive design
- Allows small bending area 33 x 25 mm or 37 x 25 mm for more usable clearance
- Patented



* The values in the table for dimension A with seal refer to the seal 1011-10. With other seals, the values for dimension A differ.

** Dimension B should have the same value as the fixing dimension of the hinge bracket if the door is to be right / left and reversible.

Locking type (see right)	Dimension A	
	without seal	with seal
1	30	33
2	30	33
3	33	37

Locking types



1

Rod with cut out



2

Rod with single roller



3

Rod with double roller



1 Quarter turns

2 Rod controls

3 Locking systems

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**Escutcheon polyamide GF black; insert zinc die chrome-plated;
rack zinc die raw; fixing material m.s. zinc-plated; with spring**

Square 6	1390-U33
Double bit 3	1390-U38
Double bit 5	1390-U39

**Escutcheon polyamide GF silver grey metallic;
insert zinc die raw; rack zinc die raw; fixing material m.s. zinc-plated; with spring**

Square 6	on request
Double bit 3	1390-U38-CX
Double bit 5	on request

Rod movement is bi-directional

Note: Dimension B depending on the hinge to be used

Further parts see page
-Rod

3ZA-610

Escutcheon for smaller bending area

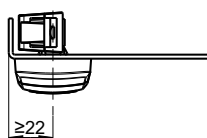
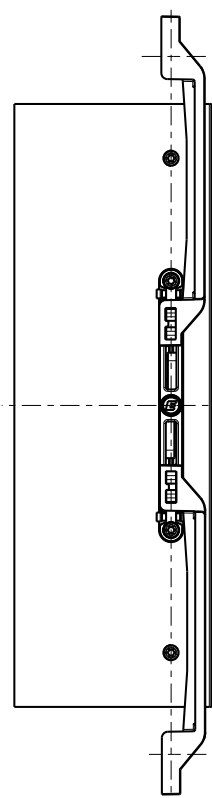
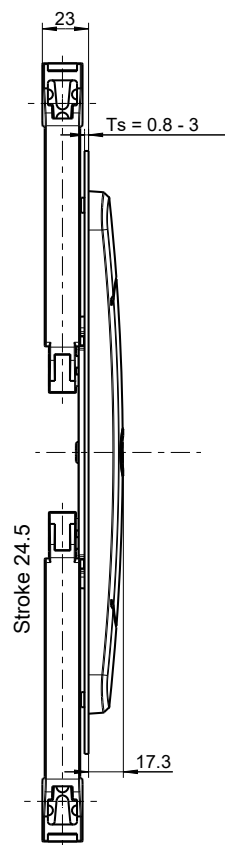
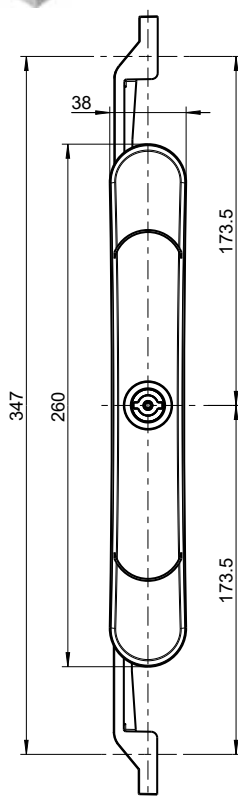
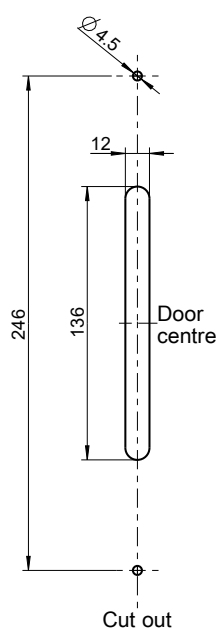
PROGRAM 1390



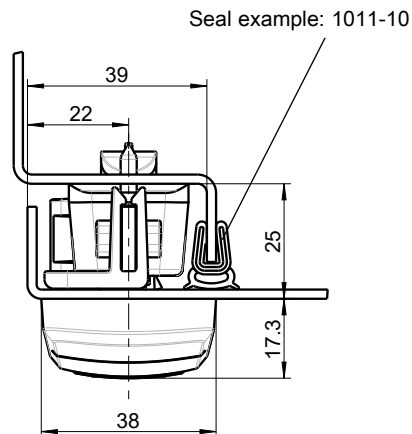
Rod connector

Product benefits

- Bi-directional escutcheon
- All common rods can be used with the rod connector
- Small cut out due to outside mechanism
- Innovative, new and low-priced technology
- Attractive design
- Patented



Latch example



**Escutcheon polyamide GF black; insert zinc die chrome-plated;
rack zinc die raw; fixing material m.s. zinc-plated; with spring**

Square 6	1390-U33
Double bit 3	1390-U38
Double bit 5	1390-U39

Rod connector polyamide GF black

Necessary for rods from catalogue page 3ZA-120 to 3ZA-340	on request
---	------------

**Escutcheon polyamide GF silver grey metallic;
insert zinc die raw; rack zinc die raw; fixing material m.s. zinc-plated; with spring**

Square 6	on request
Double bit 3	1390-U38-CX
Double bit 5	on request

Rod connector polyamide GF silver metallic

Necessary for rods from catalogue page 3ZA-120 to 3ZA-340	1121-168-CX
---	-------------

Rod movement is bi-directional

Note:
Please order 2 rod connectors
per escutcheon

Further parts see page
– Rod from 3ZA-120
to 3ZA-340

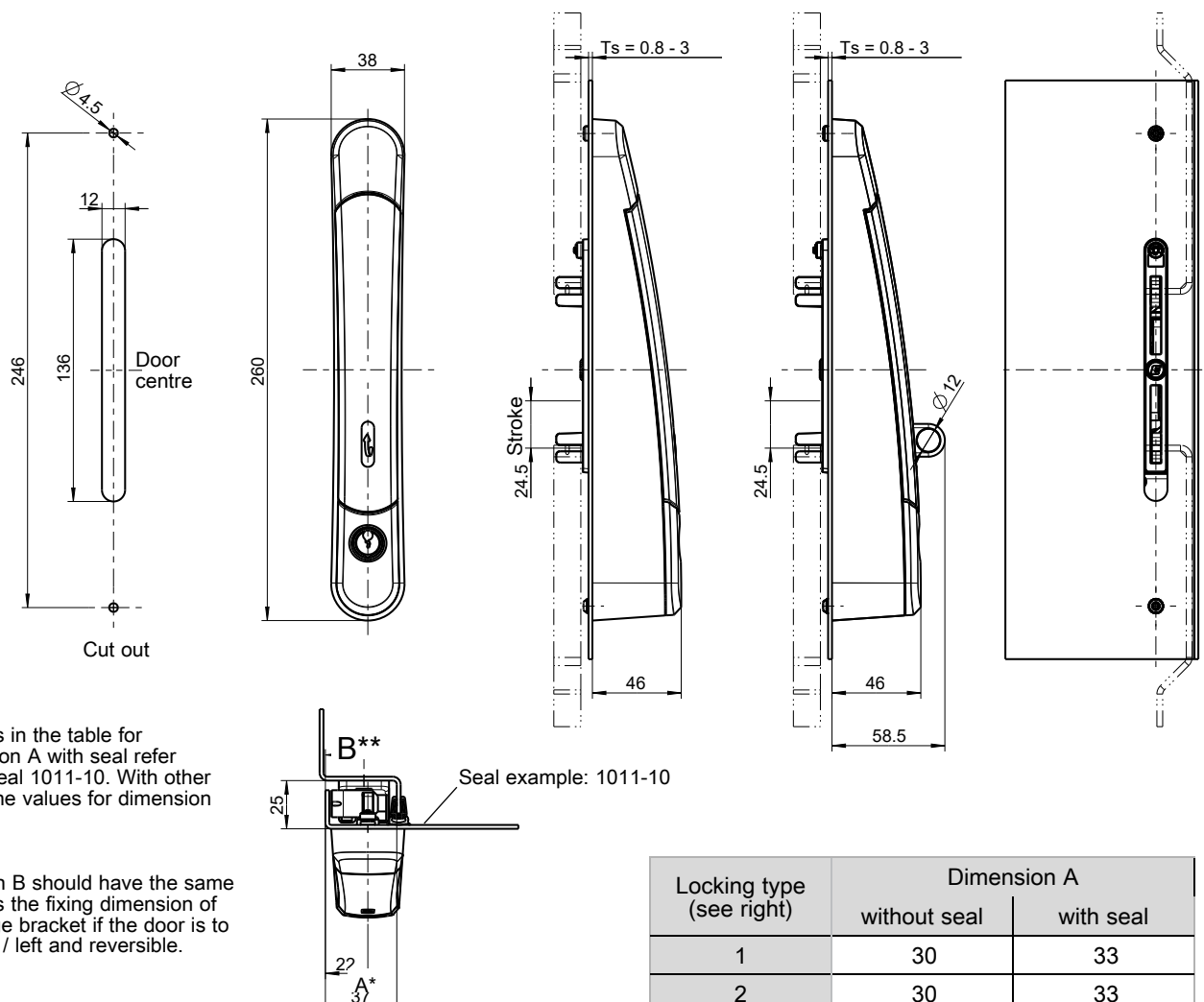
Lifthandle for small bending area, variable

PROGRAM 1390



Product benefits

- Bi-directional lifthandle
- Variable positioning of the rods matching the hinge fixing
- Small cut out due to outside handle mechanism
- Innovative, new and low-priced technology
- Attractive design
- Allows small bending area 33 x 25 mm or 37 x 25 mm for more usable clearance
- Patented



* The values in the table for dimension A with seal refer to the seal 1011-10. With other seals, the values for dimension A differ.

** Dimension B should have the same value as the fixing dimension of the hinge bracket if the door is to be right / left and reversible.

Locking type (see right)	Dimension A	
	without seal	with seal
1	30	33
2	30	33
3	33	37



Locking types



1

Rod with cut out



2

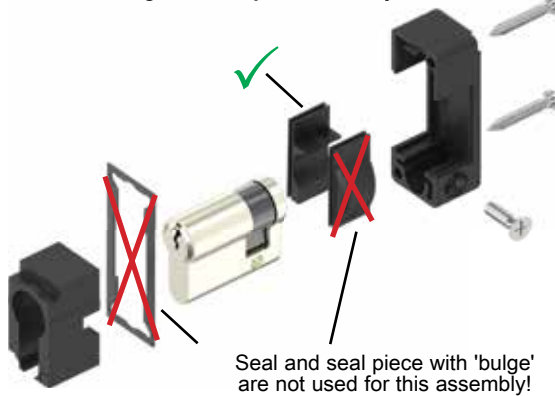
Rod with single roller



3

Rod with double roller

Note for locking set with profile half cylinder



Seal and seal piece with 'bulge' are not used for this assembly!

Lifthandle polyamide GF black; rack zinc die raw; fixing material m.s. zinc-plated; with spring

- Ⓐ for locking sets with profile half cylinder, round cylinder and insert
- Ⓑ for locking sets with push button, KABA cylinder and ASSA cylinder

Ⓐ Cover with round hole	1390-U1
Ⓐ Cover with round hole and for padlock	1390-U2
Ⓑ Cover with oval hole	1390-U3
Ⓑ Cover with oval hole and for padlock	1390-U4

Lifthandle polyamide GF silver grey metallic; rack zinc die raw; fixing material m.s. zinc-plated; with spring

- Ⓐ for locking sets with profile half cylinder, round cylinder and insert
- Ⓑ for locking sets with push button, KABA cylinder and ASSA cylinder

Ⓐ Cover with round hole	1390-U1-CX
Ⓐ Cover with round hole and for padlock	on request
Ⓑ Cover with oval hole	on request
Ⓑ Cover with oval hole and for padlock	on request

Rod movement is bi-directional

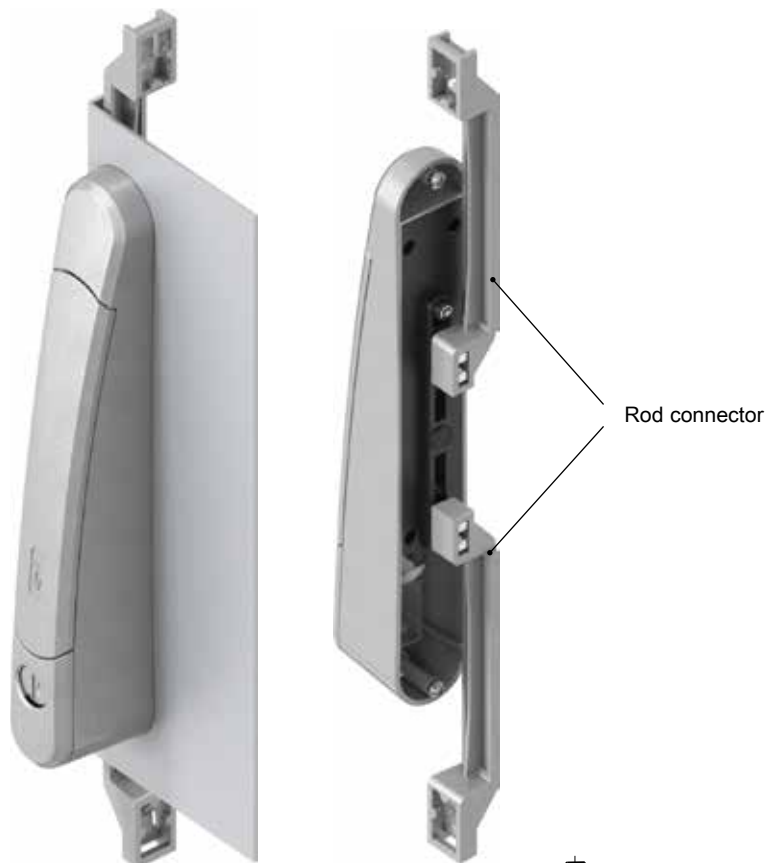
Note: Dimension B depending on the hinge to be used

Further parts see page

– Locking set	3XA-120
	3XA-140
– Rod	3ZA-610

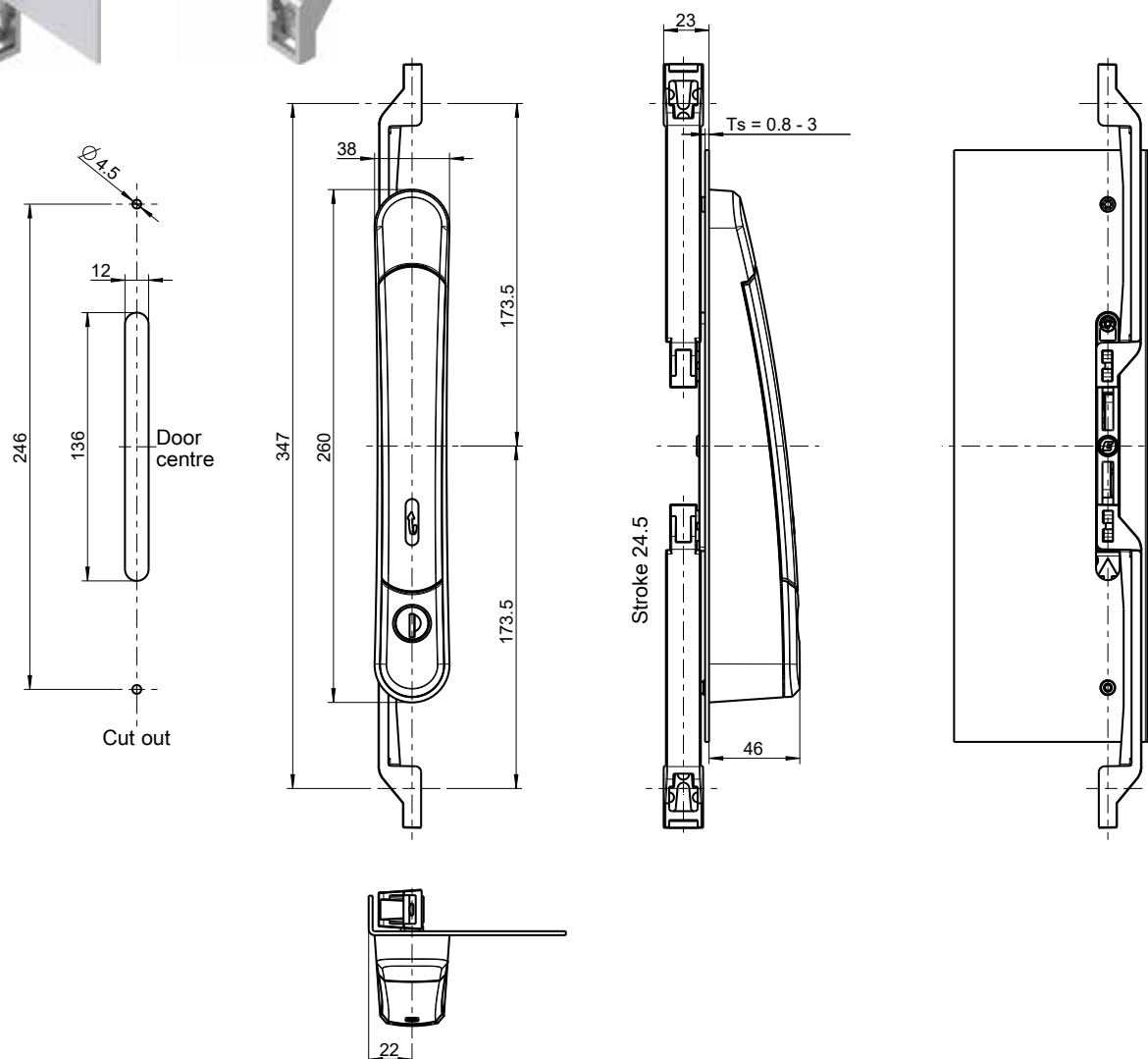
Lifthandle for smaller bending area

PROGRAM 1390



Product benefits

- Bi-directional lifthandle
- All common rods can be used with the rod connector
- Small cut out due to outside mechanism
- Innovative, new and low-priced technology
- Attractive design
- Patented

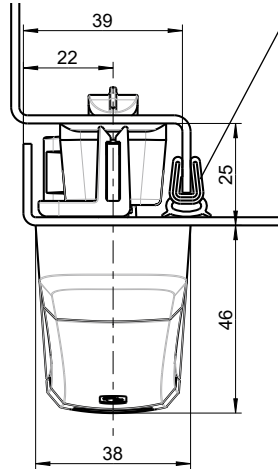




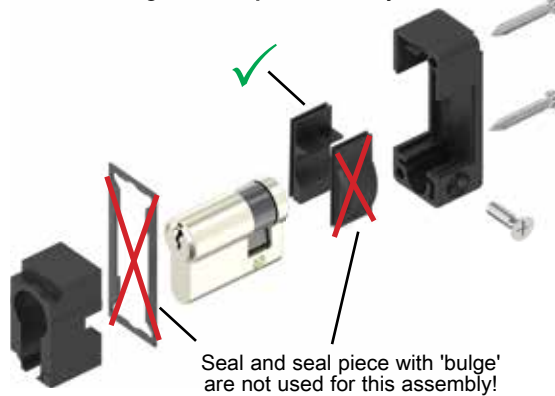
Latch example



Seal example: 1011-10



Note for locking set with profile half cylinder



Seal and seal piece with 'bulge' are not used for this assembly!



Lifthandle polyamide GF black; rack zinc die raw; fixing material m.s. zinc-plated; with spring

- Ⓐ for locking sets with profile half cylinder, round cylinder and insert
- Ⓑ for locking sets with push button, KABA cylinder and ASSA cylinder

Ⓐ Cover with round hole	1390-U1
Ⓐ Cover with round hole and for padlock	1390-U2
Ⓑ Cover with oval hole	1390-U3
Ⓑ Cover with oval hole and for padlock	1390-U4

Rod connector polyamide GF black

Necessary for rods from catalogue page 3ZA-120 to 3ZA-340	on request
---	------------

Lifthandle polyamide GF silver grey metallic; rack zinc die raw; fixing material m.s. zinc-plated; with spring

- Ⓐ for locking sets with profile half cylinder, round cylinder and insert
- Ⓑ for locking sets with push button, KABA cylinder and ASSA cylinder

Ⓐ Cover with round hole	1390-U1-CX
Ⓐ Cover with round hole and for padlock	on request
Ⓑ Cover with oval hole	on request
Ⓑ Cover with oval hole and for padlock	on request

Rod connector polyamide GF silver metallic

Necessary for rods from catalogue page 3ZA-120 to 3ZA-340	1121-168-CX
---	-------------

Rod movement is bi-directional

Note:

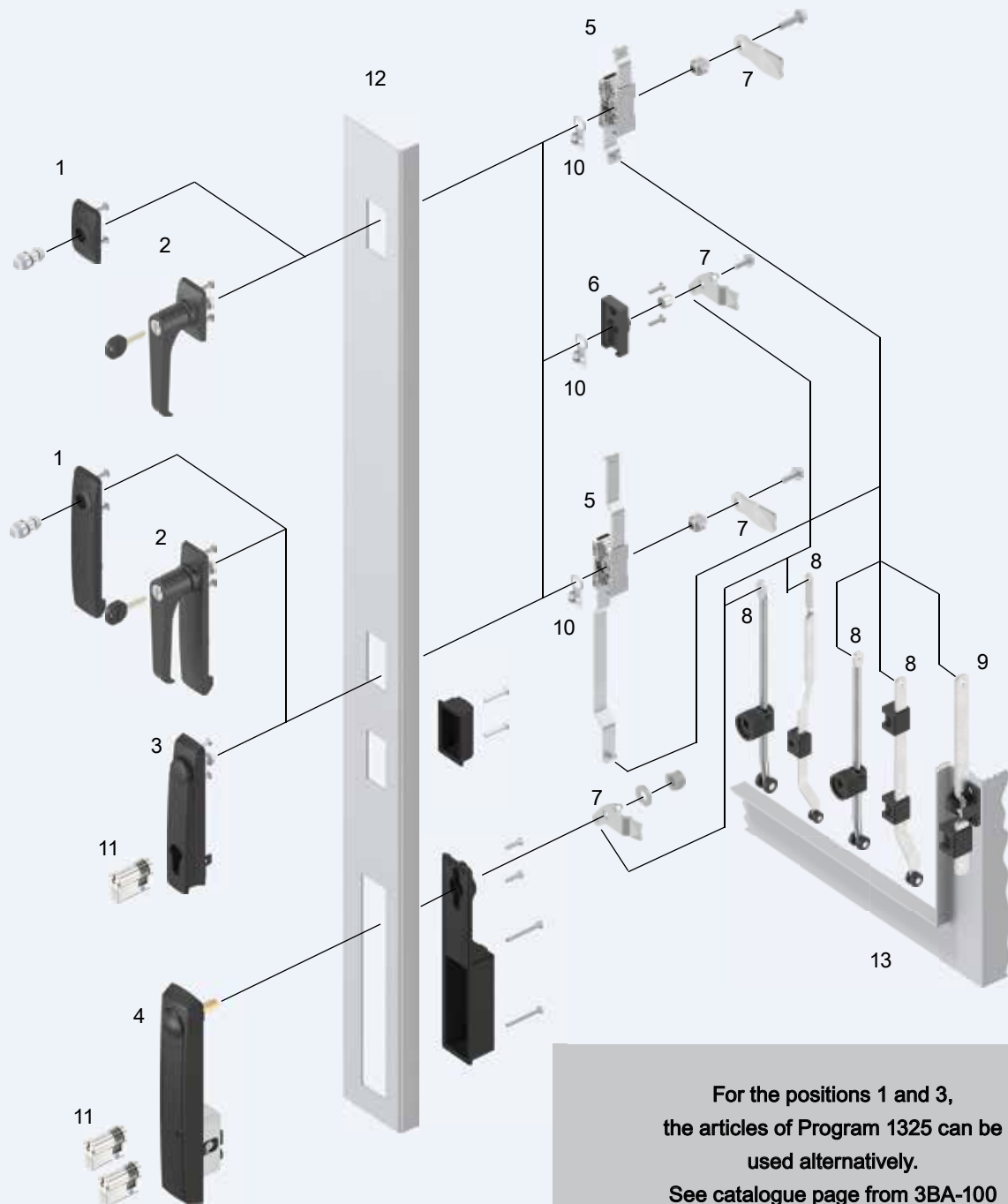
Please order 2 rod connectors per lifthandle

Further parts see page

– Locking set	3XA-120 3XA-140
– Rod	from 3ZA-120 to 3ZA-340

Info	EMKA® Beschlagteile
1 Quarter turns	Notes:
2 Rod controls	
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
9 Special catalogues	
Index	

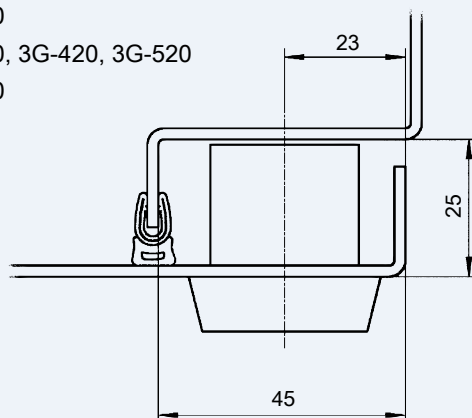
Swinghandle and Escutcheon Program 1225



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

- 1 Escutcheon 1221 with insert
- 2 Escutcheon 1223 with handle
- 3 Swinghandle
- 4 Swinghandle (double cylinder)
- 5 Rod control
- 6 Bearing bush
- 7 Cam
- 8 Rod (inside the sealing)
- 9 Rod (outside the sealing)
- 10 Grounding device
- 11 Profile half cylinder
- 12 Door
- 13 Housing / Frame

3G-120
3G-180
3G-220, 3G-420, 3G-520
3G-320



3G-100

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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Escutcheon 1221 with insert PROGRAM 1225



*** version polyamide on request**

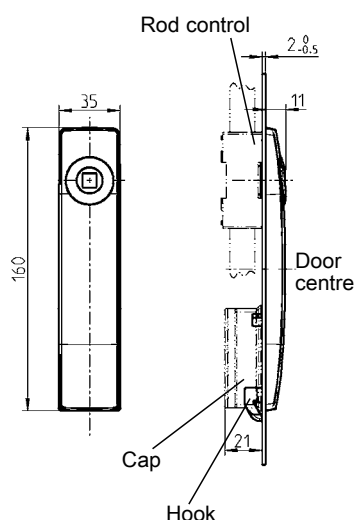
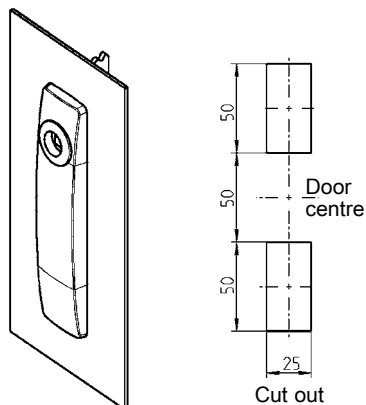
Further parts see page

- Key 8B-120
- Rod control for long version 3YA-110

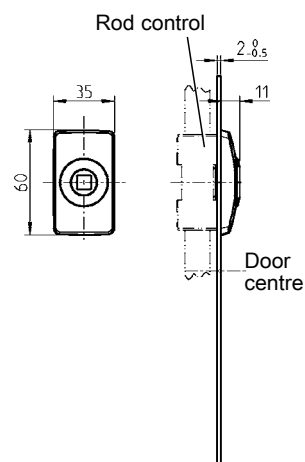
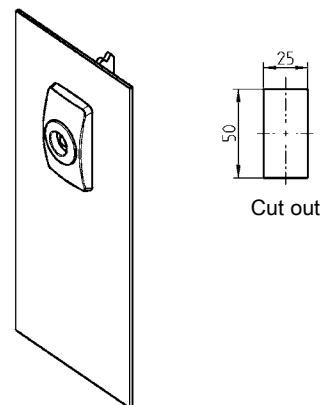
- (only with hook) 3YA-120
- short version 3YA-140

- Bearing bush 3YA-190
- 3YA-115
- 3YA-160
- 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 railway 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	Railway square 9	1121-U72
Triangular 8	1121-U15	Daimler Benz	1121-U18

Accessories

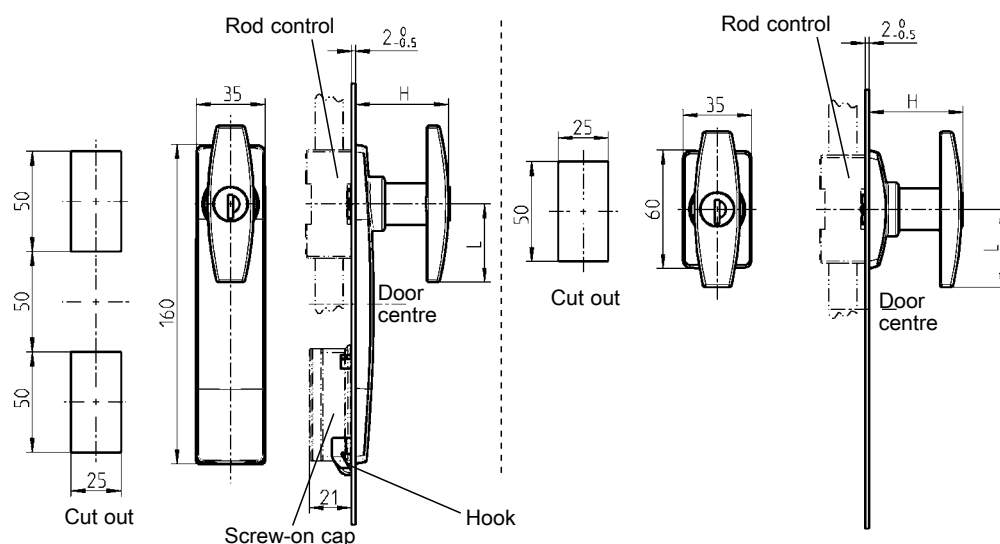
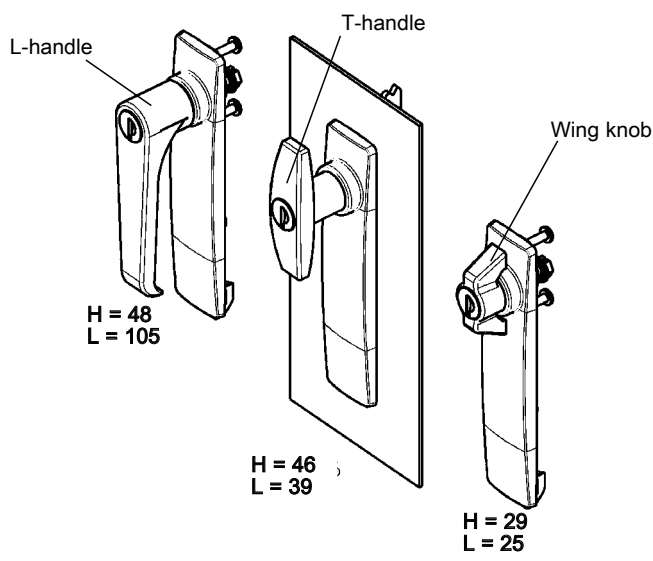


Transport safety device polyamide GF black for insert double bit

1121-32

Escutcheon 1223 with handle

PROGRAM 1225



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

Escutcheon polyamide GF black, round cylinder with stainless steel cap and shutter, fixing material m.s. zinc-plated, with seal

	Escutcheon long		Escutcheon
	Hook IP 40	Screw-on cap IP 65	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 8B-120
- Spare key 8B-140
- Rod control for long version 3YA-110
- (only with hook) 3YA-120
- short version 3YA-140
- 3YA-190
- 3YA-115
- 3YA-160
- 3YB-120
- Bearing bush 1C-340
- Dust cap for T-handle

Swinghandle

PROGRAM 1225

Example:

*(22/24 mm)

→ Dimension with cylinder cover

→ Dimension without cylinder cover

**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 Cylinder cover	without	with Cylinder cover	without
for half cylinder 40 mm *(22/24 mm)	1225-U191	1225-U190	1225-U186	1225-U185
for half cylinder 40 mm *(22/24 mm), sealable	1225-U191-01	-	1225-U186-01	-
for half cylinder 45 mm *(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 half cylinder 40 mm *(22/24 mm)	-	1225-U190-01	-	1225-U185-01
-------------------------------------	---	--------------	---	--------------

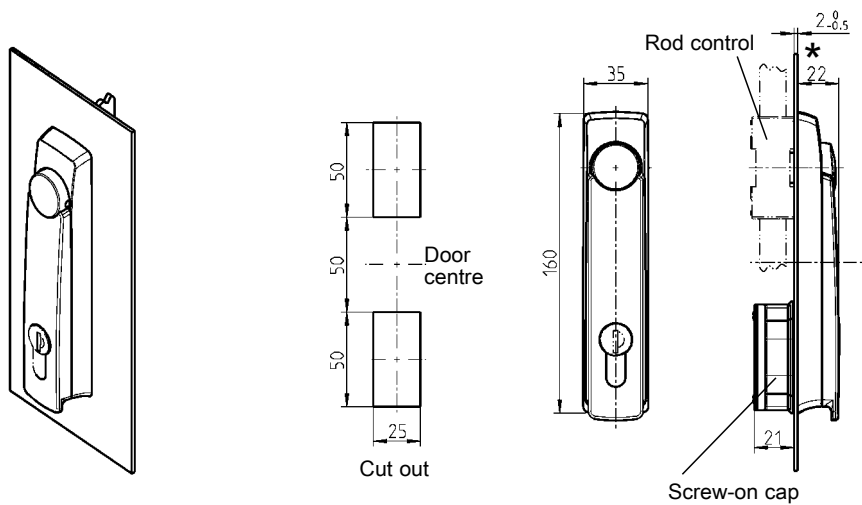
**Swinghandle polyamide GF black with EMC shielding for profile half cylinder,
shaft zinc die zinc-plated, cap matt chrome-plated. fixing material m.s. zinc-plated, with seal**

for half cylinder 40 mm *(22/24 mm)	1225-U191-E	-	-	-
-------------------------------------	-------------	---	---	---

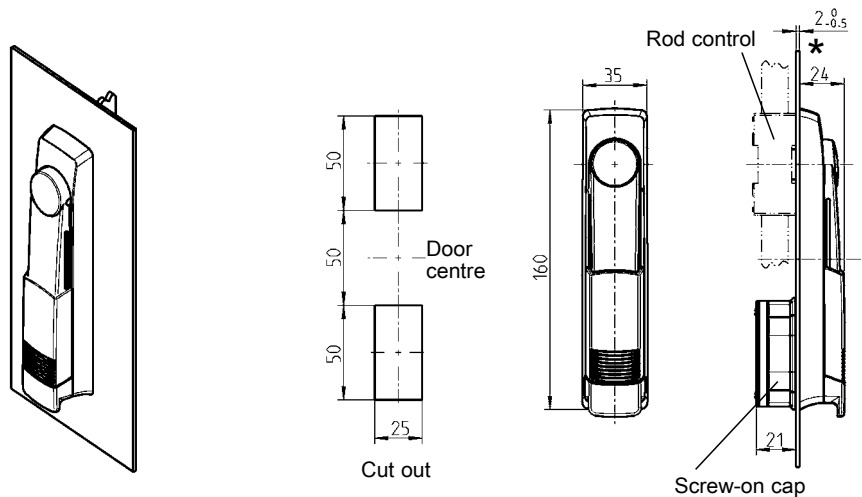
**Swinghandle polyamide GF black, with round cylinder incl. stainless steel cap and dust cap or insert m.s. zinc-plated,
shaft zinc die chrome-plated, fixing material m.s. zinc-plated, with seal.
Each round cylinder has one silver steel key with grip polyamide GF black**

	Screw-on cap		Hook	
	with Cylinder cover	without	with Cylinder cover	without
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 SW 10	1225-U251	1225-U219	on request	on request
Square female 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 2x4 ^{1) 2)}	1225-U256	1225-U224	on request	on request
Crown type	1225-U257	1225-U225	on request	on request
Eastern Europe Ø 13 half-round	1225-U282	1225-U283	on request	on request
Prepared for padlock and profile cylinder	-	1225-U184	-	on request

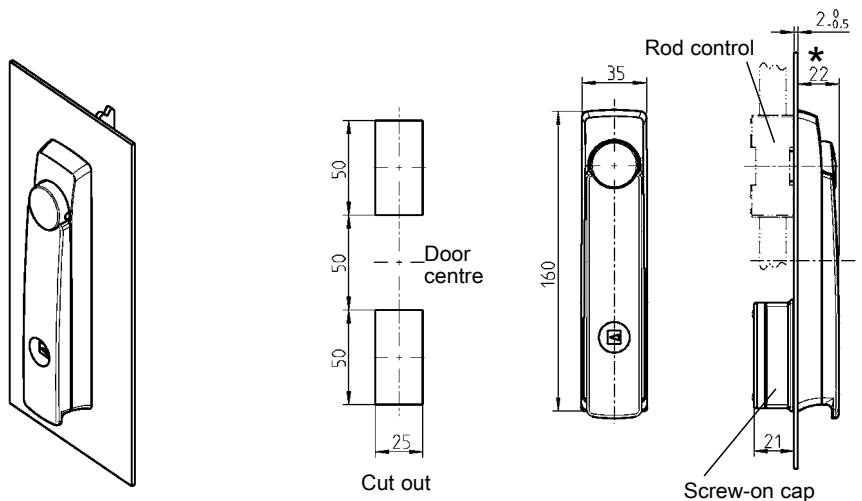
Swinghandle for profile half cylinder



Swinghandle with cover



Swinghandle with round cylinder or insert



Further parts see page

- Key 8B-120
- Rod control 3YA-110
- 3YA-120
- 3YA-140
- (only with hook) 3YA-190
- Bearing bush 3YB-120
- Profile half cylinder 3XB-120

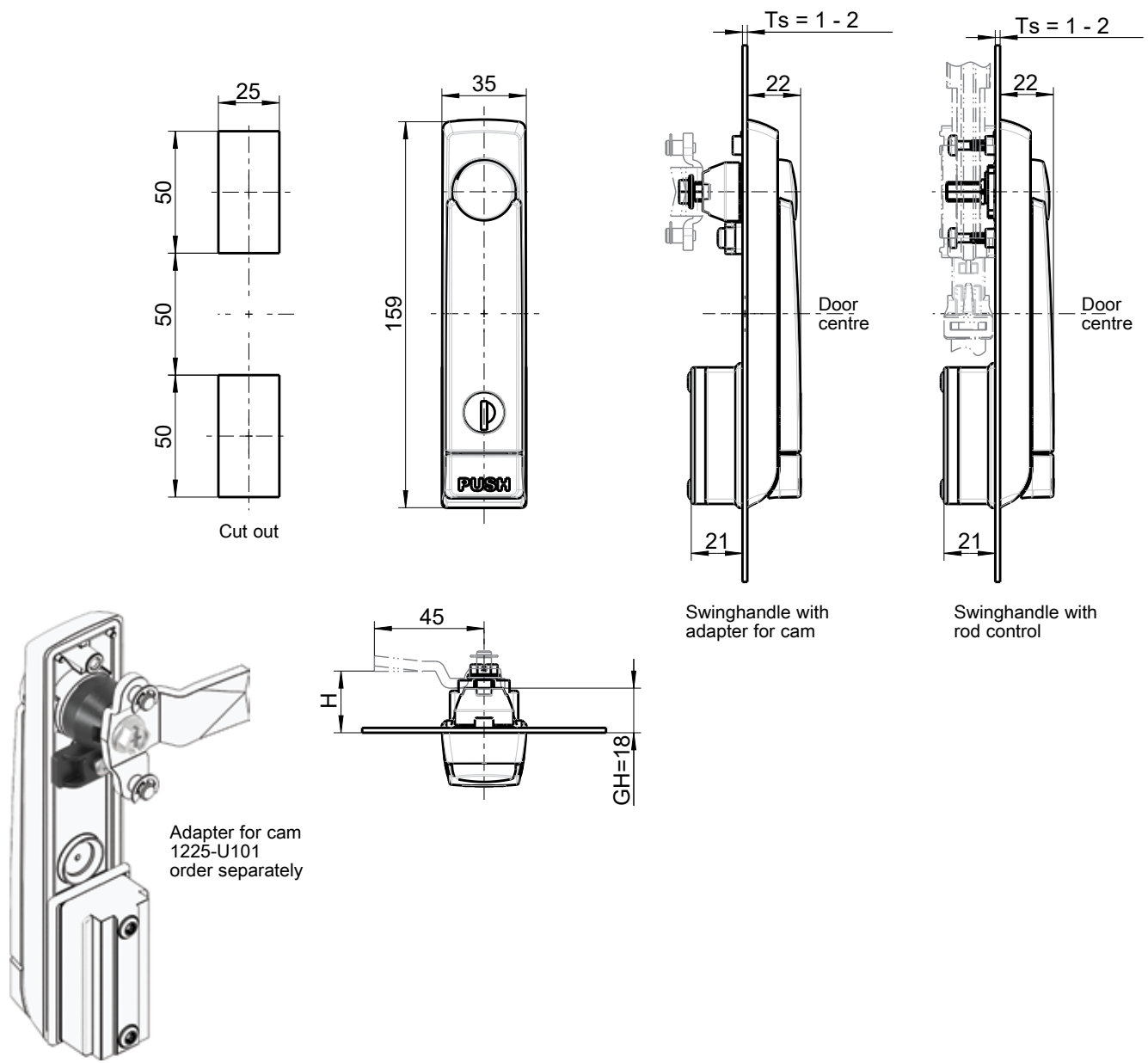
On request:

- Insert made of
 - 1) Zinc die black powder-coated
 - 2) Polyamide black
- Cap without foamed seal for small bending area
- further EMC version
- Swinghandle, sealable
- Handle made of zinc die

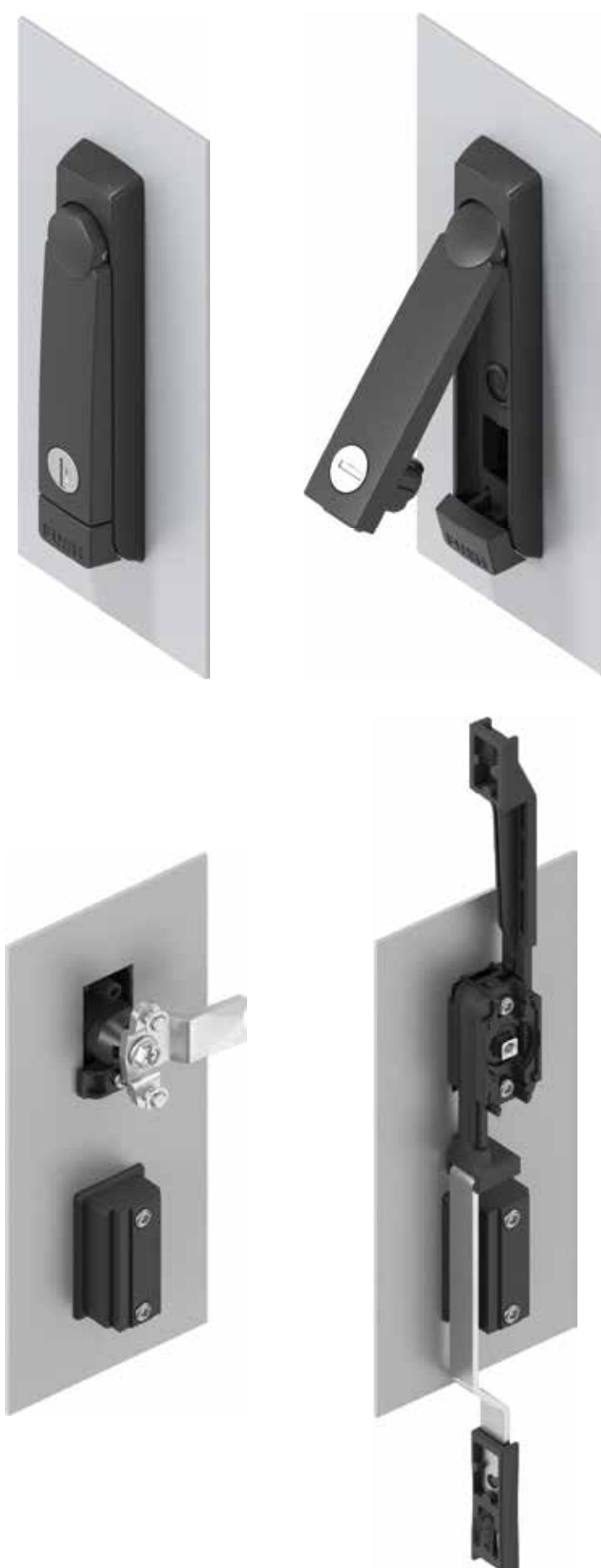
Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
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Swinghandle with push button

PROGRAM 1225



Sweinghandle with push button zinc die black powder-coated; shaft zinc die zinc-plated; fixing material m.s. zinc-plated; with spring and seal		
		Push to lock
Round cylinder keyed EK 333 Round cylinder zinc die with stainless steel cap and dust cap. Each round cylinder has one silver steel key with polyamide grip GF black.	1225-U302	on request
Round cylinder keyed different Round cylinder zinc die with stainless steel cap and dust cap. Each round cylinder has one silver steel key with polyamide grip GF black.	1225-U303	on request
Double bit 3; Zinc die chrome-plated	on request	on request
Double bit 5; Zinc die chrome-plated	1225-U339	on request
Blind (no locking system)	1225-U326	-
Prepared for padlock	on request	-
Adapter for cam PBT GF V0 black; bridge bar polyamide GF V0 black; fixing material m.s. zinc-plated		
		1225-U101



Further parts see page

- Rod control 3YA-110
- 3YA-120
- 3YA-140
- Cam for rod control (3-point latch system) 3YA-840
- Key 8B-120

On request:

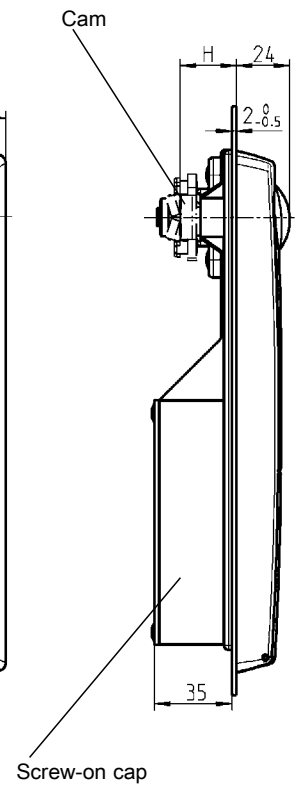
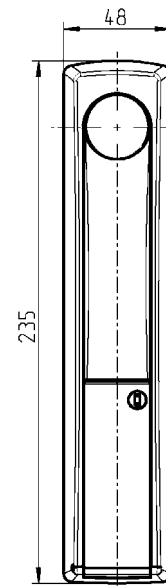
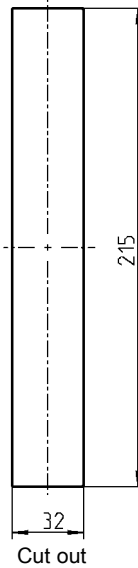
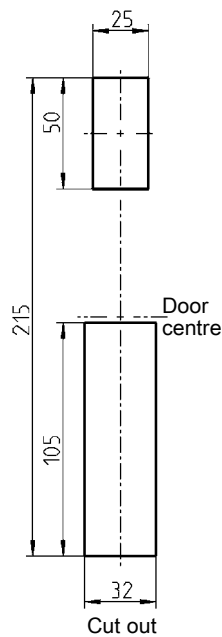
- Insert made of
- 1) Zinc die black powder-coated
- 2) Polyamide black
- Cap without foamed seal for small bending area

Double cylinder swinghandle PROGRAM 1225



KABA cylinder
Type 1514

Profile half cylinder
40 and 45



Further parts see page

- Cam 3YC-140
- Profile half cylinder 3XB-220
(only use 1089-U1 or 1089-U2)

Swinghandle and dish zinc die black powder-coated, shaft brass,
fixing material m.s. zinc-plated., with seal

Double cylinder swinghandle for profile half cylinder

1225-U60

Blind plug for using only one profile half cylinder

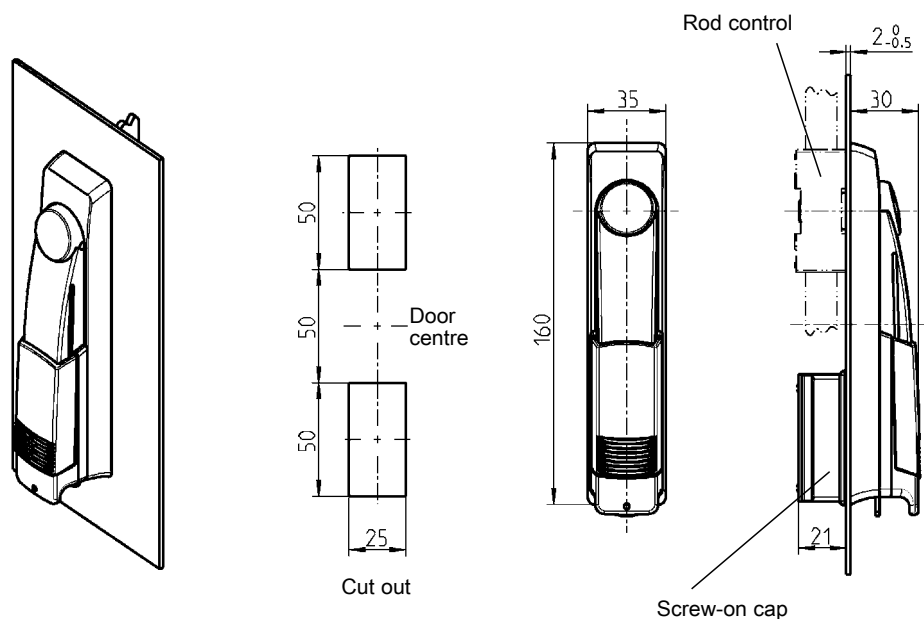
1109-09-AA

Double cylinder swinghandle for type KABA 1514

1225-U62

Swinghandle KABA and ASSA

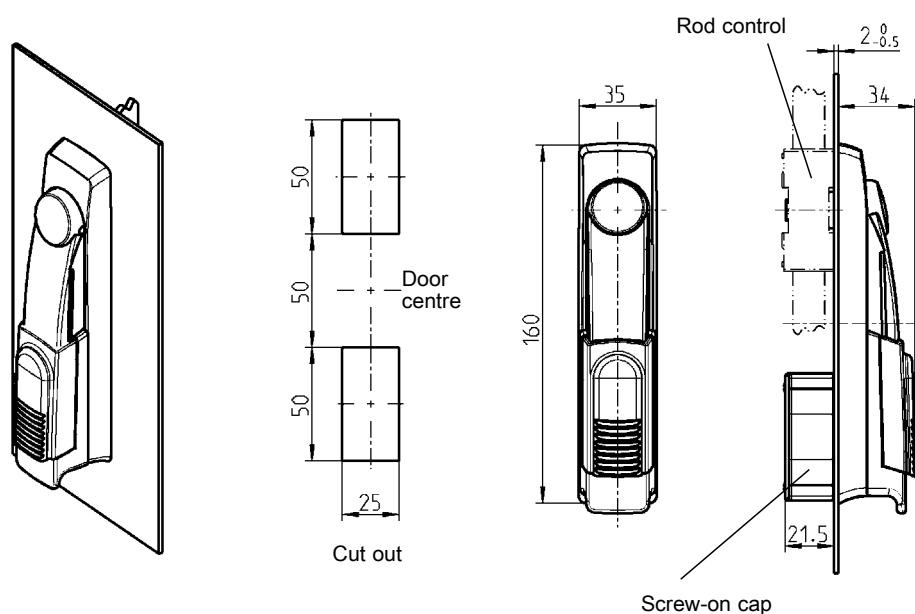
PROGRAM 1225



Attention: KABA cylinder provided by customer!

Swinghandle for KABA cylinder polyamide GF black, sealable, fixing material m.s. zinc-plated, with seal

1225-U291



Note: ASSA cylinder provided by customer!

Swinghandle for ASSA cylinder polyamide GF black, shaft zinc die zinc-plated, fixing material m.s. zinc-plated, with seal

1225-U198



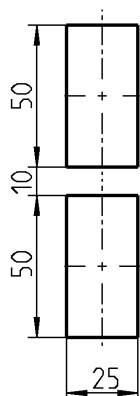
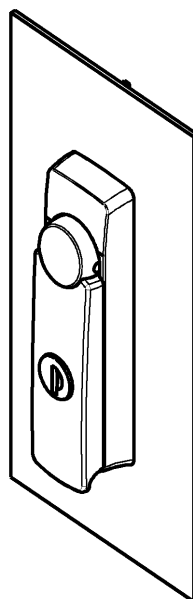
Further parts see page
– Rod control

3YA-110
3YA-120
3YA-140
3YB-120

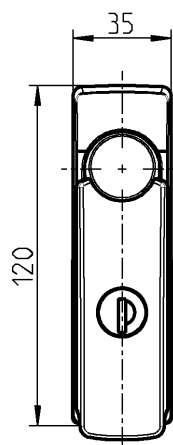
– Bearing bush

3G-420 01/13

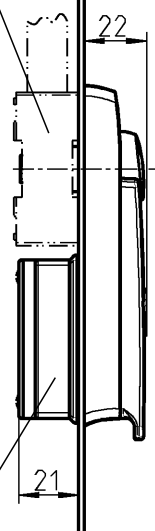
(3T-221)



Cut out



Rod control



Screw-on cap

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 8B-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

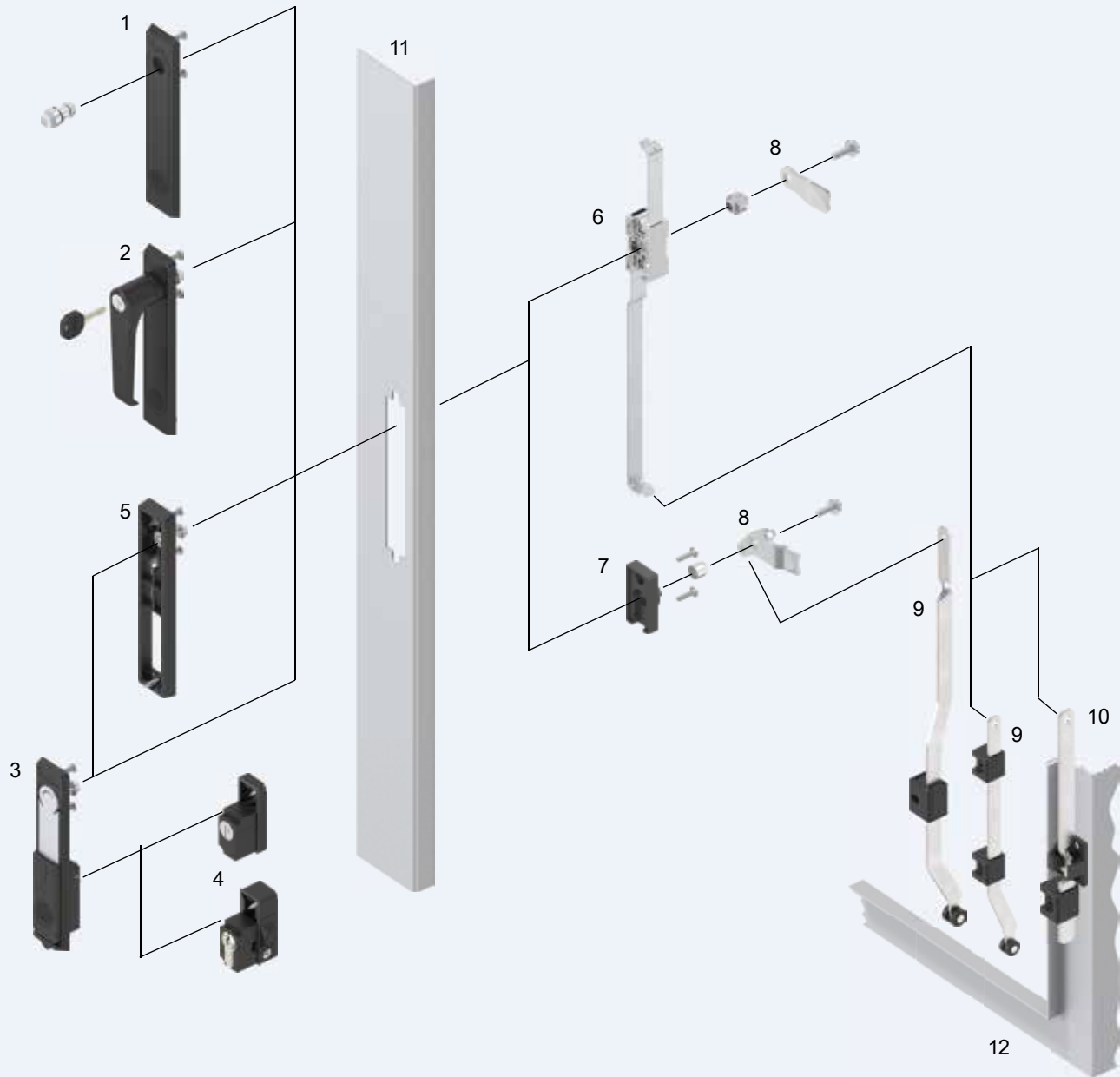
keyed different

1240-U2

3G-520

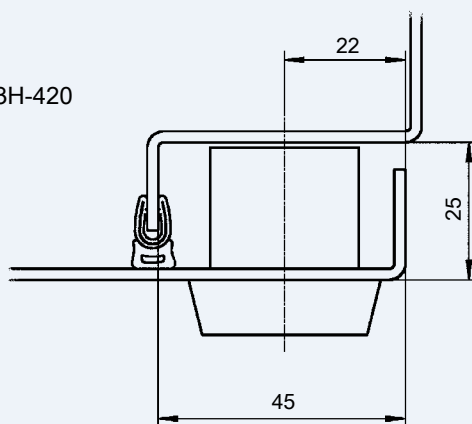
(3T-270)

Swinghandle and Escutcheon Program 2100



- 1 Escutcheon 2150 with insert
- 2 Escutcheon 2153 with handle
- 3 Swinghandle
- 4 Locking set
- 5 Adapter plate
- 6 Rod control
- 7 Bearing bush
- 8 Cam
- 9 Rod (inside the sealing)
- 10 Rod (outside the sealing)
- 11 Door
- 12 Housing / Frame

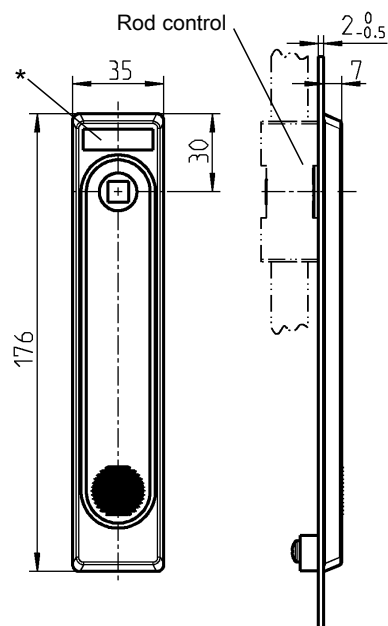
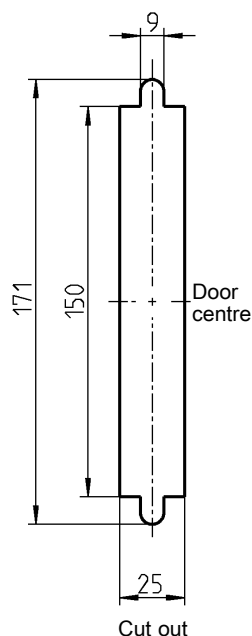
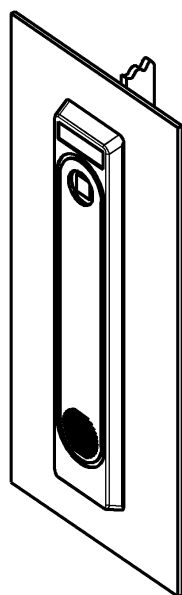
3H-120
3H-220
3H-320, 3H-420



3H-100

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
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Escutcheon 2150 with insert PROGRAM 2100



Escutcheon polyamide black, fixing screws 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-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	Daimler Benz	1121-U18
Triangular 7	1121-U14	FIAT	1121-U24
Triangular 8	1121-U15	Slot 2x4	1121-U123

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

** made of polyamide
on request

Further parts see page

- Key 8B-120
- Rod control 3YA-520
- 3YA-540
- Bearing bush 3YB-140

Accessories



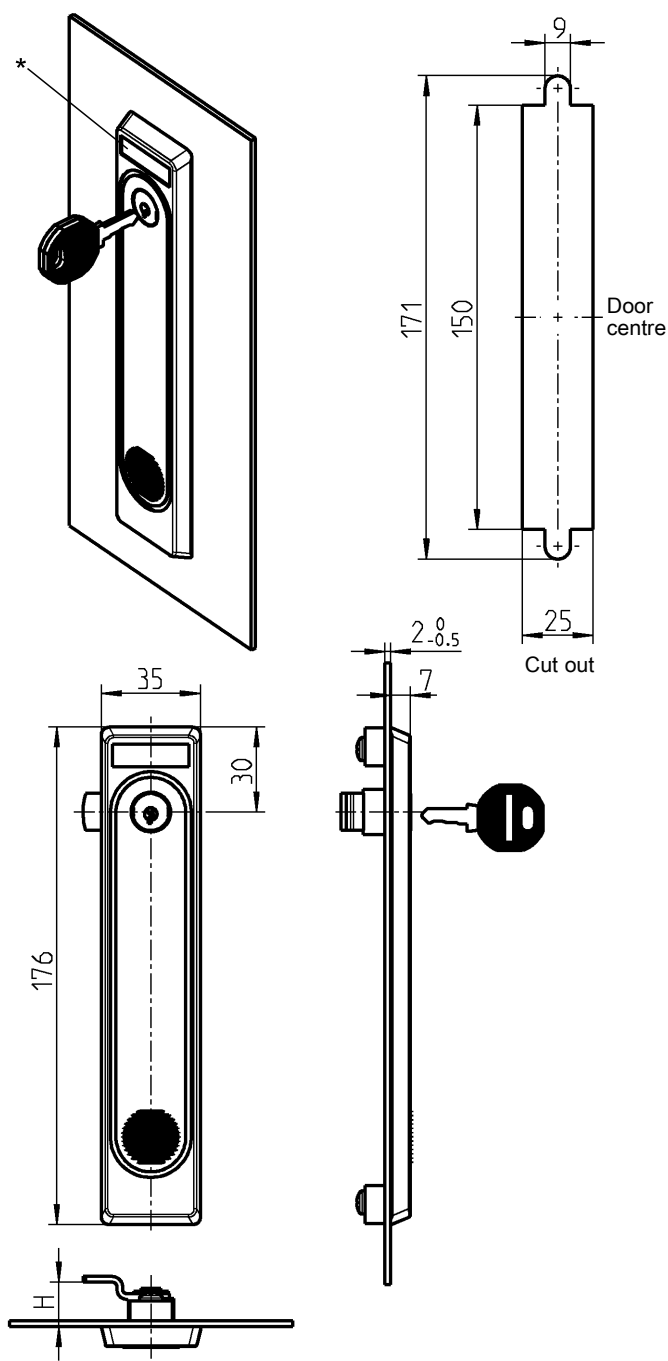
Transport safety device polyamide GF black
for insert double bit

1121-32

3H-120 11/15

(3D-140)

Escutcheon 2150
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 grip polyamide GF black

H-dimension 4	Left-hand version	Right-hand version
keyed different	2150-U4	2150-U4-01
keyed 2233X	2150-U5	2150-U5-01
H-dimension 10	Left-hand version	Right-hand version
keyed different	2150-U6	2150-U6-01
keyed 2233X	2150-U7	2150-U7-01
H-dimension 16	Left-hand version	Right-hand version
keyed different	2150-U8	2150-U8-01
keyed 2233X	2150-U9	2150-U9-01

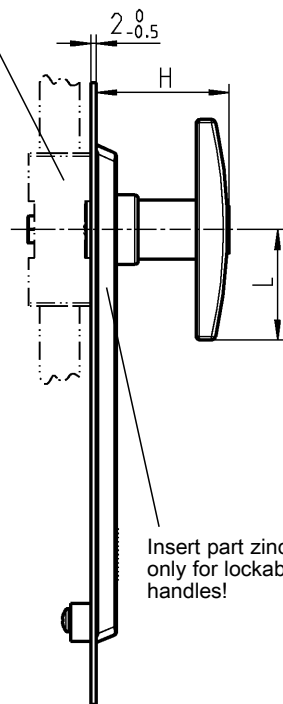
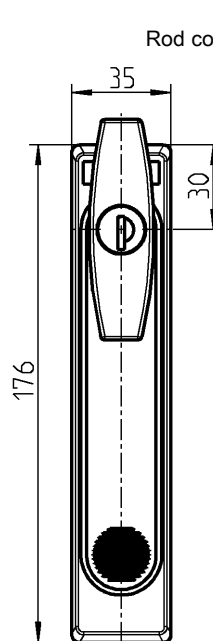
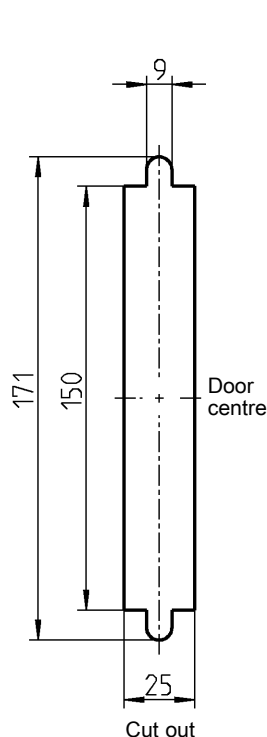
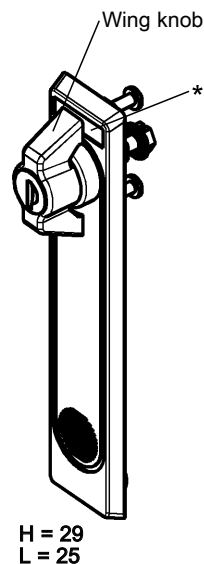
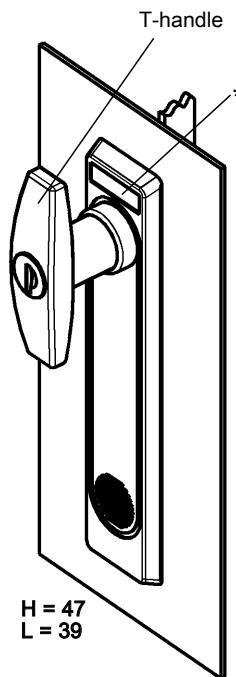
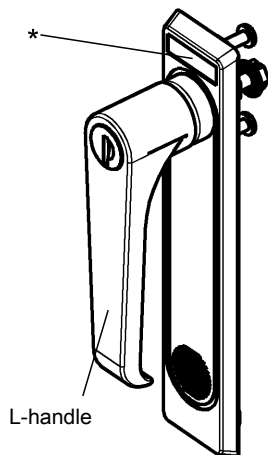
* Logo recess: 27 x 8 x 0.5
Multicolour pad print possible

Turn = 90°

Further parts see page
– Spare key 8B-140

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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Escutcheon 2153 with handle PROGRAM 2100



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

** made of polyamide
on request

Further parts see page

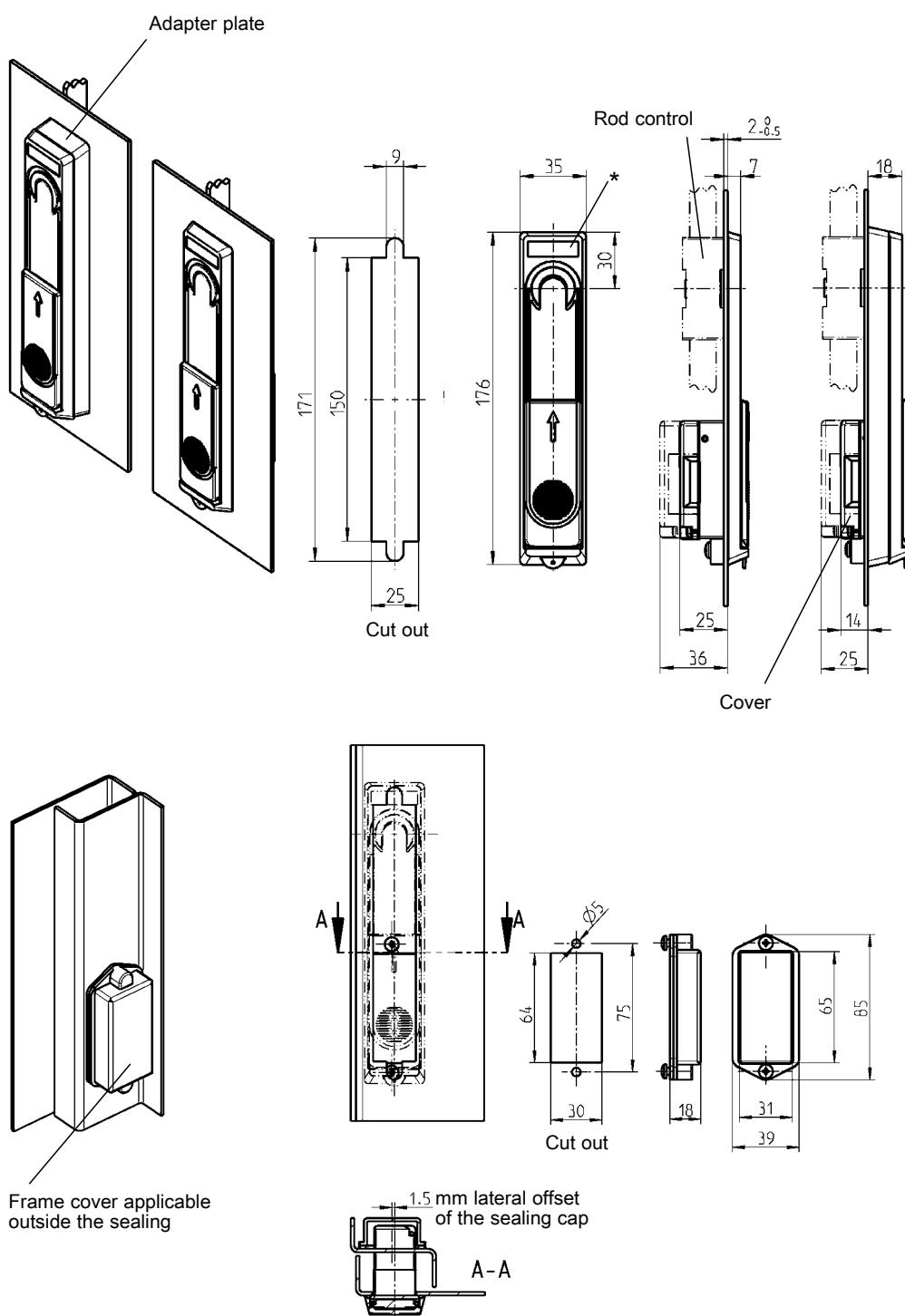
- Spare key 8B-140
- Rod control 3YA-520
- 3YA-540
- Bearing bush 3YB-140
- Dust cap for T-handle 1C-340

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 grip polyamide 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

Swinghandle PROGRAM 2100



Frame cover applicable outside the sealing

Swinghandle polyamide black, handle zinc die chrome-plated, fixing material m.s. zinc-plated, with seal

Slide cover polyamide black 2100-U1

Slide cover zinc die black powder-coated 2100-U2

Adapter plate polyamide black, adapter cast steel, fixing material m.s. zinc-plated

2100-U59

Frame cover polyamide black, fixing material m.s. zinc-plated for RH and LH version, with seal

2100-U31



Note:
Swinghandle without locking set

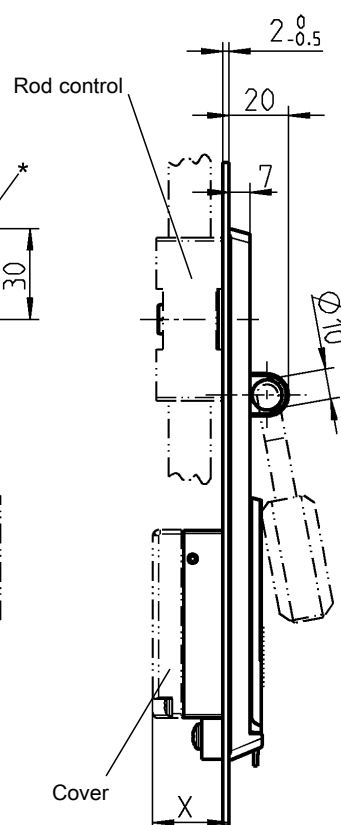
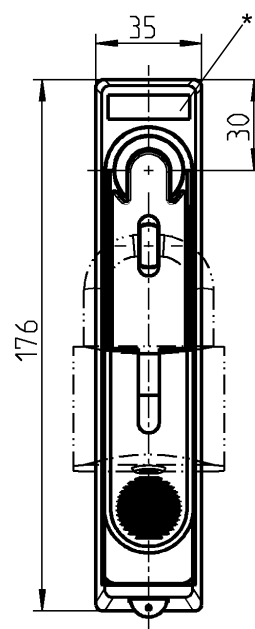
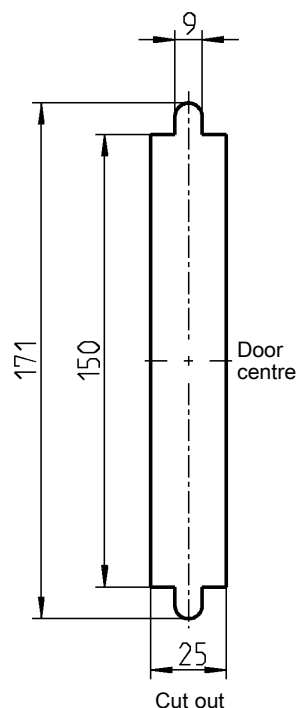
* Logo recess: 27 x 8 x 0.5
Multicolour pad print possible

Further parts see page

- Locking set 3XA-120
3XA-140
- Locking set ELM
Special catalogue Electronics
- Rod control 3YA-520
3YA-540
- Bearing bush 3YB-140

3H-320

(3D-220; 3D-240)



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

Further parts see page

- Locking set 3XA-120
3XA-140
- Locking set ELM
Special catalogue Electronics
- Rod control 3YA-520
3YA-540
- Bearing bush 3YB-140

Swinghandle polyamide GF black; handle zinc die matt chrome-plated;
slide cover zinc die black powder-coated; padlock shackle AISI 303;
fixing material m.s. zinc-plated, with seal

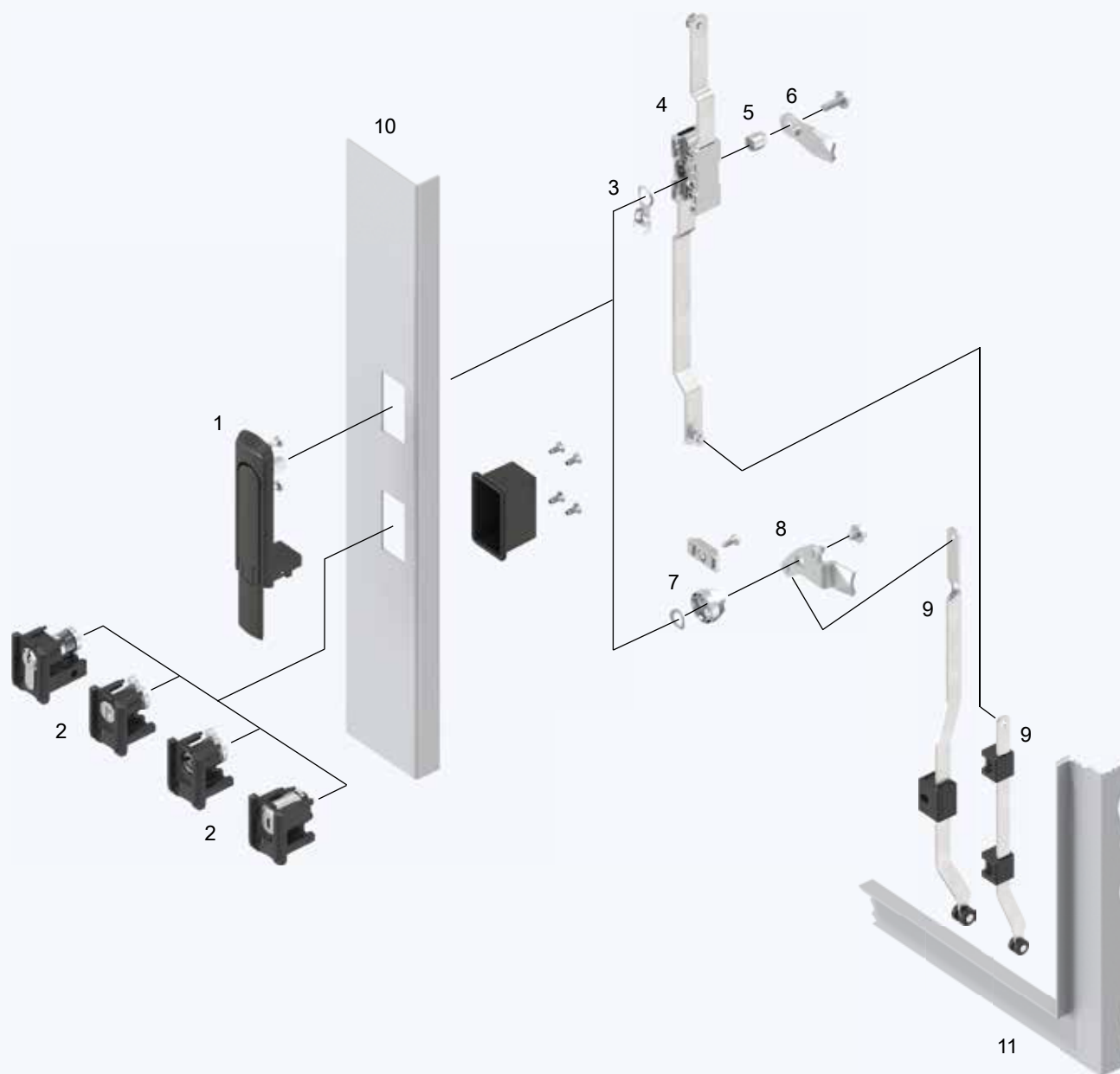
Version Ford achieved with:

Locking set square 7

2100-U9

2100-U33

Swinghandle Program 2225



- | | | |
|----|--------------------------|-----------------|
| 1 | Flat swinghandle | 3J-120 - 3J-160 |
| 2 | Locking set | 3J-120 - 3J-160 |
| 3 | Grounding device | |
| 4 | Rod control | |
| 5 | Adapter | |
| 6 | Cam | |
| 7 | Adapter for swinghandle | 3J-120 |
| 8 | Cam | |
| 9 | Rod (inside the sealing) | |
| 10 | Door | |
| 11 | Housing / Frame | |



3J-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

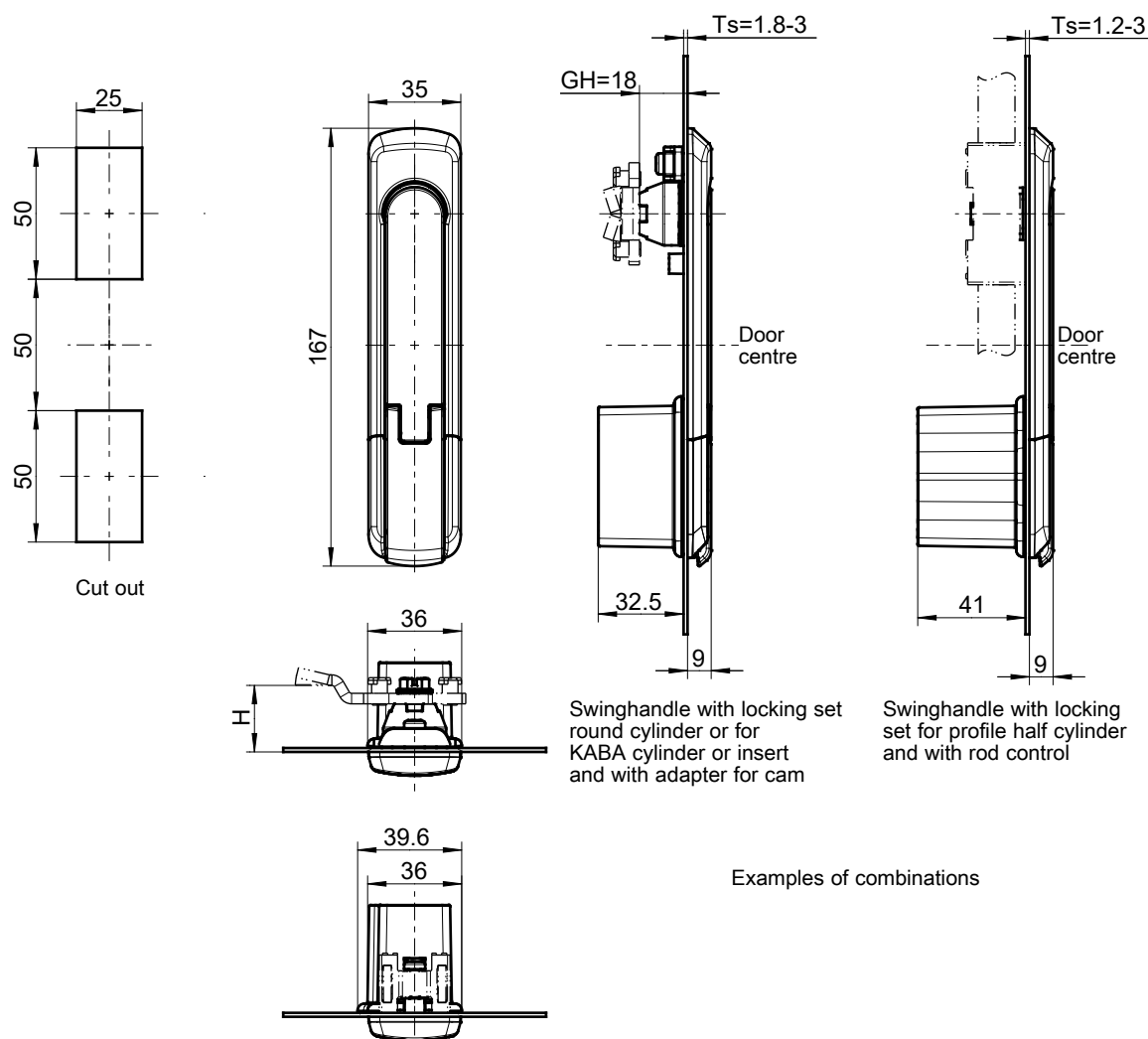
8 Miscellaneous

9 Special catalogues

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Flat swinghandle with locking set

PROGRAM 2225



Customer solution powder-coated in RAL 9006 (other colours on request) 2225-U1-BK



Easy exchange of the locking sets
By removing the two lower screws, the locking set can be easily removed to the front.

Product benefits

- Flat design
- Easy exchangable locking unit inserts (locking sets)
- Suitable for standard cut out
- Pre-assembled swinghandle and dish
- Permanent magnet holds the cylinder cover
- Integrated scratch protection prevents surface damage (handle / dish)
- Swinghandle, locking sets and adapter for cam made of zinc die
- Patented

Swinghandle for locking set and for rod control
Handle, dish and cylinder cover zinc die black powder coated;
pin AISI 303; hook zinc die zinc plated; circlip m.s. zinc plated;
shaft AISI 303; fixing material m.s. zinc plated; with spring and seal

Please order locking set separately

2225-U1

Locking set for swinghandle

Housing and cap zinc die black powder coated;
permanent magnet; fixing material m.s. zinc plated; with spring and seal

for 40 mm profile half cylinder (A = 30 mm)

2225-U11

Round cylinder keyed EK 333

Round cylinder zinc die with stainless steel cap and dust cap.

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

2225-U48

Round cylinder keyed different

Round cylinder zinc die with stainless steel cap and dust cap.

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

2225-U49

Double bit 3; Zinc die chrome-plated

2225-U50

for KABA cylinder type 1036 (provided by customer)

2225-U54

Push button; zinc die black powder-coated

2225-U57

Insert railway; Zinc die chrome-plated

2225-U60

Adapter for cam

90° Stopper zinc die zinc-plated; bridge AISI 316; fixing material m.s. zinc-plated

2225-U101

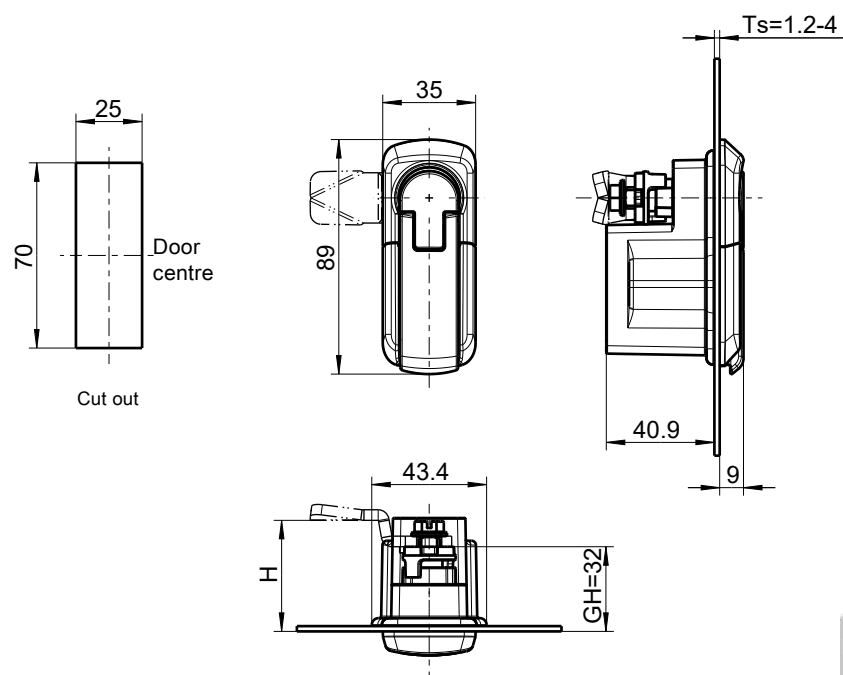
Multicolour pad printing possible

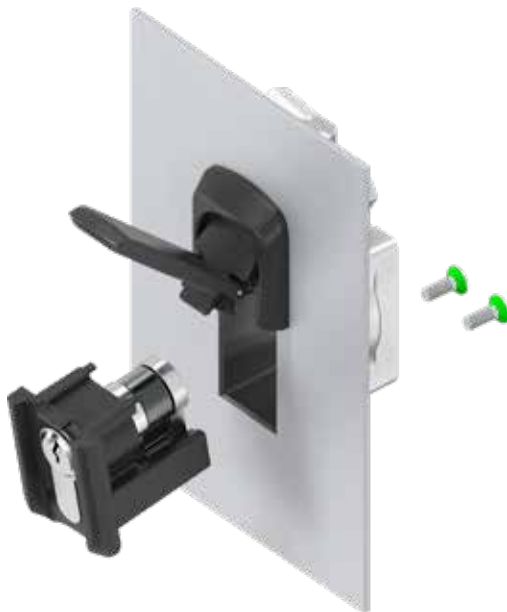
Further parts see page

- Profile half cylinder 3XB-320
- Cams (for adapter) 3YC-120
- Rod control 3YA-110
- 3YA-120
- 3YA-140
- Cam for rod control (3-point latch system) 3YA-840

Flat swinghandle short with locking set

PROGRAM 2225





Easy exchange of the locking sets
By removing the two lower screws,
the locking set can be easily removed
to the front.

Product benefits

- Flat design
- Easy exchangeable locking unit inserts (locking sets)
- Suitable for standard cut out
- Pre-assembled swinghandle and dish
- Permanent magnet holds the cylinder cover
- Integrated scratch protection prevents surface damage (handle / dish)
- Swinghandle, locking sets and adapter for cam made of zinc die
- Patented

Swinghandle and cap for locking set and cam

Handle, dish and cylinder cover zinc die black powder-coated;
pin AISI 303; hook zinc die zinc-plated; circlip m.s. zinc-plated;
shaft AISI 303; with spring and seal

Cap and adapter zinc die zinc-plated; fixing material and
locking screw m.s. zinc-plated; with foamed seal

Please order locking set separately

2225-U2

Locking set (for short swinghandle)

Housing zinc die black powder-coated; permanent magnet;
fixing material m.s. zinc-plated; with spring and seal

for 40 mm profile half cylinder (A = 30 mm)

2225-U11-01

Round cylinder keyed EK 333

Round cylinder zinc die with stainless steel cap and dust cap.
Each round cylinder has one silver steel key with polyamide grip GF black.

2225-U48-01

Round cylinder keyed different

Round cylinder zinc die with stainless steel cap and dust cap.
Each round cylinder has one silver steel key with polyamide grip GF black.

2225-U49-01

for KABA cylinder type 1036 (provided by customer)

2225-U54-01

Double bit 3; Zinc die chrome-plated

2225-U50-01

Push button

2225-U57-01

Insert railway; Zinc die chrome-plated

2225-U60-01



Multicolour pad printing
possible

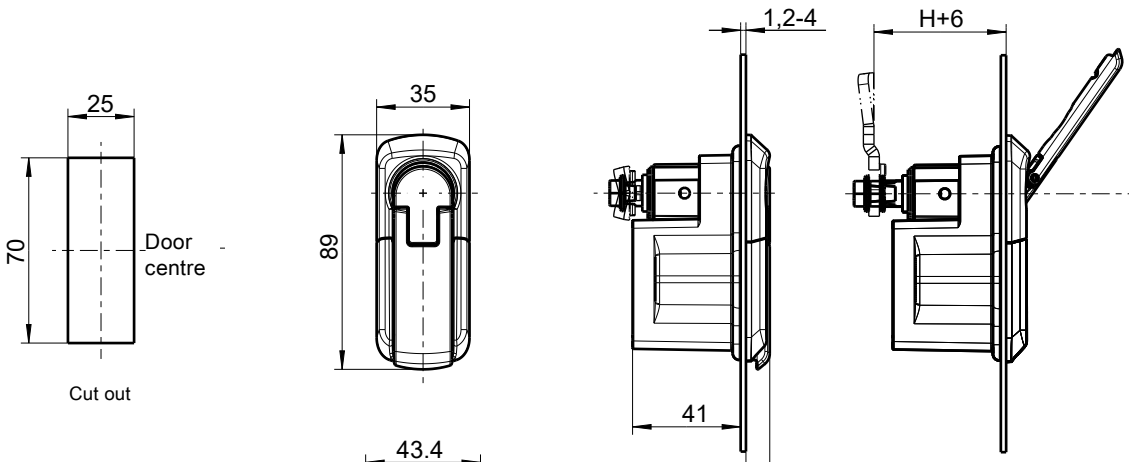
Further door thicknesses
on request

Further parts see page

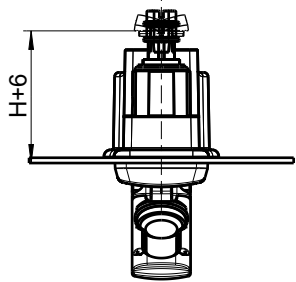
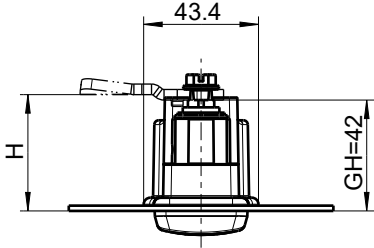
– Profile half cylinder 3XB-320
– Cams (GH = 32) 1C-120

Flat swinghandle short with locking set with compression function

PROGRAM 2225



RH-version shown





Easy exchange of the locking sets
By removing the two lower screws,
the locking set can be easily removed
to the front.

Product benefits

- Flat design
- Easy exchangeable locking unit inserts (locking sets)
- Suitable for standard cut out
- Pre-assembled swinghandle and dish
- Permanent magnet holds the cylinder cover
- Integrated scratch protection prevents surface damage (handle / dish)
- Swinghandle, locking sets and adapter for cam made of zinc die
- Patented

Swinghandle and cap with compression function for locking set and cam

Handle, dish and cylinder cover zinc die black powder-coated;
pin AISI 303; hook zinc die zinc-plated; circlip m.s. zinc-plated;
shaft AISI 303; with spring and seal

Cap and locking shaft zinc die zinc-plated; fixing material and
locking screw m.s. zinc-plated; with foamed seal

for door version	Left	Right
Please order locking set separately	2225-U3-LI	2225-U3-RE
Locking set (for short swinghandle)		
Housing zinc die black powder-coated; permanent magnet; fixing material m.s. zinc-plated; with spring and seal		
for 40 mm profile half cylinder (A = 30 mm)	2225-U11-01	
Round cylinder keyed EK 333 Round cylinder zinc die with stainless steel cap and dust cap. Each round cylinder has one silver steel key with polyamide grip GF black.	2225-U48-01	
Round cylinder keyed different Round cylinder zinc die with stainless steel cap and dust cap. Each round cylinder has one silver steel key with polyamide grip GF black.	2225-U49-01	
for KABA cylinder type 1036 (provided by customer)	2225-U54-01	
Double bit 3; Zinc die chrome-plated	2225-U50-01	
Push button	2225-U57-01	
Insert railway; Zinc die chrome-plated	2225-U60-01	



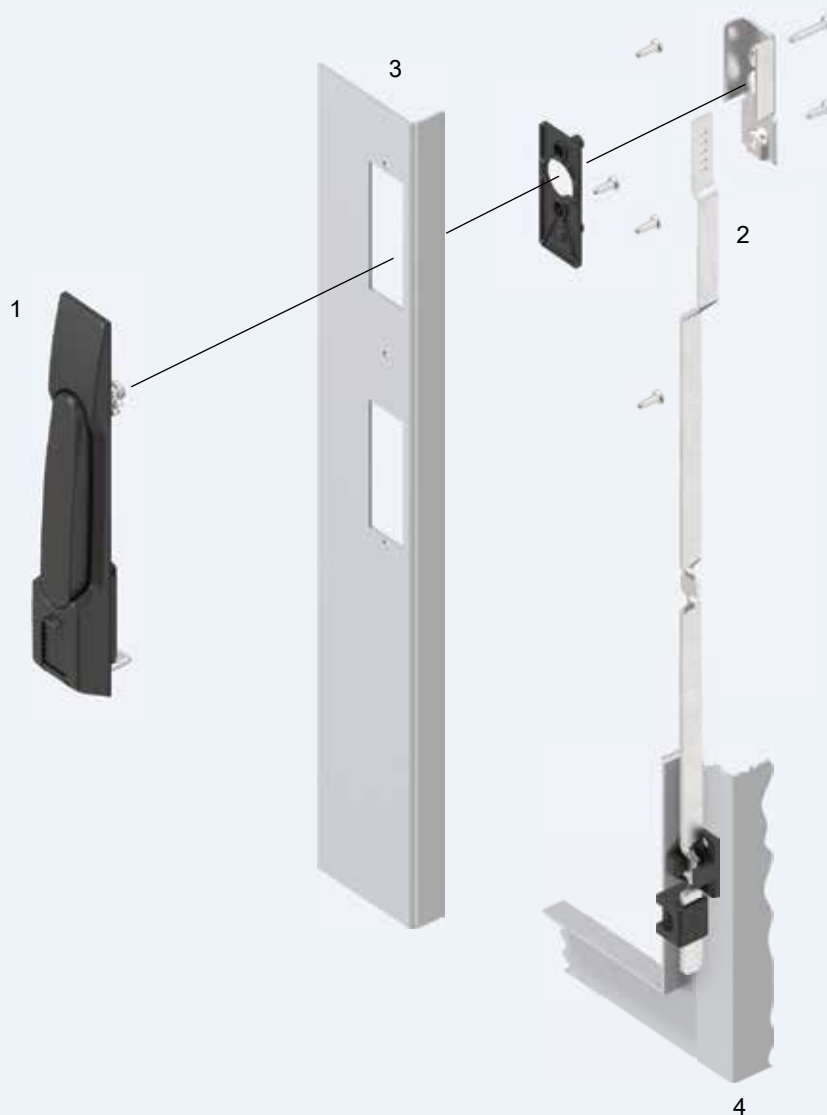
Multicolour pad printing
possible

Further door thicknesses
on request

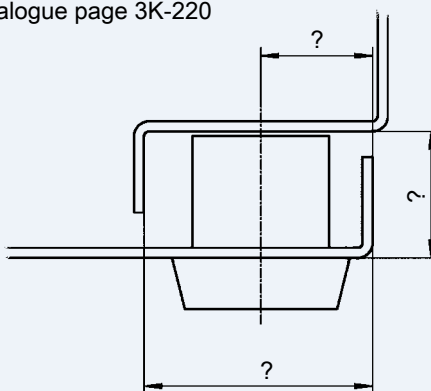
Further parts see page
– Profile half cylinder 3XB-320
– Cams (GH = 42) 1C-120

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4 Hinges	
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Swinghandle Program 2400



Dimensions for door return
to 1 = see catalogue page 3K-220



- 1 Swinghandle
- 2 Rod
- 3 Door
- 4 Housing / Frame

3K-220



3K-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

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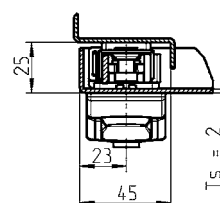
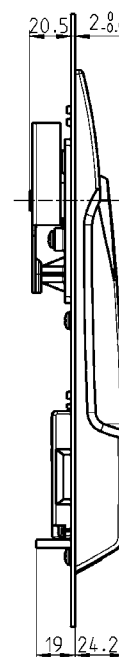
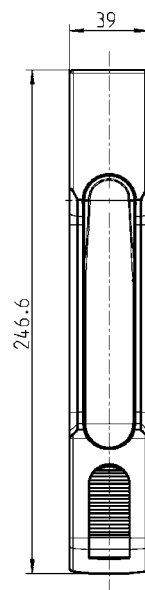
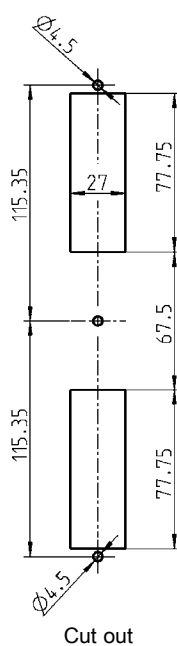
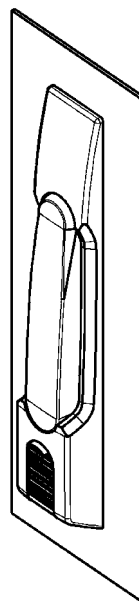
Multicolour pad printing possible

Further parts see page

- Locking set 3XA-120
- without push button 3XA-140
- with push button 3XA-240
- Locking set ELM
- Special catalogue Electronics on request
- Rod

3K-220 01/19

(3N-260)



Bending area

Turn = Stroke
90° = 16 mm

**Swinghandle with push button (2100-U56) polyamide GF black,
lock zinc die, fixing material m.s. zinc-plated, with seal**

with push button

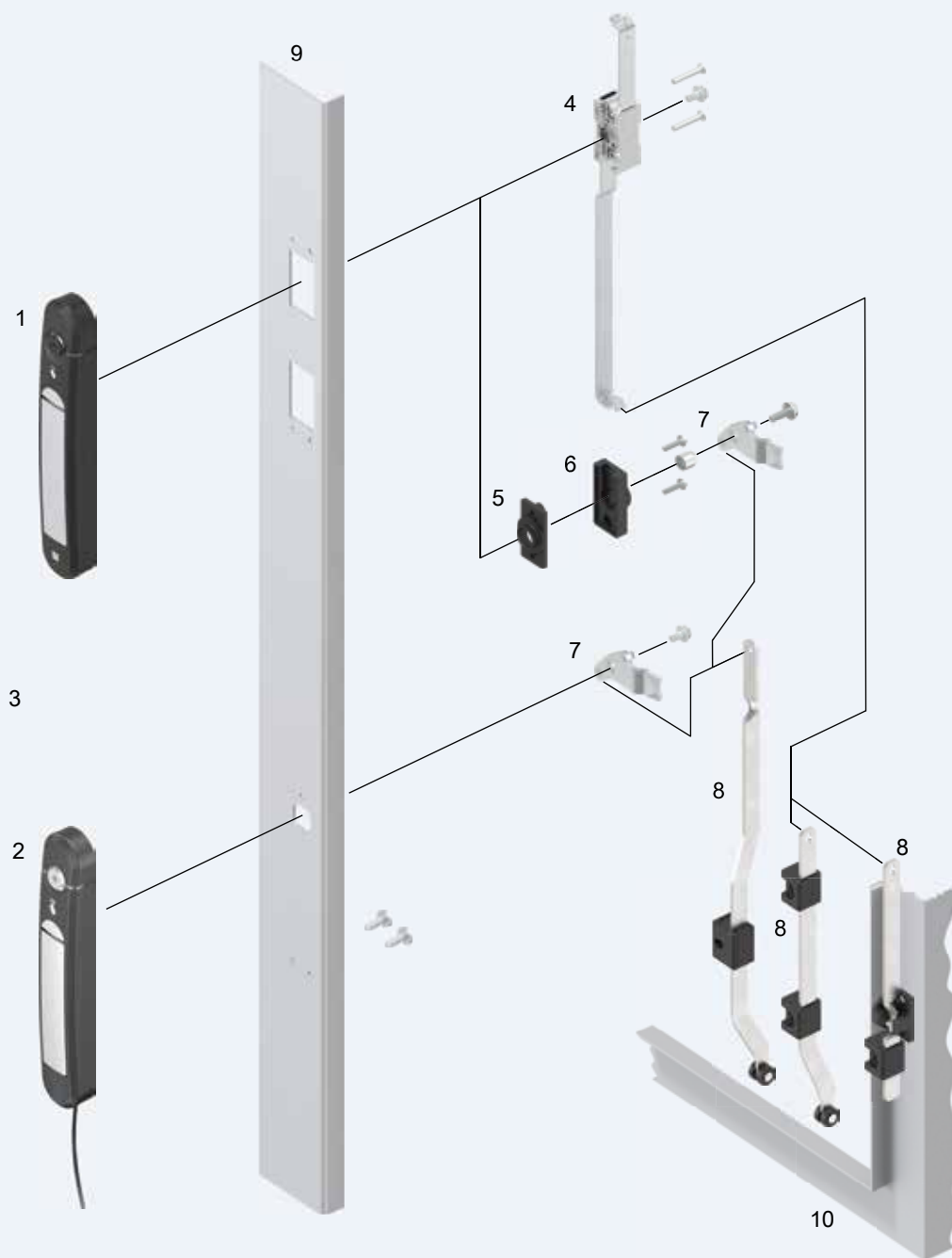
2400-U3

without push button

2400-U4

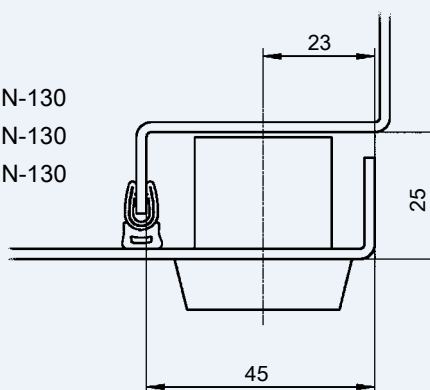
Swinghandle *AGENT E*

Program 3000



- 1 Swinghandle for rod control or bearing bush
- 2 Swinghandle with quarter turn for cam
- 3 RFID Card
- 4 Rod control
- 5 Adapter plate for bearing bush
- 6 Bearing bush
- 7 Cam
- 8 Rod
- 9 Door
- 10 Housing / Frame

3N-110 to 3N-130
3N-110 to 3N-130
3N-110 to 3N-130



3N-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

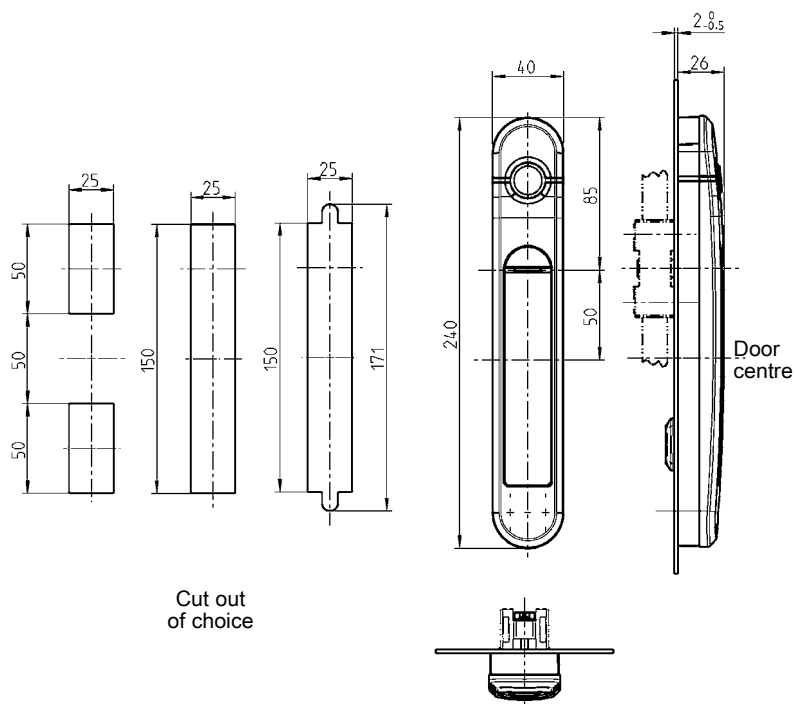
9 Special catalogues

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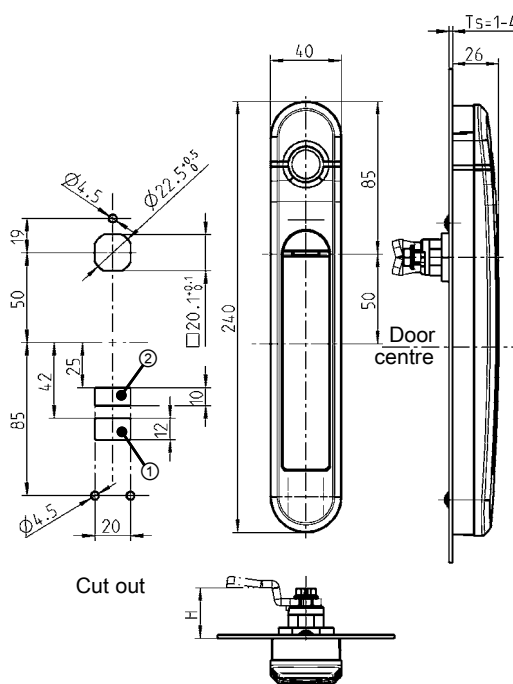
Swinghandle Agent E Wired

PROGRAM 3000

Swinghandle for rod control or bearing bush



Swinghandle for cam



Required for
① = Door contact
② = Power cable

Swinghandle Agent E Wired - functions

Tk = door contact

Operation mode	Authentication	Power	Opening standard	Opening optional	Connection option
Wired (cable network)	RFID card (125 kHz or 13.56 MHz)	Cable	Touch	--	Tk

per Control Unit Wireless max. 32 Access Units ≡ max. 64 handles Agent E Wired



Agent E
Wired



Access Unit



Control Unit Wireless



Control Cockpit

Agent E Wired is the cabled version of the electromechanical swinghandle program.
It enables a central and complete logging of events.
The authentication is done via RFID cards.

Features

- Authentication by 125 kHz or 13.56 MHz RFID cards. Remote opening is always possible in addition
- Handle type Wired Slave does not have its own authentication and is released in combination with master handle, central keypad/central card reader or by remote opening. The opening is done by touching the sensor field
- 4 eyes principle for authentication with 2 authorized RFID cards
- The handle has a connection option for a door contact
- In combination with the Access Unit the centre LED in the sensor field can be actuated in order to signal possible malfunctions in the rack such as increased temperature
- Two handles Agent E Wired can be connected to one Access Unit
- Max. 32 Access Units can be administered by one Control Unit Wireless
- An emergency opening is possible by using the integrated USB port
- The installation in cabinets of different manufacturers is solved with various adapters, on request



Swinghandle Agent E consisting of:
dish polyamide GF black;
handle and shaft zinc die powder-coated white aluminium;
cable with RJ45 plug 4 m; mounting and operating instructions

	for rod control or bearing bush	for cam
Wired with RFID 125 kHz	on request	on request
Wired with RFID 13.56 MHz	3000-U900-41	3000-U900-42
Wired Slave	on request	on request
RFID Card		
125 kHz		3000-87
13.56 MHz		3000-88
Adapter set for bearing bush; adapter plate polyamide GF black; adapter m.s. precision casting zinc-plated; fixing material m.s. zinc-plated		
for Ts 1.0 - 3.0		3000-U104-01
Adapter set for retrofitting		
for various cabinet types		on request
USB adapter cable		
USB Standard-A on USB Micro-B		3000-U102

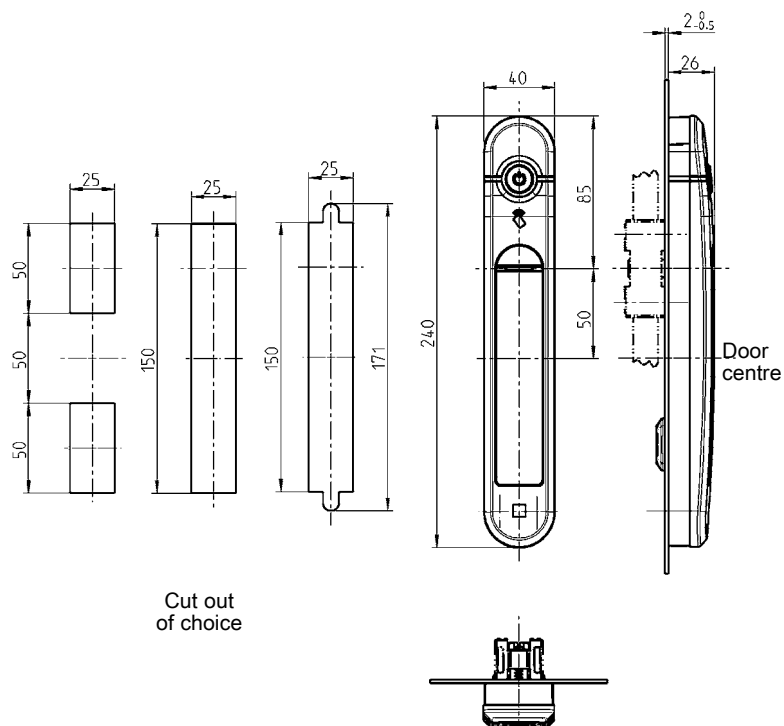
Further parts see page

- Access Unit
Special catalogue Electronics
- Door contact
Special catalogue Electronics
- Rod control
3YA-120
3YA-140
- Bearing bush
3YB-120
- Cam (GH = 18)
1C-120

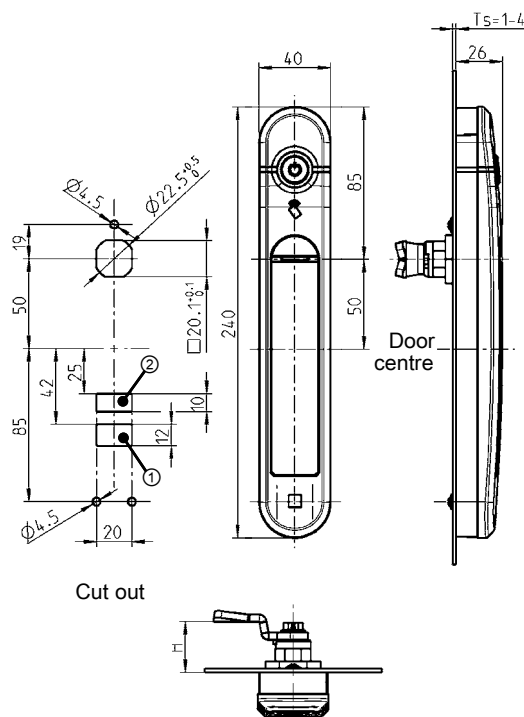
Swinghandle Agent E Wireless

PROGRAM 3000

Swinghandle for rod control or bearing bush



Swinghandle for cam



Required for
① = Door contact
② = Not needed

Swinghandle Agent E Wireless - functions

Tk = door contact

Operation mode	Authentication	Power	Opening standard	Opening optional	Connection option
Wireless (wireless network)	RFID card (125 kHz or 13.56 MHz)	Battery	Immediately	--	Tk

per control unit wireless max. 16 access units wireless $\cong$ max. 1,200 handles Agent E Wirelss



RFID

Agent E Wireless



Access Unit Wireless



Control Unit Wireless



Control Cockpit

The Agent E Wireless is still the only swinghandle with wireless communication.
Due to its wireless and thus cost-saving mounting it is most suitable for retrofitting in data centres.
The authentication is done via RFID cards.
A highly-efficient power management guarantees a long battery life.

Features

- Wireless communication for data exchange via wireless network with Access Units Wireless (industrial standard according to national regulations)
- One Control Unit Wireless can actuate up to 1,200 handles Agent E Wireless using Access Units Wireless in one wireless network
- The authentication can be effected by RFID cards with 125 kHz or 13.56 MHz. Remote opening is always possible in addition
- Extremely energy-efficient battery operation (battery life min. 3 years)
- 4 eyes principle for authentication with 2 authorized RFID cards
- The handle has a connection option for a door contact
- An emergency power function is possible with the integrated USB port
- Agent E Wireless is most suitable for retrofitting due to its wireless mounting
- The installation in cabinets of different manufacturers is solved with various adapters, on request



Swinghandle Agent E consisting of:
dish polyamide GF black;
handle and shaft zinc die powder-coated white aluminium;
2 batteries; mounting and operating instructions

③ Wireless type for all EU countries plus Switzerland and Norway	for rod control or bearing bush	for cam
Wireless with RFID 125 kHz	on request	on request
Wireless with RFID 13.56 MHz	3000-U911-41	3000-U911-42
RFID Card		
125 kHz		3000-87
13.56 MHz		3000-88
Adapter set for bearing bush; adapter plate polyamide GF black; adapter m.s. precision casting zinc-plated; fixing material m.s. zinc-plated		
for Ts 1.0 - 3.0		3000-U104-01
Adapter set for retrofitting		
for various cabinet types		on request

③ Note:
Wireless versions for other countries on request

Other card systems such as e.g. Legic or Mifare Desfire EV1 available on request

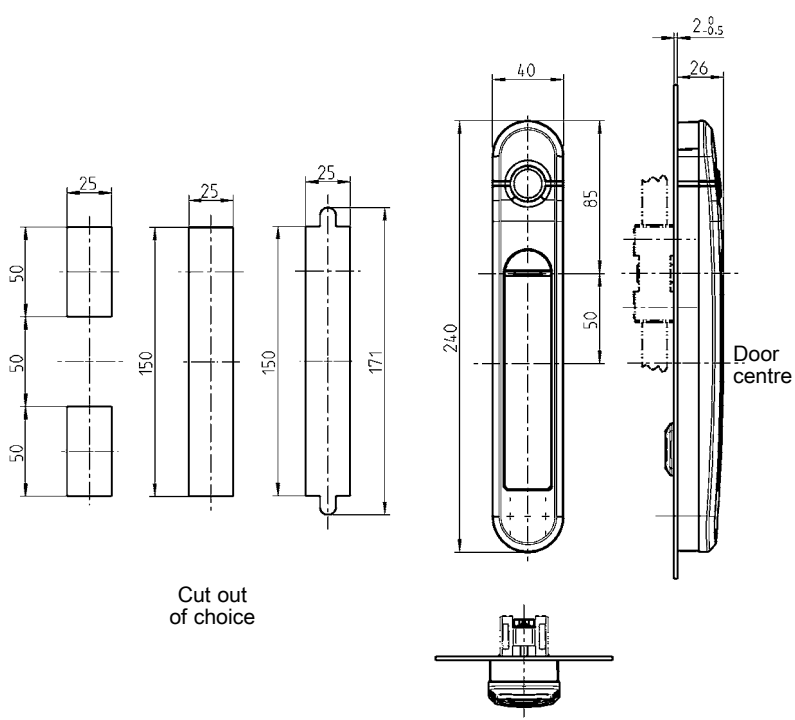
Further parts see page

- Access Unit Wireless
Special catalogue Electronics
- Door contact
Special catalogue Electronics
- Rod control 3YA-120
- Bearing bush 3YA-140
- Cam (GH = 18) 3YB-120
- 1C-120

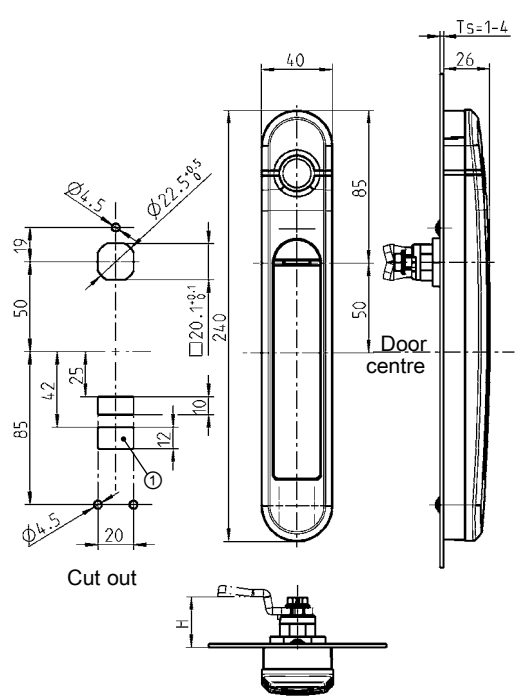
Swinghandle Agent E RFID Stand-Alone

PROGRAM 3000

Swinghandle for rod control or bearing bush



Swinghandle for cam



Required for
① = Door contact

Swinghandles Agent E RFID Stand-Alone - functions

Tk = door contact; SA = status display

Operation mode	Authentication	Power	Opening standard	Opening optional	Connection option
Stand-Alone	RFID card (125 kHz or 13.56 MHz)	Battery	Immediately		Tk

max. 128 transponder cards per handle
Card management via USB with software tool



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 authorised card in front of the integrated reader, the handle will open.

Easy to configure using software.

This handle does not require any external cabling to work.

Features

- Battery-operated handle with integrated RFID reader
- Authentication by 125 kHz or 13.56 MHz transponder cards
- Extremely energy-efficient battery operation (battery life min. 3 years)
- Configuration via USB port with Agent E configuration software (card administration, time profiles, reading out event logs)
- All handles have a connector for adding a door contact
- Data storage for 2,000 events
- Emergency power function and emergency opening via USB port
- The installation in cabinets of different manufacturers is solved with various adapters, on request



Swinghandle Agent E consisting of:
dish polyamide GF black;
handle and shaft zinc die powder-coated white aluminium;
2 batteries, mounting and operating instructions

	for rod control or bearing bush	for cams
Stand-Alone with RFID 125 kHz	on request	on request
Stand-Alone with RFID 13.56 MHz	3000-U910-21	3000-U910-22
Transponder card		
125 kHz		3000-87
13.56 MHz		3000-88
Adapter set for bearing bush; adapter plate polyamide GF black; adapter m.s. precision casting zinc-plated; fixing material m.s. zinc-plated		
for Ts 1.0 - 3.0		3000-U104-01
Adapter set for retrofitting		
for various cabinet types		on request
USB adapter cable		
USB Standard-A on USB Micro-B		3000-U102

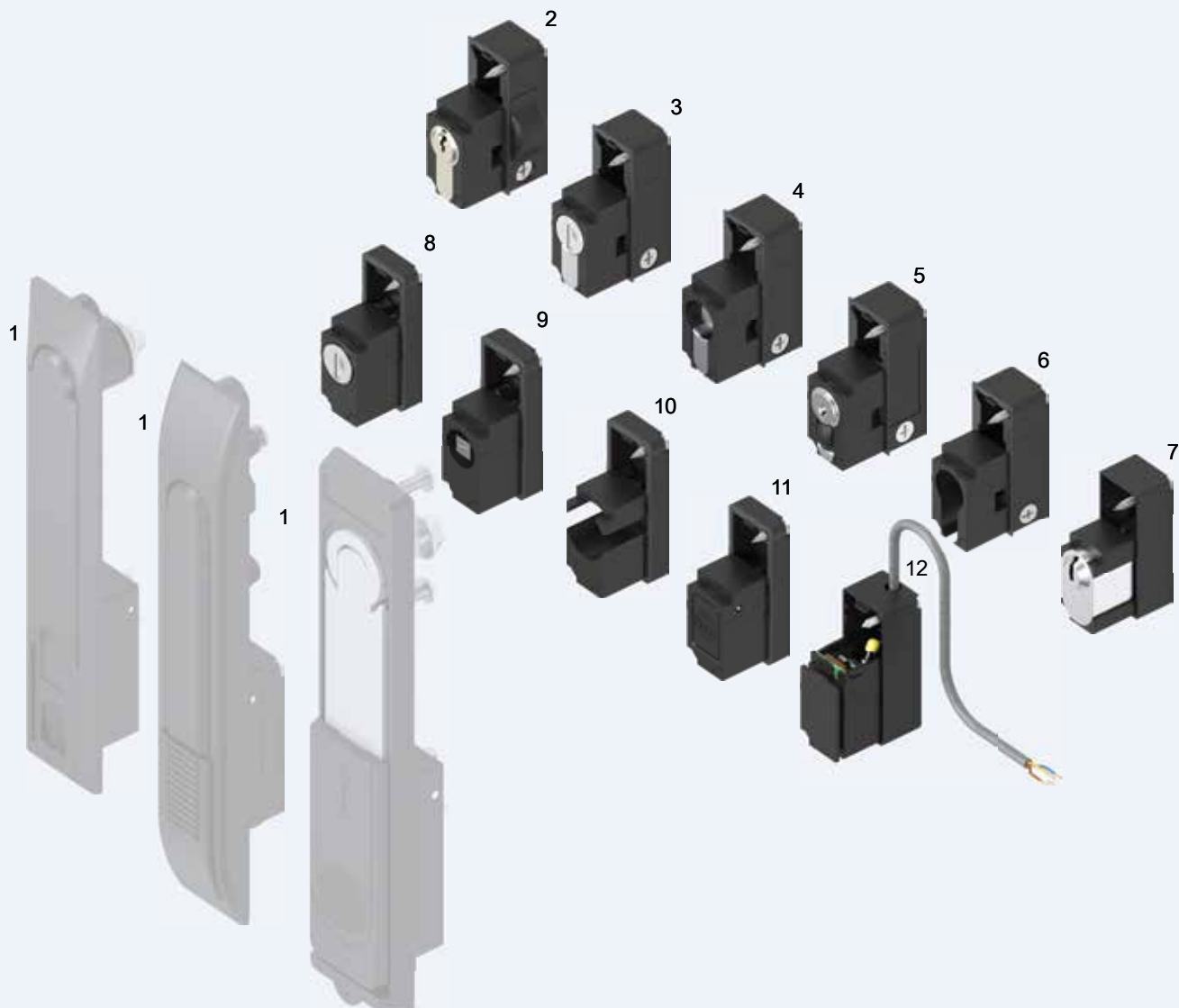
Further parts see page

- Rod control 3YA-120
 - 3YA-140
 - Bearing bush 3YB-120
 - Cam (GH = 18) 1C-120
 - Door contact
- Special catalogue Electronics

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Locking sets

Program 1107, 1150, 1180, 1190, 1390, 2100, 2400



- 1 **Swinghandle Program 1107, 1150, 1180, 1190, 1390, 2100, 2400**
- 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 special catalogue Electronics

3XA-100

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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Locking set

PROGRAM 1107, 1150, 1180, 1190, 1390, 2100, 2400



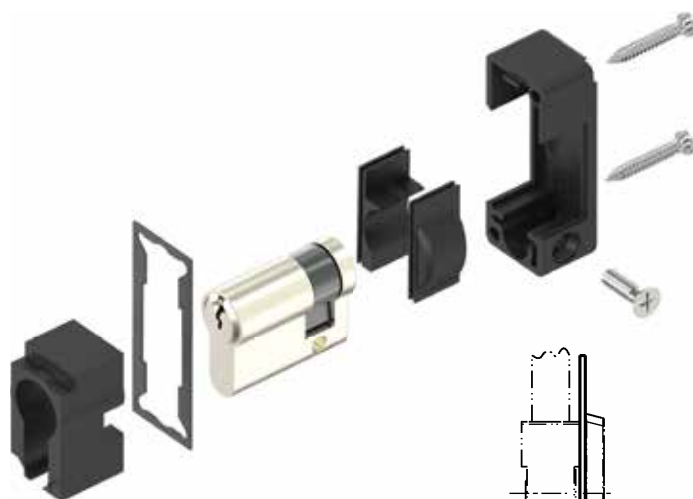
1109-U52 and 1109-U53

In unlocked position the handle operates by pressing the push button.

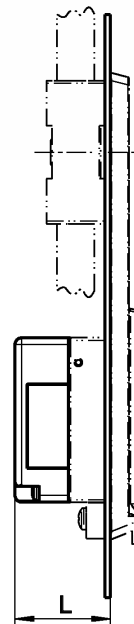


2100-U6

for ASSA cylinder. Attention! ASSA cylinder and 2 fixing screws M5x8 are not included in scope of delivery.



Program	Dimension L
1150	.42
1180	.32
1190	.29.5
1390	-
2100	.36
2400	.23



Locking set polyamide black with or without profile half cylinder or ASSA cylinder, fixing material m.s. zinc-plated., with seal

Locking set profile half cylinder according to DIN 18252, brass nickel-plated with 3 keys (also available as master key system)

keyed different	1089-U5	keyed alike 110319 N	1089-U6
for profile half cylinder 40 mm (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 protection

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

keyed different	1109-U50	keyed EK 333	1109-U51
-----------------	----------	--------------	----------

Locking set profile half cylinder with push button, round cylinder zinc die chrome-plated. Each round cylinder has one silver steel key with grip polyamide GF black

keyed different	1109-U52	keyed 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 SW 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 half-round	1109-U58

Locking set for ASSA cylinder is provided by the customer (without seal)

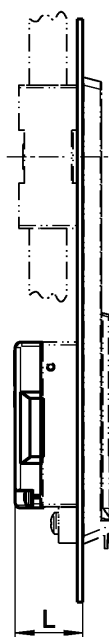
2100-U6

Locking set

PROGRAM 1107, 1150, 1180, 1390, 2100, 2400

All round cylinders and inserts are spring-loaded

Program	Dimension L
1150	31.5
1180	21.5
1390	-
2100	25
2400	20



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

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2100-U54

Prepared for KABA cylinder.
Attention! KABA cylinder and
2 countersunk screws M2,3x8
are not included in scope of
delivery.

Locking set polyamide GF 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 round cylinder has one silver steel key with grip polyamide GF black

keyed EK 333	2100-U48	keyed different	2100-U49
--------------	----------	-----------------	----------

Installation kit for KABA cylinder type 1036 (provided by customer)	2100-U54
---	----------

Locking set insert zinc die chrome-plated

Square 6	2100-U32	Hexagon female SW 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	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 half-round	2100-U58
Double bit 3	2100-U50	Push button	2100-U57
Double bit 5	2100-U51		

Further parts see page

– Key 8B-120

Program 1150

– Swinghandle 1151 3C-420
3C-440

Program 1180

– Swinghandle 1185 3E-520

Program 1390

– Lifthandle 3FA-120

Program 2100

– Swinghandle 3H-320
to 3H-420

Program 2400

– Swinghandle 3K-220

Locking set

PROGRAM 1180, 1190, 2400



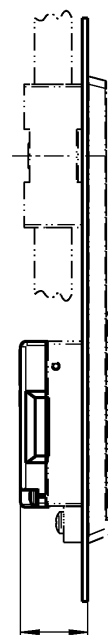
All round cylinders and inserts are spring-loaded

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

keyed EK 333	2100-B30
--------------	----------

keyed different	2100-B31
-----------------	----------

Insert 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 SW 10	2100-B23
----------------------	----------

Square female 6	2100-B24
-----------------	----------

Square female 8	2100-B25
-----------------	----------

Daimler Benz	2100-B26
--------------	----------

FIAT	2100-B34
------	----------

Slot 1.2 x 3	2100-B27
--------------	----------

Slot 2 x 4	2100-B28
------------	----------

Crown type	2100-B29
------------	----------

Eastern Europe Ø 13 half-round	2100-B36
--------------------------------	----------

Push button	2100-U56
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Further parts see page

– Key 8B-120

Program 1180

– Swinghandle 1180 3E-120

to 3E-320

Program 1190

– Swinghandle 3F-120

Program 2400

– Swinghandle 3K-220

3XA-240 01/14

(3N-220)

Items printed in gray without stock

Locking sets

Profile half cylinder

Program 1107, 1125, 1150, 1225, 1190, 1317, 1325, 2225



- 1 **Swinghandle Program 1107, 1125, 1150, 1225, 1190, 1317, 1325, 2225**
- 2 Profile half cylinder DIN 18252
- 3 Profile half cylinder with round cylinder with spring return
- 4 Profile half cylinder with round cylinder
- 5 Profile half cylinder with insert with spring return
- 6 Profile half cylinder with insert
- 7 Profile half cylinder with radial pin cylinder with spring return
- 8 Profile half cylinder with push button
- 9 Blind plug

3XB-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

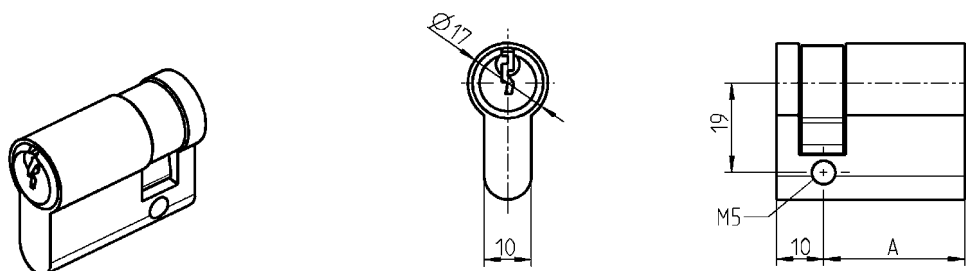
9 Special catalogues

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Profile half cylinder

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

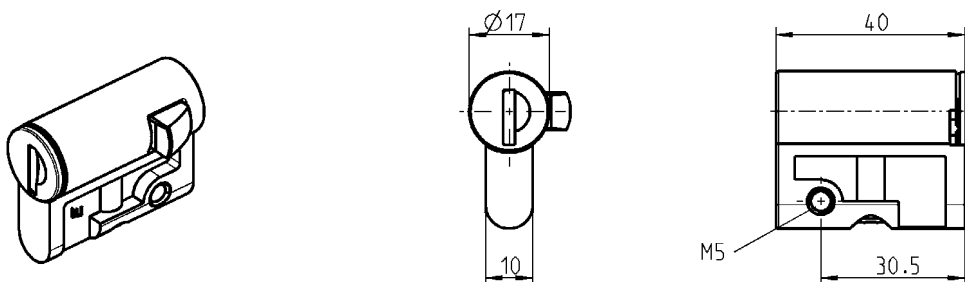
Profile half cylinder according to DIN 18252 (EN 1303)



Profile half cylinder according to DIN 18 252 brass nickel-plated with 3 keys, locking cam reversible every 45°

keyed different	A = 30	1089-U1
keyed 110319 N	A = 30	1089-U2
(Master key system on request)		

EMKA profile half cylinder with round cylinder



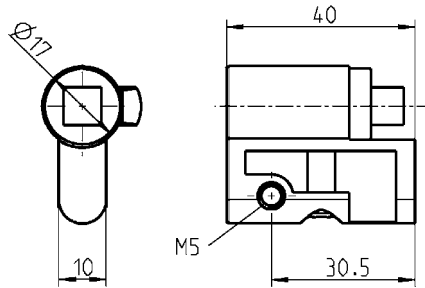
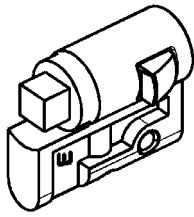
EMKA profile half cylinder with round cylinder zinc die with stainless steel cap and dust cap, one key made of nickel silver per round cylinder with grip polyamide GF black.

keyed different	1109-U1-N
keyed EK 333	1109-U2-N

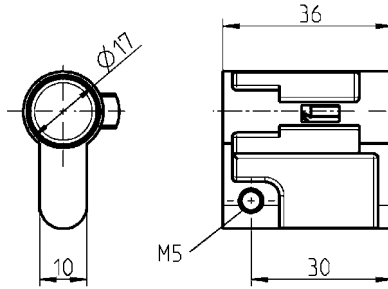
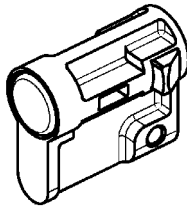
EMKA profile half cylinder with insert zinc die chrome-plated, spring loaded return of locking cam into locked position.

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 SW 8	1109-U12-N
Hexagon female SW 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 half-round	1109-U54-N

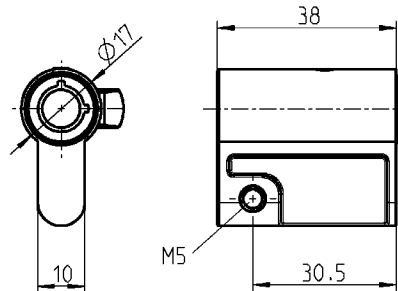
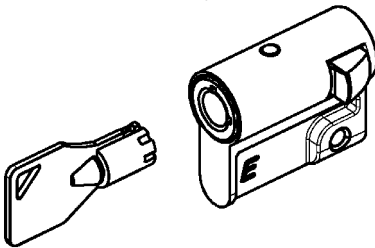
EMKA profile half cylinder with insert



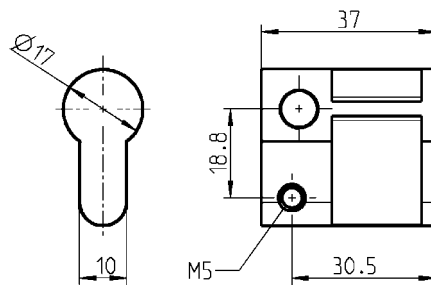
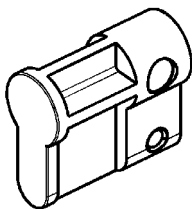
Push button profile half cylinder



Radial pin snap-in cylinder



Blind plug



Further parts see page

- Key 8B-120
- Spare key 8B-140
- Locking set 3XC-120

Program 1107

- Swinghandle 3A-120 to 3A-320

Program 1125

- Swinghandle 3B-220 to 3B-420

Program 1150

- Swinghandle 1153 3C-320
- Swinghandle 1154 3C-220 to 3C-260

Program 1190

- Lifthandle 3F-330

Program 1225

- Swinghandle 3G-220

Program 1317

- Swinghandle 3AB-120 to 3AB-140

Program 1325

- Swinghandle 3BA-220

3XB-120 01/14

(3A-580)

Push button profile half cylinder polyamide GF black

1109-U59

Radial pin snap-in cylinder zinc die chrome-plated, spring-loaded return of locking cam into locked position. Key only removable in locked position.

keyed 20001

1109-U60

keyed different

1109-U61

Spare key 20001

1108-U52

Spare key, keyed different

1108-U52-V

Blind plug polyamide GF black, spring-loaded ball m.s. burnished

with spring-loaded ball

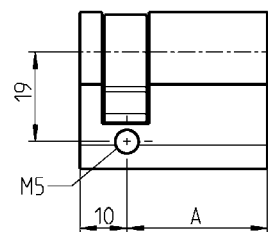
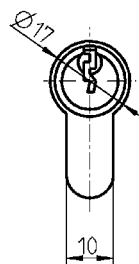
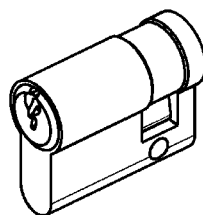
1109-U3

without spring-loaded ball

1109-09-AA

Profile half cylinder PROGRAM 1125, 1225, 1317

Profile half cylinder according to DIN 18252 (EN 1303)



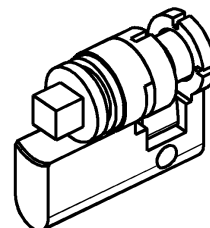
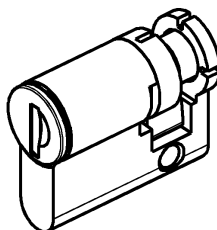
Profile half cylinder according to DIN 18 252 brass nickel-plated with 3 keys, locking cam reversible every 45°

keyed different	A = 30	1089-U1
keyed 110319 N	A = 30	1089-U2
(Master key system on request)		



EMKA profile half cylinder
with round cylinder,
turn 360°

EMKA Profile half cylinder
with insert,
turn 360°



EMKA profile half cylinder with round cylinder zinc die with stainless steel cap and dust cap, each round cylinder has one silver steel key with grip polyamide GF black, turn 360°

keyed different or keyed EK 333 on request

EMKA profile half cylinder with insert zinc die chrome-plated., turn 360°

Insert, e.g. square, triangular, double bit, slot and more on request

Note:

For the swinghandle 1225-U60 (3G-320) only profile half cylinders 1089-U1 or 1089-U2 can be used!

Further parts see page

– Key 8B-120
– Spare key 8B-140

Program 1125

– Swinghandle 3B-320

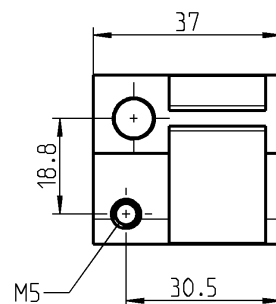
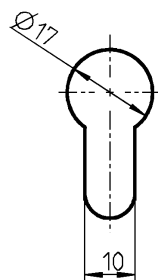
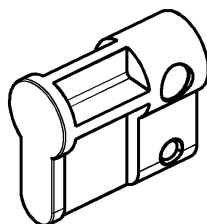
Program 1225

– Swinghandle 3G-320

Program 1317

– Swinghandle 3AB-160

Blind plug



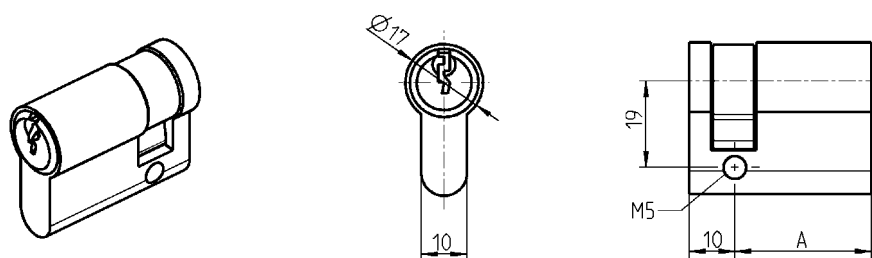
Blind plug polyamide GF black

1109-09-AA

Profile half cylinder

PROGRAM 1150, 1190, 2225

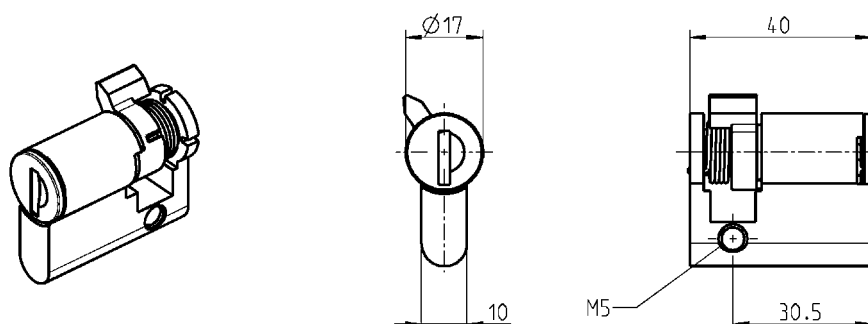
Profile half cylinder according to DIN 18252 (EN 1303)



Profile half cylinder according to DIN 18252 brass nickel-plated with 3 keys, locking cam reversible every 45°

keyed different	A = 30	1089-U1
keyed 110319 N	A = 30	1089-U2
(Master key system on request)		

EMKA profile half cylinder with round 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 locking cam into locked position. Each round cylinder has one silver steel key with grip polyamide 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 locking cam 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 SW 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 half-round	1109-U58-01



Further parts see page

– Key 8B-120
– Spare key 8B-140

Program 1150
– Swinghandle 1154 3C-280

Program 1190
– Swinghandle 3F-430

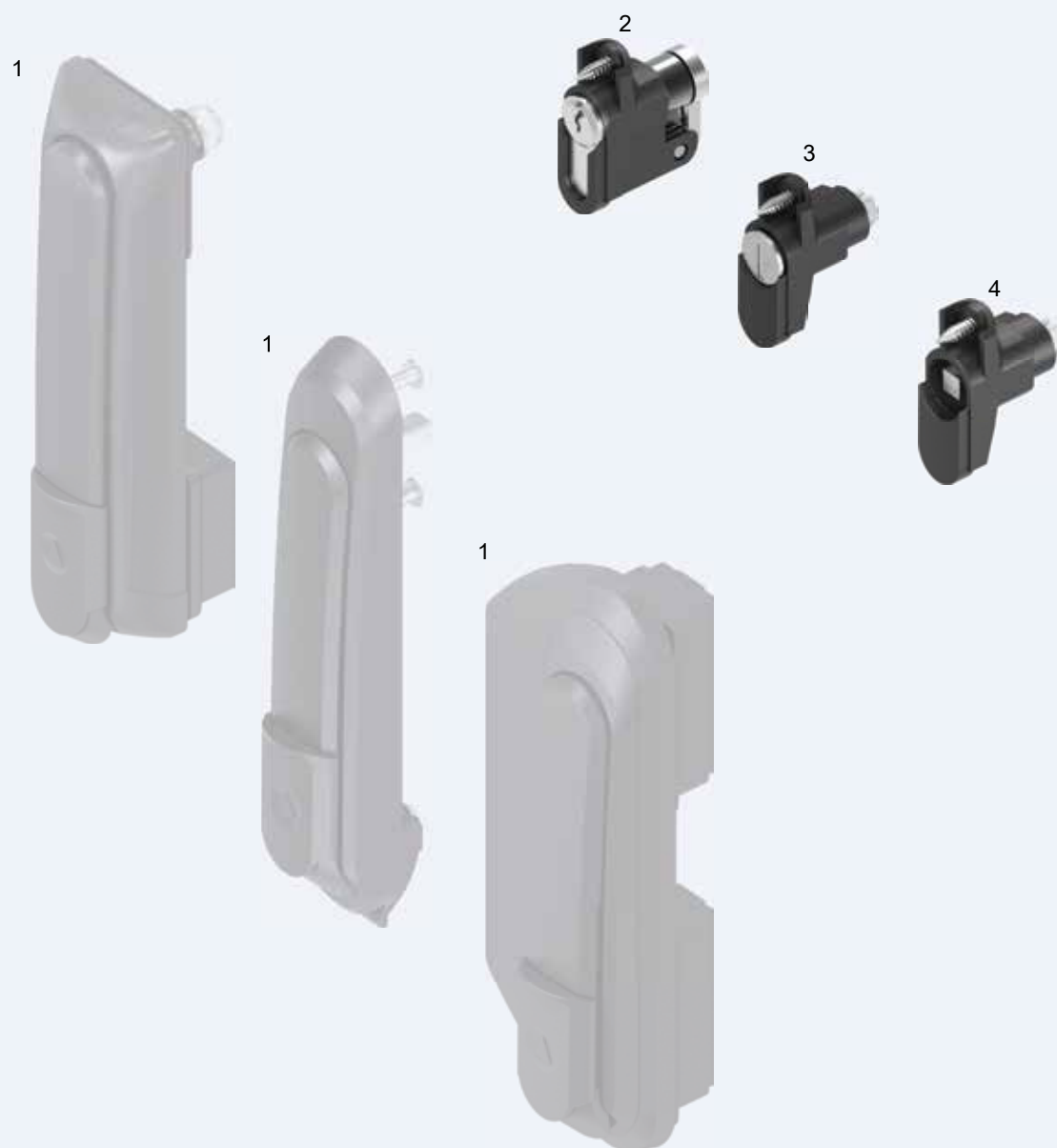
Program 2225
– Swinghandle 3J-120

3XB-320 03/20

Info	
1 Quarter turns	Beschlagteile
2 Rod controls	
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
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Locking sets

Program 1317, 1325



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

3XC-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

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Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
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New locking set series PROGRAM 1317, 1325

⁽¹⁾ (In case of profile half cylinder the locking cam must be set to 90°)



Locking set polyamide GF black; screws m.s. zinc-plated

for profile half cylinder 40 mm (A = 30 mm) ⁽¹⁾

1109-U101



Locking set polyamide GF black; round cylinder zinc die with stainless steel cap and dust protection; screws m.s. zinc-plated. Each round cylinder has one silver steel key with grip polyamide 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 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 SW 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 3XB-120
(Blind plug without
spring-loaded ball not usable)

– Key 8B-120
– Spare key 8B-140

Program 1317

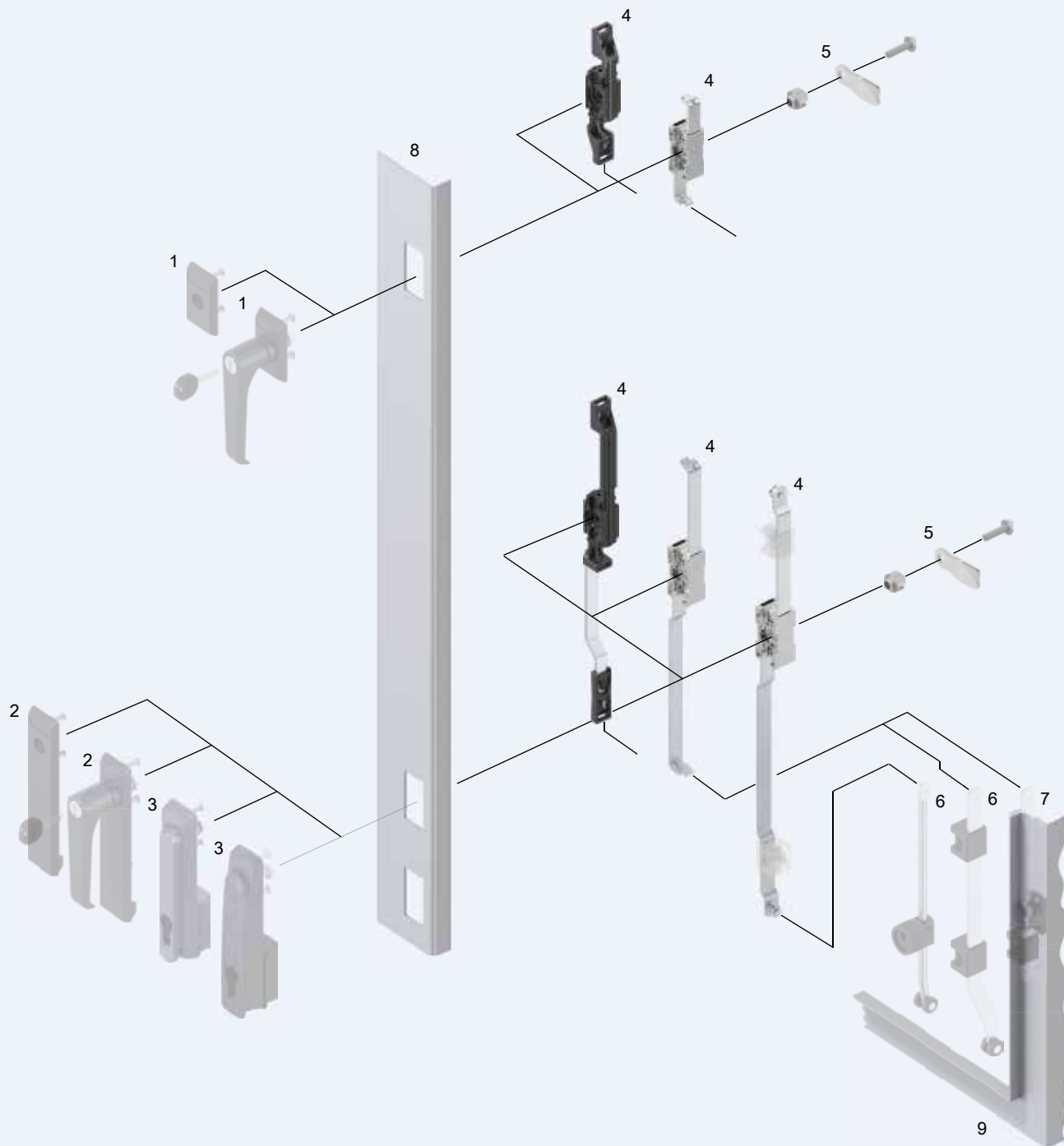
– Swinghandle 3AB-140

Program 1325

– Swinghandle 3BA-220
3BA-320

Rod control

Program 1125, 1150, 1225, 1325, 2100, 2225, 3000



- 1 Escutcheon small
- 2 Escutcheon long
- 3 Swinghandle
- 4 Rod control
- 5 Cam
- 6 Rod (inside the sealing)
- 7 Rod (outside the sealing)
- 8 Door
- 9 Housing / Frame

Program 1125, 1225
 Program 1125, 1225, 1325, 2100
 Program 1125, 1150, 1225, 1325, 2100, 2225, 3000
 3YA-110 bis 3YA-540
 3YA-820, 3YA-840



3YA-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

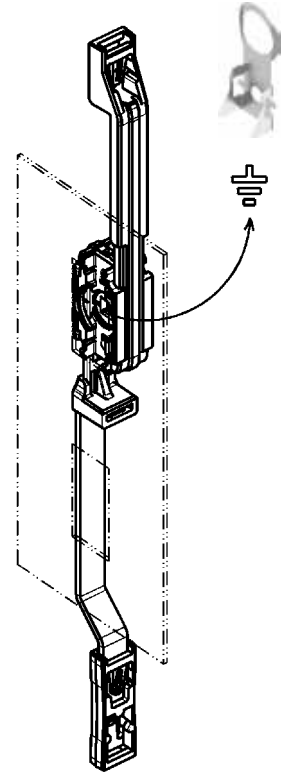
8 Miscellaneous

9 Special catalogues

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Quick assembly of the rod



Further parts see page

– Rods

 outside 3ZA-120

 inside 3ZB-120
(only flat rods possible)

– Grounding device 3ZB-200

– Cam 3ZB-220

– Cam 3YA-720

(Swinghandle 1325) 3YA-820

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

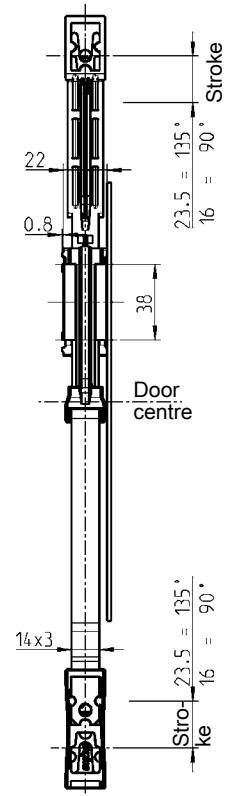
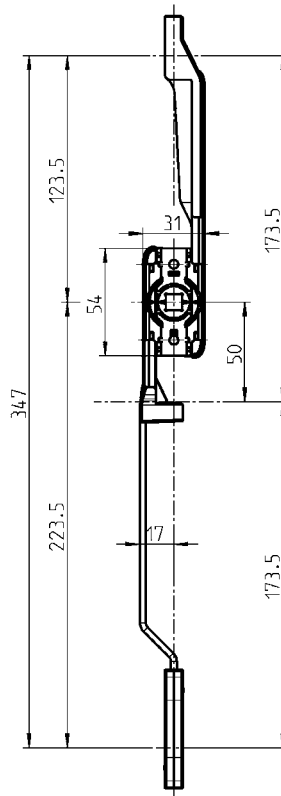
– Swinghandle 3BA-220

Program 2225

– Swinghandle 3J-120

Program 3000

– Swinghandle 3N-120



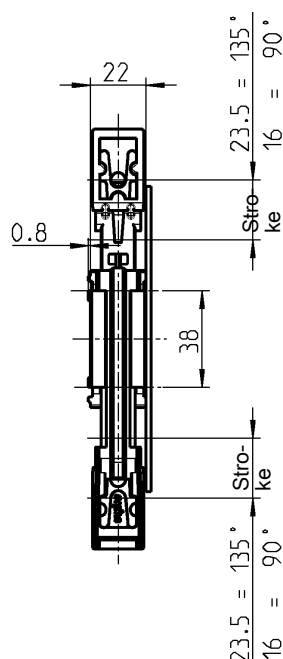
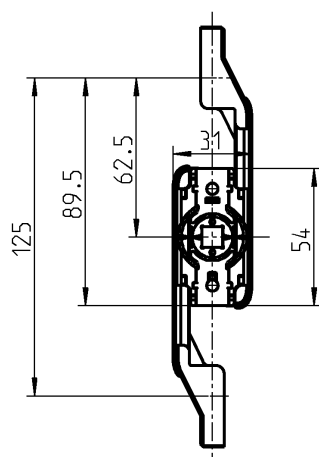
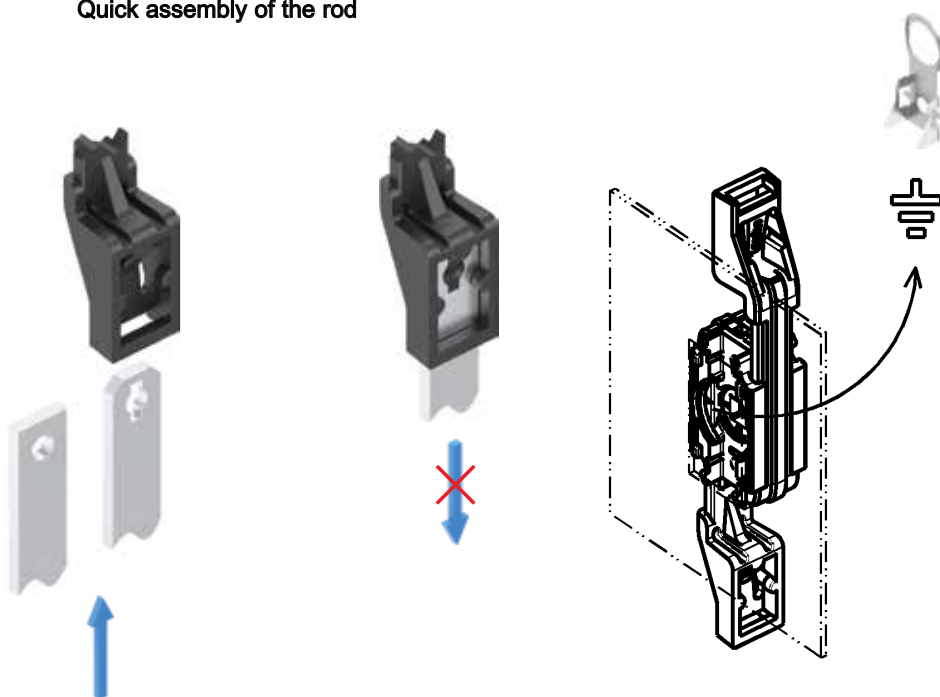
Rod control made of high performance plastics

1121-U26-K

Rod control for flat rods

PROGRAM 1125, 1225

Quick assembly of the rod



Further parts see page

– Rods

 inside 3ZB-120
(only flat rods possible)

3ZB-200

3ZB-220

– Grounding device

3YA-720

– Cam

3YA-820

Program 1125

– Escutcheon short

3B-120

3B-180

Program 1225

– Escutcheon short

3G-120

3G-180

Rod control made of high performance plastics

1121-U1-K

3YA-115 09/14

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

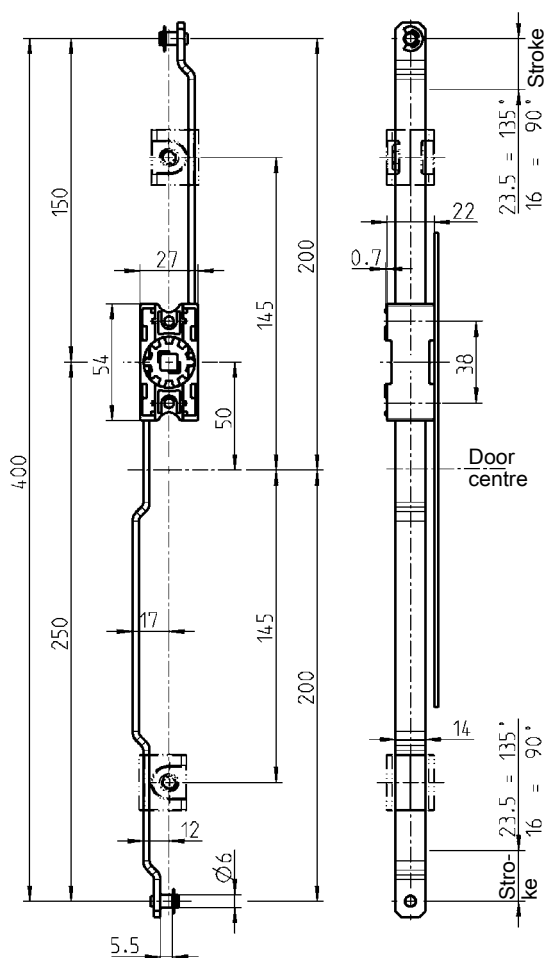
8 Miscellaneous

9 Special catalogues

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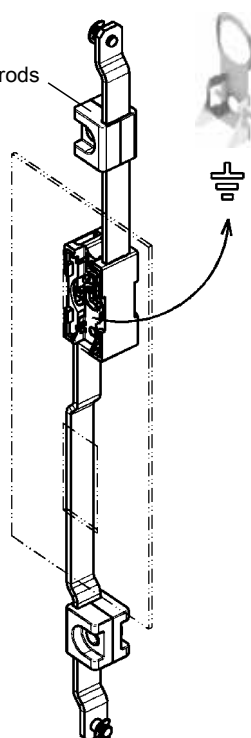
Rod control for round rods

PROGRAM 1125, 1150, 1225, 1325, 2225, 3000



Grounding device

Rod guide for flat rods



Further parts see page

- Rods inside 3ZB-120
- Rod guide 3ZC-120 to 3ZC-170
- Grounding device 3YA-720
- Cam 3YA-820
- (Swinghandle 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 2225

- Swinghandle 3J-120

Program 3000

- Swinghandle 1150 3N-110
- to 3N-130

Rod control material of choice

Rod control box

Zinc die

Polyamide GF black

Rod

m.s. zinc-plated

Aluminium

1121-U29-C

1121-U39-C

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
Index



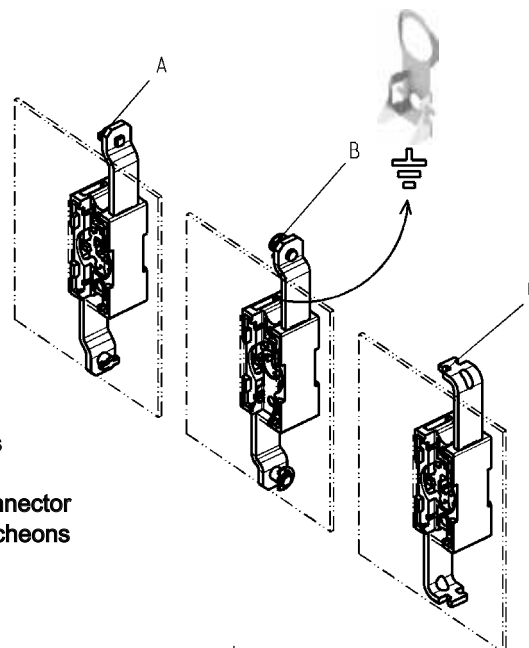
**AISI
INOX**



Rod control PROGRAM 1125, 1225



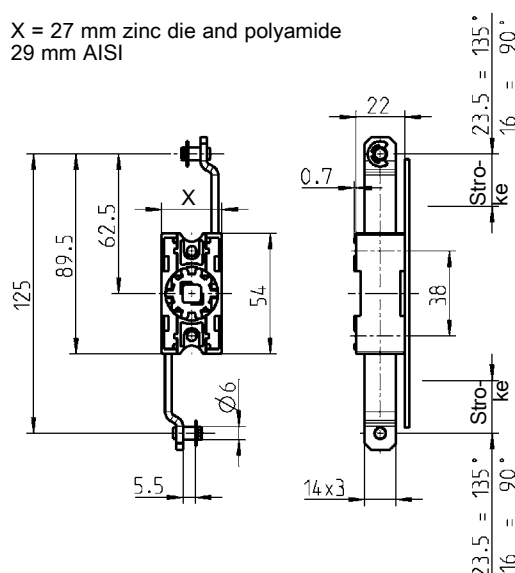
Grounding device



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



- Connector
- Grounding device
- Cam

3ZB-120
3ZB-200
3ZB-220
3YA-180
3YA-720
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 of choice

Rod control box	Rod	Version		
		A	B	C
Zinc die	m.s. zinc-plated	1121-U124-C	1121-U1-C	1121-U153-C
Polyamide GF black	AISI 304	–	1121-U177-C	–
Polyamide GF black	Aluminium	–	1121-U37-C	1121-U154-C
AISI 316	AISI 304	–	1121-U138	–

Rod control with one rod

Rod control box	Rod	Version		
		A	B	C
Polyamide GF black	Aluminium	–	1121-U61-C	–

Rod control without rods, with swing stopper aluminium, turn 90°

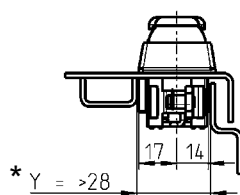
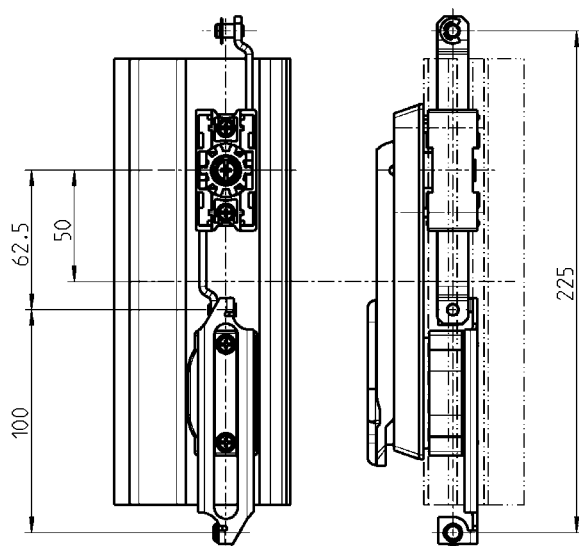
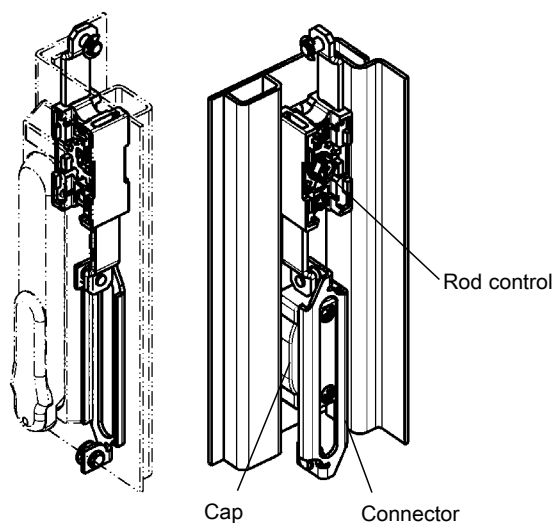
Rod control box	Rod	Version		
		A	B	C
Polyamide GF black	–	–	1121-U60-C	–

3YA-160 09/14

(3A-380)

Connector for slim design

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 escutcheons or the swinghandles, each with cap, the lower and upper rod length is the same.

* In case of a smaller dimension Y, cap with flat seal (without PUR foamed seal) has to be ordered separately on request.



Further parts see page

– Rods

inside

3ZB-120
3ZB-200
3ZB-220
3YA-160

– Rod control
(Version B)

Program 1125

– Escutcheon long
– Swinghandle

3B-120
3B-180
3B-220
3B-420

Program 1225

– Escutcheon long
– Swinghandle

3G-120
3G-180
3G-220
3G-420

Program 1325

– Escutcheon
– Swinghandle

3BA-120
3BA-220

Connector and rivet m.s. zinc-plated, circlip spring steel zinc-plated

1121-U65

3YA-180 01/19

(3A-390)

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

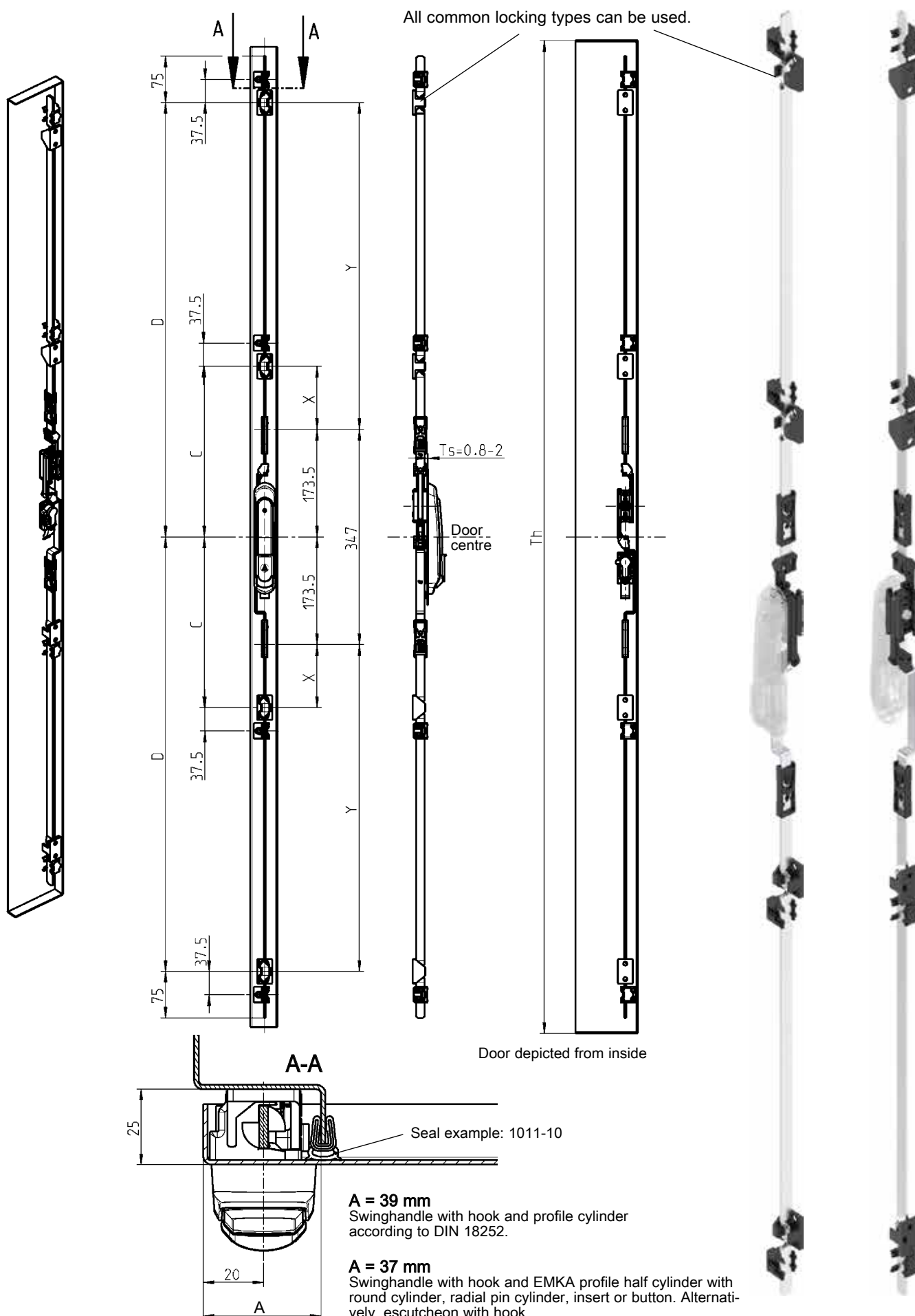
8 Miscellaneous

9 Special catalogues

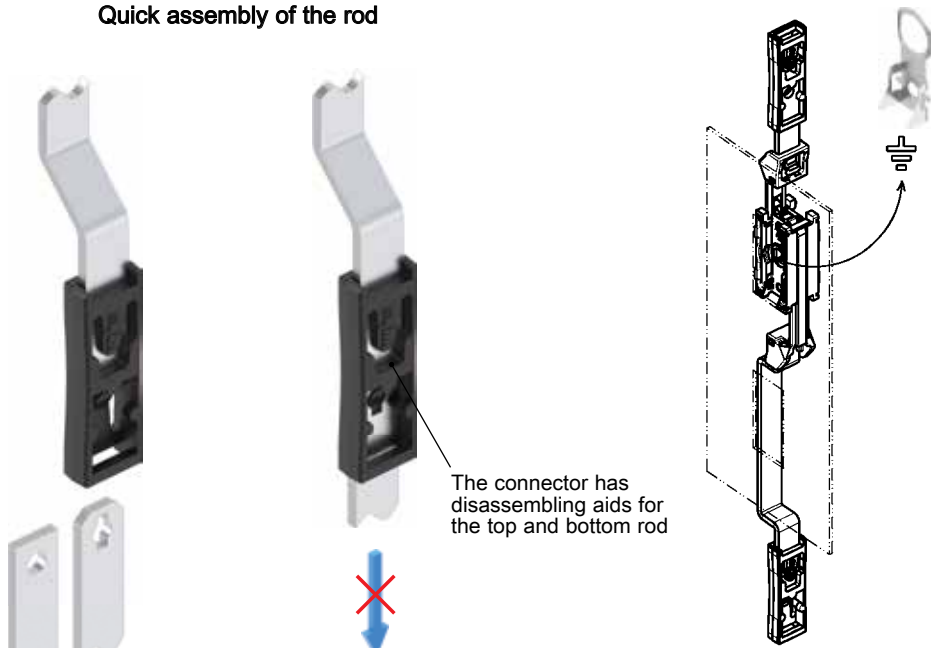
Index

Rod control for flat rods

PROGRAM 1125, 1225, 1325, 3000

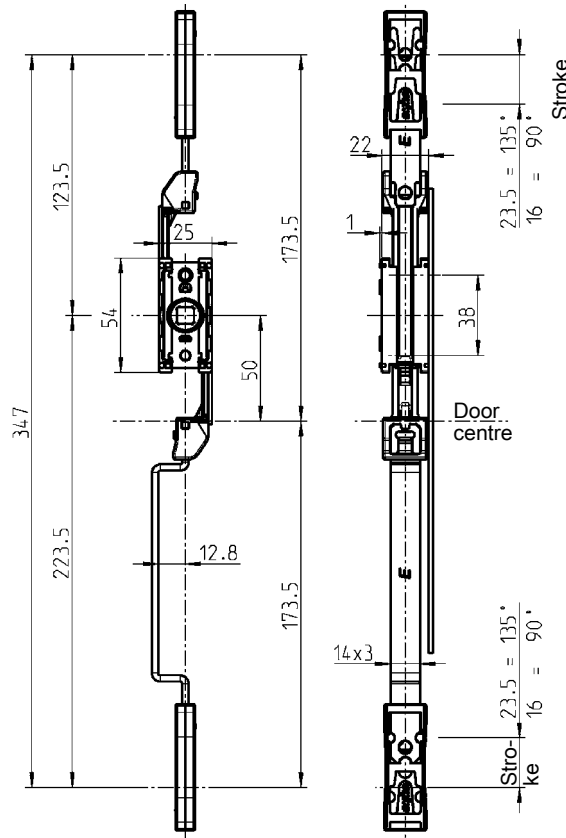


Quick assembly of the rod



Product benefits

- Slim design
- Very compact design
- Lock length, rod control and stroke correspond to 1121-U26-K
- Saves space of up to 8 mm in the bending area
- Patented



This rod control can be used in combination with the swinghandles or the escutcheons with hook of the programs 1125, 1225 and 1325. Swinghandle and escutcheon with cover cannot be used.

Rod control made of high performance plastics, flat rod m.s. zinc-plated

1122-U26-K

Grounding device stainless steel

1122-117



① **Note:**
Can only be assembled in cut out version A

① **Note:**
Can only be assembled in certain cut outs. (similar to cut out 1125)

Further parts see page

– Rods

outside 3ZA-120

inside 3ZB-120
(only flat rods possible)

3ZB-200

3ZB-220

Program 1125

– Escutcheon 1121 3B-120

– Escutcheon 1123 3B-180

– Swinghandle 3B-220

Program 1225

– Escutcheon 1221 3G-120

– Escutcheon 1223 3G-180

– Swinghandle 3G-220

Program 1325 ①

– Escutcheon 1321 3BA-120

– Swinghandle 3BA-220

Program 3000 ②

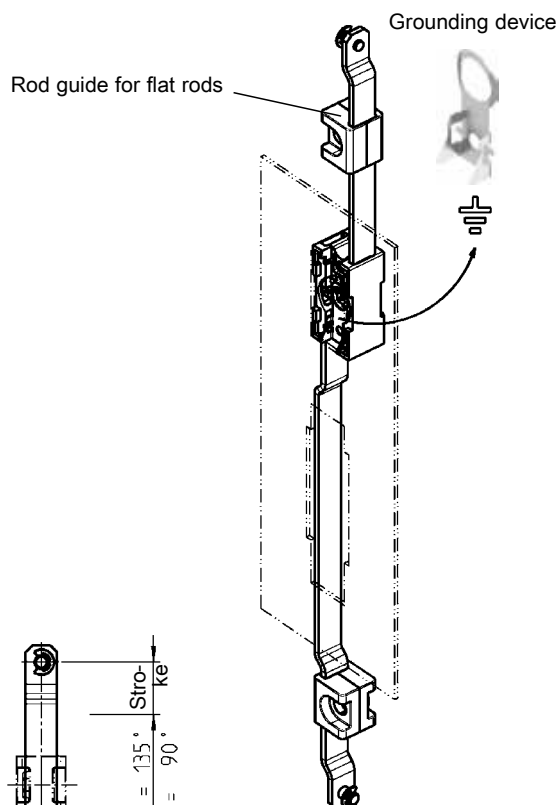
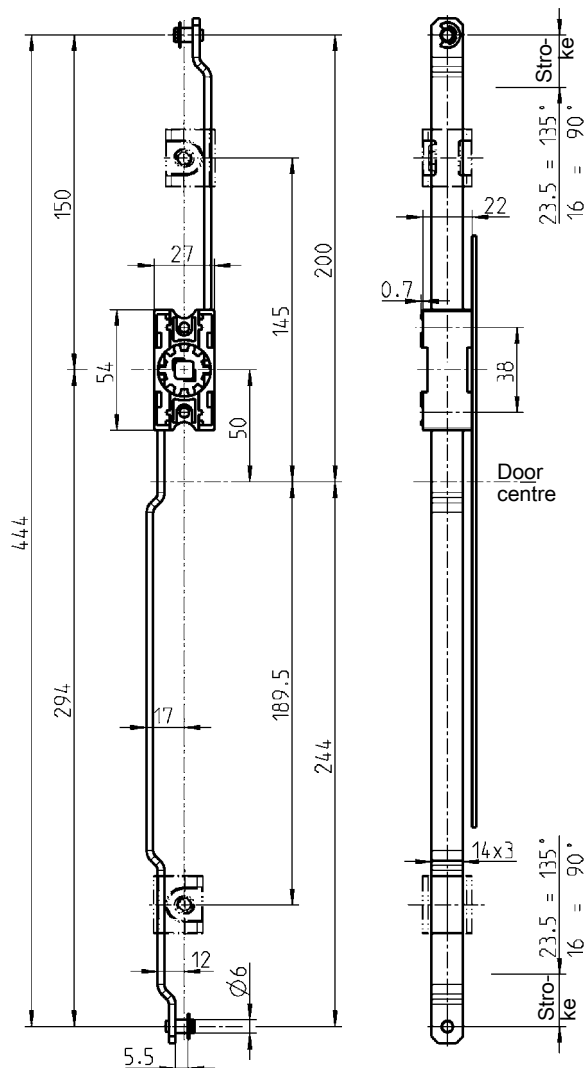
– Swinghandle 3N-110

to 3N-130

Items printed in gray without stock

Rod control for flat rods

PROGRAM 1125



Further parts see page

- Rods
- Rod guide
- Grounding device
- Cam

Program 1125

- Swinghandle

Rod control zinc die, rods m.s. zinc-plated

1121-U52-C

3YA-240 01/13
(3C-260)

Items printed in gray without stock

Stainless steel rod control for flat rods



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

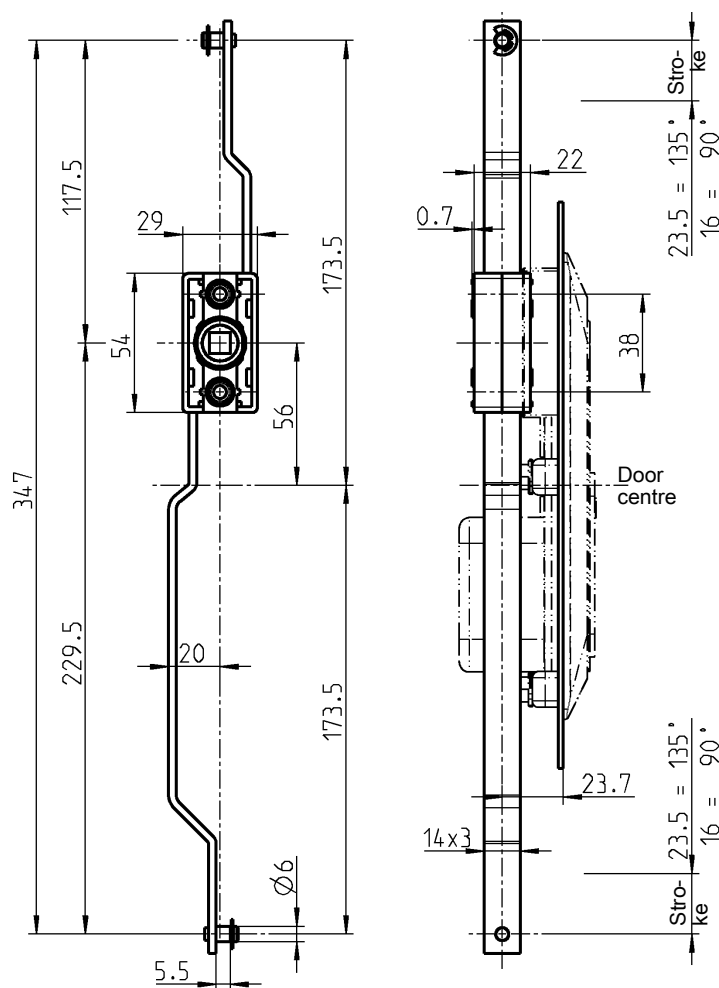
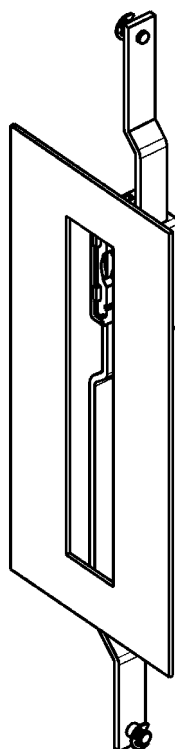
9 Special catalogues

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Beschlagteile



**AISI
INOX**



Rod control housing AISI 316, rods AISI 304

1121-U140

Further parts see page

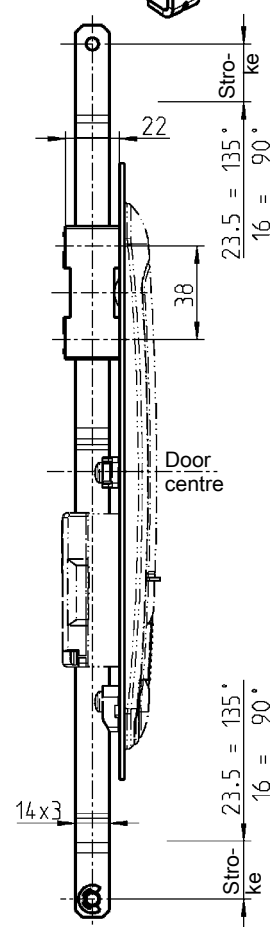
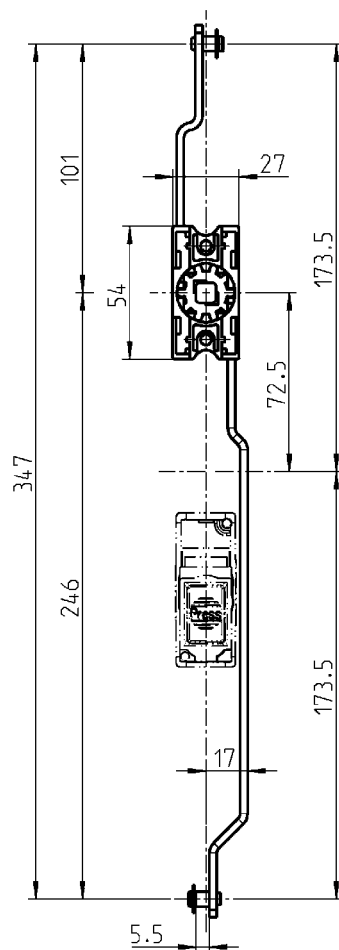
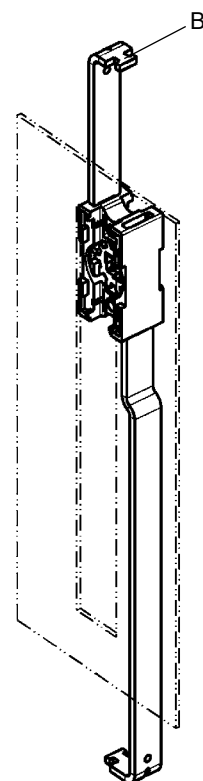
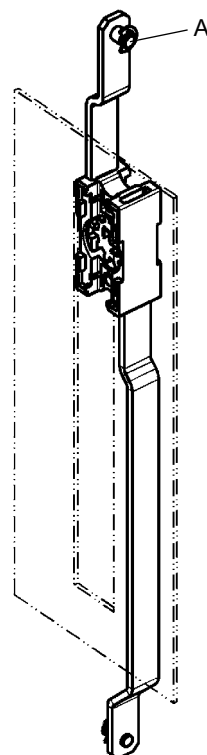
– Rods

on request

Program 1150
– Swinghandle 1154
with RC2

3C-260

3YA-440



Further parts see page

– Rods

outside

3ZA-120

3ZA-320

inside

3ZB-120

3ZB-200

3ZB-220

– 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

Rod control for flat rods

PROGRAM 2100



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

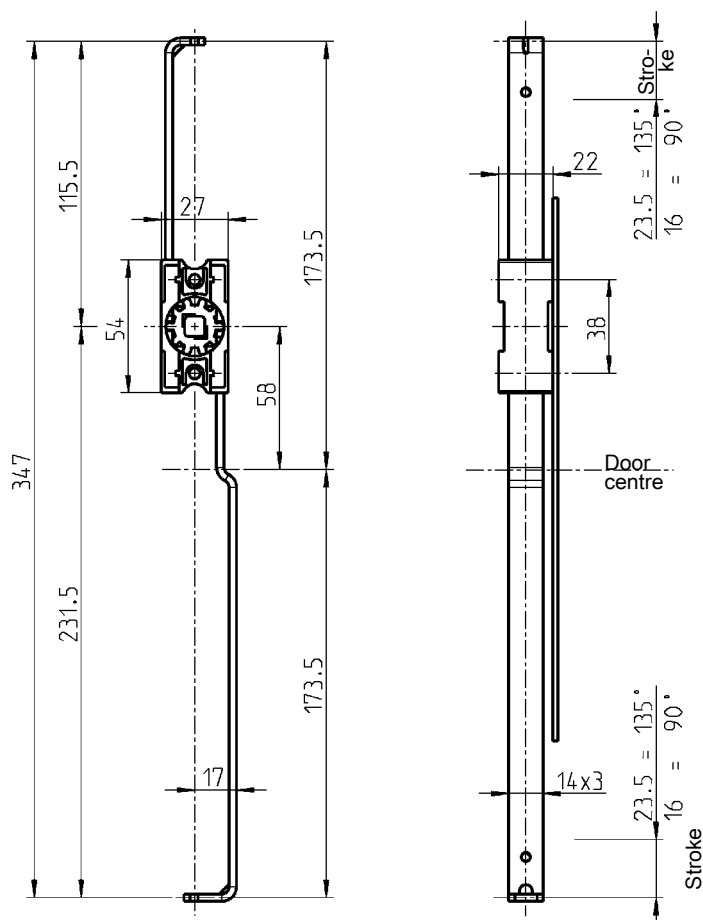
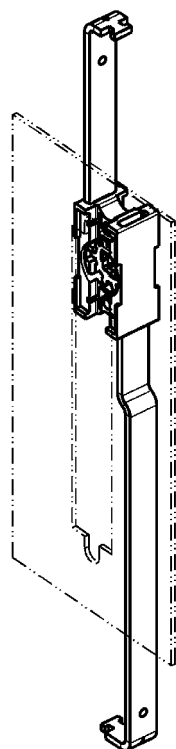
6 Handles

7 Aluminium windows

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Rod control material of choice

Zinc die, rod m.s. zinc-plated

2121-U26-C

Polyamide black, rods aluminium

2121-U27-C

Further parts see page

– Rods

outside

3ZA-120

inside

3ZA-320

3ZB-120

3ZB-200

3ZB-220

3YA-820

– Cam

Program 2100

– Escutcheon

3H-120

3H-220

– Swinghandle

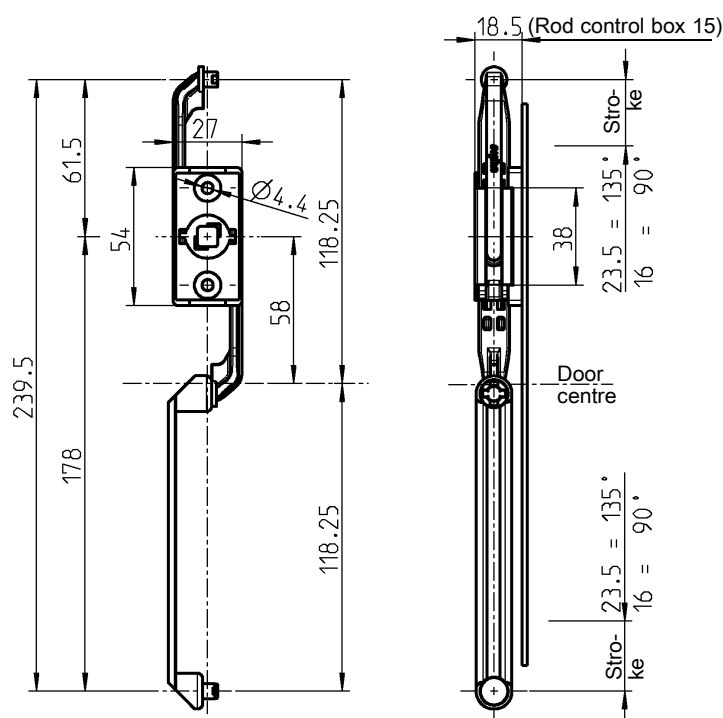
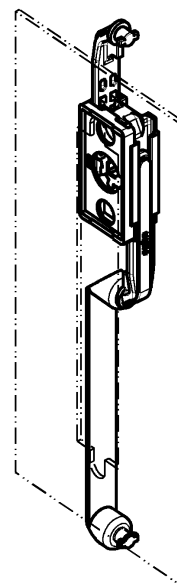
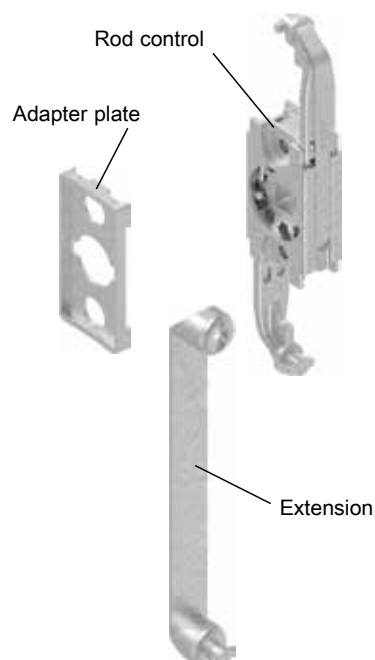
3H-320

to 3H-420

3YA-520 09/14

(3D-360)

Rod control for flat rods PROGRAM 2100



Further parts see page

– Rods

inside

3ZB-120

3ZB-200

3ZB-220

3YA-820

– Cam

Program 2100

– Escutcheon

3H-120

3H-220

– Swinghandle

3H-320

to 3H-420

3YA-540 09/14

(3D-340)

Rod control zinc die

2200-U1-C

Adapter plate zinc die zinc-plated

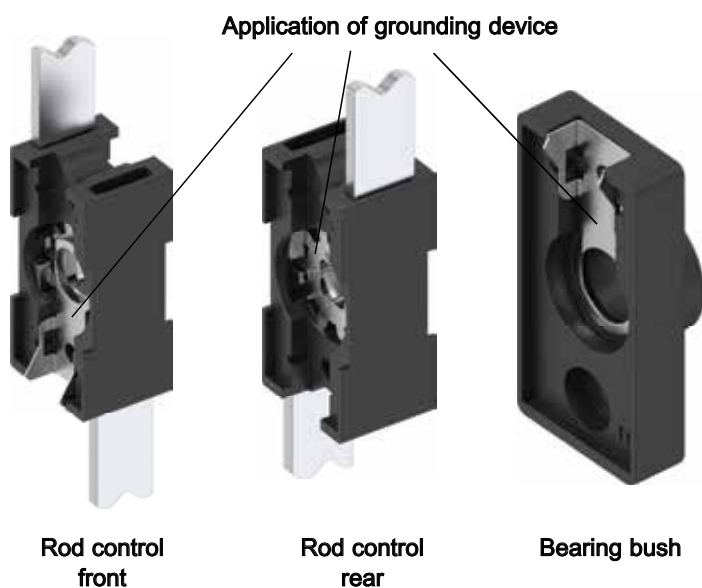
2200-05

Extension zinc die zinc-plated

2200-06

Grounding device for rod control and bearing bush

PROGRAM 1125, 1150, 1225, 1325, 3000



Earthing now also possible
with plastic locks!



Assembly of
grounding device



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

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The grounding device passed
the test according to
DIN EN 60439-1/8.2.4.1!
The resistance is
max. 0.032 Ohm.

Attention:

The grounding device can be
used regardless of the material
of the rod control!

The grounding device will not
change the assembly!

The grounding 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
 to 3YA-240
– Bearing bush 3YB-120
 (for Ts 1.0 to 2.0)

Grounding device stainless steel

1121-117

3YA-720 01/14

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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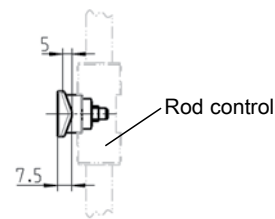
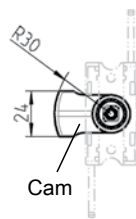
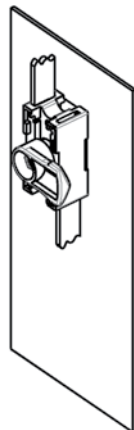
Note:
The ramp increases the compression of the latch by 4 mm.

Program 1325:
Works only with escutcheon.
Combination with swinghandle see page 3YA-840.

Further parts see page
– Ramp 1C-170
– Rod control 3YA-110 to 3YA-540

Cam made of zinc die and steel PROGRAM 1125, 1150, 1225, 1325, 2100, 3000

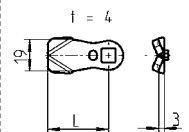
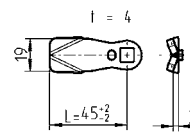
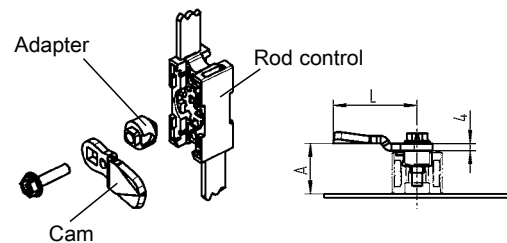
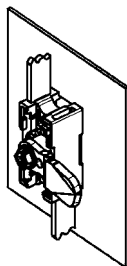
Zinc die cam



Cam zinc die zinc-plated, with screw m.s. zinc-plated

1121-U25

Steel 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	Cams with other A- and L-dimensions on request. Minimum quantity: 2000 pieces	
31	These	1000-50		
33	H-dimensions	1000-13		
35	only apply with	1000-28		
37	a rod control	1000-26		
39		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		

Adapter zinc die, screw m.s. zinc-plated

1121-U40

Cam for rod control

PROGRAM 1325, 2225



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

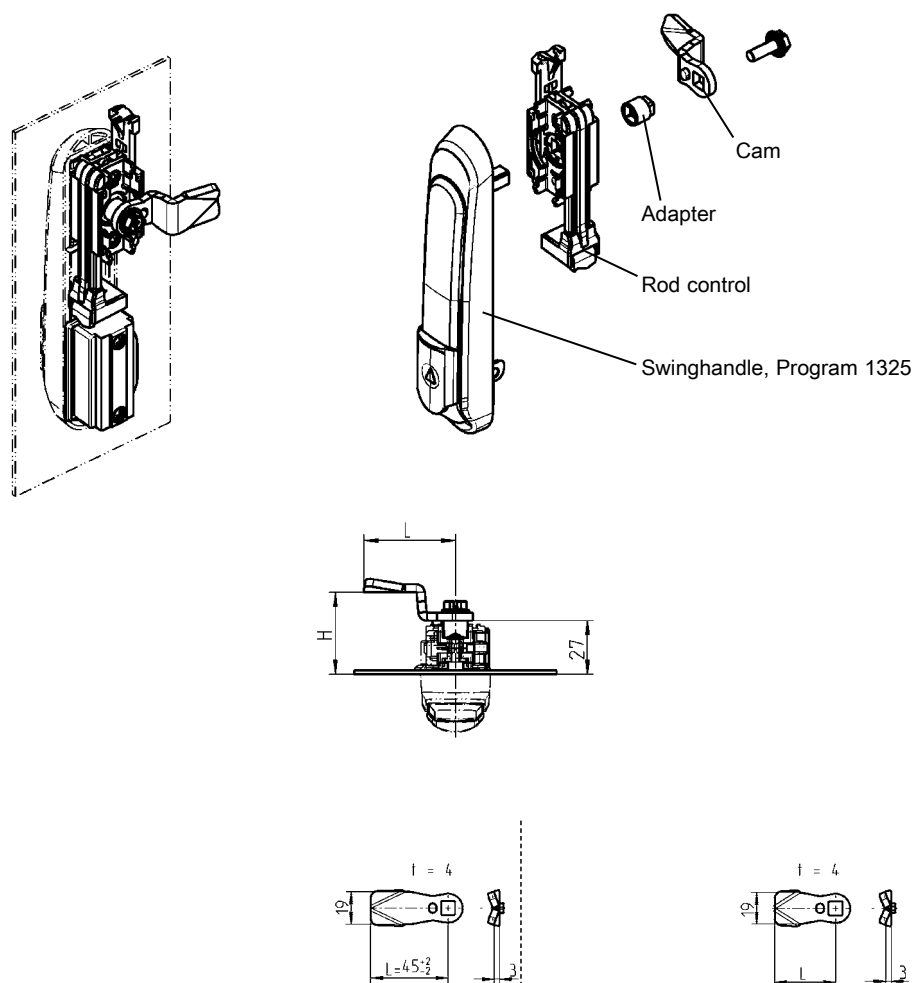
6 Handles

7 Aluminium windows

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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:	Cams with other A- and L-dimensions on request. Minimum quantity: 2000 pieces		
35	These			
37	H-dimensions			
39	only apply with			
41	a rod control			
43				
44				
45				
47				
49				
51				
53				
54				
56				
59				

Adapter AISI 316 L, screw m.s. zinc-plated

1121-U188

Note:

The ramp increases the compression of the latch by 4 mm.

Program 1325:

Works only with swinghandle. 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

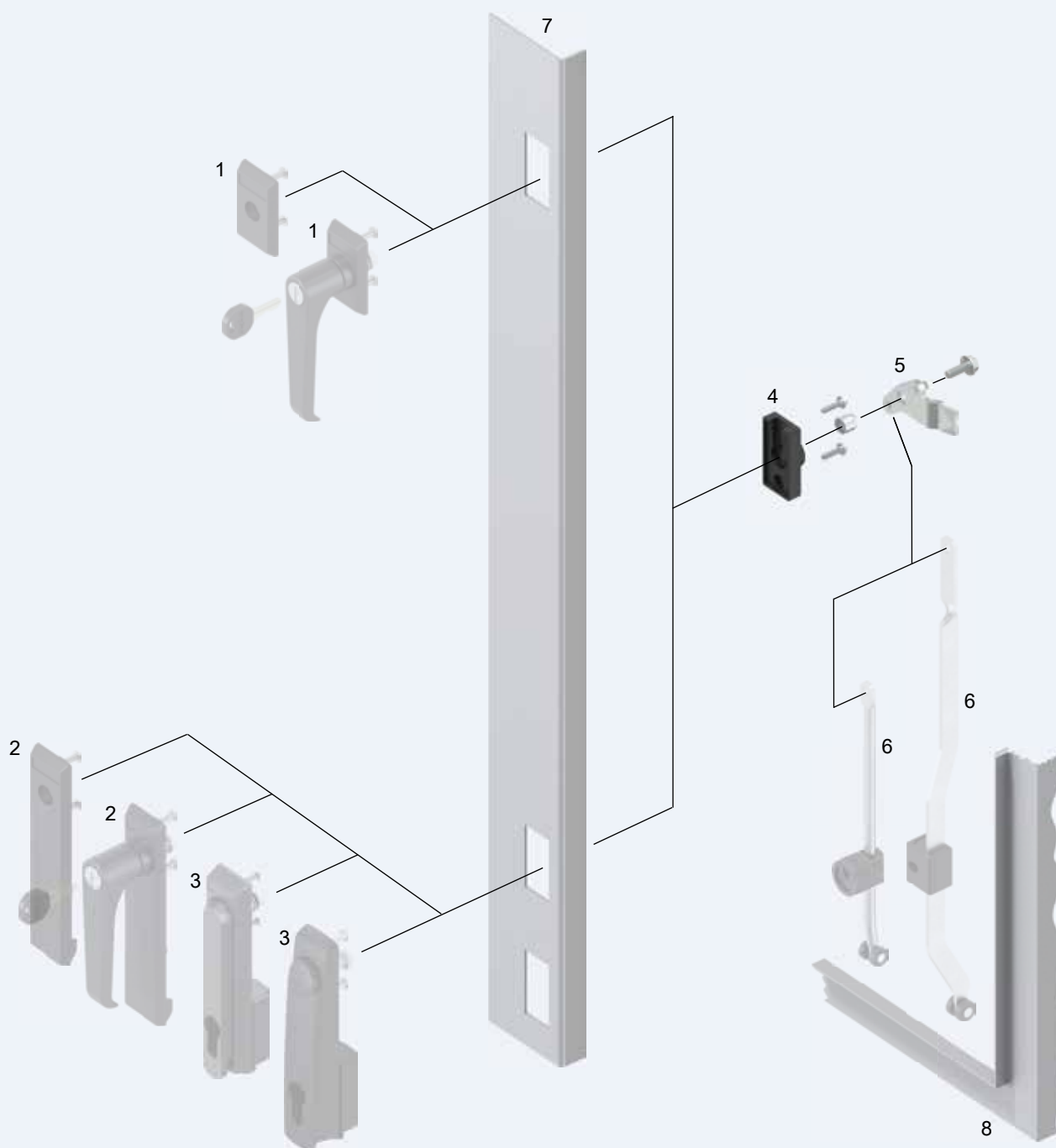
Program 2225

– Swinghandle 3J-120

Info	
1 Quarter turns	Beschlagteile
2 Rod controls	
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
9 Special catalogues	
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Bearing bush with cam

Program 1125, 1225, 1325, 2100, 3000



- 1 Escutcheon small
- 2 Escutcheon long
- 3 Swinghandle
- 4 Bearing bush
- 5 Cam
- 6 Rod (inside the sealing)
- 7 Door
- 8 Housing / 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

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

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Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
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AISI INOX



Note:
Grounding device can be used with bearing bushes for Ts = 1.0, 1.5 and 2.0! (not suitable 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
– Grounding device (not suitable for Program 3000) 3YA-720

Program 1125
– Escutcheon 1121 3B-120
– Escutcheon 1123 3B-180
– Swinghandle 3B-220 3B-420

Program 1225
– Escutcheon 1221 3G-120
– Escutcheon 1223 3G-180
– Swinghandle 3G-220 3G-420 3G-520

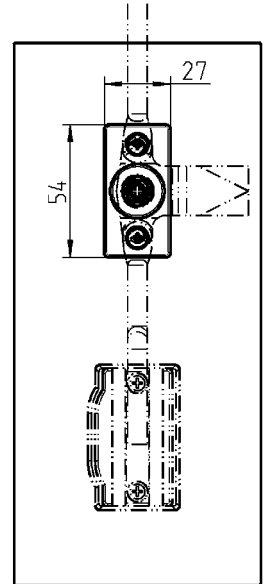
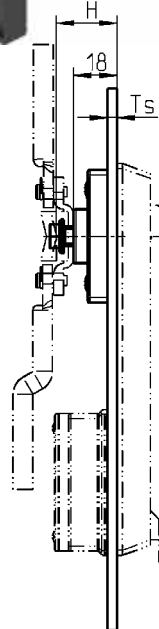
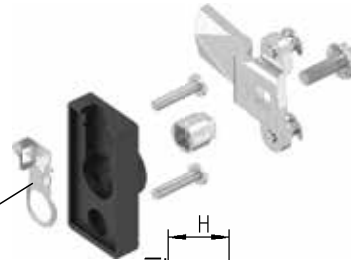
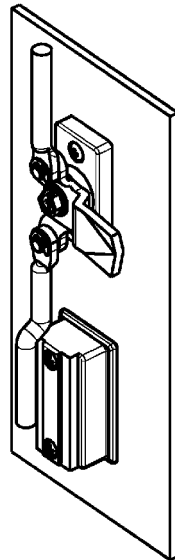
Program 1325
– Escutcheon 1321 3BA-120

Program 3000
– Swinghandle 3N-120

Bearing bush Ts 1.0 – 12.0 mm PROGRAM 1125, 1225, 1325, 3000



Grounding device



Attention: Escutcheons and swinghandles assembled with rear cap can not be used with standard rods!
Special rods on request!

Bearing bush polyamide GF black

	for Ts	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 zinc die zinc-plated

	2.0	1125-81-020QA	–	–
--	-----	---------------	---	---

Bearing bush AISI 316

	2.0	1125-81-020PH	–	–
--	-----	---------------	---	---

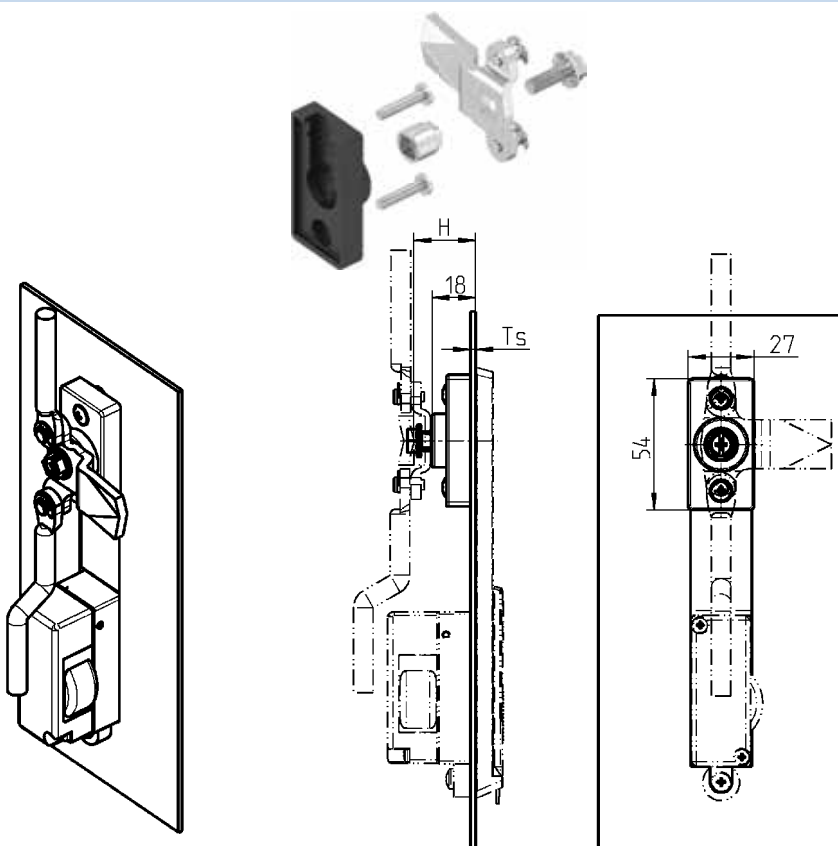
Order extra: (not suitable for program 3000, see note)

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	–	–

Bearing bush Ts 1.0 – 12.0 mm

PROGRAM 2100



Attention: Swinghandles can not be used with standard round rods!
Special rods on request!



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

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Bearing bush polyamide GF black

for Ts	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 2150 3H-120
- Escutcheon 2153 3H-220
- Swinghandle 3H-320 to 3H-420

3YB-140 11/15

(3E-120)

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
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Further parts see page

- Ramp 1C-170
- Rod 3ZB-120
- Bearing bush 3YB-120, 3YB-140

Version A



Version B



Note:
The ramp increases the compression of the latch by 4 mm.

Further parts see page

- Ramp 1C-170

Program 1125, 1225, 1325, 3000

- Rod 3ZB-420
- Bearing bush 3YB-120

Program 2100

- Rod 3ZB-820
- Bearing bush 3YB-140

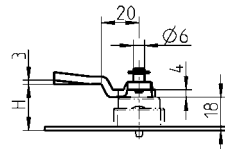
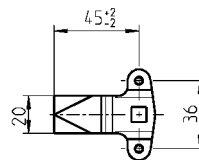
3YB-420 01/13

(3B-220; 3E-220)

Cams for bearing bush without stopper PROGRAM 1125, 1225, 1325, 2100, 3000

Cam with rod control
Stroke 18 mm

Note:
The ramp increases the compression of the latch by 4 mm.



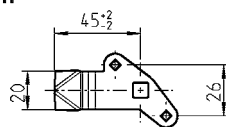
Cam m.s. zinc-plated

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		

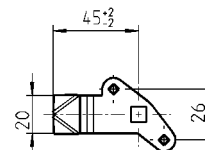
Rod control m.s. zinc-plated

1107-U88

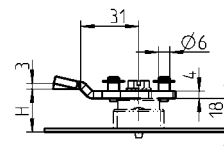
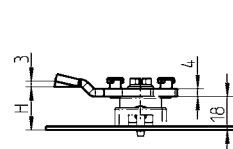
Cam with rod control
Stroke 26 mm



Version A: Cam with T rivets



Version B: Cam with round rivets



Version A: Cam m.s. zinc-plated

H	Right	Left	H	Right	Left
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			

Rod control m.s. zinc-plated

1000-U632

Version B: Cam m.s. zinc-plated

H	Right	Left	H	Right	Left
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

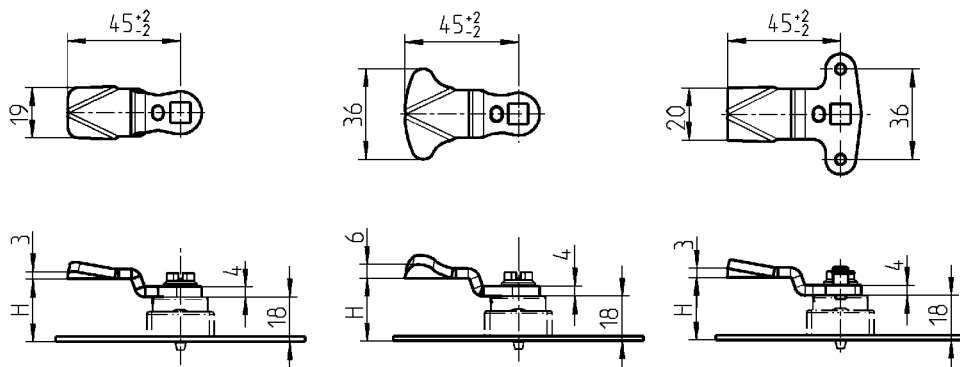
1000-U663

Cams for bearing bush with stopper

PROGRAM 1125, 1225, 1325, 2100, 3000

Cam with rod control

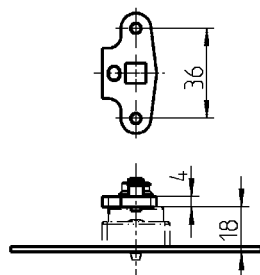
Stroke 18 mm



Cam m.s. zinc-plated		Cam m.s. zinc-plated		Cam m.s. zinc-plated	
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

Cam with rod control

Stroke 18 mm



Rod control m.s. zinc-plated

1000-U167



Note:
The ramp increases the compression of the latch by 4 mm.

Further parts see page

- Ramp 1C-170
- Rod 3ZB-120
- Bearing bush 3YB-120, 3YB-140

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

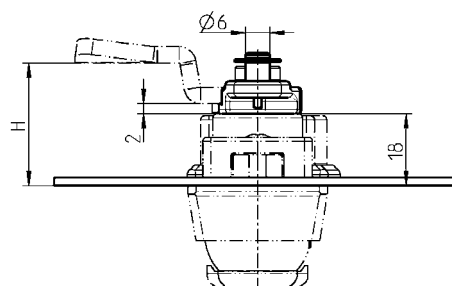
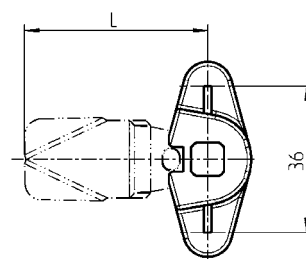
8 Miscellaneous

9 Special catalogues

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EMKA

®

Beschlagteile**AISI
INOX****Rod control for cam****PROGRAM 1125, 1225, 1325, 2100, 3000****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 of the latch
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

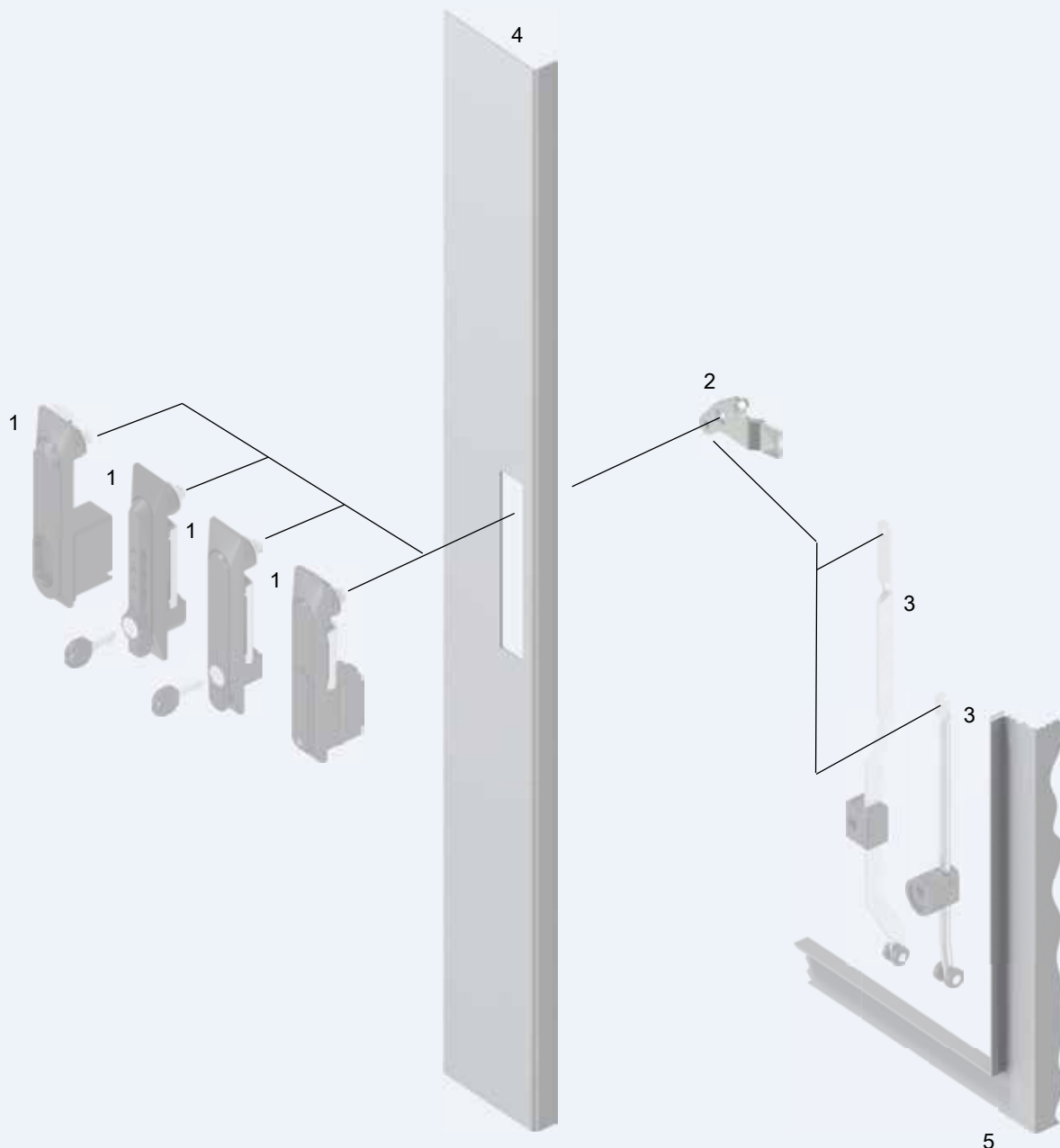
Rod control AISI 316

1107-U246-PH

3YB-460 01/14

Cam

Program 1091, 1107, 1125, 1150, 1180, 1225, 1317, 1325, 2225



- 1 Swinghandle
- 2 Cam
- 3 Rod (inside the sealing)
- 4 Door
- 5 Housing / Frame

Program 1107, 1125, 1150, 1180, 1225, 1317, 1325, 2225
3YC-120, 3YC-140, 3YC-180



3YC-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

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5 Seals

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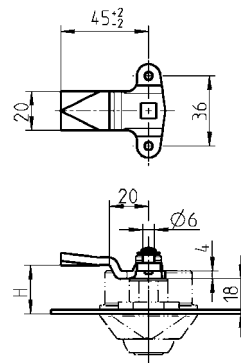


Cam

PROGRAM 1107, 1125, 1150, 1180, 1317, 1325, 2225

Cam with rod control
Stroke 18 mm

Attention:
Not suitable for Program 1150 and
2225!



Further parts see page

– Ramp 1C-170

Program 1107, 1317

– Rod

inside from 3ZB-120

– Swinghandle 1107 3A-120

to 3A-420

– Swinghandle 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

– Swinghandle 1107 3A-120

to 3A-420

– Swinghandle 1317 3AB-120

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

to 3C-320

3C-620

to 3C-750

Program 1180

– Rod

inside 3ZB-620

– Swinghandle 1185 3E-520

3E-540

Program 1325

– Rod

inside 3ZB-420

– Swinghandle 3BA-220

Program 2225

– Rod

inside 3ZB-540

– Swinghandle 3J-120

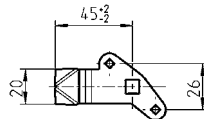
Cam m.s. zinc-plated

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		

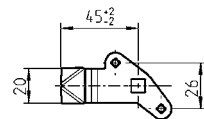
Rod control m.s. zinc-plated

1107-U88

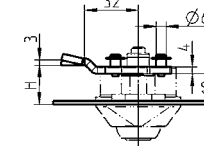
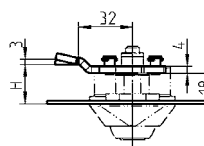
Cam with rod control
Stroke 26 mm



Version A: Cam with T rivets



Version B: Cam with round rivets



Version A: Cam m.s. zinc-plated

H	Right	Left	H	Right	Left
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			

Rod control m.s. zinc-plated

1000-U632

Version B: Cam m.s. zinc-plated

H	Right	Left	H	Right	Left
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

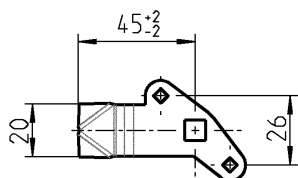
1000-U663

Cam

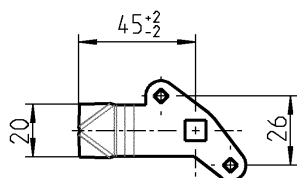
PROGRAM 1125, 1150, 1180, 1225

Cam with rod control
Stroke 26 mm

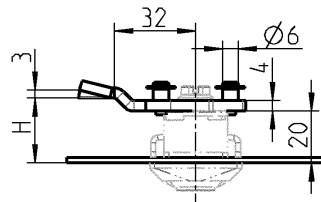
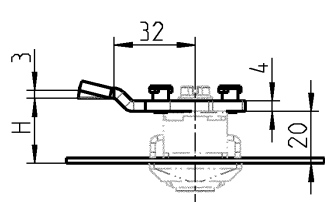
Program 1150, 1180



Version A: Cam with T rivets



Version B: Cam with round rivets



Version A: Cam m.s. zinc-plated

H	Right	Left	H	Right	Left
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			

Rod control m.s. zinc-plated

					1000-U632
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Version B: Cam m.s. zinc-plated

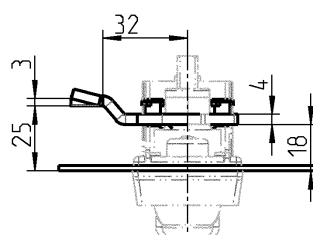
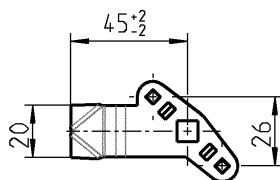
H	Right	Left	H	Right	Left
25	1000-U661-23	1000-U662-23	33	1000-U661-31	1000-U662-31
27	1000-U661-25	1000-U662-25	37	1000-U661-35	1000-U662-35
29	1000-U661-27	1000-U662-27	40	1000-U661-38	1000-U662-38
31	1000-U661-29	1000-U662-29	42	1000-U661-40	1000-U662-40

Rod control m.s. zinc-plated

					1000-U663
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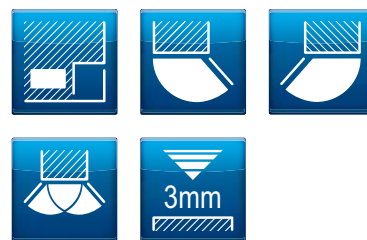
Cam with rod control
Stroke 26 mm

Program 1125, 1225



Version B: Cam m.s. zinc-plated

H	Right	Left
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

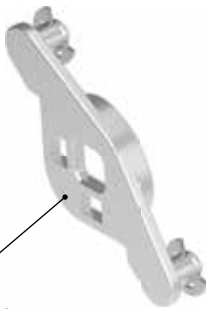
Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
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AISI
INOX



Attention:
By using the rod control
the H-dimension of the cam
increases by 2 mm



Attention:
Only rod with eye can be used!

Further parts see page

- Cam (GH = 18) 1C-120
- Ramp 1C-170
- Rod inside 3ZB-120 (see note)

Program 1107, 1317

- Swinghandle 1107 3A-120 to 3A-220
- Swinghandle 1317 3AB-120 to 3AB-160

Program 1125, 1325

- Swinghandle 1125 (version B) 3B-320
- Swinghandle 1325 3BA-220

Program 1150

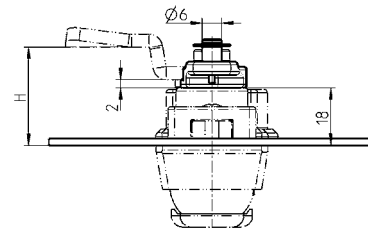
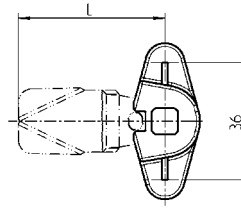
- Swinghandle 1154 3C-220
- Swinghandle 1154 with RC2 3C-260

Rod control for cam

PROGRAM 1091, 1107, 1125 , 1150, 1317, 1325



Stroke 18 mm



Note:

Connecting rod for rod control combined with swinghandle 1125 double cylinder version B and swinghandle 1154 with RC2 on request only!

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

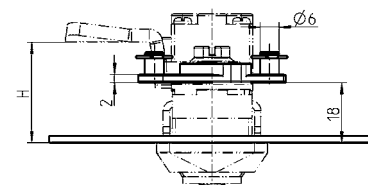
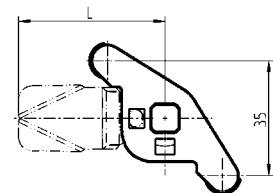
1107-U246

Rod control AISI 316

1107-U246-PH



Stroke 35 mm



Note:

Connecting rod for rod control combined with swinghandle 1125 double cylinder version B and swinghandle 1154 with RC2 on request only!

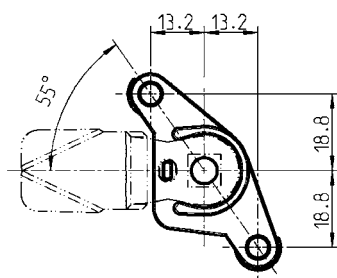
Rod control AISI 316

1150-U57

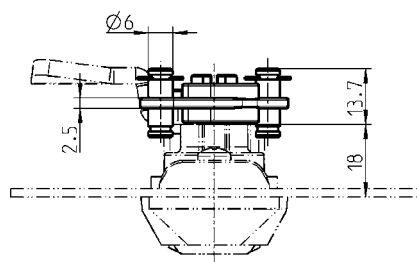
Rod control for cam

PROGRAM 1150, 1325, 2225

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



Stroke 32 mm



Swinghandle 1325 with adapter for cam

Swinghandle 1150 with universal dish



Rod control zinc die zinc-plated; circlip m.s. zinc-plated;
with additional locking screw m.s. zinc-plated

for swinghandle 1150 with universal dish

1150-U63-01

for swinghandle 1325 or 2225 with adapter for cam

1150-U63-02



Attention:

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

Note:

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

Further parts see page

- Cam (GH = 18) 1C-120
- Ramp 1C-170
- Rod for 1150

inside 3ZB-520
Attention: The rod length is reduced by 5.8 mm, as the stroke is 32 mm

– Rod for 1325
 inside 3ZB-420
Attention: The rod length is reduced by 5.8 mm, as the stroke is 32 mm

– Rod for 2225
 inside 3ZB-540
Attention: The rod length is reduced by 5.8 mm, as the stroke is 32 mm

Program 1150 with universal dish

– Swinghandle 1150 3C-720 to 3A-780

Program 1325 with adapter for cam

– Swinghandle 1325 3BA-220

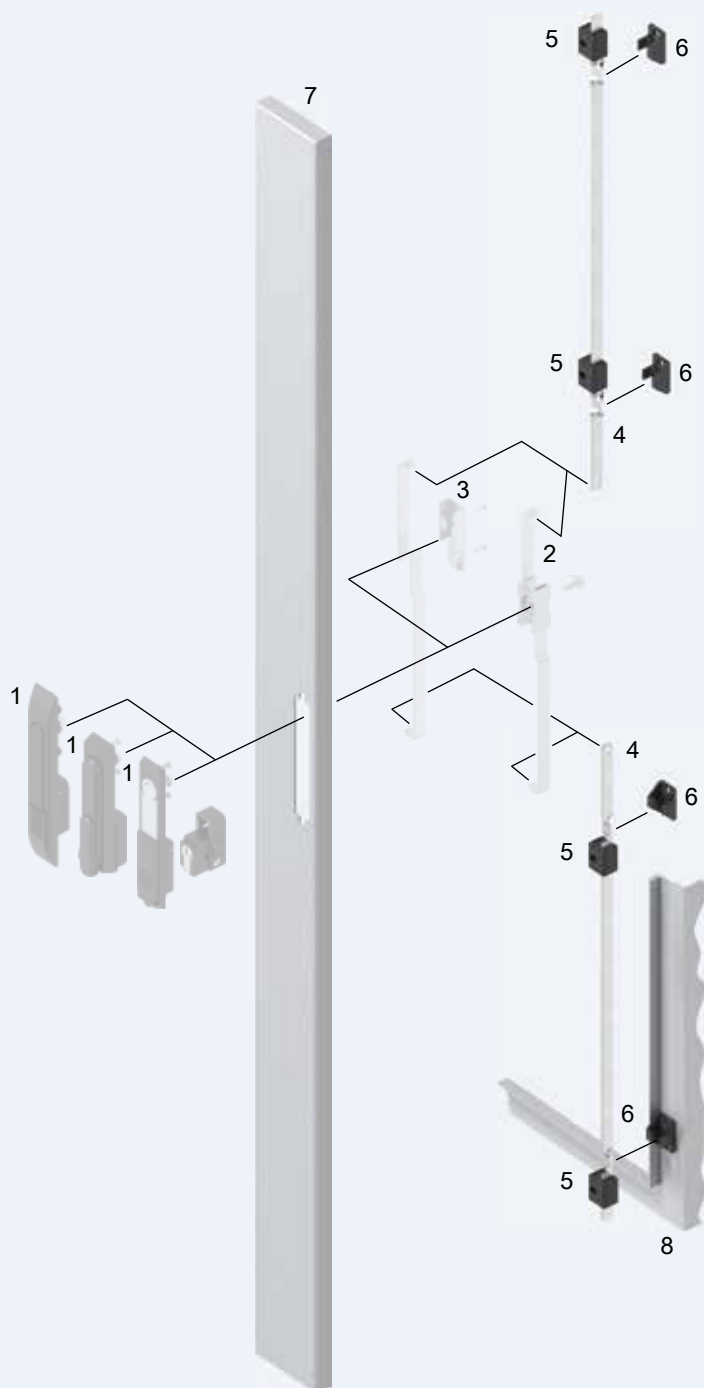
Program 2225 with adapter for cam

– Swinghandle 2225 3J-120

Info	EMKA® Beschlagteile
1 Quarter turns	Notes:
2 Rod controls	
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
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Rod and lock rod outside the sealing

Program 1125, 1150, 1160, 1180, 1190, 1225, 1325, 1390, 2100, 2400, 3000



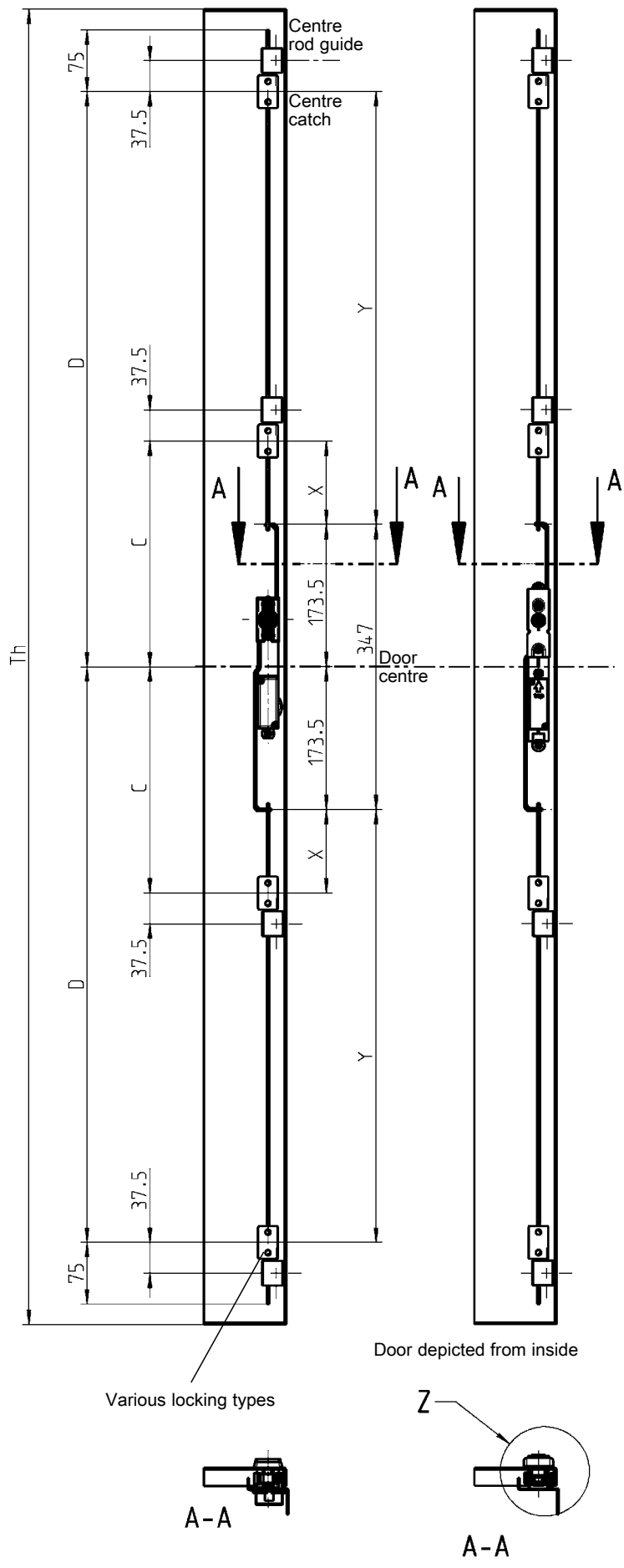
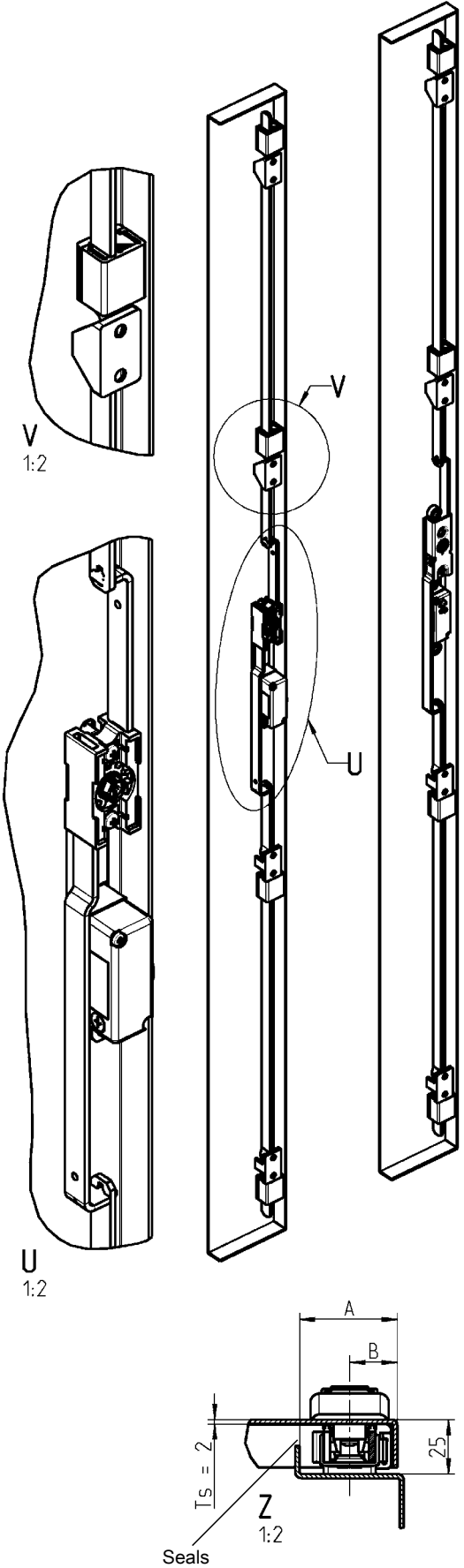
- 1 Swinghandle and escutcheon, Program 1125, 1150, 1160, 1180, 1190, 1225, 1325, 1390, 2100, 2400, 3000
- 2 Rod control
- 3 Rod control
- 4 Rod / Lock rod (outside the sealing)
- 5 Rod guide
- 6 Catch
- 7 Door
- 8 Housing / Frame



3ZA-100

Rods

PROGRAM 1125, 1150, 1160, 1180, 1190, 1225, 1325, 1390, 2100, 3000



4 various locking types



Rod with locking slider
see catalogue page 3ZA-220



Twisted rod
see catalogue page 3ZA-220



Rod with double roller
see catalogue page 3ZA-260



Rod with notch
see catalogue page 3ZA-260

Attention:
Rods with 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 90° 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
– Lifthandle 3F-120
– Escutcheon 3F-220

Program 1390
– Escutcheon 3FA-120
– Lifthandle 3FA-140

Program 1125, 1150, 1225, 1325, 3000
– Rod control 3YA-110

Program 1150
– Rod control 3YA-420
3YA-440

Program 2100
– Rod control 3YA-520

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

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Note:
For dimensions see table
on catalogue page 3ZA-120

Further parts see page
– Catch 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
– Lifthandle 3F-120
– Escutcheon 3F-220

Program 1390
– Escutcheon 3FA-120
– Lifthandle 3FA-140

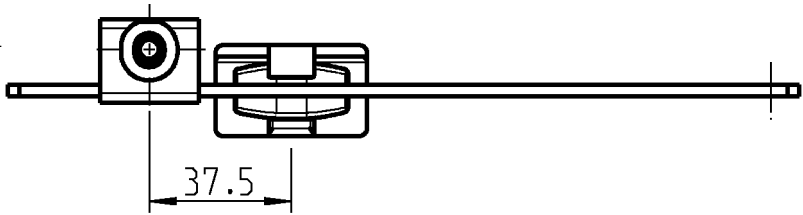
**Program 1125, 1150,
1225, 1325, 3000**
– Rod control 3YA-110

Program 1150
– Rod control 3YA-420
3YA-440

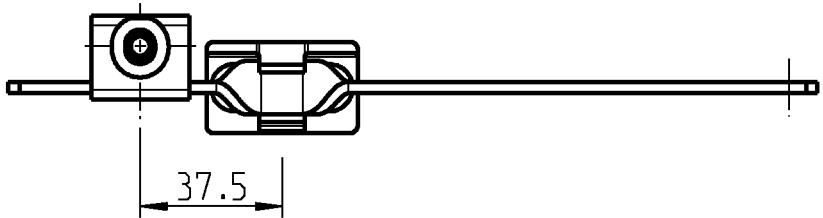
Program 2100
– Rod control 3YA-520

Overview of rods

PROGRAM 1125 - 3000



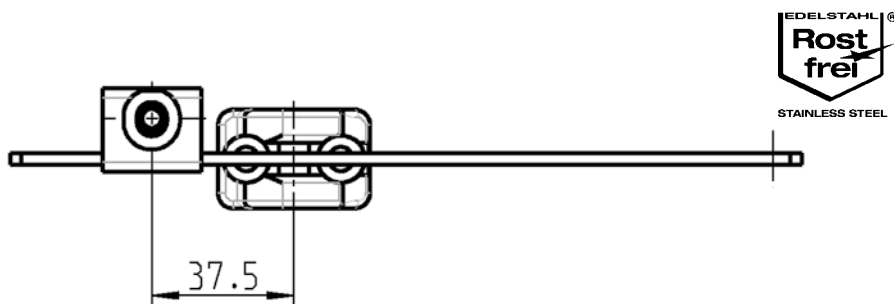
Door height Th	Rods		Locking points (door centre)		Rod material of choice; locking slider polyamide GF black	
	Dim. X	Dim. Y	Dim. C	Dim. D	Material	Part no.
800-1200	–	126.5	–	300	m.s. zinc-plated	1121-U99
					Aluminium	1121-U100
					AISI 304	1121-U101
1200-1600	–	276.5	–	450	m.s. zinc-plated	1121-U105
					Aluminium	1121-U106
					AISI 304	1121-U107
1600-1900	101.5	526.5	275	700	m.s. zinc-plated	1121-U111
					Aluminium	1121-U112
					AISI 304	1121-U113
1900-2200	101.5	676.5	275	850	m.s. zinc-plated	1121-U117
					Aluminium	1121-U118
					AISI 304	1121-U119



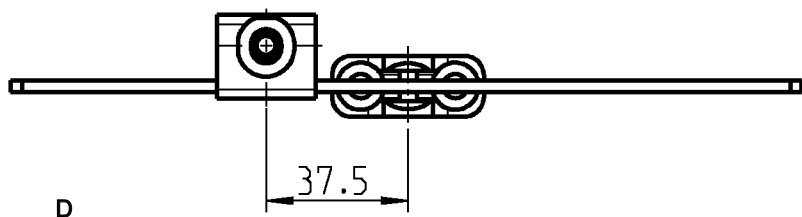
Door height Th	Rods		Locking points (door centre)		Rod material of choice	
	Dim. X	Dim. Y	Dim. C	Dim. D	Material	Part no.
800-1200	–	126.5	–	300	m.s. zinc-plated	1121-71-01RA
					Aluminium	1121-71-01TA
					AISI 304	1121-71-01PC
1200-1600	–	276.5	–	450	m.s. zinc-plated	1121-71-03RA
					Aluminium	1121-71-03TA
					AISI 304	1121-71-03PC
1600-1900	101.5	526.5	275	700	m.s. zinc-plated	1121-71-05RA
					Aluminium	1121-71-05TA
					AISI 304	1121-71-05PC
1900-2200	101.5	676.5	275	850	m.s. zinc-plated	1121-71-07RA
					Aluminium	1121-71-07TA
					AISI 304	1121-71-07PC

Overview of rods

PROGRAM 1125 - 3000



Door height Th	Rods		Locking points (door centre)		Rod material of choice; double roller brass	
	Dim. X	Dim. Y	Dim. C	Dim. D	Material	Part no.
800-1200	-	126.5	-	300	m.s. zinc-plated	1121-U155
					Aluminium	on request
					AISI 304	on request
1200-1600	-	276.5	-	450	m.s. zinc-plated	1121-U158
					Aluminium	on request
					AISI 304	on request
1600-1900	101.5	526.5	275	700	m.s. zinc-plated	1121-U161
					Aluminium	on request
					AISI 304	on request
1900-2200	101.5	676.5	275	850	m.s. zinc-plated	1121-U164
					Aluminium	on request
					AISI 304	on request



Door height Th	Rods		Locking points (door centre)		Rod material of choice	
	Dim. X	Dim. Y	Dim. C	Dim. D	Material	Part no.
800-1200	-	126.5	-	300	m.s. zinc-plated	1121-68-01RA
					Aluminium	-
					AISI 304	-
1200-1600	-	276.5	-	450	m.s. zinc-plated	1121-68-03RA
					Aluminium	-
					AISI 304	-
1600-1900	101.5	526.5	275	700	m.s. zinc-plated	1121-68-05RA
					Aluminium	-
					AISI 304	-
1900-2200	101.5	676.5	275	850	m.s. zinc-plated	1121-68-07RA
					Aluminium	-
					AISI 304	-



Note:
For dimensions see table
on catalogue page 3ZA-120

Further parts see page

– Catch 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

– Lifthandle 3F-120
– Escutcheon 3F-220

Program 1390

– Escutcheon 3FA-120
– Lifthandle 3FA-140

Program 1125, 1150, 1225, 1325, 3000

– Rod control 3YA-110
3YA-120

Program 1150

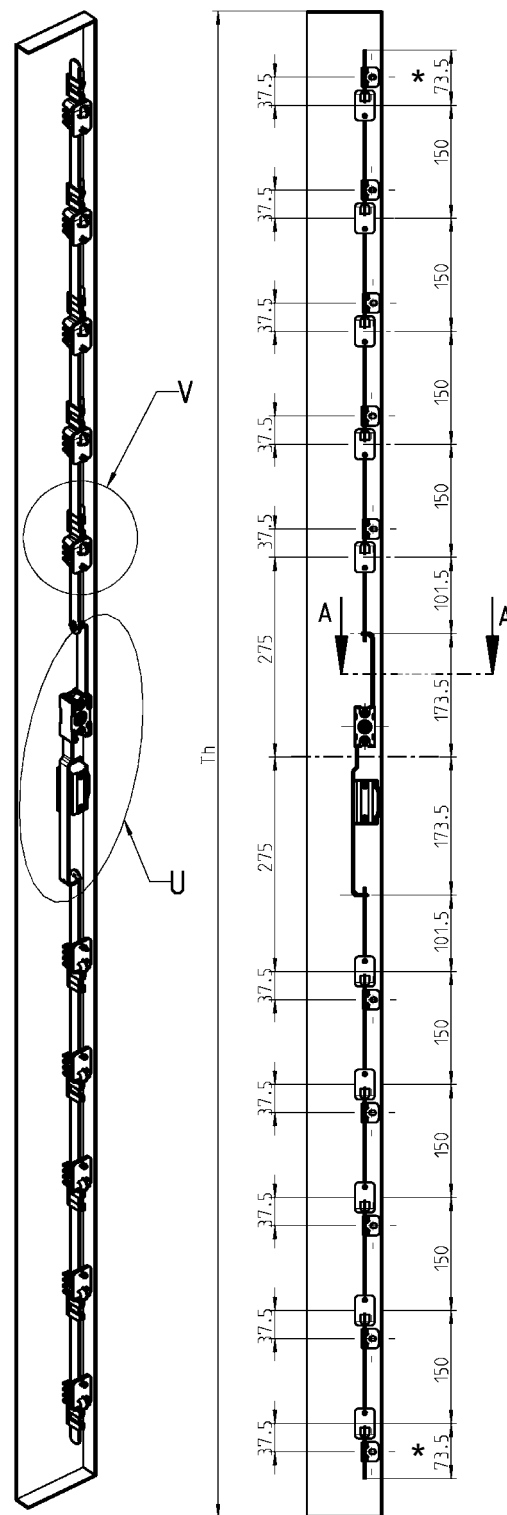
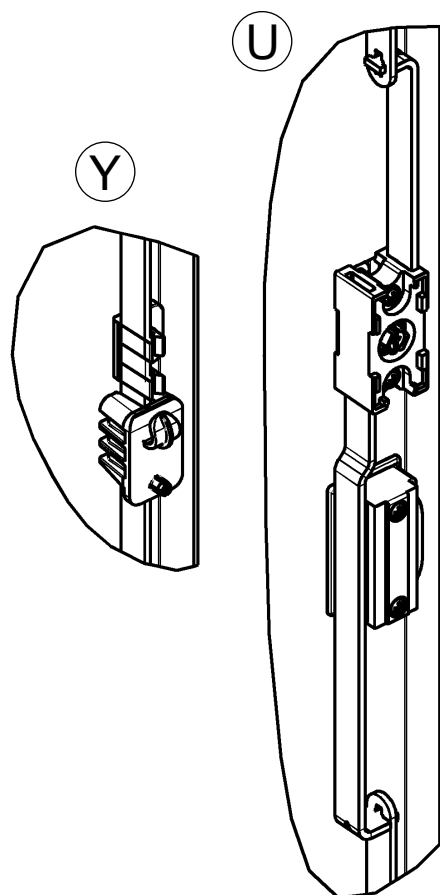
– Rod control 3YA-420
3YA-440

Program 2100

– Rod control 3YA-520

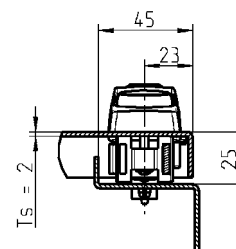


Door depicted transparent



Door depicted from inside

* = Minimum length
for shortened
rods 50 mm



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

– Lifthandle 3F-120
– Escutcheon 3F-220

Program 1390

– Escutcheon 3FA-120
– Lifthandle 3FA-140

Program 1125, 1150, 1225, 1325, 3000

– Rod control 3YA-120

Program 1150

– Rod control 3YA-420
3YA-440

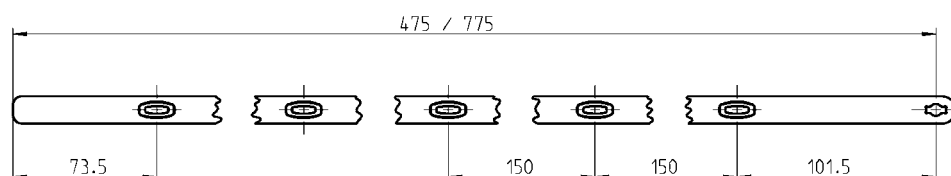
Program 2100

– Rod control 3YA-520

Rod with locking slider see catalogue page 3ZA-340

Rods, Catches

PROGRAM 1125 - 3000



Rod with locking slider polyamide GF 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

Rod with locking slider polyamide GF silver grey metallic

Door height Th	Locking points	Rod length * =Rod has to be shortened!	
800-1300	2-3	475 *	on request
1300-1600	3	475	on request
1600-1900	4-5	775 *	1121-115-01CX
1900-2200	5	775	1121-115-01CX



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

– Lifthandle 3F-120
– Escutcheon 3F-220

Program 1390

– Escutcheon 3FA-120
– Lifthandle 3FA-140

Program 1125, 1150, 1225, 1325, 3000

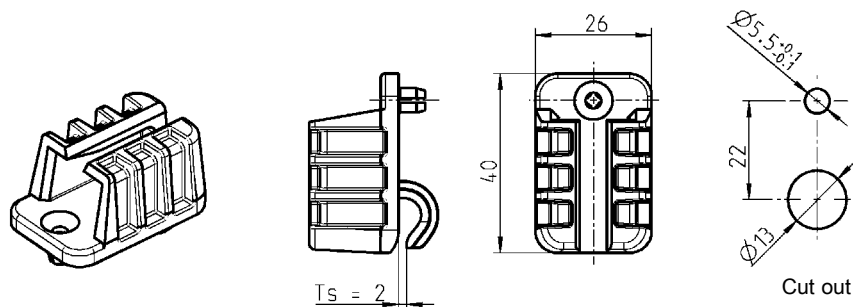
– Rod control 3YA-120

Program 1150

– Rod control 3YA-420 3YA-440

Program 2100

– Rod control 3YA-520



Catch polyamide black

for countersunk screw Ø 3.5 x 13 1121-116-01

Catch polyamide silver grey metallic

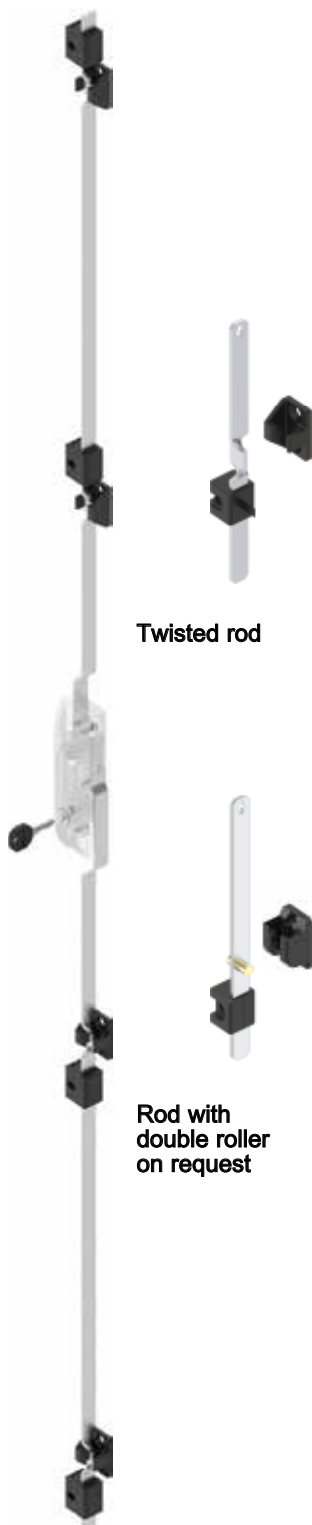
for countersunk screw Ø 3.5 x 13 1121-116-01CX

Countersunk screw Ø 3.5 x 13

000104

3ZA-340 02/20

(3ZA-740)



Twisted rod

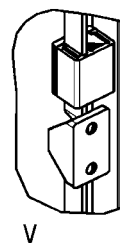
Rod with
double roller
on request

Further parts see page

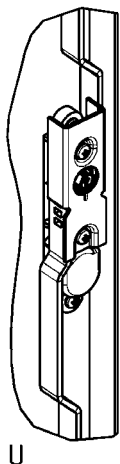
- Catch 3ZA-1220
- Rod guide 3ZC-120 to 3ZC-170

Program 1160

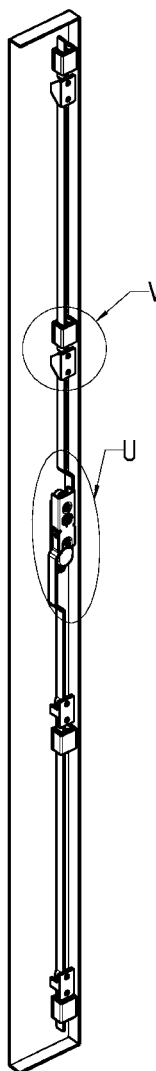
- Swinghandle and escutcheon 3D-220



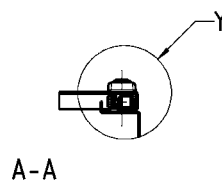
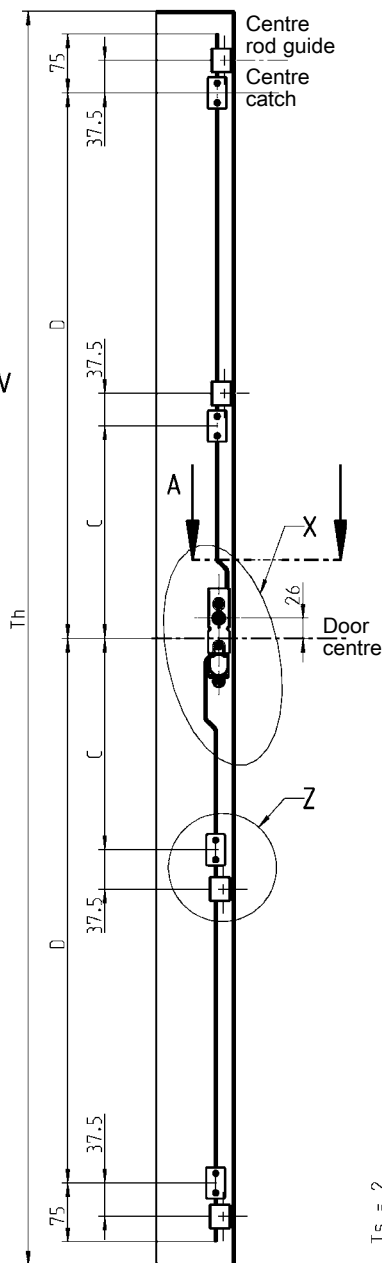
V



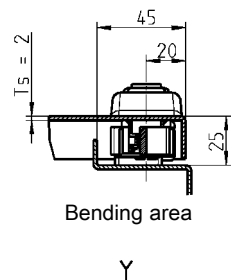
U



Door depicted from inside



A-A



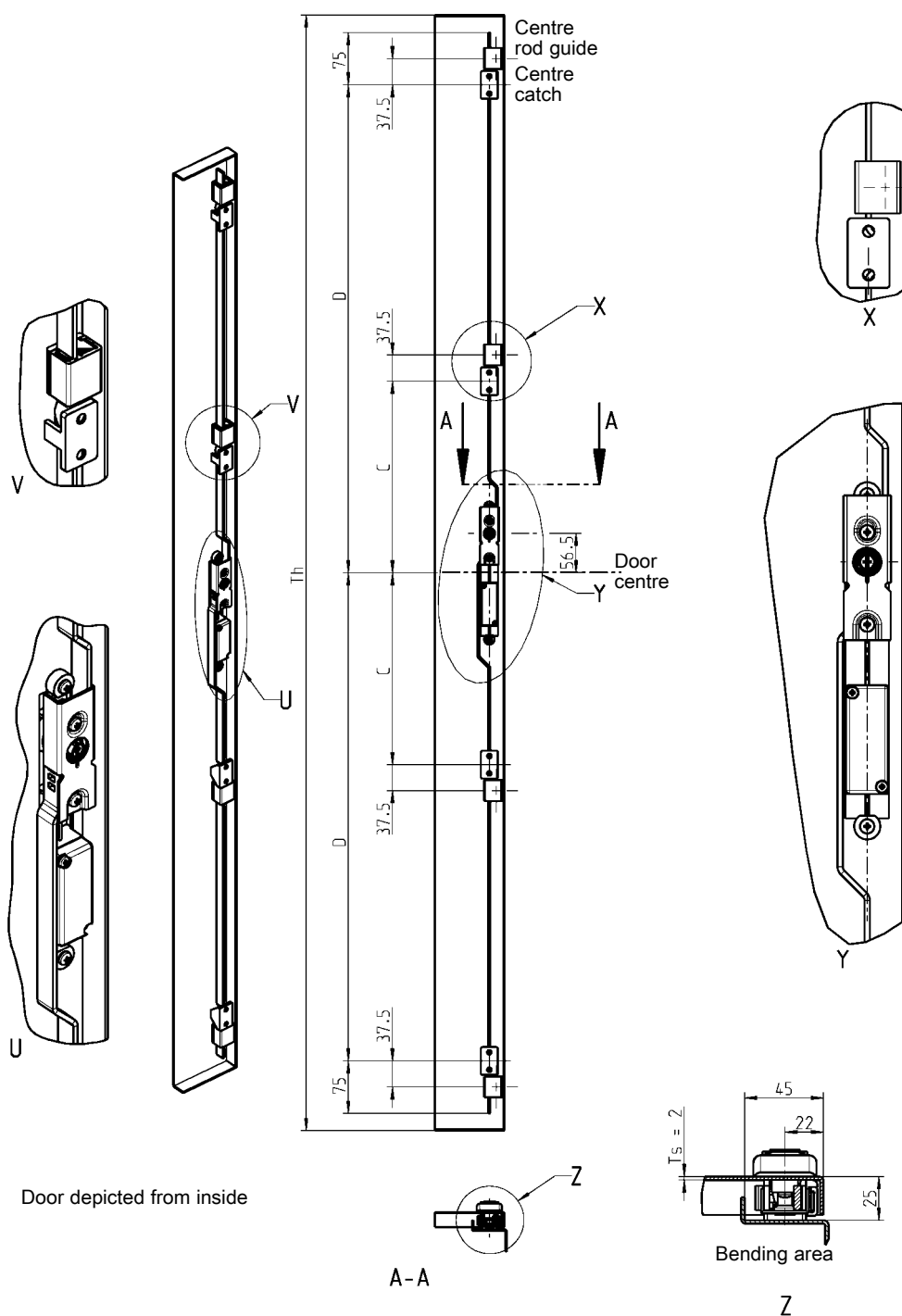
Bending area

Y

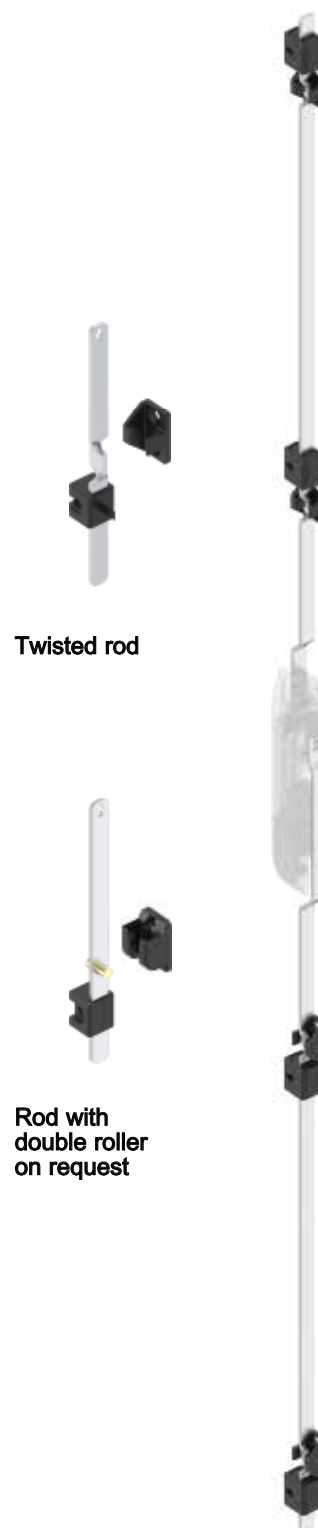
Door height Th	Locking points (door centre)		Part no. upper rod		Part no. lower rod	
	Dim. C	Dim. D	m.s. zinc-plated	Aluminium	m.s. zinc-plated	Aluminium
800-1200	–	300	1160-08-01RA	on request	1160-09-01RA	on request
1200-1600	–	450	1160-08-03RA	on request	1160-09-03RA	on request
1600-1900	275	700	1160-08-05RA	on request	1160-09-05RA	on request
1900-2200	275	850	1160-08-07RA	on request	1160-08-07RA	on request

Twisted rods

PROGRAM 1180



Door depicted from inside



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

Index

Door height Th	Locking points (door centre)		Part no. upper rod		Part no. lower rod	
	Dim. C	Dim. D	m.s. zinc-plated	Aluminium	m.s. zinc-plated	Aluminium
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

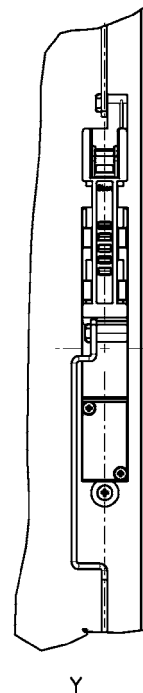
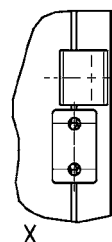
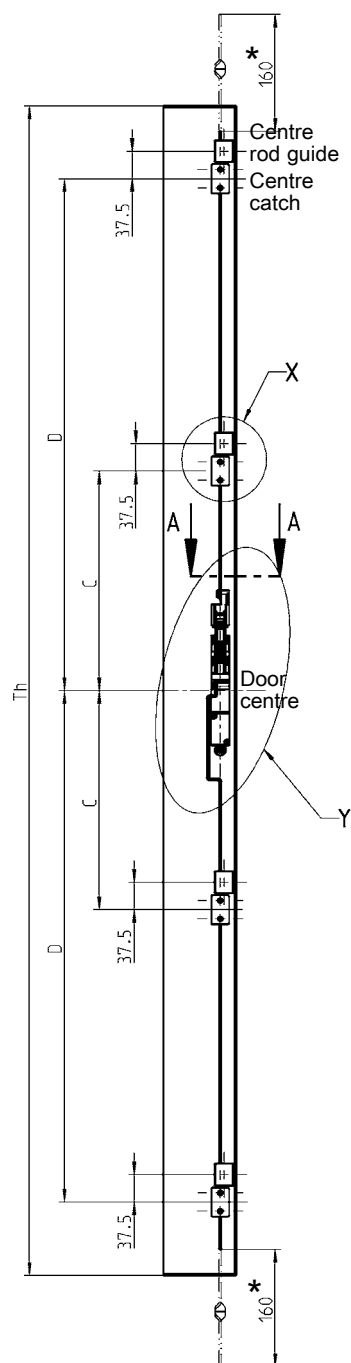
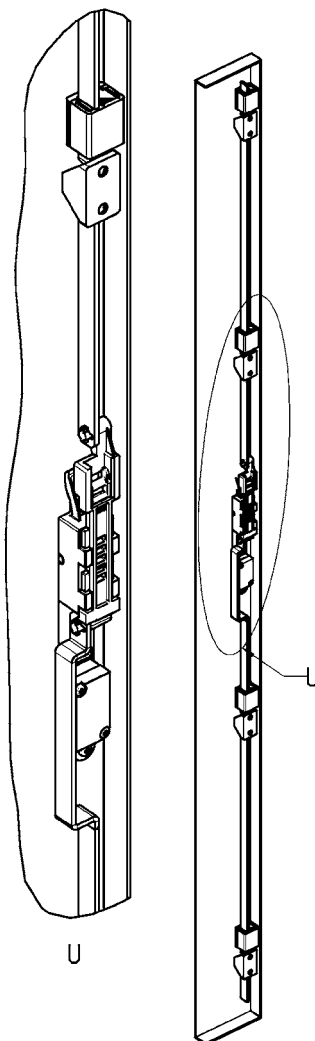
– Catch 3ZA-1220
– Rod guide 3ZC-120
to 3ZC-170

Program 1180

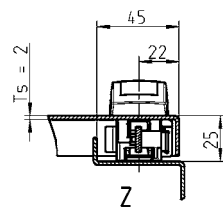
– Swinghandle and
escutcheon 3E-220

3ZA-520 01/14

(3P-420)



Door depicted from inside with
Th = 1600-1900 as example



Bending area

* Flat rod has
to be shortened

Further parts see page

– Catch 3ZA-1220
– Rod guide 3ZC-120
to 3ZC-170

Program 1190

– Swinghandle 3F-320
3F-330

Door height Th	Locking points (door centre)		Part no. upper rod		Part no. lower rod	
	Dim. C	Dim. D	m.s. zinc-plated	Aluminium	m.s. zinc-plated	Aluminium
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

Twisted rods

PROGRAM 2400

EMKA

Beschlagteile

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

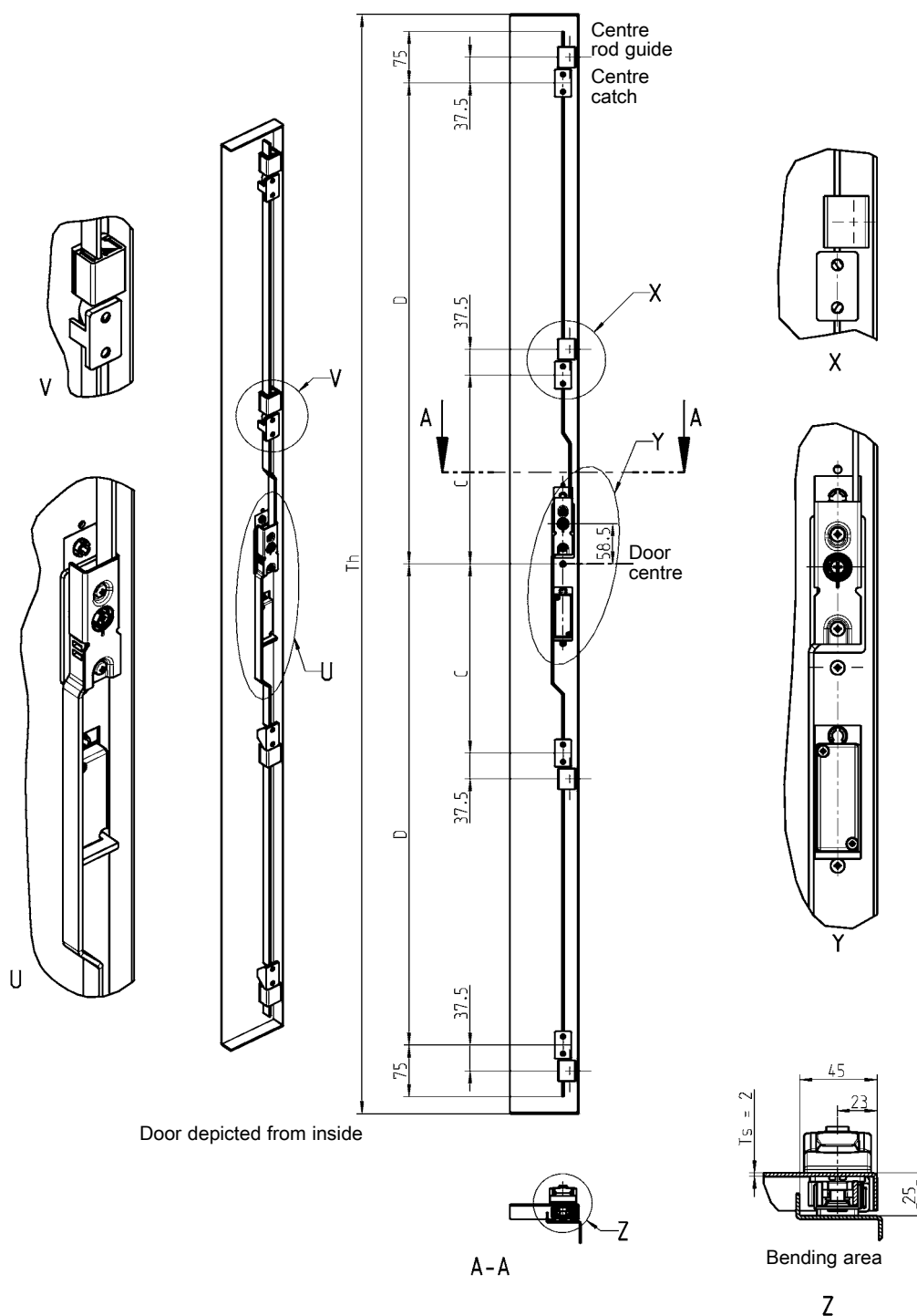
6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

Index



Door depicted from inside



Door height Th	Locking points (door centre)		Part no. upper rod		Part no. lower rod	
	Dim. C	Dim. D	m.s. zinc-plated	Aluminium	m.s. zinc-plated	Aluminium
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
– Catch 3ZA-1220
– Rod guide 3ZC-120
to 3ZC-170

Program 2400
– Escutcheon 3K-220

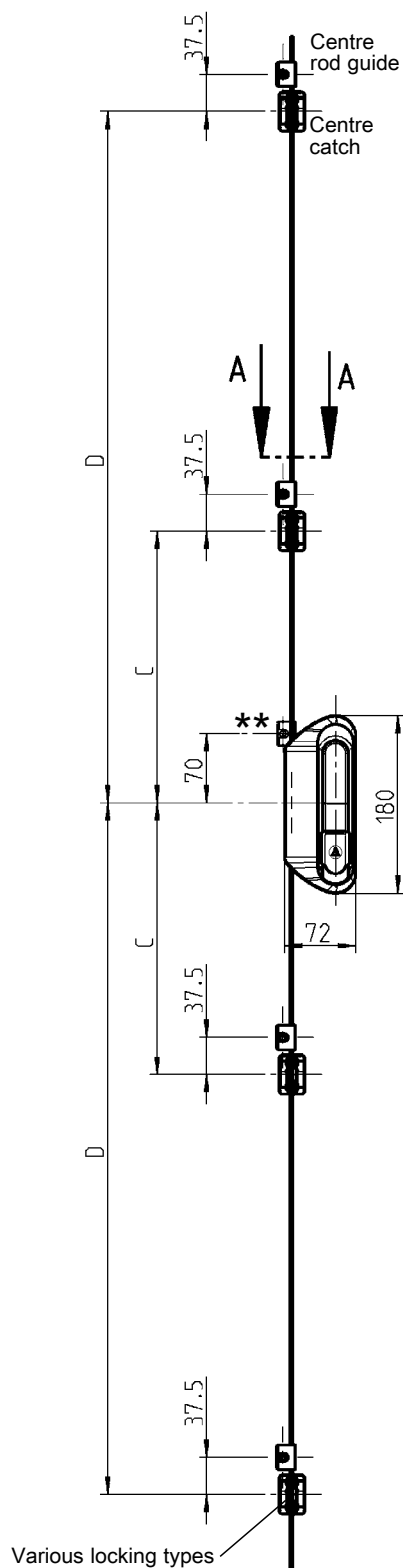
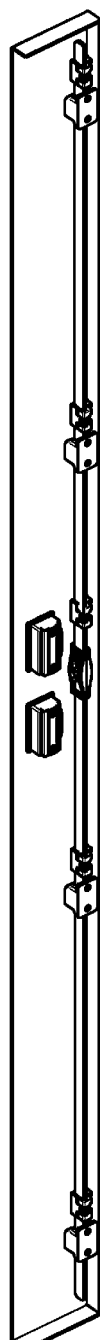
3ZA-580 01/14

(3ZA-820)

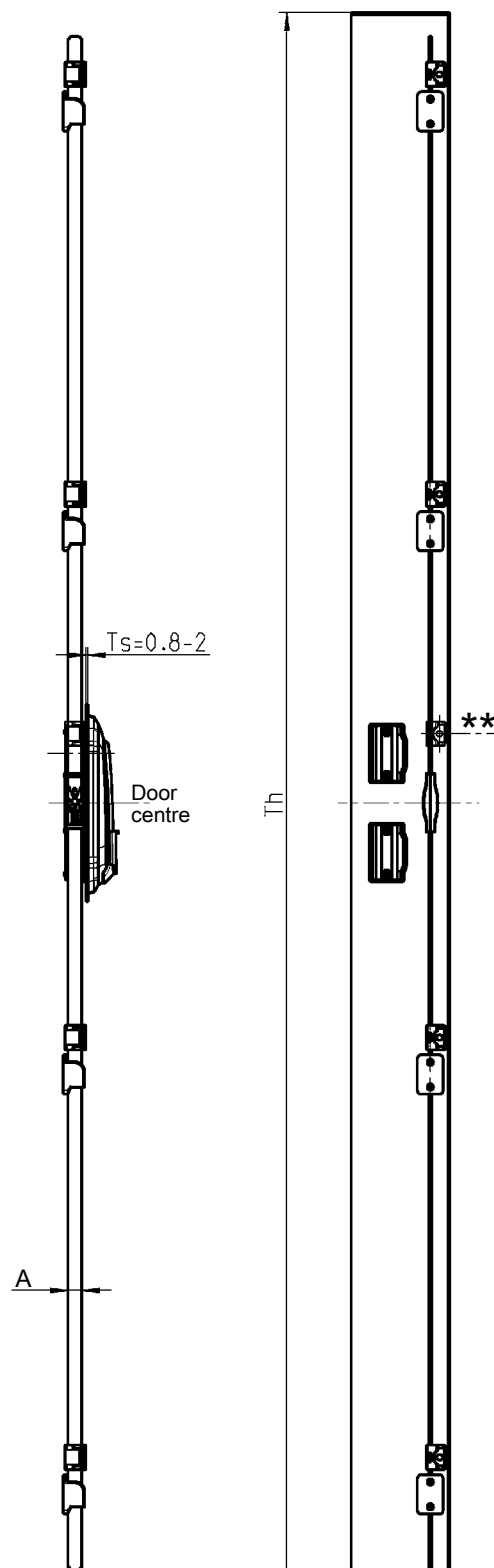
Items printed in gray without stock

Rods for small bending area

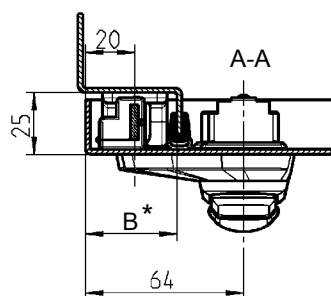
PROGRAM 1325



depicted without door



Door depicted from inside



* The values in the table for dimension B with seal refer to the seal 1011-10. With other seals, the values for dimension B differ.

Dimension A	Flat rod 14x3	
Locking type (see right)	Dimension B	
	without seal	with seal
1	30	33
2	30	33
3	34	37

Locking types



1

Rod with cut out



2

Rod with single roller



3

Rod with double roller



Locking type	Article	Catalogue page	Part no.
1	Catch	3ZA-1220	1121-U76
	Rod guide	3ZC-120 3ZC-140	1121-89-11 1121-106
	Rod with notch	see below	
	Hinge	① see below right	
2	Catch	-	2600-12
	Rod guide	3ZC-120 3ZC-140	1121-89-11 1121-106
	Rod control with single roller	see below	
	Hinge	① see below right	
3	Catch	3ZA-1220	1121-18-02
	Rod guide	3ZC-120 3ZC-140	1121-89-11 1121-106
	Rod control with double roller	see below	
	Hinge	① see below right	

Rod 14x3 m.s. zinc-plated				
Door height Th	Locking points (door centre)			Part no.
	Dim. C	Dim. D	Locking type	
800-1200	-	300	1 (upper rod)	1325-15-01JB
			1 (lower rod)	1325-14-01JB
			2	on request
			3	on request
1200-1600	-	450	1 (upper rod)	1325-15-03JB
			1 (lower rod)	1325-14-03JB
			2	on request
			3	on request
1600-1900	275	700	1 (upper rod)	1325-15-05JB
			1 (lower rod)	1325-14-05JB
			2	on request
			3	on request
1900-2200	275	850	1 (upper rod)	1325-15-07JB
			1 (lower rod)	1325-14-07JB
			2	on request
			3	on request



① Fixing of hinge with countersunk screws

**** Note:**
Additional rod guides necessary for door height up to 1600 mm

Further parts see page

Hinge suitable for locking types 1, 2 and 3

- 125° Hinge 4A-136
- 180° Hinge (bottom) 4A-140
- 180° Hinge 4A-145

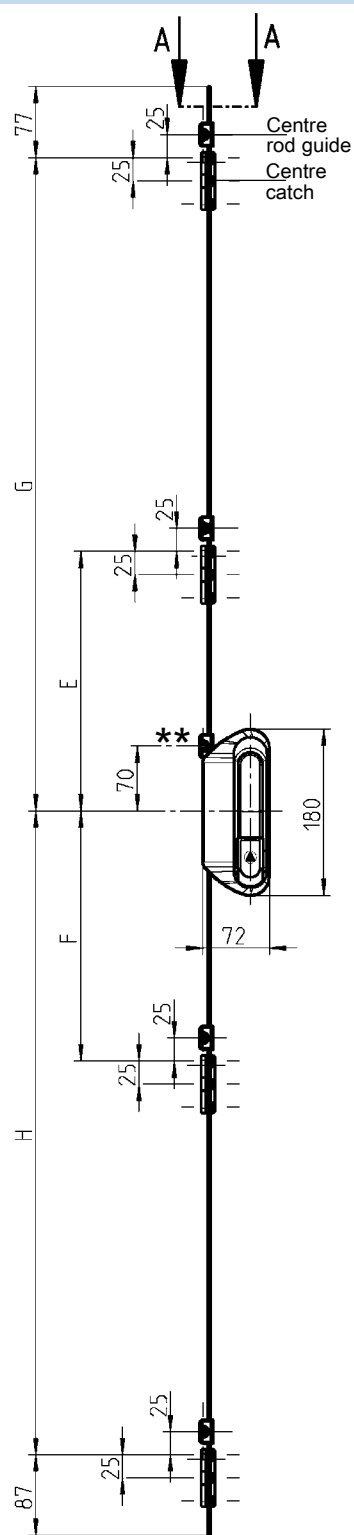
Also suitable for locking type 3

- 180° Hinge (26 mm door return) 4A-170
- 180° Hinge (26 mm door return) 4A-210

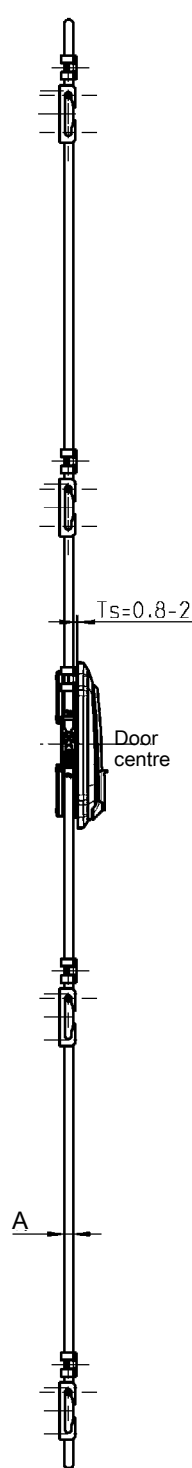
Program 1325

- Swinghandle for small bending area 3BA-320

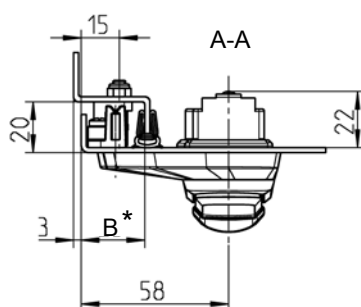
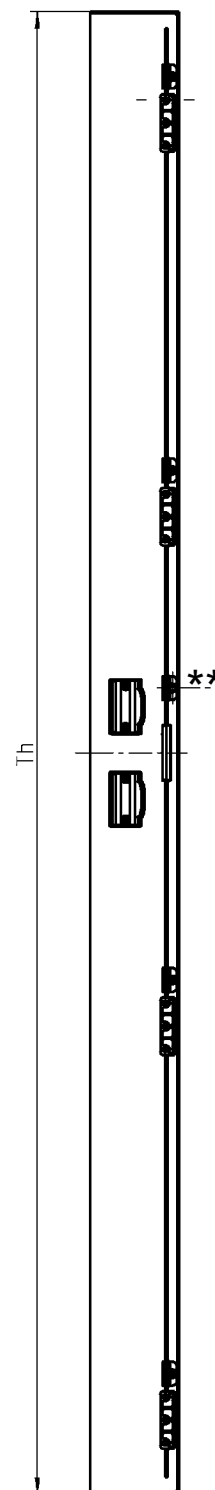
Rod controls for small bending area
20x22 without seal and 20x25 with seal

PROGRAM 1325

depicted without door



Door depicted from inside



* The values in the table for dimension B with seal refer to the seal 1011-10. With other seals, the values for dimension B differ.

Dimension A	Flat rod 10x3	
Locking type (see right)	Dimension B	
	without seal	with seal
	22	25

Locking type and rod control



130° Concealed hinge



180 ° Prominent hinge



Article	Material	Part no.
Swinghandle	see catalogue page 3BA-320	1325-U202
Catch	Zinc die black powder-coated for countersunk screw M5	1121-149
Rod guide	Polyamide black for weld studs Ø 6x8-M4 and oval head screw DIN 7045 M4x6	1121-148
Rod	see below	
130° Concealed hinge	Frame part m.s. zinc-plated with pressed-in grub screws M5x12; hinge roll m.s. raw for welding on; pin m.s. zinc-plated	on request
180° Prominent hinge	Zinc die black powder-coated; fixing pin polyamide GF black; hinge pin stainless steel and washer brass	on request

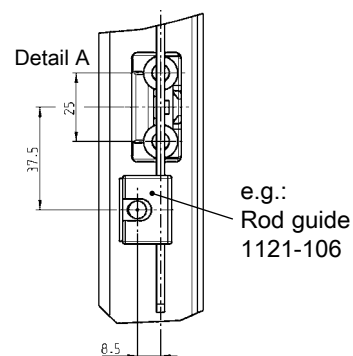
Rod 10x3 m.s. zinc-plated

Door height Th	Locking points (door centre)				Part no.
	Dim. E	Dim. F	Dim. G	Dim. H	
800-1200	–	–	305	295	1325-U220-01
1200-1600	–	–	455	445	1325-U220-03
1600-1900	280	270	705	695	1325-U220-05
1900-2200	280	270	855	845	1325-U220-07

**** Note:**
Additional rod guides
necessary for door height
up to 1600 mm

Further parts see page

Program 1325
– Swinghandle for
small bending area 3BA-320



Locking types



1



2



3

Rod with cut out

Rod with single roller

Rod with double roller

Locking type	Dim. A	Article	Catalogue page	Part no.
1	33	Catch	* 3ZA-1220	1121-U76
		Rod guide	3ZC-120 3ZC-140	1121-89-11 1121-106
		Rod with notch	see below	
		Hinge	* see below right	
2	33	Catch	* -	2600-12
		Rod guide	3ZC-120 3ZC-140	1121-89-11 1121-106
		Rod control with single roller	see below	
		Hinge	* see below right	
3	37	Catch	* 3ZA-1220	1121-18-02
		Rod guide	3ZC-120 3ZC-140	1121-89-11 1121-106
		Rod control with double roller	see below	
		Hinge	* see below right	



* Fixing with countersunk screws acc. to DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

** Note:
Additional rod guides necessary for door height up to 1600 mm

Door height Th	Locking points (door centre) Dim. C Dim. D		Rod		
			Locking type	Part no.	
** 800-1200	-	300	1	1390-11-01JB	1390-12-01JB
			2	1390-U10-01	
			3	1390-U11-01	
** 1200-1600	-	450	1	1390-11-03JB	1390-12-03JB
			2	1390-U10-03	
			3	1390-U11-03	
1600-1900	275	700	1	1390-11-05JB	1390-12-05JB
			2	1390-U10-05	
			3	1390-U11-05	
1900-2200	275	850	1	1390-11-07JB	1390-12-07JB
			2	1390-U10-07	
			3	1390-U11-07	

Further parts see page

Hinge suitable for locking types 1, 2 and 3

- 125° Hinge	4A-136
- 180° Hinge (bottom)	4A-140
- 180° Hinge	4A-145
- 180° Hinge (bottom)	4A-170
- 180° Hinge	
- (26 mm door return)	4A-210
- 180° Hinge	4A-215

Program 1390

- Escutcheon for small bending area	3FA-120
- Lifthandle for small bending area	3FA-140

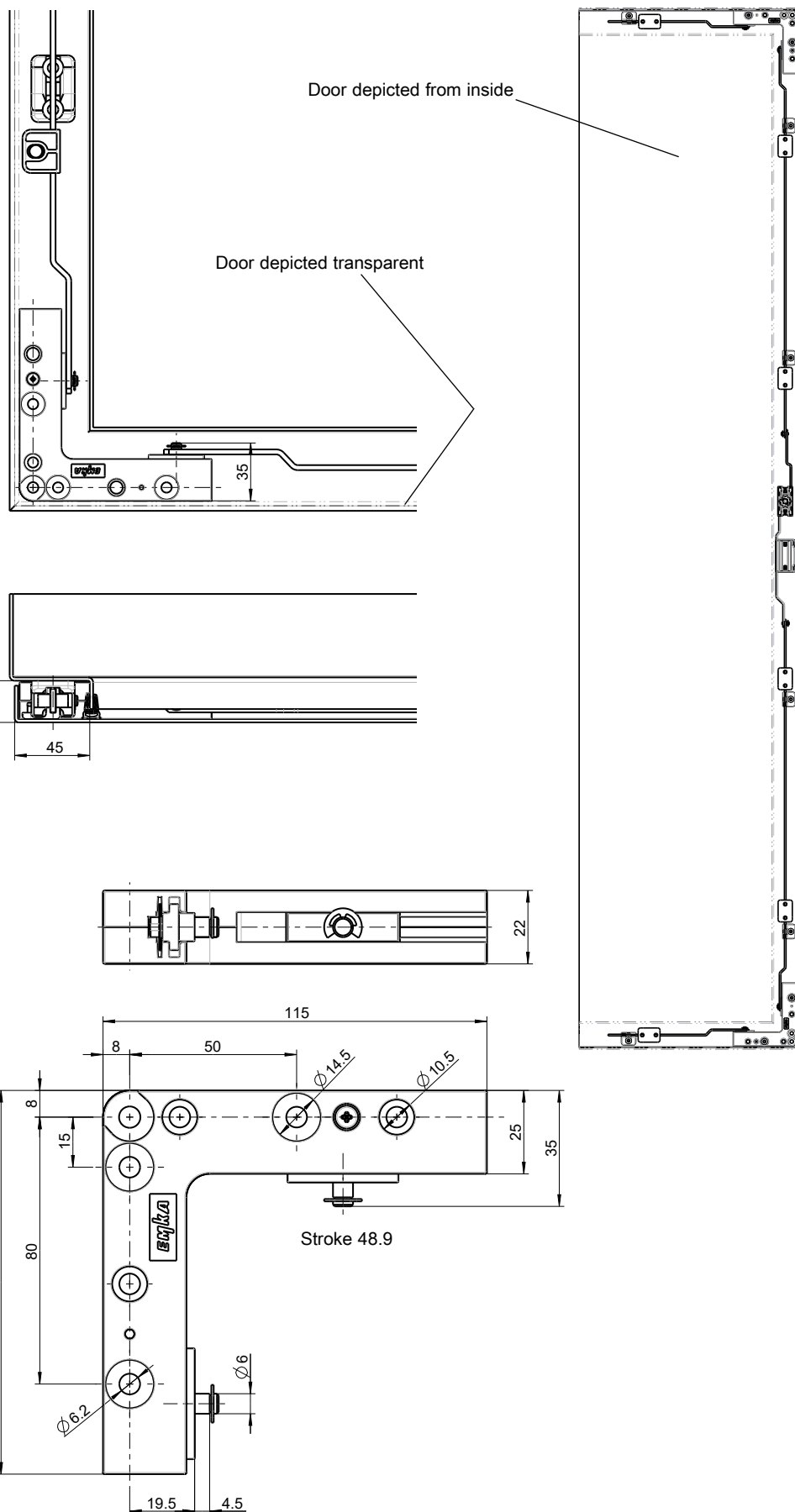


**Rods suitable for Program
1125, 1150, 1160, 1180, 1190,
1225, 1325, 2100, 2225,
2400 and 3000
individually on request**

Further parts see page
– Rod without
corner guide

3ZA-120

3ZA-1120 09/20
(3ZA-420)



**Corner guide polyamide GF black, connector zinc die raw,
circlip and screw m.s. zinc-plated, with spring hinge
for weld stud M6x20 or blind rivet**

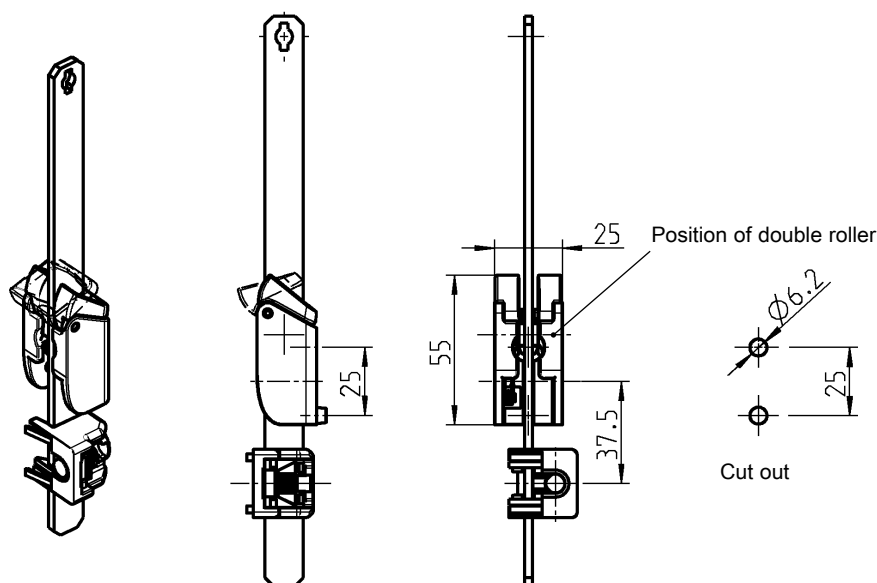
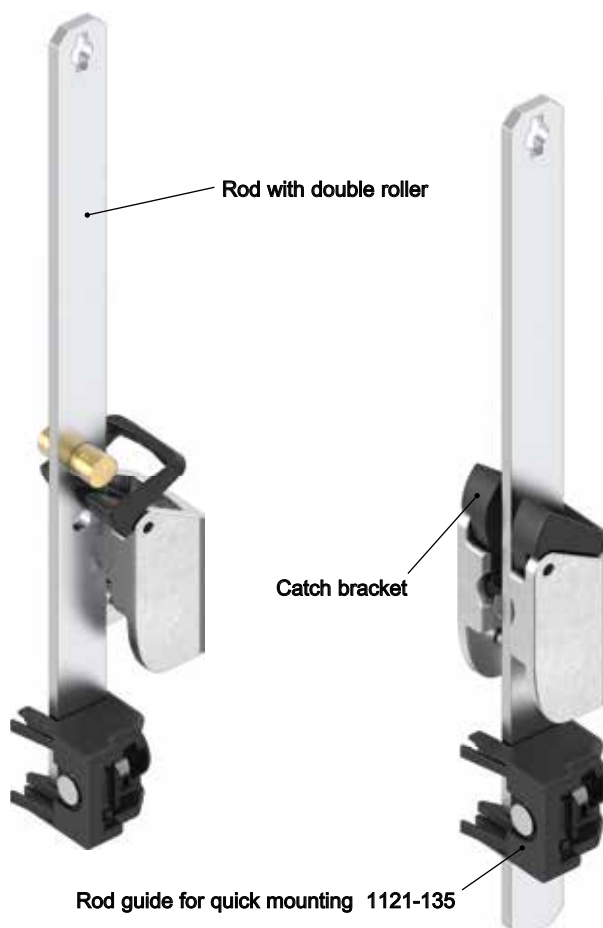
1121-U206

Rod with double roller for catch with bracket and extended catch area

PROGRAM 1125 - 3000

Product benefits

- Bracket increases the catch area from 8.5 mm to 13 mm
- Ensures that the double roller is hooked in the catch before the seal is compressed
- Fixing with only one screw instead of two
- Exchangeable with the previous catch 1121-18-02
- Rod control remains in former position
- High closing comfort
- Patented



Note:
For dimensions see table
on catalogue page 3ZA-120

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-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

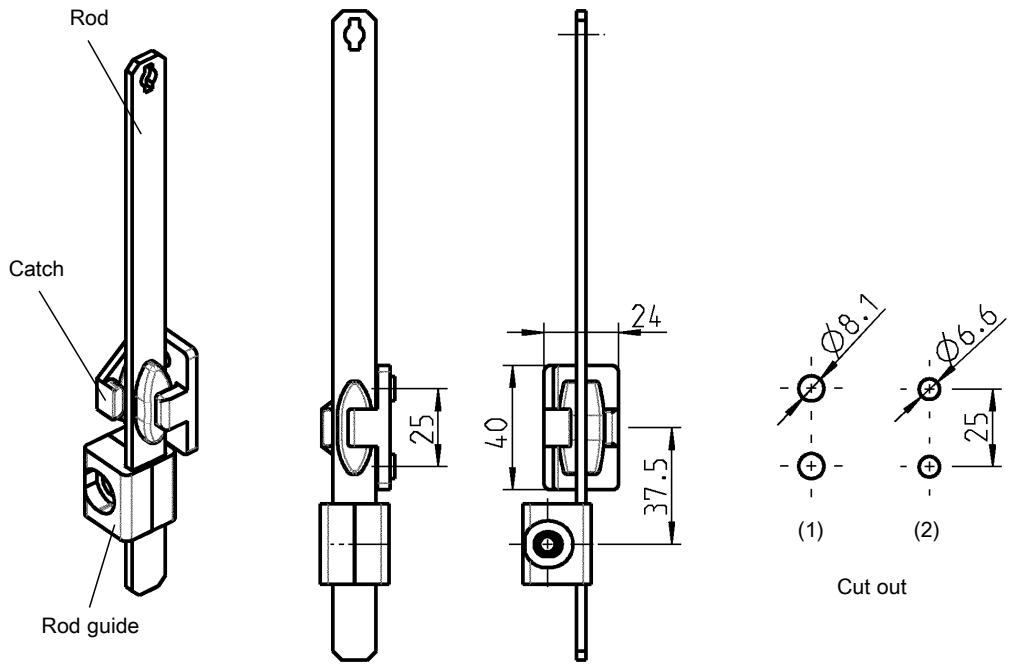
Door height Th	Rods		Locking points (door centre)		Rod control m.s. zinc-plated; double roller brass
	Dim. X	Dim. Y	Dim. C	Dim. D	
800-1200	–	126.5	–	300	1121-U155-01
1200-1600	–	276.5	–	450	1121-U158-01
1600-1900	101.5	526.5	275	700	1121-U161-01
1900-2200	101.5	676.5	275	850	1121-U164-01

Catch zinc die zinc-plated for rod with double roller;
catch bracket polyamide GF black; with spring

1121-U194

Catch

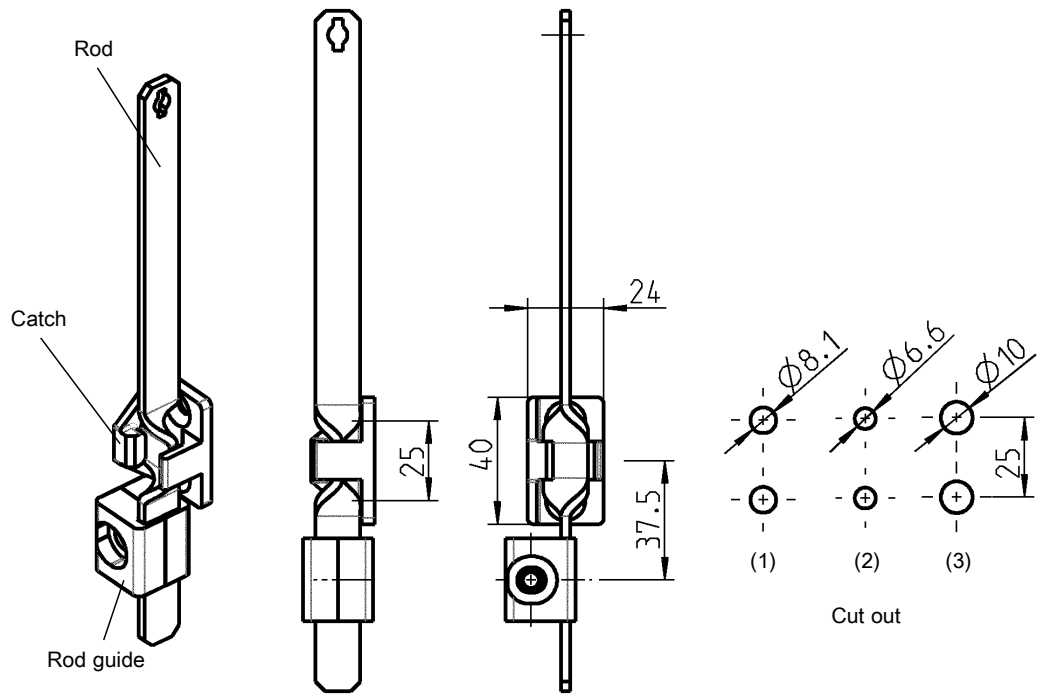
PROGRAM 1125, 1150, 1160, 1180, 1225, 1325, 2100, 2400, 3000



Catch interchangeable with 120° hinge, catalogue page 4A-190, or 180° hinge, catalogue page 4A-210

Catch zinc die black powder-coated for rod with locking slider

with female thread M6	(1)	1121-54-P
for countersunk screw M6 (2D nut applicable)	(2)	1121-53-P



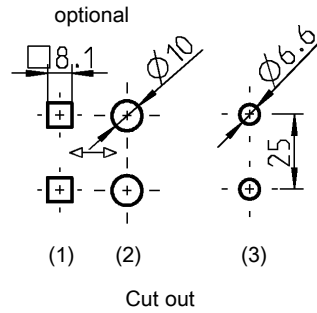
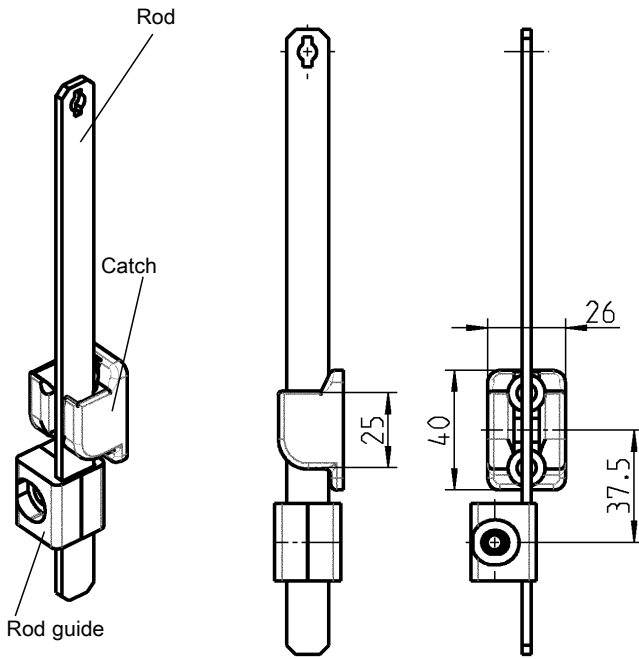
Catch interchangeable with 120° hinge, catalogue page 4A-190, or 180° hinge, catalogue page 4A-210

Catch zinc die black powder-coated for twisted rod

with female thread M6	(1)	1121-70-01
for countersunk screw M6 (2D nut applicable)	(2)	1121-70
with clamping pin, polyamide GF black, Ts = 2.0	(3)	1121-U137
with male thread M10, nut m.s. zinc-plated	(3)	1121-U152

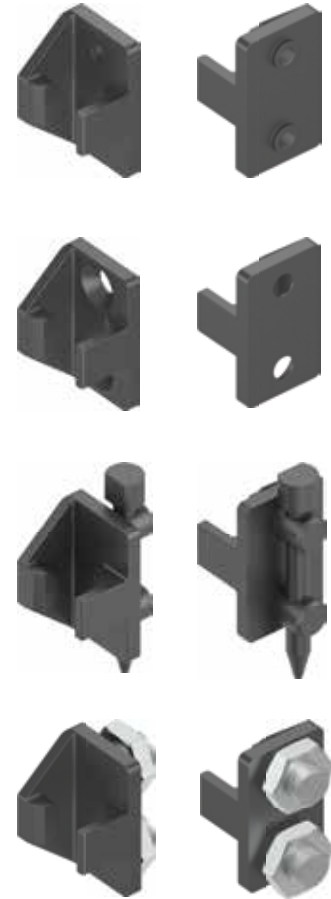
Catch polyamide 66 GF 50 black for twisted rod

for countersunk screw M6 (2D nut applicable)	(2)	1121-70-04SK
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**AISI
INOX**

4 various fixing possibilities

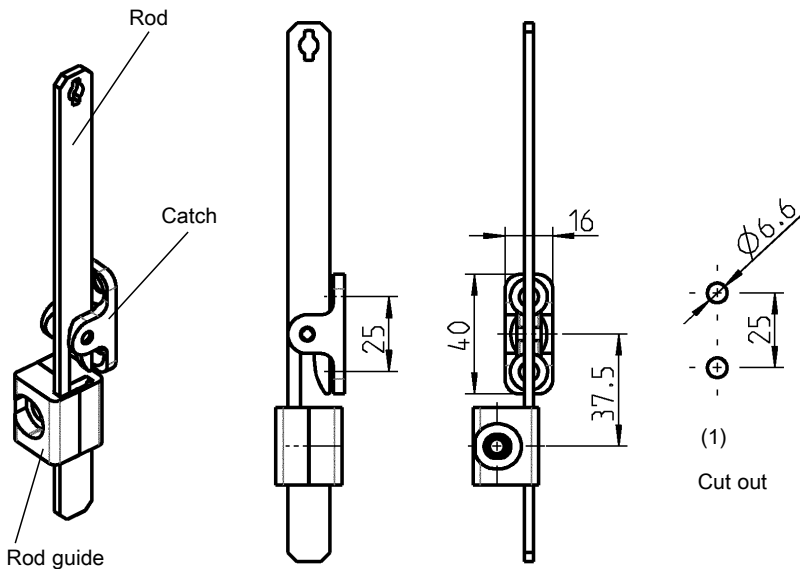


Catch zinc die black powder-coated for rod with double roller

with female thread M6	(1) (2)	1121-18-01
for countersunk screw M6 (2D nut applicable)	(3)	1121-18-02

Catch AISI 316 for rod with double roller

for countersunk screw M6 (2D nut applicable)	(3)	1121-18-02PH
--	-----	--------------



Catch interchangeable with 120° hinge, catalogue page 4A-190, or 180° hinge, catalogue page 4A-210

Catch zinc die black powder-coated for rod with notch

for countersunk screw M6 (2D nut applicable)	(1)	1121-U76
--	-----	----------

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

Further parts see page

– 2D Nut 8E-120

Program 1125, 1150, 1160, 1180, 1190, 1225, 1325, 2100, 3000
– Rods 3ZA-120

Program 1160
– Lock rods 3ZA-420

Program 1180
– Lock rods 3ZA-520

Program 1190
– Rods 3ZA-560

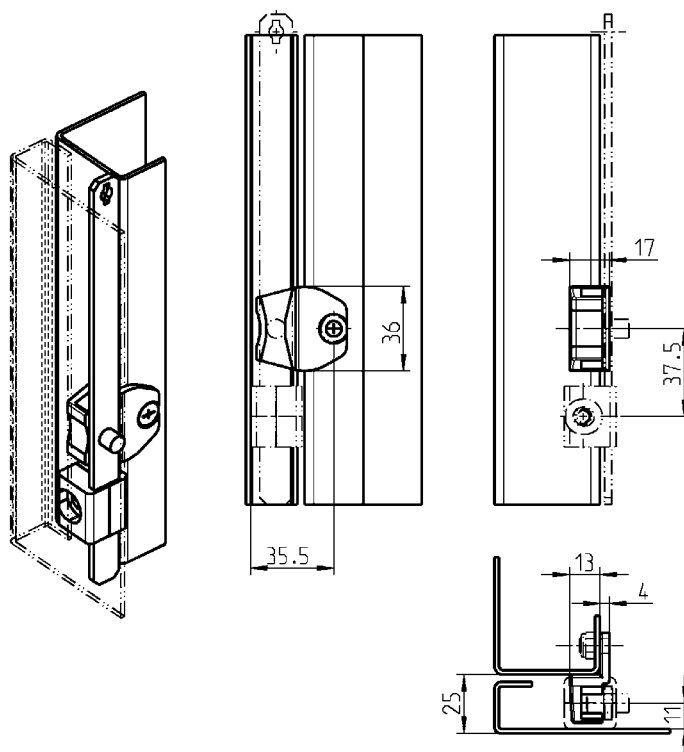
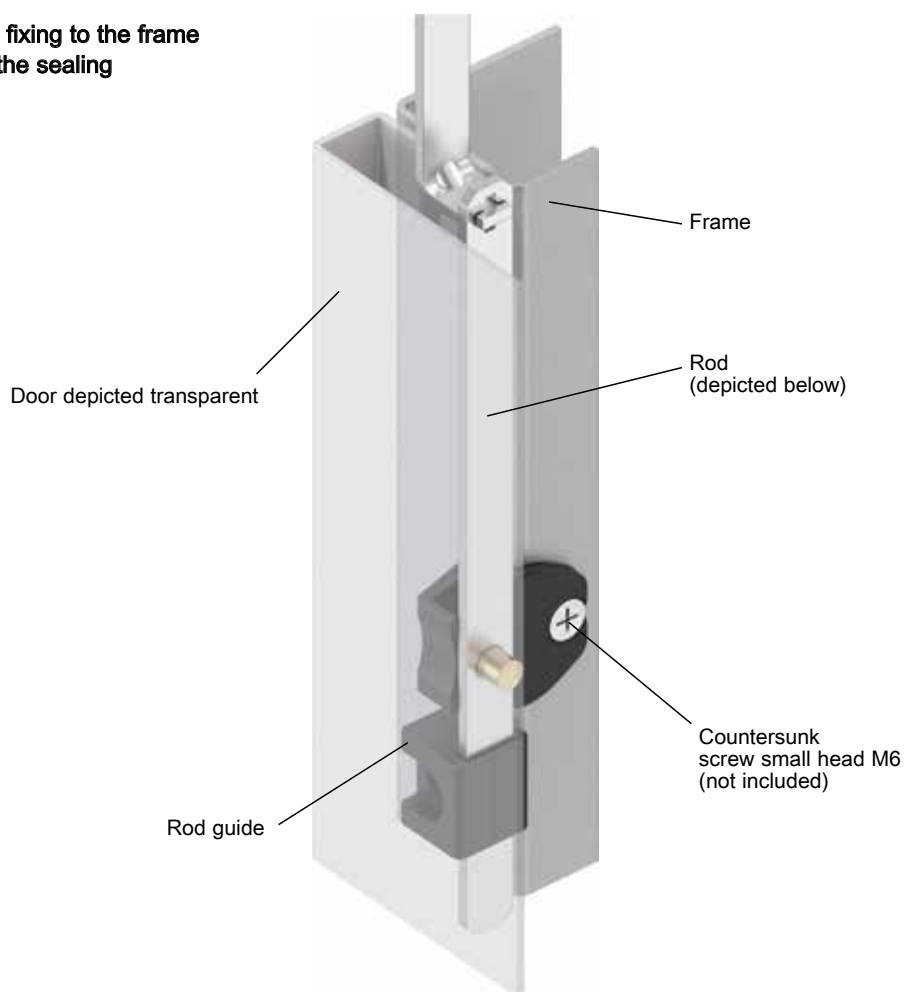
Program 2400
– Rods 3ZA-820

3ZA-1220 11/15

(3ZA-620)



Lateral fixing to the frame
inside the sealing



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

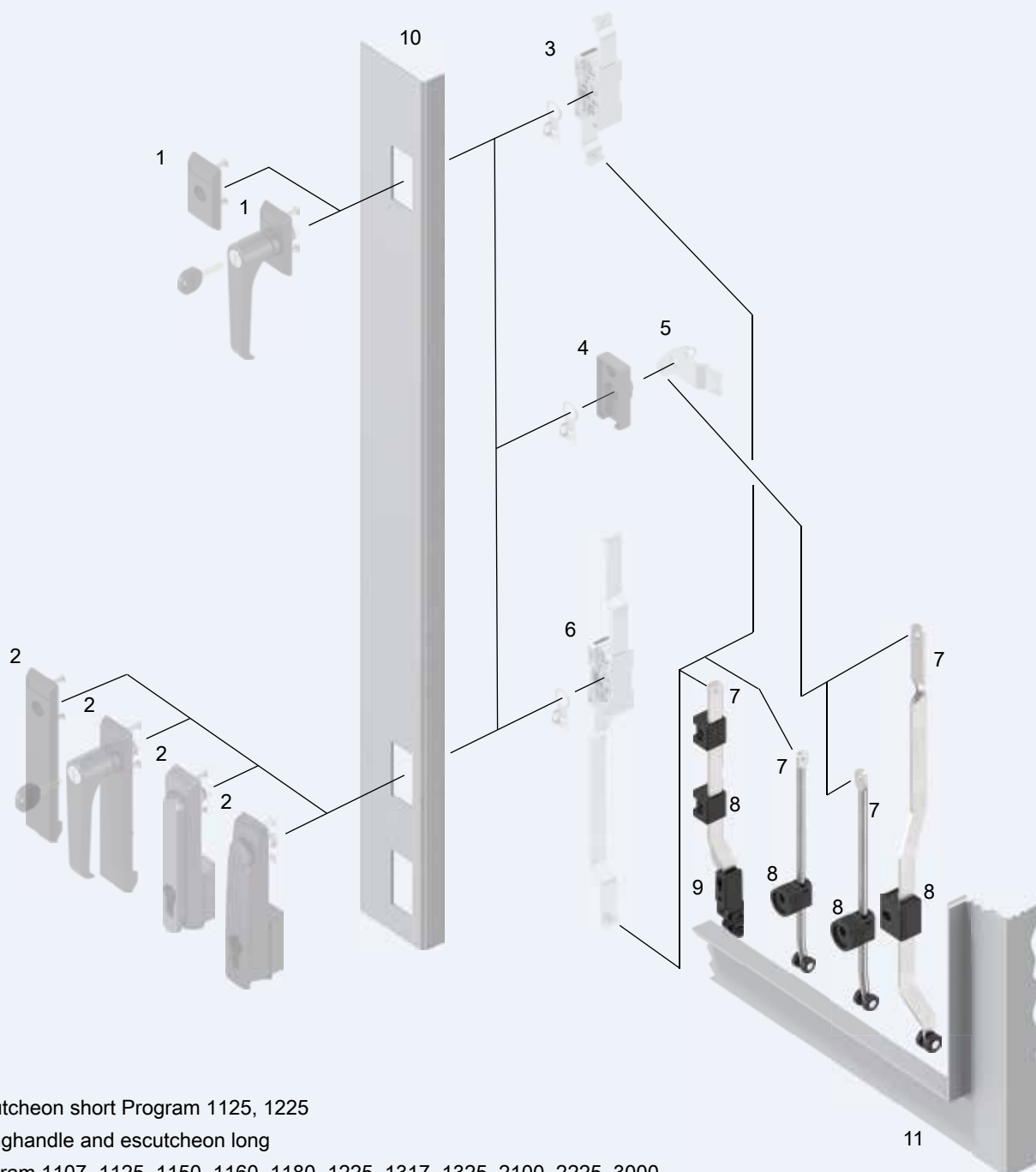
3ZA-1240 01/14

(3ZA-630)

Rod

inside the sealing

Program 1107, 1125, 1150, 1160, 1180,
1225, 1317, 1325, 2100, 2225, 3000



- 1 Escutcheon short Program 1125, 1225
- 2 Swinghandle and escutcheon long
Program 1107, 1125, 1150, 1160, 1180, 1225, 1317, 1325, 2100, 2225, 3000
- 3 Rod control
- 4 Bearing bush
- 5 Cam
- 6 Rod control
- 7 Rod (inside the sealing)
- 8 Rod guide
- 9 Guiding shoe
- 10 Door
- 11 Housing / Frame



3ZB-100

Rods

PROGRAM 1107, 1125, 1150, 1180, 1225, 1317, 1325, 2100, 2225, 3000

Application:

Program 1125, 1150,
1225, 1325, 3000

– Rod control
(Version B) 3YA-140
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,
1225, 1325, 3000

– Rod control
(Version B) 3YA-140
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,
1225, 1325, 3000

– Rod control
(Version B) 3YA-140
3YA-160
3YA-180
3YA-240

Program 1107, 1125, 1180,
1225, 1317, 1325, 2100, 3000

– Cam 3YB-420
3YB-440
3YC-120

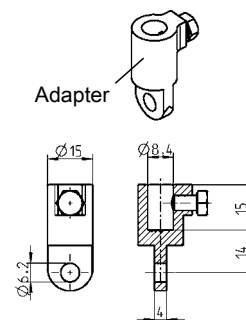
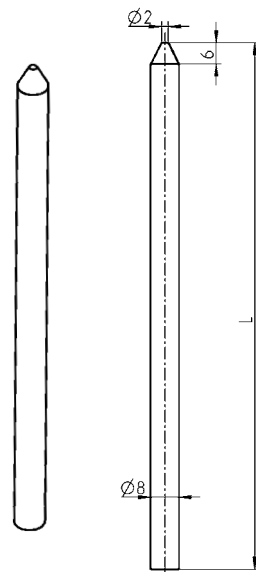
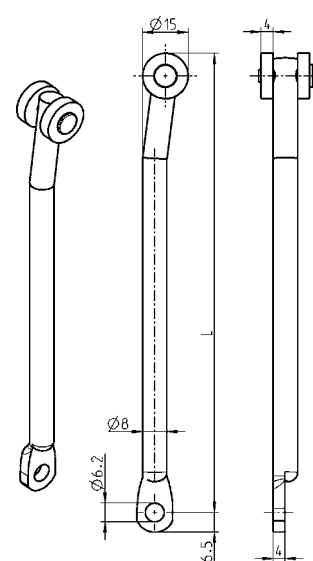
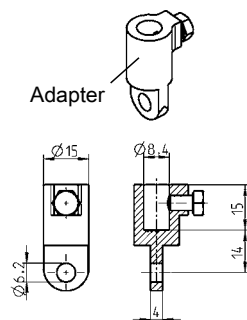
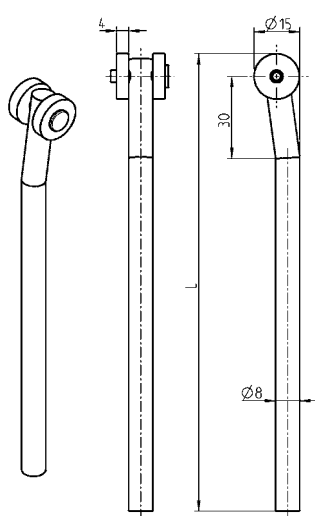
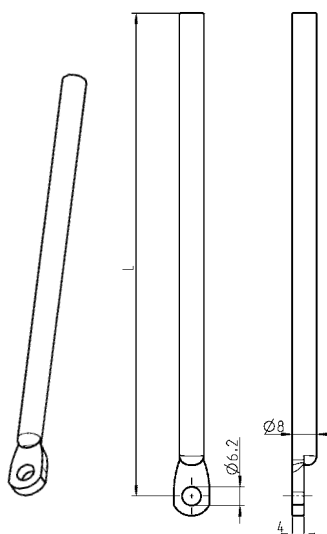
Application:

Program 1125, 1150,
1225, 1325, 3000

– Rod control
(Version B) 3YA-140
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-plated	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

Round rod with eye
material of 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)

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

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



Minimum order quantity: 200 pieces
Smaller quantities on request!

L ≤ 1200

Order example: Order no. for a round rod with rollers and a length of 1034 mm = 1049-18-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

Application:
Program 1125, 1150, 1225, 1325, 3000

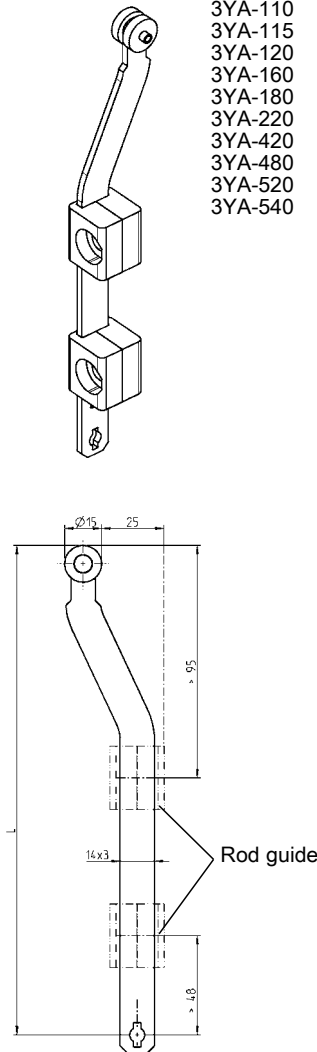
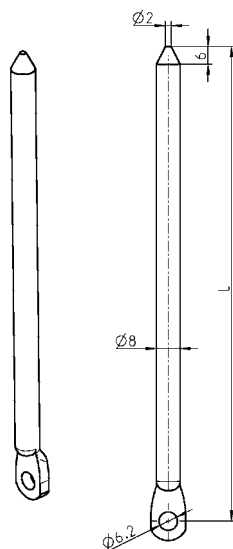
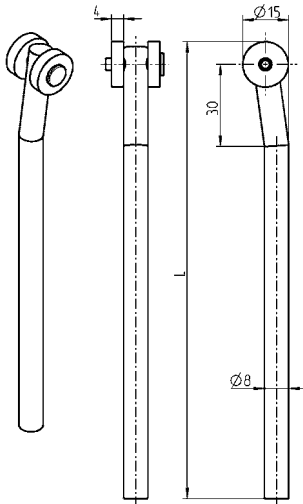
– Rod control 3YA-140
(Version B) 3YA-160
3YA-180
3YA-240

Program 1107, 1125, 1180, 1225, 1317, 1325, 2100, 3000

– Cam 3YB-420
3YB-440
3YC-120

Application:
Program 1125, 1150, 1160, 1180, 1225, 1325, 2100, 2225, 3000

– Rod control 3D-120
3D-140
3E-120
3E-140
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, rollers polyamide black

1049-U18-L mm
(1049-U18-01 to -17 see price list)

Adapter zinc die m.s. zinc-plated

1000-U49

Round rod with eye and with pointed end m.s. zinc-plated

1000-211-L mm
(1000-211-01 to -17 see price list)

Flat rod m.s. zinc-plate, rollers polyamide black

1121-U28-L mm
(1121-U28-01 to -08 see price list)

Flat rod without bore hole L = 1007.5

1121-U148



Further parts see page

Rod guide for flat rods

3ZC-120 to 3ZC-170

for round rods

3ZC-210
3ZC-220

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
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8 Miscellaneous
9 Special catalogues
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L ≤ 1200

Order sample:

Part no. of connecting rod m.s. zinc-plated for shoe
with length of 1034 mm = 1000-XXX-L 1034

Minimum order quantity: 200 pieces

Smaller quantities on request!

Calculation of rod length L

$$L = \frac{X - Z}{2} + Y$$

Application:

Program 1107, 1125, 1150, 1180, 1225, 1317, 1325, 2100, 3000

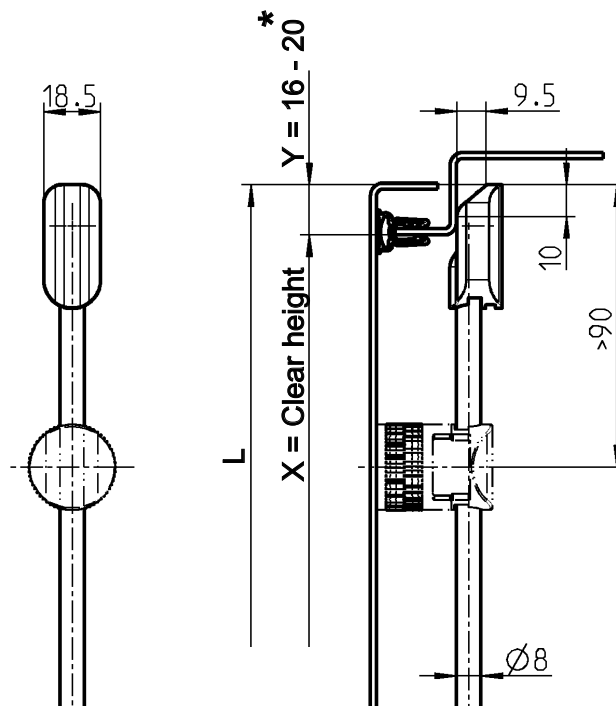
- Rod control

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 seal version



Z = Rod control length (e.g. dimension 400 on page 3YA-140)
Z = Cam gauge for rod holder (e.g. dimension 18 for 1107 or
dimension 26 for 1000 on page 3YC-120)

Please indicate dimension L in the order

Further parts see page
- Rod guide

3ZC-210
3ZC-220

3ZB-180

Round rod connection to rod control or cam and material of choice

	m.s. zinc-plated	AISI 304
	on request	on request
Shoe polyamide GF black		
		1000-526-AA

Rod with shoe

PROGRAM 1125 - 3000

Minimum order quantity: 200 pieces
Smaller quantities on request!

$L \leq 1200$

Order sample:

Part no. of connecting rod m.s. zinc-plated for shoe complete
with length of 1034 mm = 1121-U187-L 1034



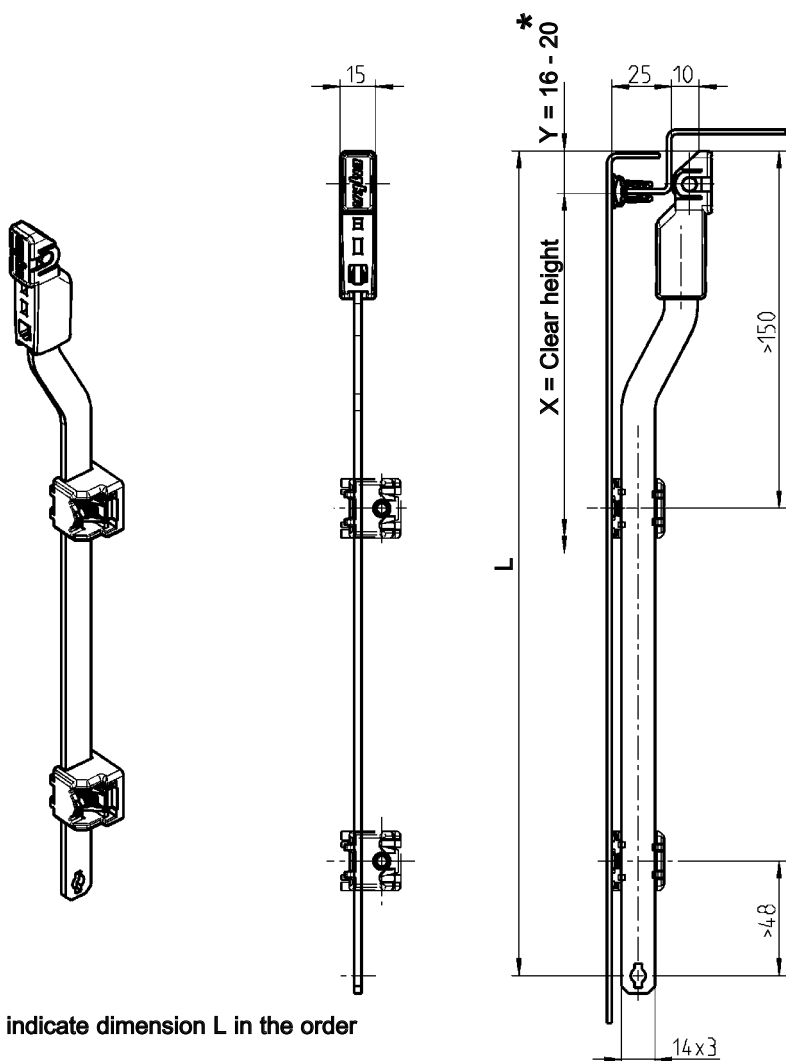
Calculation of rod length L

$$L = \frac{X - Z}{2} + Y$$

Application: Program 1125, 1150, 1160, 1180, 1225, 1325, 2100, 2225, 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



Please indicate dimension L in the order

Rod with shoe completely mounted,
flat rod material of choice,
shoe polyamide GF black, roller polyamide black

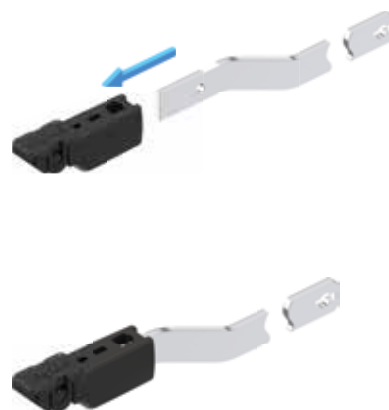
m.s. zinc-plated	AISI 304
1121-U187-L mm	on request
(1121-U187-01 to -08 see price list)	

Rod without bore holes with shoe ready mounted,
flat rod without bore holes material of choice,
shoe polyamide GF black, roller polyamide black

m.s. zinc-plated	AISI 304
L + 7.5 = 1007.5	on request
1121-U189	

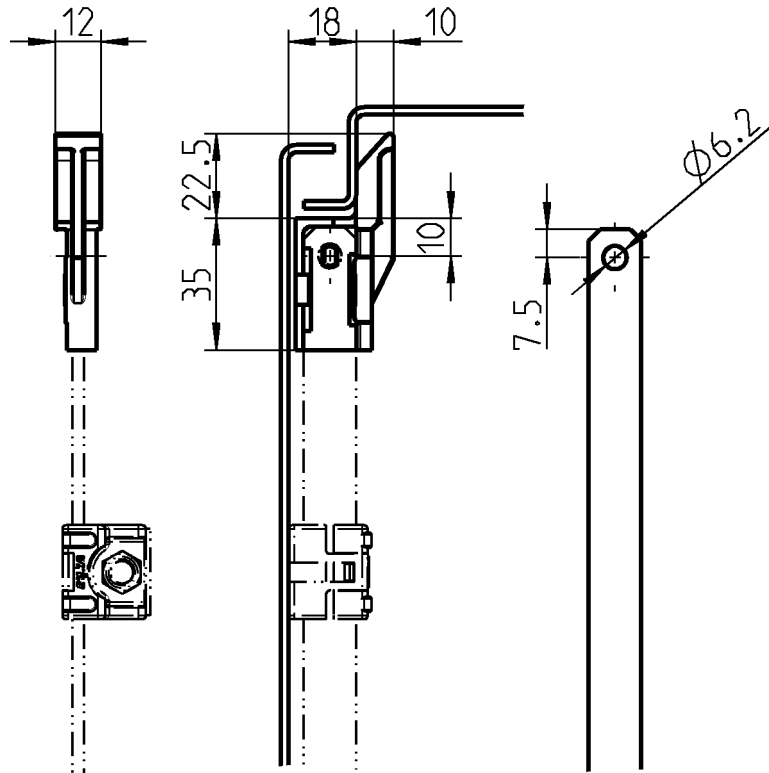


* Dimension Y
depending on seal version



Further parts see page
– Rod guide 3ZC-120
to 3ZC-170

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1 Quarter turns
2 Rod controls
3 Locking systems
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Shoe polyamide GF black

Long version

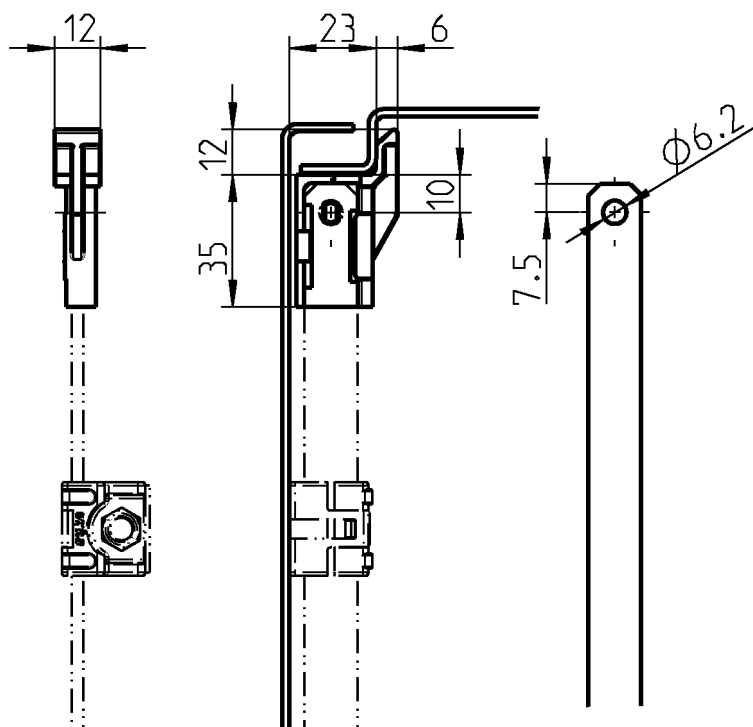
1121-112

Further parts see page

- Rod guide for flat rods 3ZC-120 to 3ZC-170
- Rod on request

Program 1125, 1150, 1160, 1180, 1225, 1325, 2100, 2225, 3000

- Rod control 3D-120 3D-140 3E-120 3E-140 3YA-110 3YA-115 3YA-120 3YA-160 3YA-180 3YA-220 3YA-420 3YA-480 3YA-520 3YA-540



Shoe polyamide GF black

Short version

1121-113

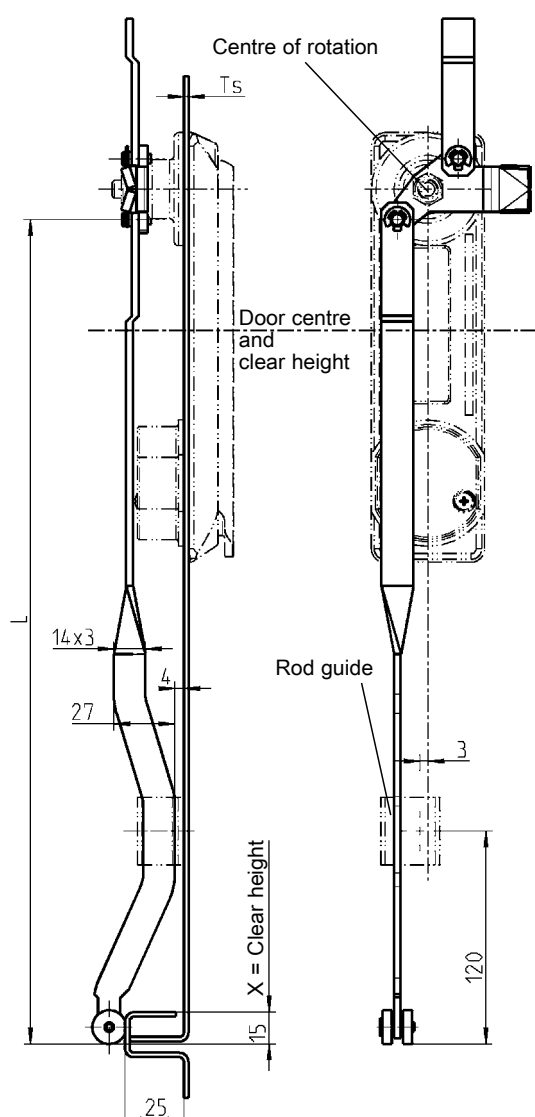
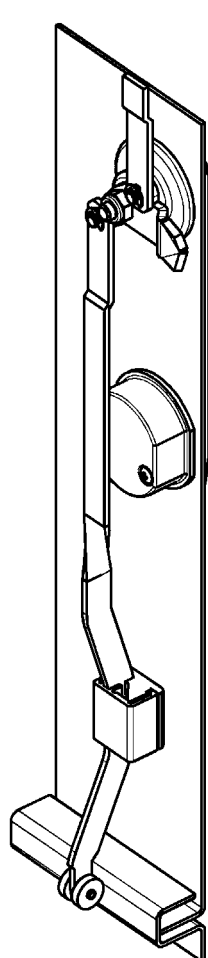
Rod for cam, stroke 26 mm

PROGRAM 1107, 1317

Minimum order quantity: 200 pieces

Smaller quantities on request

Calculation of rod length L		Swinghandle	
		long	short
Upper rod	$L = \frac{X}{2}$	- 63	- 50.5
Lower rod	$L = \frac{X}{2}$	+ 67	+ 54.5
Pivot point centre door, top and bottom same rod length	$L = \frac{X}{2} + 2$		



Ts = 2
Other door thicknesses
on request!

Flat rod m.s. zinc-plated, rollers polyamide black

1121-U144-L mm
(1121-U144-01 to -08
see price list)



Note:
Swinghandle with cut out
Hole distance
130 mm = long
105 mm = short

Further parts see page
– Rod guide 3ZC-120
to 3ZC-170

Program 1107, 1317
– Cam with stroke 26 3YC-120

3ZB-320 01/14

(3G-440)

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

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Rod for cam with stroke 26 mm PROGRAM 1125, 1225, 1325, 3000

Minimum order quantity: 200 pieces

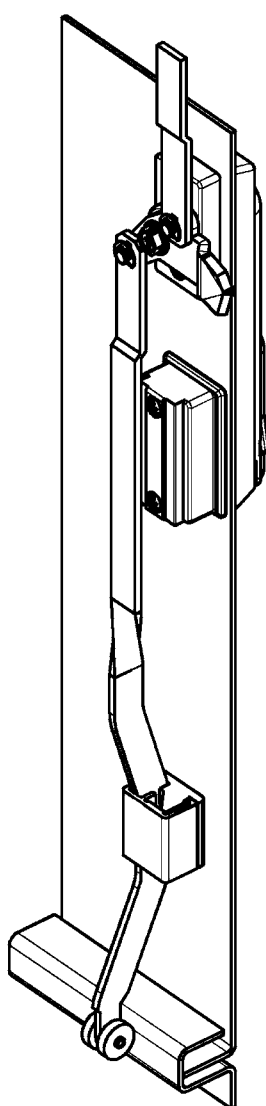
Smaller quantities on request

Calculation of rod length L

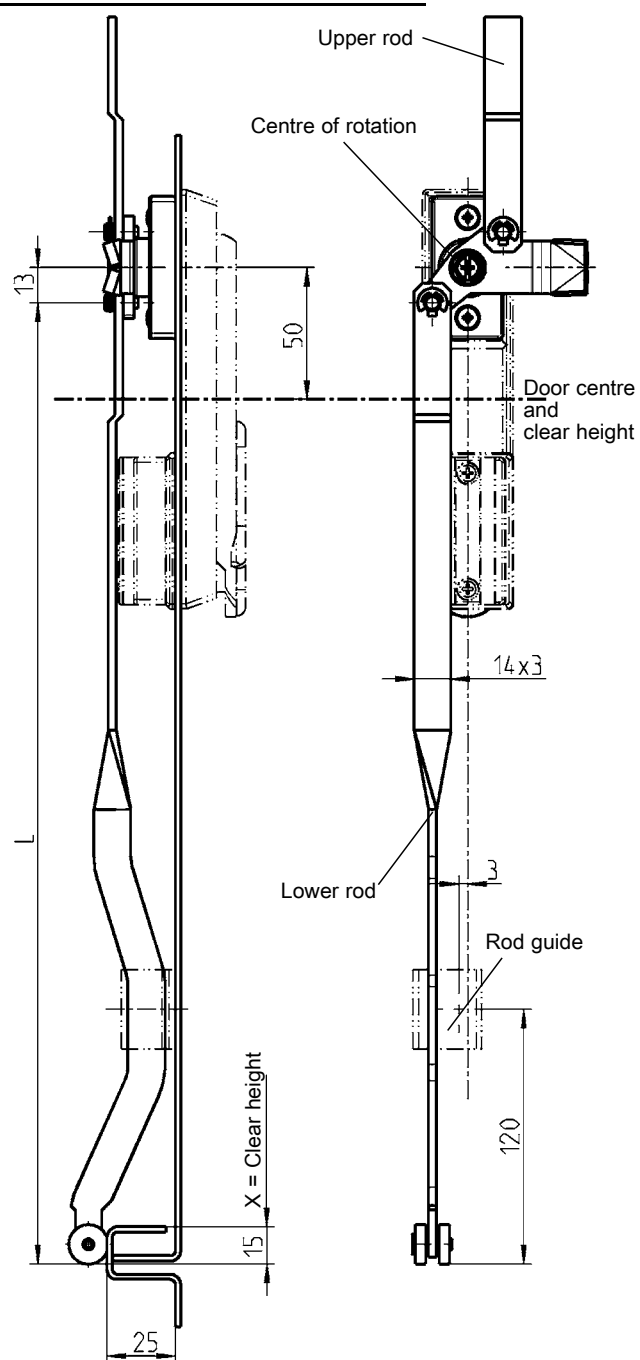
$$\text{Upper rod} \quad L = \frac{X}{2} - 48$$

$$\text{Lower rod} \quad L = \frac{X}{2} + 52$$

$$\text{Pivot point centre door, top and bottom same rod length} \quad L = \frac{X}{2} + 2$$



Ts = 2
Other door thicknesses
on request!



Further parts see page

– Rod guide 3ZC-120 to 3ZC-170

Program 1125, 1225, 1325, 3000

– Cam with stroke 26 3YB-420

Flat rod m.s. zinc-plated, rollers polyamide black

1121-U144-L mm

(1121-U144-01 to -08
see price list)

Rod for cam with stroke 26 mm

PROGRAM 1125

Minimum order quantity: 200 pieces

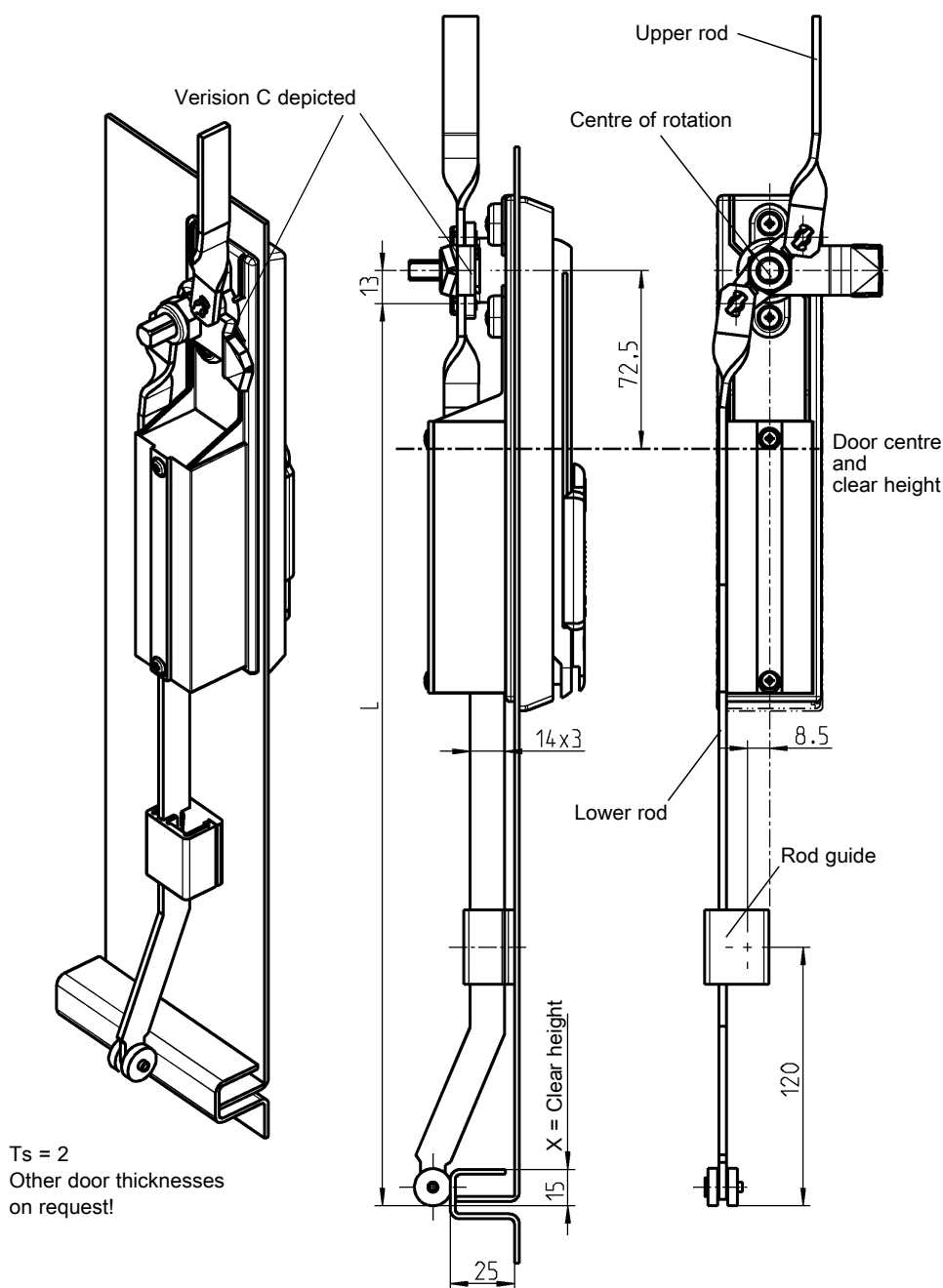
Smaller quantities on request

Calculation of rod length L

$$\text{Upper rod} \quad L = \frac{X}{2} - 70.5$$

$$\text{Lower rod} \quad L = \frac{X}{2} + 74.5$$

$$\text{Pivot point centre door, top and bottom same rod length} \quad L = \frac{X}{2} + 2$$



Ts = 2
Other door thicknesses
on request!

Flat rod m.s. zinc-plated, 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 guide 3ZC-120 to 3ZC-170

Program 1125

– Cam with stroke 26 3YC-120 3YC-140

Info
1 Quarter turns
2 Rod controls
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4 Hinges
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7 Aluminium windows
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9 Special catalogues
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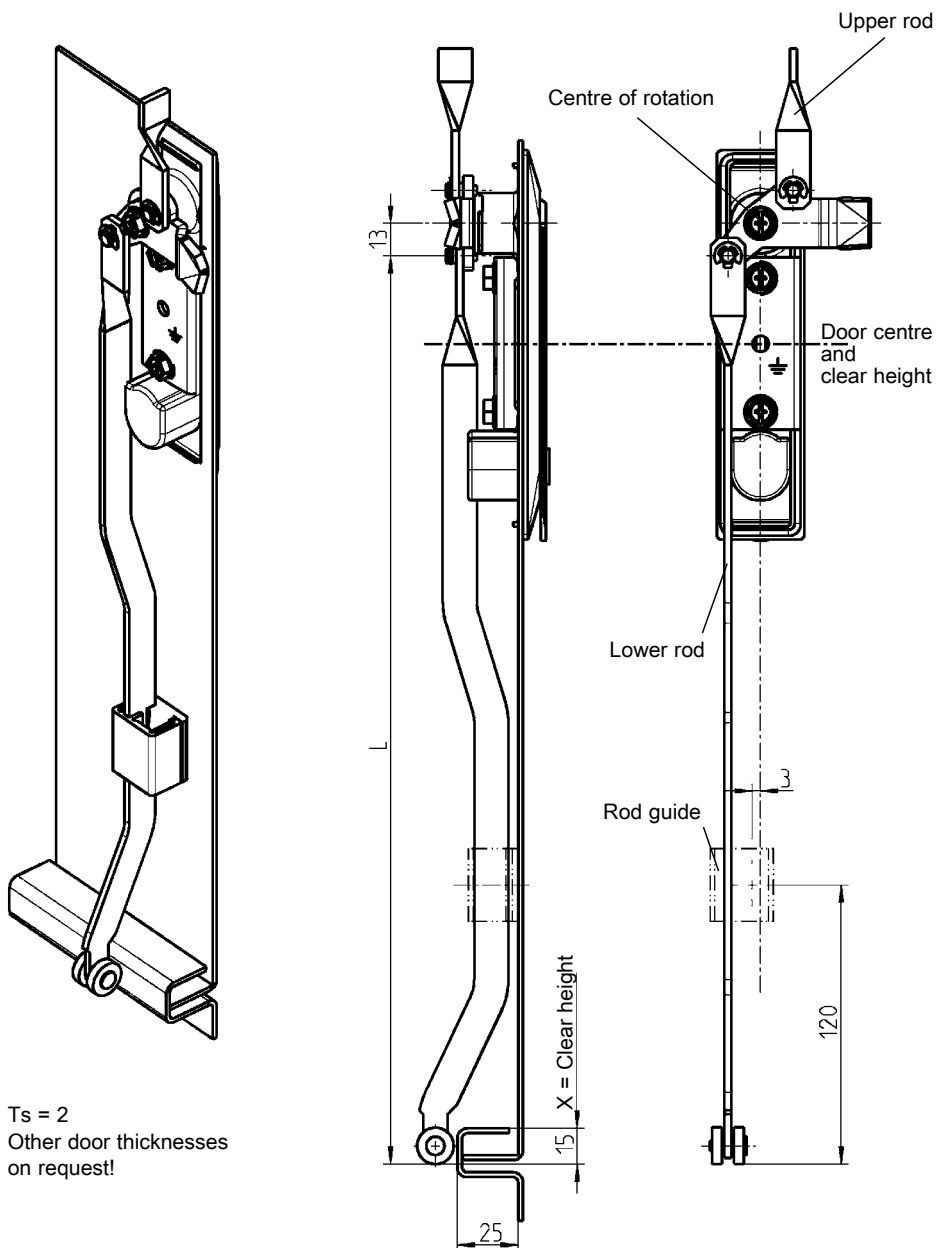
Rod for cam with stroke 26 mm

PROGRAM 1150

Minimum order quantity: 200 pieces
Smaller quantities on request

Swinghandle
see note

Calculation of rod length L:	Version	A	B
Upper rod	$L = \frac{X}{2}$	- 28	- 48
Lower rod	$L = \frac{X}{2}$	+ 32	+ 52
Pivot point centre door, top and bottom same rod length	$L = \frac{X}{2} + 2$		



Note:
Calculation of the connection rod
version A or B suitable for
– Swinghandle 1150 3C-120 = A
3C-120 = B
– Swinghandle 1150 3C-140 = B
– Swinghandle 1155 3C-620 = B

Further parts see page
– Rod guide 3ZC-120
to 3ZC-170

Program 1150
– Cam with stroke 26 3YC-120
3YC-140

Flat rod m.s. zinc-plated, rollers polyamide black

1121-U145-L mm
(1121-U145-01 to -08
see price list)

Rod for cam with stroke 26 mm

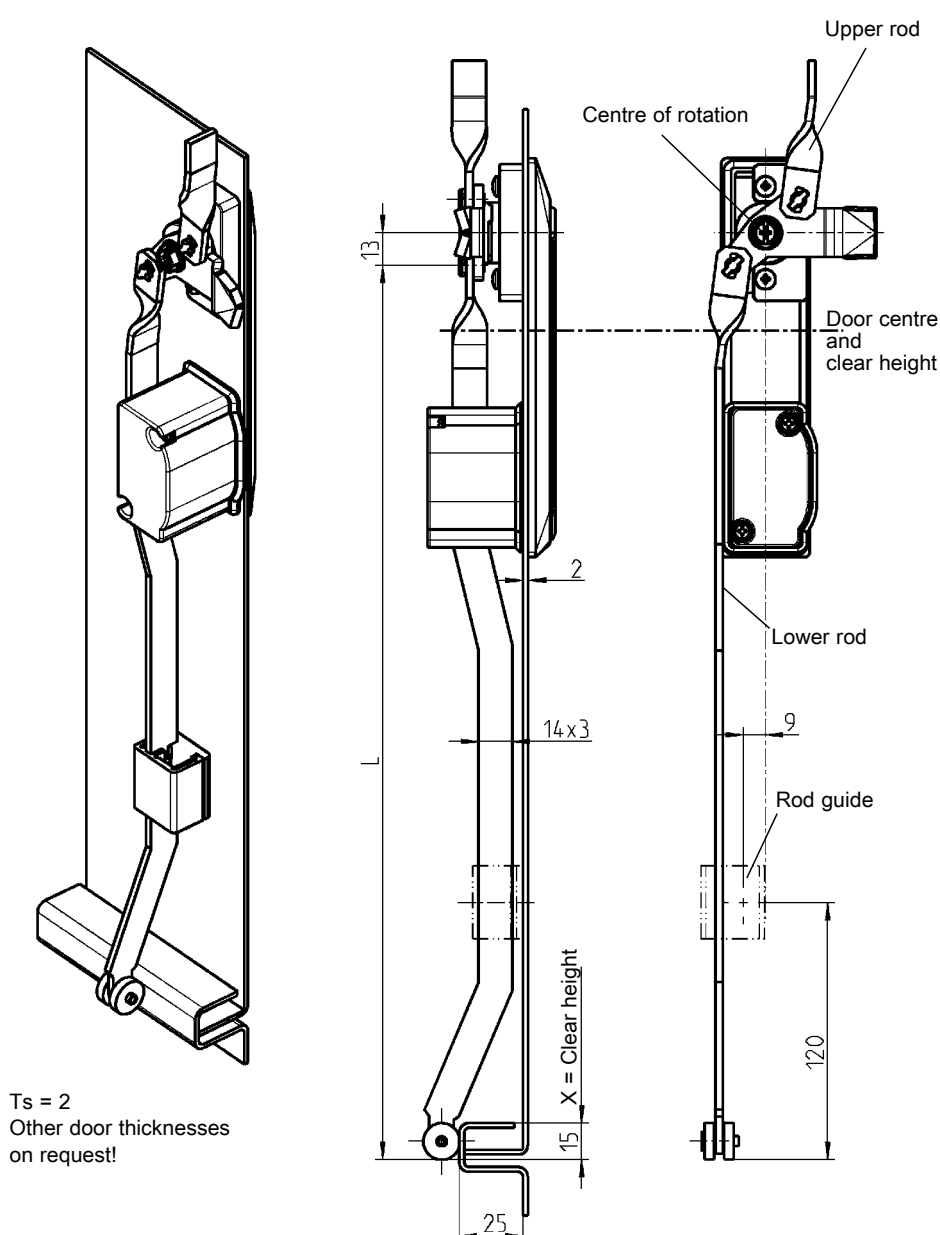
PROGRAM 1150, 2225

Minimum order quantity: 200 pieces

Smaller quantities on request

Swinghandle
see note

Calculation of rod length L:	Version	A	B	C
Upper rod	$L = \frac{X}{2}$	- 48	- 54	- 70.5
Lower rod	$L = \frac{X}{2}$	+ 52	+ 58	+ 74.5
Pivot point centre door, top and bottom same rod length	$L = \frac{X}{2} + 2$			



Ts = 2
Other door thicknesses
on request!

Flat rod m.s. zinc-plated, 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



Note:

Calculation of the connection rod version A,B or C suitable for

- Swinghandle 1154 3C-220 = A
- Swinghandle 1153 3C-320 = A
- Swinghandle 1154 3C-260 = B
- Swinghandle 1154 3C-280 = C
- Swinghandle 1151 3C-420 = C
- Swinghandle 2225 3J-120 = A

Further parts see page

- Rod guide 3ZC-120 to 3ZC-170

Program 1150

- Cam with stroke 26 3YC-120 3YC-140



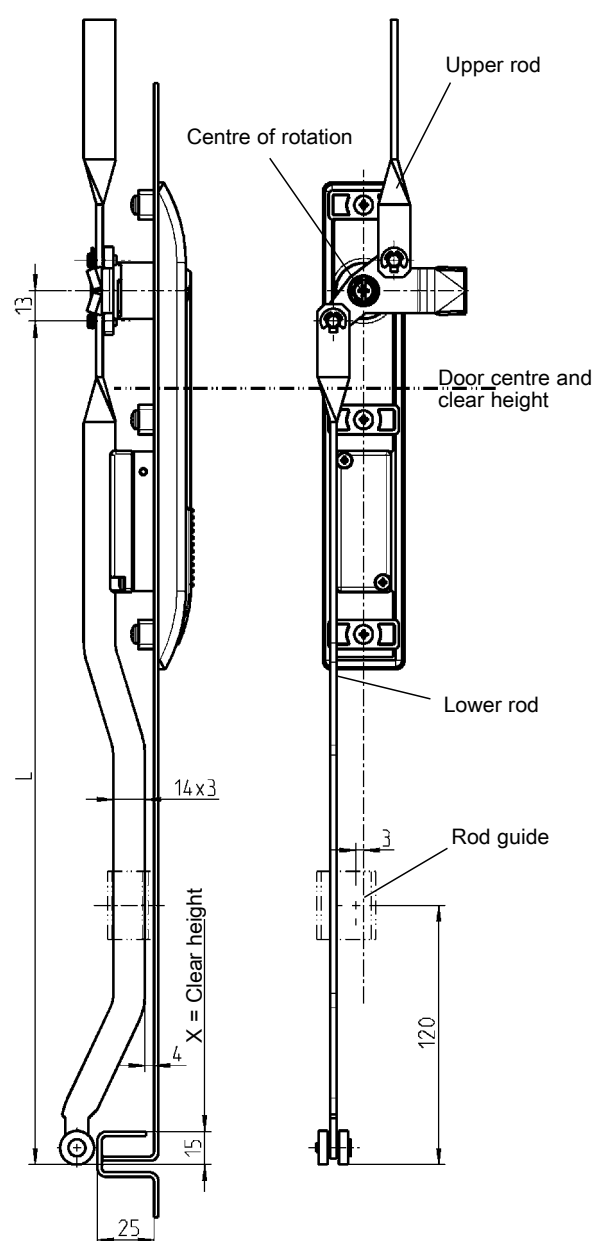
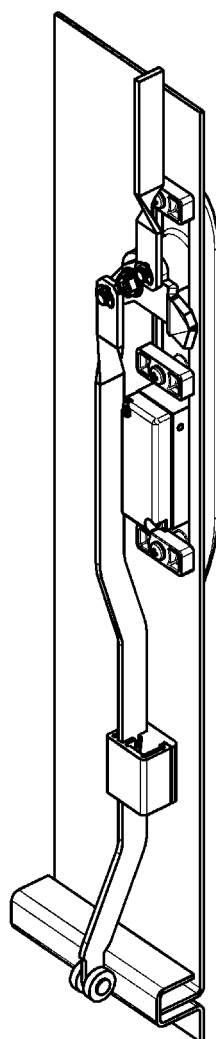
Rod for cam with stroke 26 mm PROGRAM 1180

Minimum order quantity: 200 pieces

Smaller quantities on request

Swinghandle
see note

Calculation of rod length L:	Version	A	B
Upper rod	$L = \frac{X}{2}$	- 55	- 70.5
Lower rod	$L = \frac{X}{2}$	+ 59	+ 74.5
Pivot point centre door, top and bottom same rod length	$L = \frac{X}{2} + 2$		



Ts = 2
Other door thicknesses
on request!

Note:

Calculation of the connection rod
version A or B suitable for
– Swinghandle 1180 3E-320 = A
– Swinghandle 1185 3E-520 = B

Further parts see page

– Rod guide 3ZC-120
to 3ZC-170

Program 1180

– Cam with stroke 26 3YC-120
3YC-140

Flat rod m.s. zinc-plated, rollers polyamide black

1121-U145-L mm

(1121-U145-01 to -08
see price list)

Rod for cam with stroke 26 mm

PROGRAM 1225

Minimum order quantity: 200 pieces

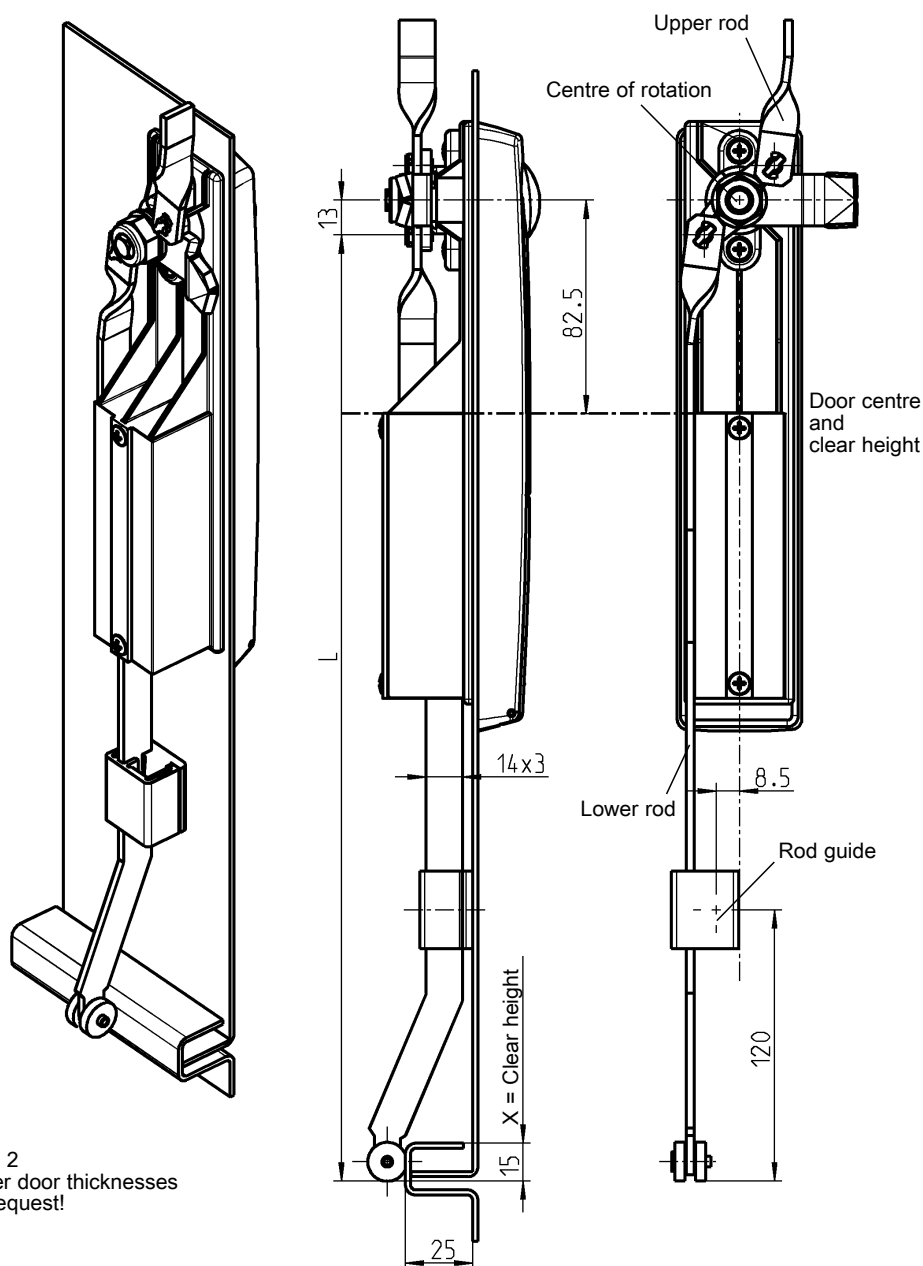
Smaller quantities on request

Calculation of rod length L

$$\text{Upper rod} \quad L = \frac{X}{2} - 80.5$$

$$\text{Lower rod} \quad L = \frac{X}{2} + 84.5$$

$$\text{Pivot point centre door, top and bottom same rod length} \quad L = \frac{X}{2} + 2$$



Ts = 2
Other door thicknesses
on request!

Flat rod m.s. zinc-plated, 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 guide 3ZC-120
to 3ZC-170

Program 1225
– Cam with stroke 26 3YC-140



Rod for cam with stroke 26 mm PROGRAM 2100

Minimum order quantity: 200 pieces

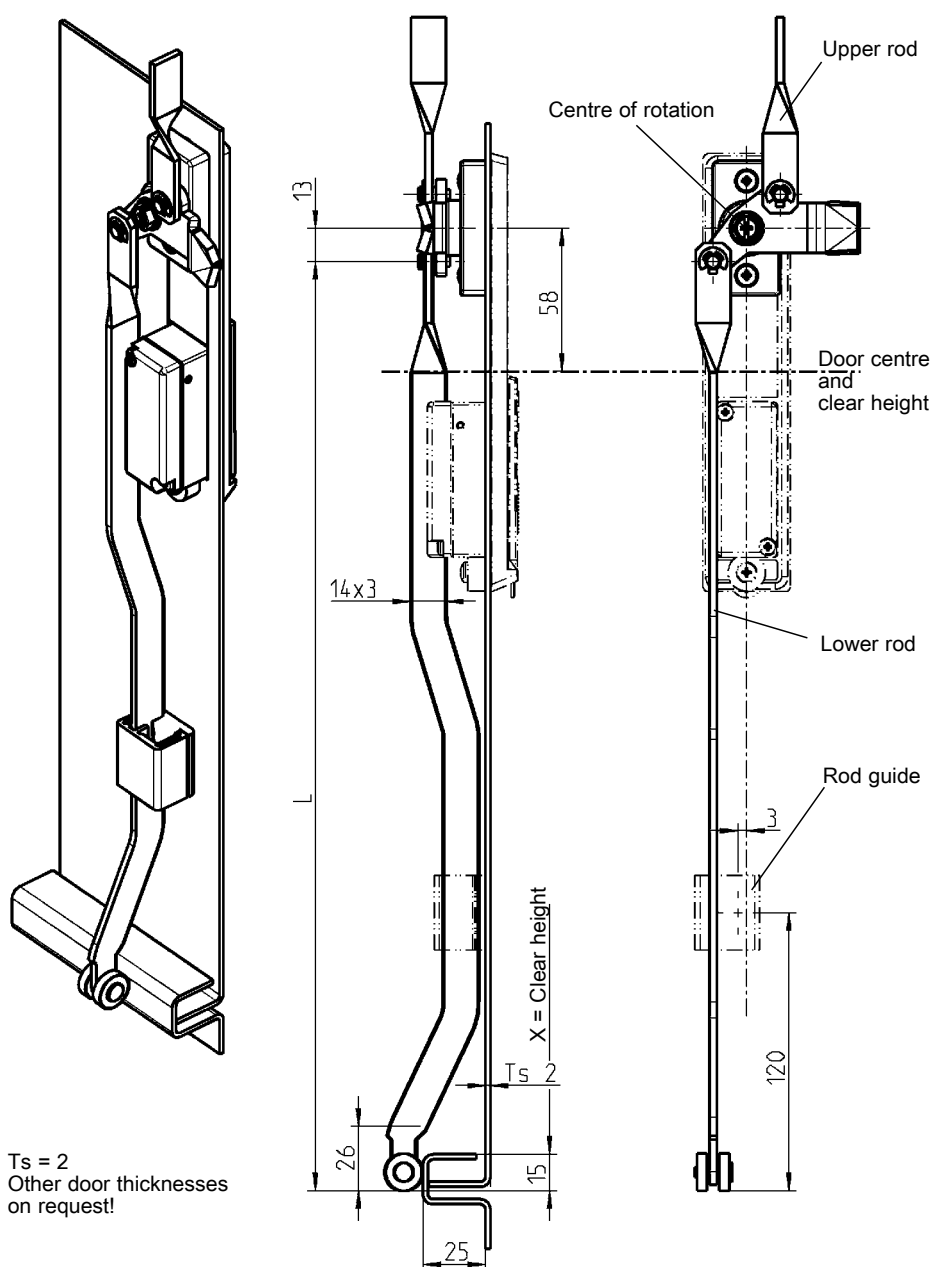
Smaller quantities on request

Calculation of rod length L

$$\text{Upper rod} \quad L = \frac{X}{2} - 56$$

$$\text{Lower rod} \quad L = \frac{X}{2} + 60$$

$$\text{Pivot point centre door, top and bottom same rod length} \quad L = \frac{X}{2} + 2$$



Ts = 2
Other door thicknesses
on request!

Further parts see page

– Rod guide 3ZC-120
to 3ZC-170

Program 2100

– Cam with stroke 26 3YB-420

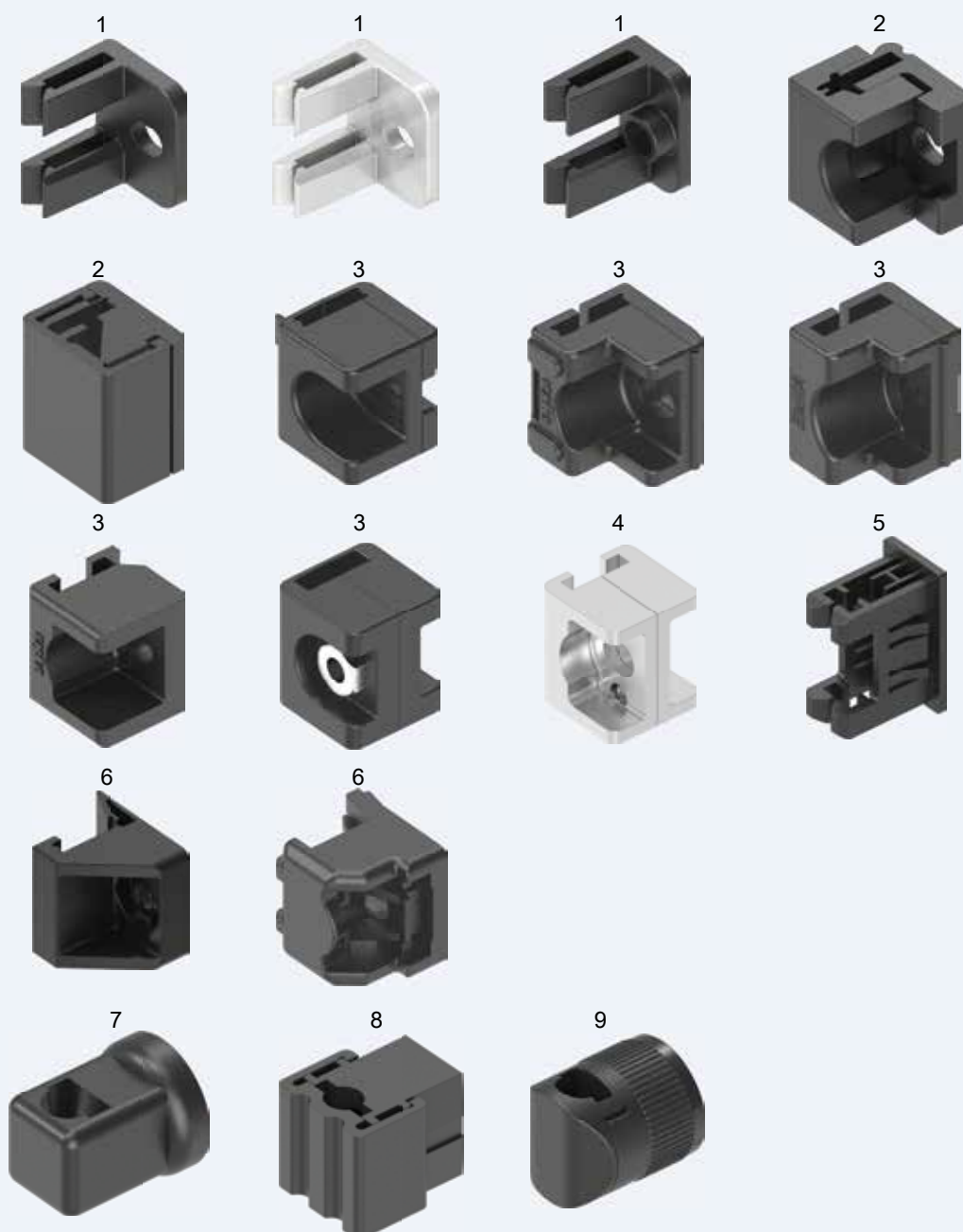
Flat rod m.s. zinc-plated, rollers polyamide black

1121-U145-L mm

(1121-U145-01 to -08
see price list)

Rod guide

Program 1107, 1125, 1150, 1160, 1180,
1190, 1225, 1317, 1325, 2100, 2400, 3000



- 1 for flat rod 3 x 14, flat rod is clipped in
- 2 for flat rod 3 x 14, cover is clipped 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 made of stainless steel
- 5 for flat rod 3 x 14, rod guide clip-in and flat rod will be clipped in
- 6 for flat rod 3 x 14, rod guide is clipped on and flat rod is clipped in
- 7 for round rod Ø 8
- 8 for round rod Ø 8, bottom part of rod guide is pre-assembled
- 9 for round rod Ø 8, rod guide is plugged on and screwed tight



3ZC-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

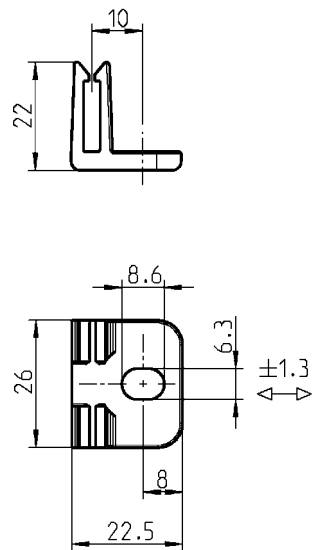
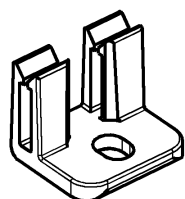
8 Miscellaneous

9 Special catalogues

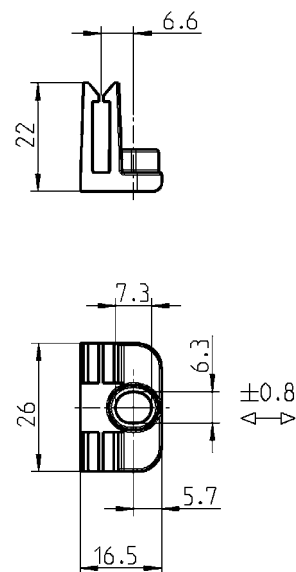
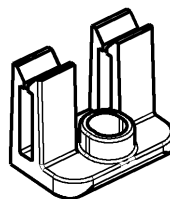
Index

Rod guide for flat rod 3x14

PROGRAM 1107 - 3000



Flat rod will clip-in



Flat rod will clip-in

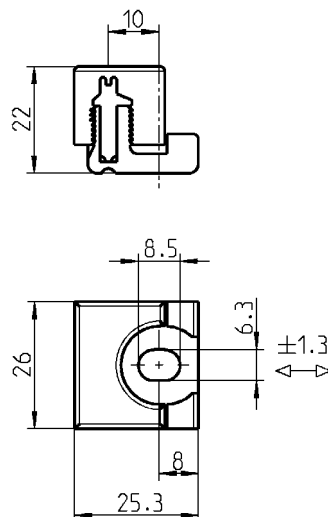
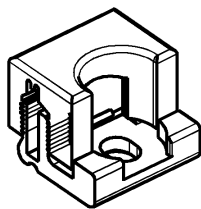
For small bending area!

Rod guide polyamide colour of choice for weld stud M6x12

black	1121-89
silver grey metallic	1121-89-CX

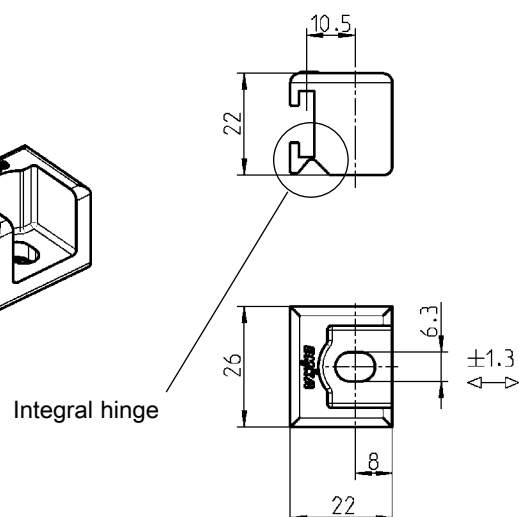
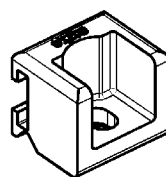
Rod guide polyamide black for rivet nut Ø 6x8-M4 and oval head screw DIN 7045 M4x6

1121-89-11



Pre-assembly of the bottom part possible!

Cover will clip-on!



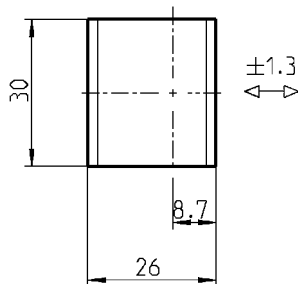
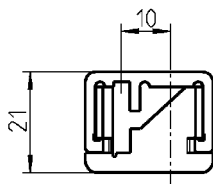
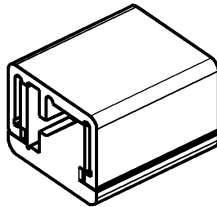
Rod guide can be pre-assembled on flat rod!

Rod guide polyamide black for weld stud M6x12

1121-U91

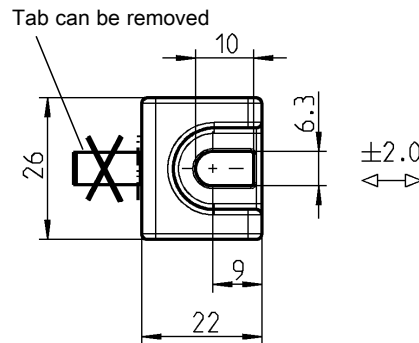
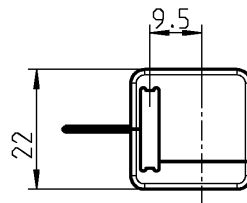
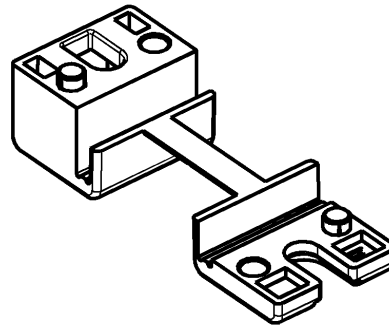
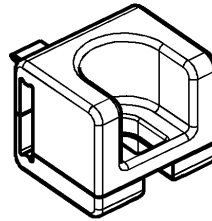
Rod guide polyamide black for weld stud M6x10, M6x12 or M6x16

1121-19



Pre-assembly of the bottom part possible!

Cover will clip-on!



Rod guide can be pre-assembled on flat rod!

Further parts see page

Program 1107, 1317

– Rods 3ZB-320

Program 1125, 1225, 1325

– Rods 3ZA-120

to 3ZA-340

3ZB-120

to 3ZB-220

3ZB-420

3ZB-440

3ZB-720

(only for 1125)

(only for 1225)

Program 1150

– Rods 3ZA-120

to 3ZA-340

3ZB-120

to 3ZB-220

3ZB-520

3ZB-540

Program 1160

– Rods 3ZA-120

to 3ZA-420

3ZB-120

to 3ZB-220

Program 1180

– Rods 3ZA-120

to 3ZA-340

3ZA-520

3ZB-120

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 2400

– Rods 3ZA-820

Program 3000

– Rods 3ZA-120

to 3ZA-340

3ZB-120

to 3ZB-220

Rod guide polyamide black
for weld stud M6x12

1121-U151

Rod guide polyamide black
for weld stud M6x16 or M6x20

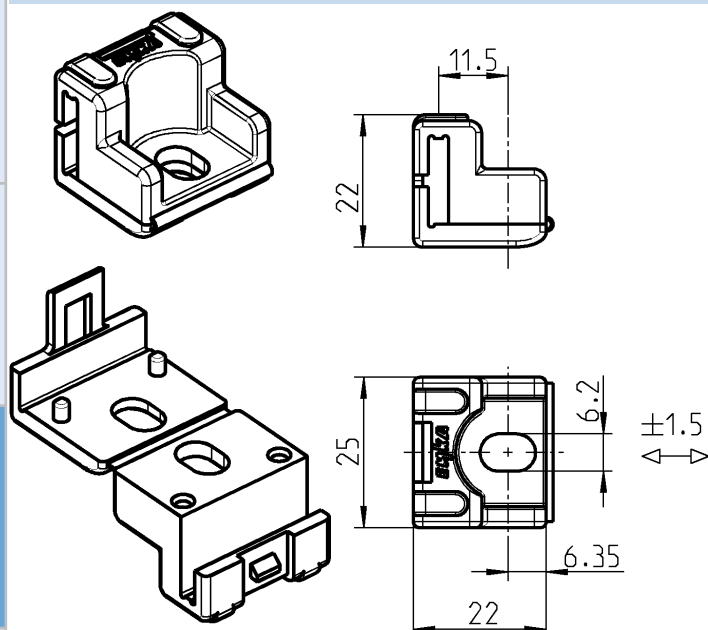
1121-19-N

3ZC-120 02/20

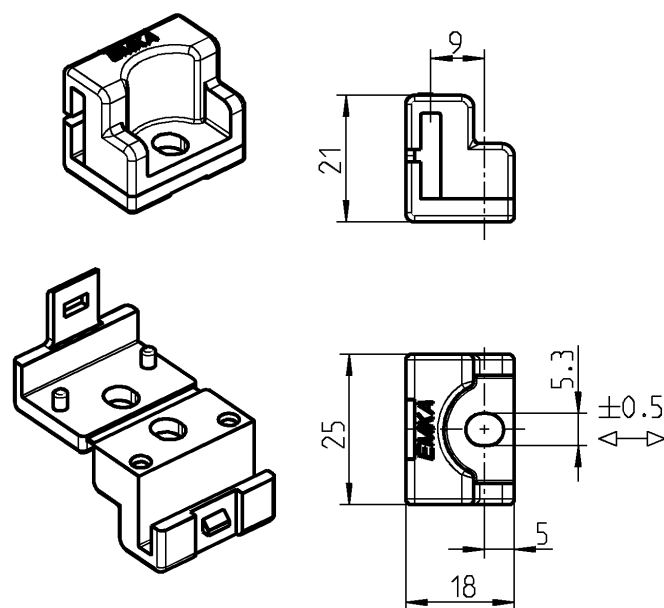
(3ZA-520)

Rod guide for flat rod 3x14

PROGRAM 1107, 1125, 1150, 1160, 1180, 1190, 1225, 1325, 2100, 2300 - 3000



Rod guide can be pre-assembled on flat rod!



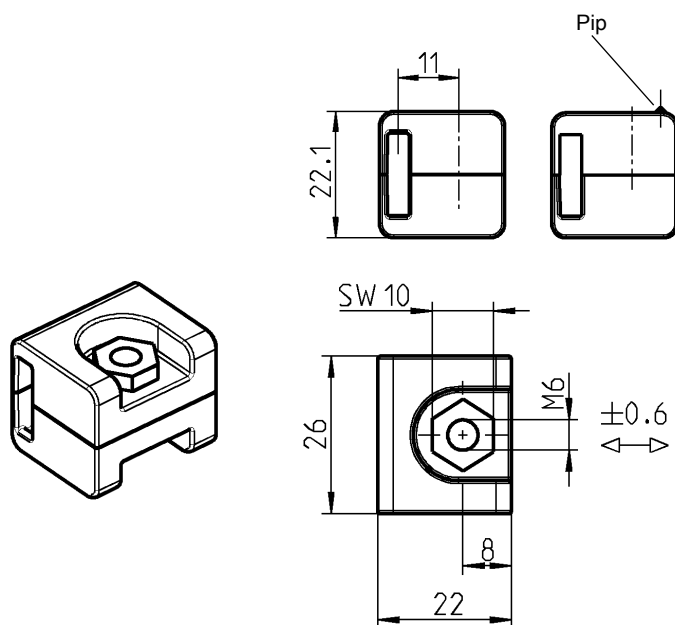
Rod guide can be pre-assembled on flat rod!

Rod guide polyamide black for weld stud M6x12

1121-109

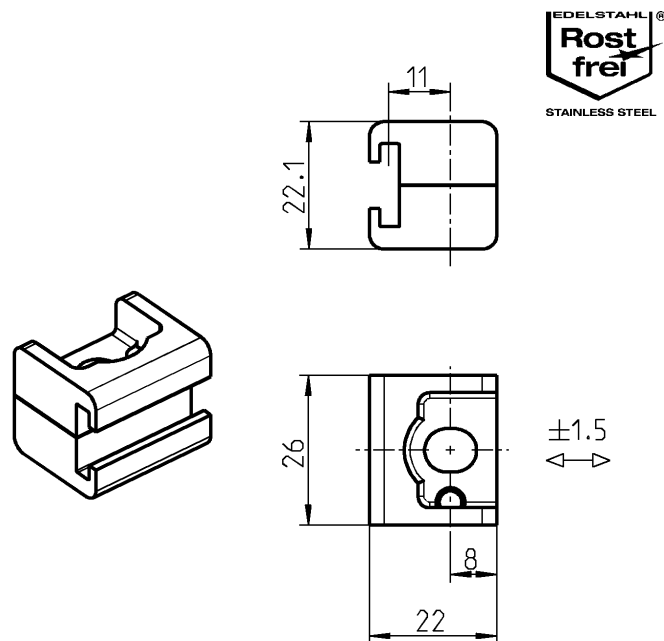
Rod guide polyamide black for weld stud M5x12

1121-106



Rod guide can be pre-assembled on flat rod!

Pips avoid 'door rattling'



Rod guide can be pre-assembled on flat rod!



Rod guide polyamide black, safety nut m.s. zinc-plated for weld studs or countersunk screw M6x16 or M6x20

without pip

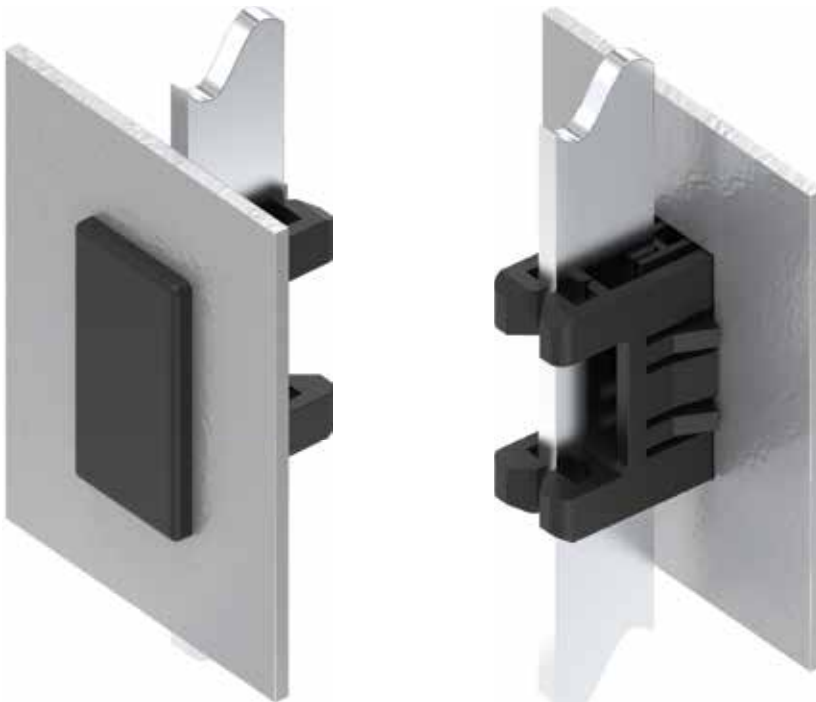
1121-U71-N

with pip

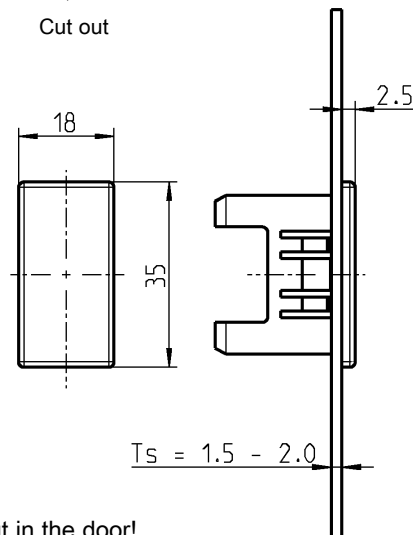
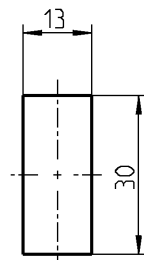
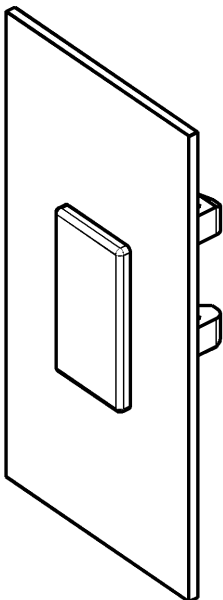
1121-U74-N

Rod guide AISI 316 for weld studs or countersunk screw M6x20

1121-U71-PH



+ ADVANTAGE
The fastest assembly without weld studs



Rod guide will clip-in through the cut out in the door!
Flat rod will clip-in

Rod guide polyamide black

2300-04



Further parts see page

Program 1107, 1317

– Rods 3ZB-320

Program 1125, 1225, 1325

– Rods 3ZA-120

to 3ZA-340

3ZB-120

to 3ZB-220

3ZB-420

3ZB-440

3ZB-720

(only for 1125)

(only for 1225)

Program 1150

– Rods 3ZA-120

to 3ZA-340

3ZB-120

to 3ZB-220

3ZB-520

3ZB-540

Program 1160

– Rods 3ZA-120

to 3ZA-420

3ZB-120

to 3ZB-220

Program 1180

– Rods 3ZA-120

to 3ZA-340

3ZA-520

3ZB-120

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 2400

– Rods 3ZA-820

Program 3000

– Rods 3ZA-120

to 3ZA-340

3ZB-120

to 3ZB-220

3ZC-140 02/20

(3ZA-520, 3L-480)

Rod guide clip-in for flat rod 3x14

PROGRAM 1107 - 3000

Pull-out force: $F_{max.} = 350 \text{ N}$
 Application force: Typical value $F \approx 135 \text{ N}$

These values refer to threads with surface raw or zinc-plated and grease-free.



Further parts see page

Program 1107, 1317

– Rods 3ZB-320

Program 1125, 1225, 1325

– Rods 3ZA-120 to 3ZA-340
 3ZB-120 to 3ZB-220
 3ZB-420 to 3ZB-440
 (only for 1125) 3ZB-720
 (only for 1225)

Program 1150

– Rods 3ZA-120 to 3ZA-340
 3ZB-120 to 3ZB-220
 3ZB-520 to 3ZB-540

Program 1160

– Rods 3ZA-120 to 3ZA-420
 3ZB-120 to 3ZB-220

Program 1180

– Rods 3ZA-120 to 3ZA-340
 3ZA-520 to 3ZB-120
 3ZB-220 to 3ZB-620

Program 1190

– Rods 3ZA-120 to 3ZA-340

Program 2100

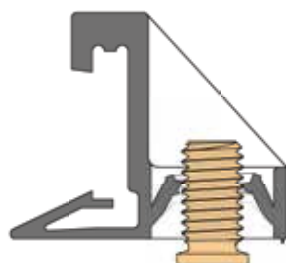
– Rods 3ZA-120 to 3ZA-340
 3ZB-120 to 3ZB-220
 3ZB-820

Program 2400

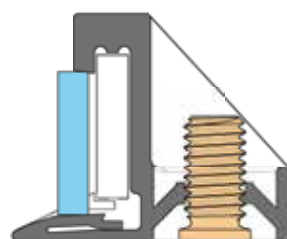
– Rods 3ZA-820

Program 3000

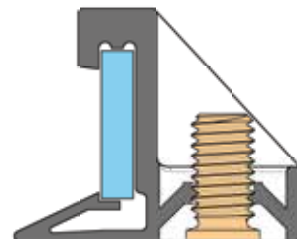
– Rods 3ZA-120 to 3ZA-340
 3ZB-120 to 3ZB-220



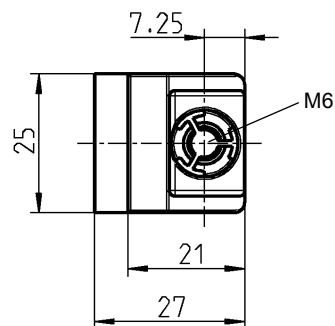
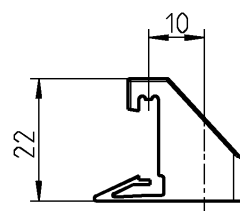
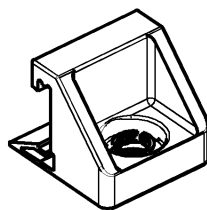
1. Mounting the rod guide on the weld stud



2. Mounting the flat rod into the rod guide



3. Rod guide ready mounted



Rod guide clip-in plastic black
 for weld stud M6x10 or M6x12

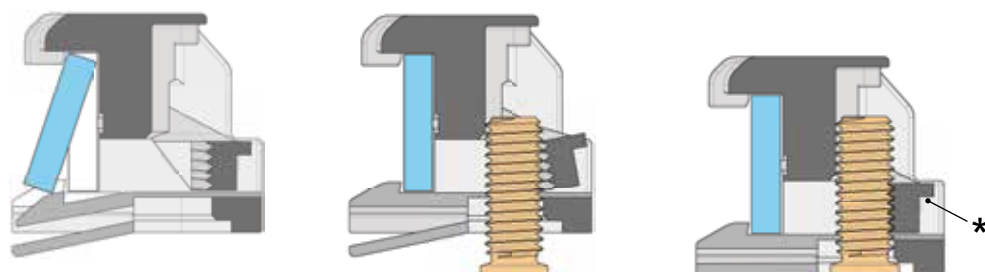
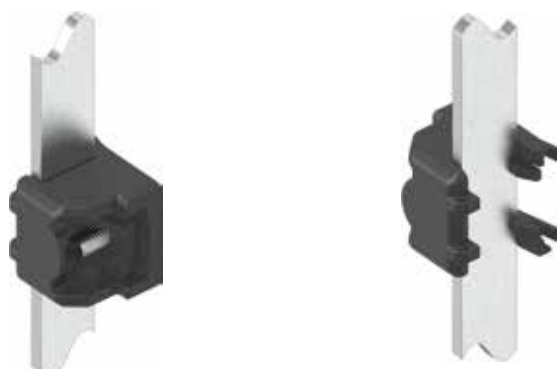
1121-127

Rod guide clip-in for flat rod 3x14

PROGRAM 1107 - 3000

Pull-out force: $F_{max.} = 650 \text{ N}$
 Application force: Typical value $F = \text{very low}$

These values refer to threads with a grease-free surface.

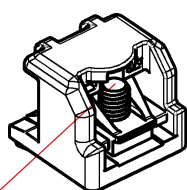


1. Mounting the flat rod into the rod guide

2. Mounting the rod guide on the weld stud

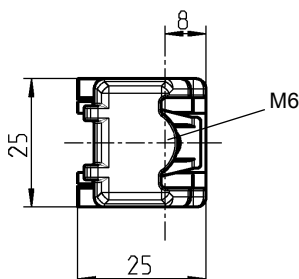
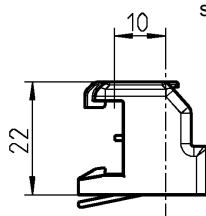
3. Rod guide ready mounted

* Tab must 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 pull-out force!



Rod guide clip-in polyamide black for weld stud M6x16 or M6x20

1121-135



Further parts see page

Program 1107, 1317
 – Rods 3ZB-320

Program 1125, 1225, 1325
 – 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
 – Rods 3ZA-120 to 3ZA-340
 3ZB-120 to 3ZB-220
 3ZB-520
 3ZB-540

Program 1160
 – Rods 3ZA-120 to 3ZA-420
 3ZB-120 to 3ZB-220

Program 1180
 – Rods 3ZA-120 to 3ZA-340
 3ZA-520
 3ZB-120 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 2400
 – Rods 3ZA-820

Program 3000
 – Rods 3ZA-120 to 3ZA-340
 3ZB-120 to 3ZB-220



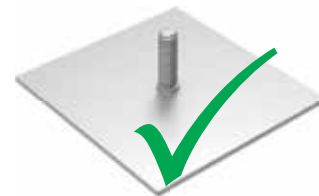
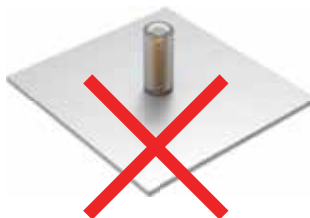
1. Place the rod guide on the weld stud. (Hereby the time-consuming screwing is reduced considerably.)



2. Set the rod guide upright. This makes it snap into place noticeably and audibly. It can then be secured by only a few rotations.

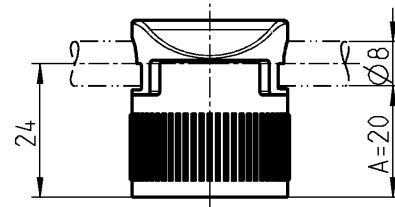
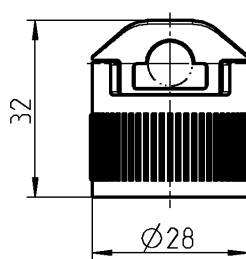
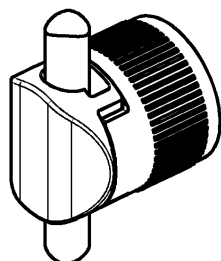


3. Rod guide is completely mounted.

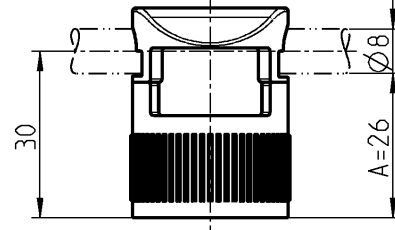
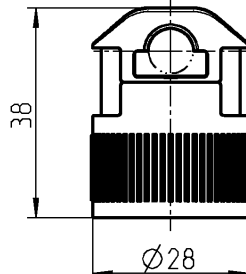
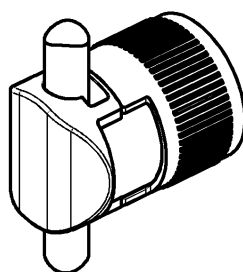


ADVANTAGE

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
– Rods 3ZB-120
3ZB-180

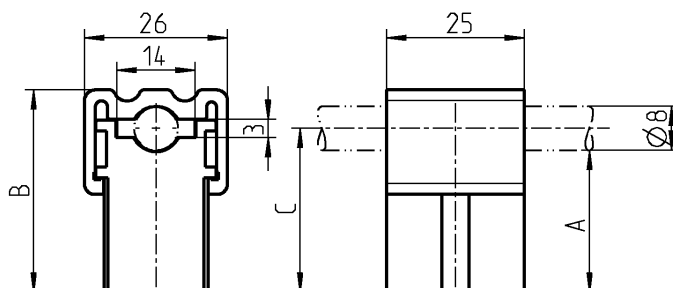
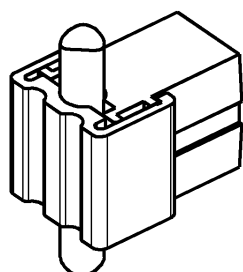
Rod guide polyamide GF black

A	for weld stud
20	M6x16
26	M6x20

1001-U47

Rod guide for round rods 8 mm

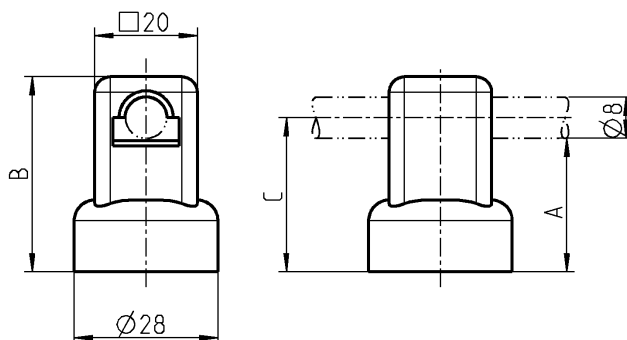
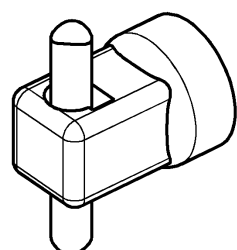
PROGRAM 1107 - 3000



Note:
Rod guide can also be used
for horizontal flat rods 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 sunken 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
– Rods 3ZB-120
3ZB-180

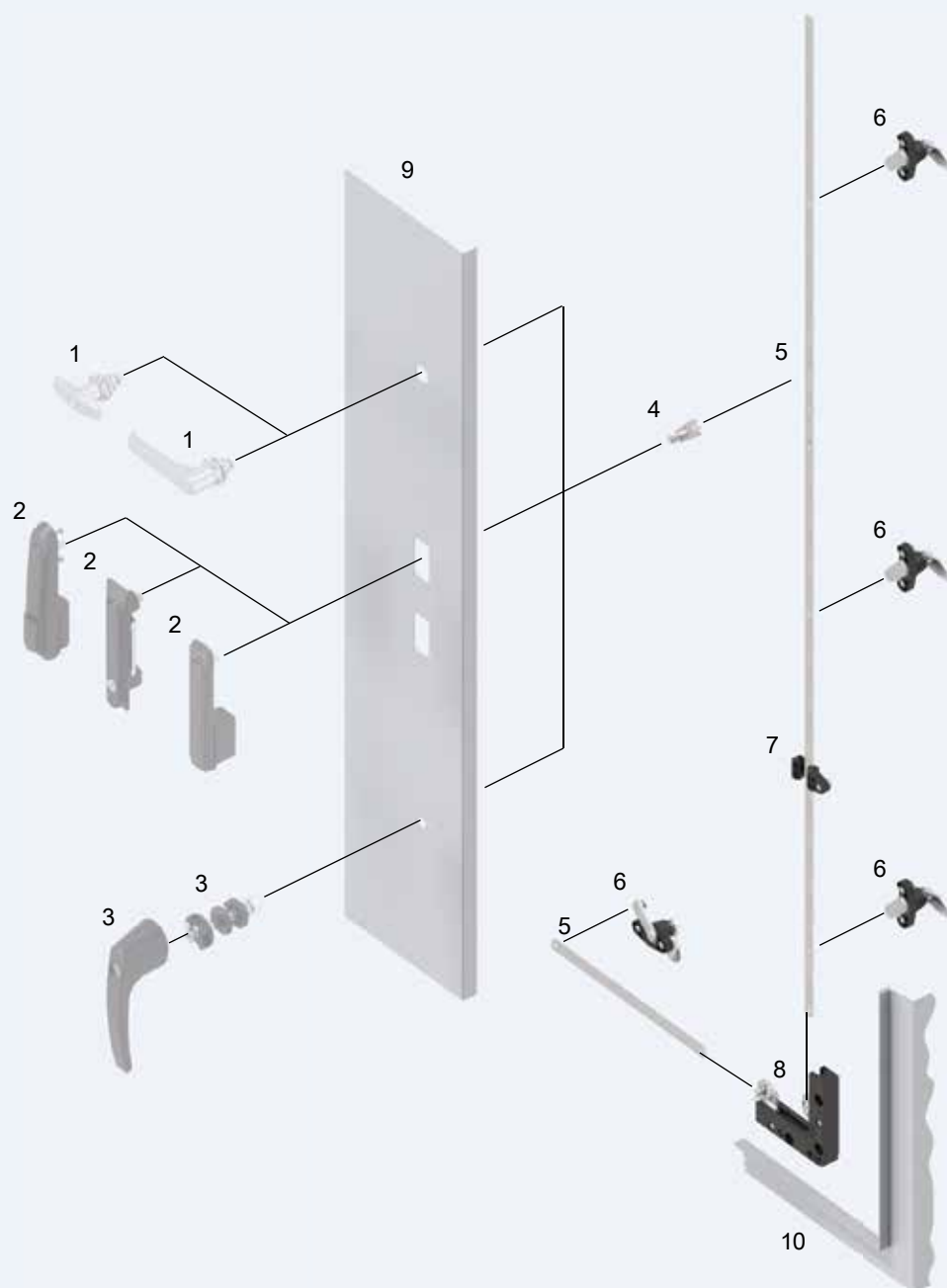
3ZC-220 01/14

(3ZB-520)

Info	
1 Quarter turns	Beschlagteile
2 Rod controls	
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
9 Special catalogues	
Index	

Compression latch system inside the sealing

Program 1000, 1091, 1125, 1150, 1180, 1225, 1325, 2100, 2225, 3000



- 1 Quarter turn, Program 1000
- 2 Swinghandle, Program 1125, 1150, 1180, 1225, 1325, 2100, 2225, 3000
- 3 Modular locking system, Program 1091 (Special catalogue HVACR)
- 4 Rod control
- 5 Connecting rod
- 6 Locking point
- 7 Rod guide
- 8 Corner guide
- 9 Door
- 10 Housing / Frame



3ZD-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

Index

Compression latch system for swinghandle, quarter turn and HVACR system

PROGRAM 1000, 1091, 1125, 1150, 1180, 1225, 1325, 2100, 2225, 3000

Ⓐ



**Swinghandle
with GH = 18**

Ⓑ



**Quarter turn
with GH = 18**

Ⓒ



**Modular locking system
HVACR system**



Product benefits

- Compression function
- Latch and cut out independent for compression latch system
- Corner guide can be used for additional latches in transverse installation
- High closing comfort
- Patented



Further parts see page

- Connecting rod 3ZB-140
- Locking point compression latch 3ZD-160
- Rod control 3ZD-180
- Rod guide 3ZD-200
- Corner guide 3ZD-220
- Cam 3ZD-240
- Roller Cam
- Special catalogue HVACR
- Ramp 1C-170

Program 1000

- Safety quarter turn 1B-330
- 1B-332
- Handle quarter turn, lockable 1B-560
- to 1B-650

Program 1125, 1150, 1180, 1225, 1325, 2100, 2225, 3000

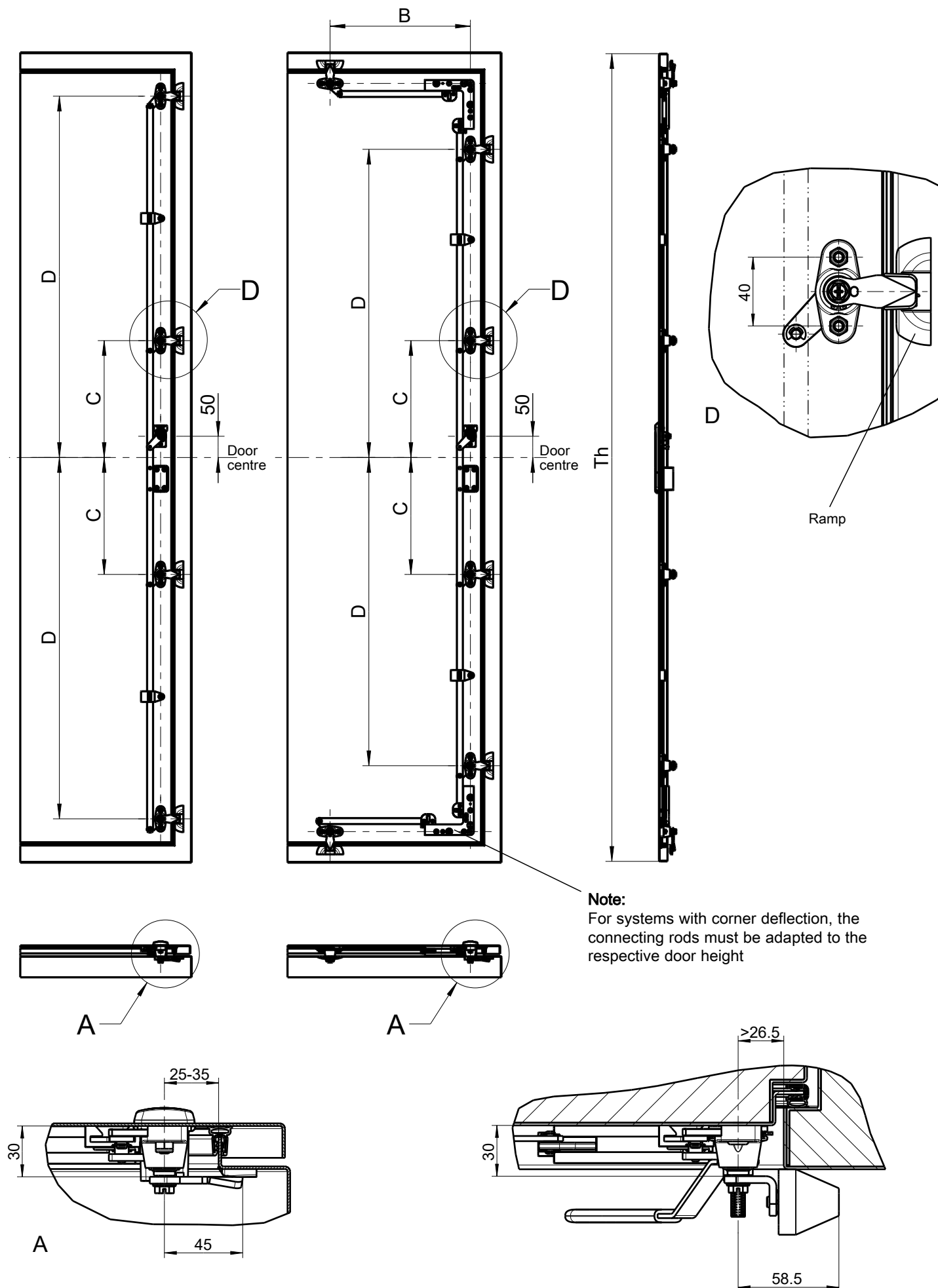
- Swinghandle 3B-100
- 3BA-100
- 3C-100
- 3E-100
- 3G-100
- 3H-100
- 3J-100
- 3N-100

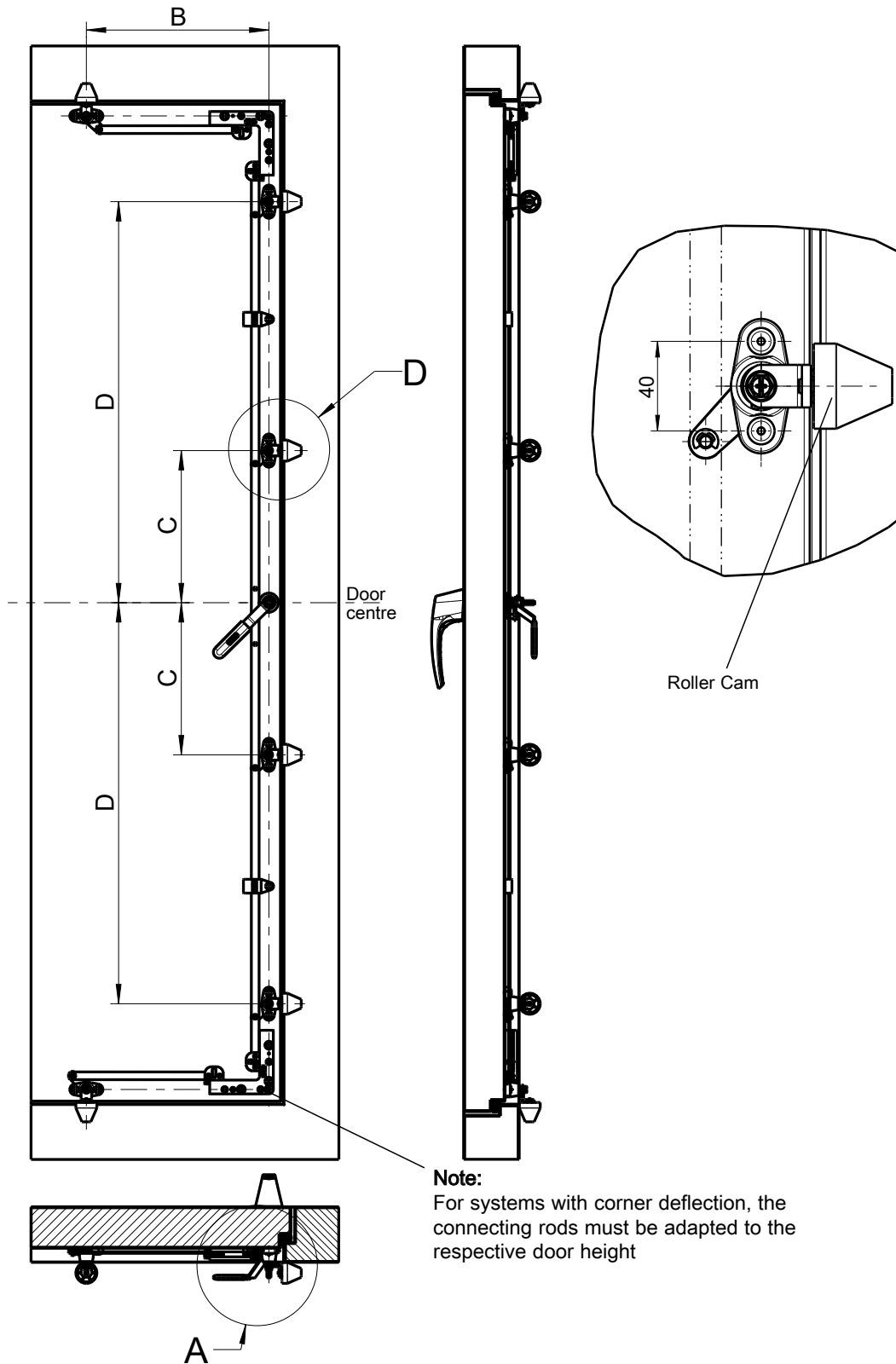
Program 1091

- Handle
- Special catalogue HVACR
- Shafts E1 and E2
- Special catalogue HVACR

Connecting rod for compression latch system

PROGRAM 1000, 1091, 1125, 1150, 1180, 1225, 1325, 2100, 2225, 3000





Note:
For systems with corner deflection, the connecting rods must be adapted to the respective door height



Further parts see page

- System overview 3ZB-120
- Locking point compression latch 3ZD-160
- Rod control 3ZD-180
- Rod guide 3ZD-200
- Corner guide 3ZD-220
- Cam 3ZD-240
- Roller Cam Special catalogue HVACR
- Ramp 1C-170

Program 1000

- Safety quarter turn 1B-330
- 1B-332
- Handle quarter turn, lockable 1B-560
- to 1B-650

Program 1125, 1150, 1180, 1225, 1325, 2100, 2225, 3000

- Swinghandle 3B-100
- 3BA-100
- 3C-100
- 3E-100
- 3G-100

- 3H-100
- 3J-100
- 3N-100

Program 1091

- Handle Special catalogue HVACR
- Shafts E1 and E2 Special catalogue HVACR

Connecting rod vertical (without corner guide)

Door height Th	Dim. C	Dim. D	
800-1200	–	300	on request
1200-1600	–	450	on request
1600-1900	275	700	on request
1900-2200	275	850	on request

Connecting rod horizontal

Dimension B according to customer's choice	on request
--	------------

3ZD-140

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
Index



Right-hand version



Left-hand version

Further parts see page

- System overview 3ZB-120
- Connecting rod 3ZB-140
- Rod control 3ZD-180
- Rod guide 3ZD-200
- Corner guide 3ZD-220
- Cam 3ZD-240
- Roller Cam
- Special catalogue HVACR
- Ramp 1C-170

Program 1000

- Safety quarter turn 1B-330
- 1B-332
- Handle quarter turn, lockable 1B-560
- to 1B-650

Program 1125, 1150, 1180, 1225, 1325, 2100, 2225, 3000

- Swinghandle 3B-100
- 3BA-100
- 3C-100
- 3E-100
- 3G-100
- 3H-100
- 3J-100
- 3N-100

Program 1091

- Handle
- Special catalogue HVACR
- Shafts E1 and E2
- Special catalogue HVACR



Right-hand version
Compressed condition



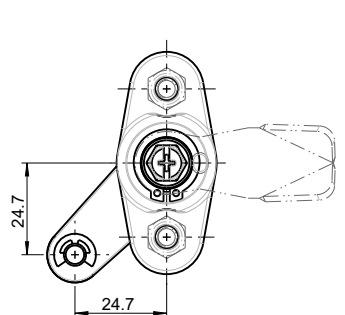
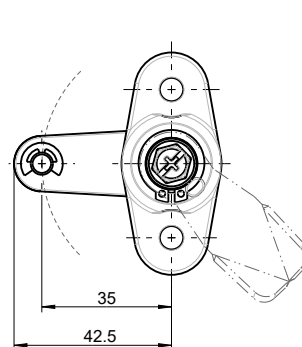
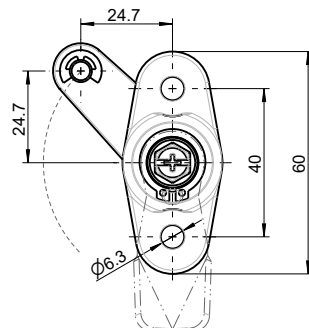
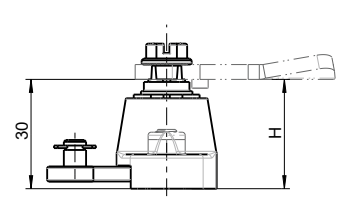
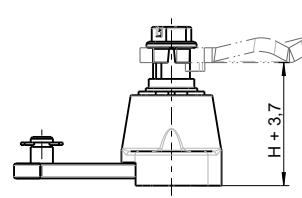
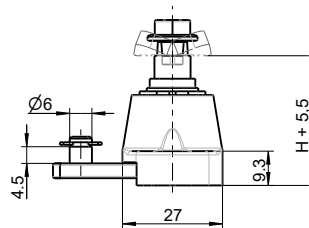
Right-hand version
Open condition



Left-hand version
Compressed condition



Left-hand version
Open condition



**Locking point for weld stud M6x16 or blind rivet;
housing polyamide 66 GF 50 black, insert, bush and locking shaft zinc die raw;
pin, screw and circlip m.s. zinc-plated; with spring**

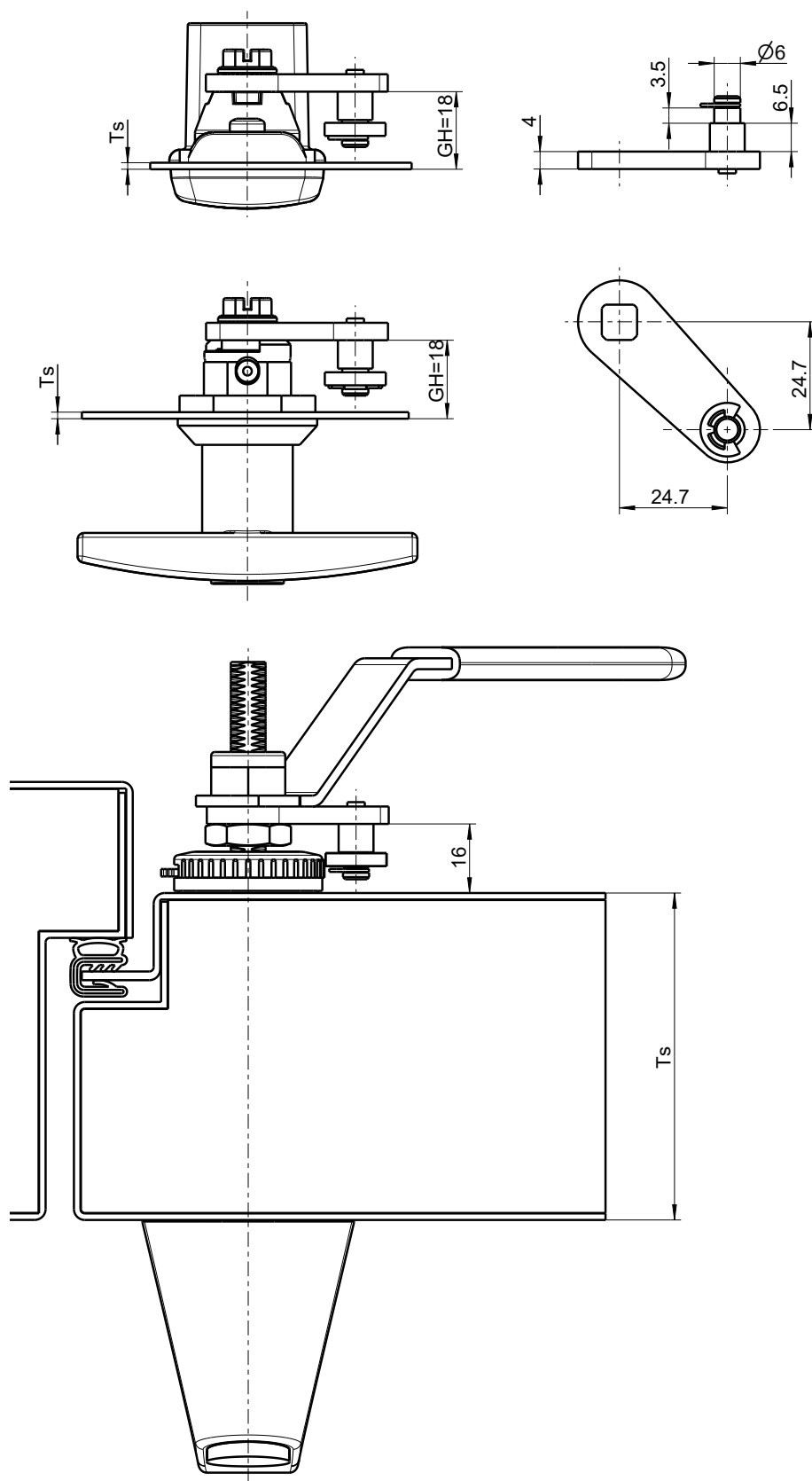
Right-hand version (for quarter turn left-hand version)

1121-U203

Left-hand version (for quarter turn right-hand version)

1121-U204

Rod control for compression latch system PROGRAM 1000 - 3000



Rod control m.s. zinc-plated

1000-U980



Further parts see page

- System overview 3ZB-120
- Connecting rod 3ZB-140
- Locking point compression latch

- 3ZD-160
- Rod guide 3ZD-200
- Corner guide 3ZD-220
- Cam 3ZD-240

Program 1000

- Safety quarter turn 1B-330
- 1B-332
- Handle quarter turn, lockable 1B-560
- to 1B-650

Program 1125, 1150, 1180, 1225, 1325, 2100, 2225, 3000

- Swinghandle 3B-100
- 3BA-100
- 3C-100
- 3E-100
- 3G-100

- 3H-100
- 3J-100
- 3N-100

Program 1091

- Handle Special catalogue HVACR
- Shafts E1 and E2 Special catalogue HVACR

3ZD-180

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

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Further parts see page

- System overview 3ZB-120
- Connecting rod 3ZB-140
- Locking point compression latch

- 3ZD-160
- Rod control 3ZD-180
- Corner guide 3ZD-220
- Cam 3ZD-240

Program 1000

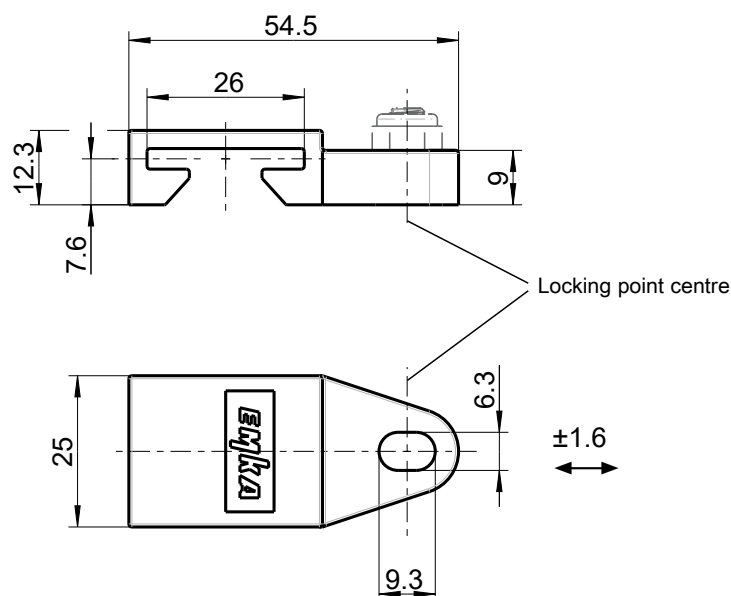
- Safety quarter turn 1B-330
- 1B-332
- Handle quarter turn, lockable 1B-560
- to 1B-650

Program 1125, 1150, 1180, 1225, 1325, 2100, 2225, 3000

- Swinghandle 3B-100
- 3BA-100
- 3C-100
- 3E-100
- 3G-100
- 3H-100
- 3J-100
- 3N-100

Program 1091

- Handle Special catalogue HVACR
- Shafts E1 and E2 Special catalogue HVACR

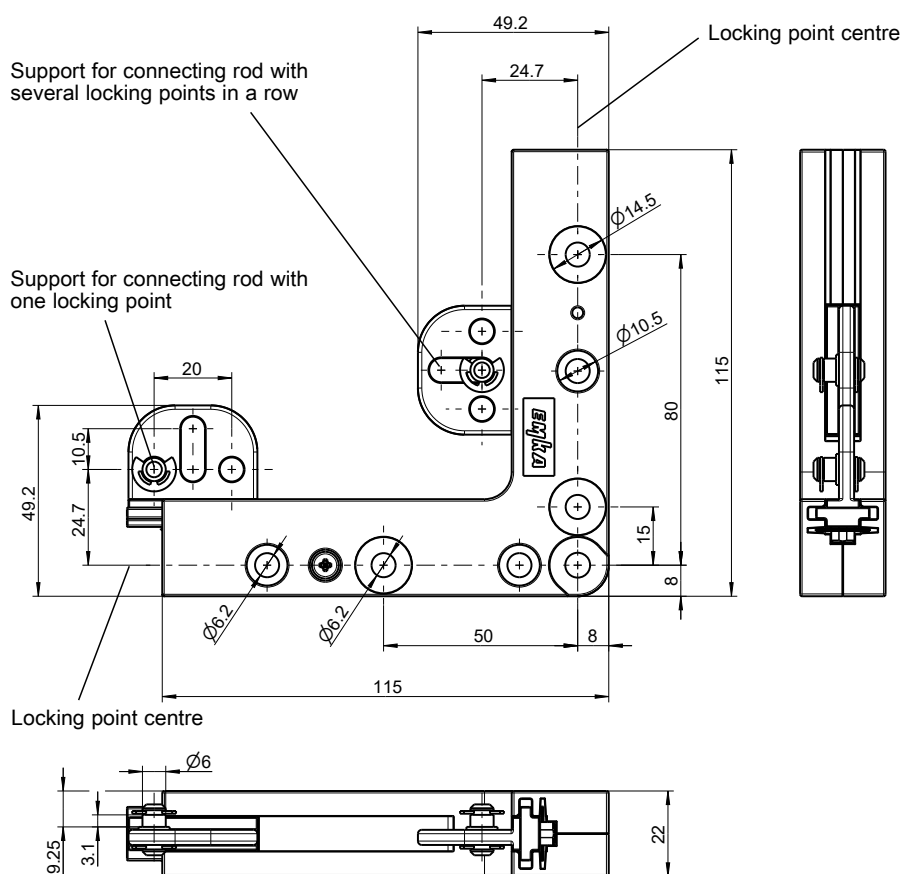
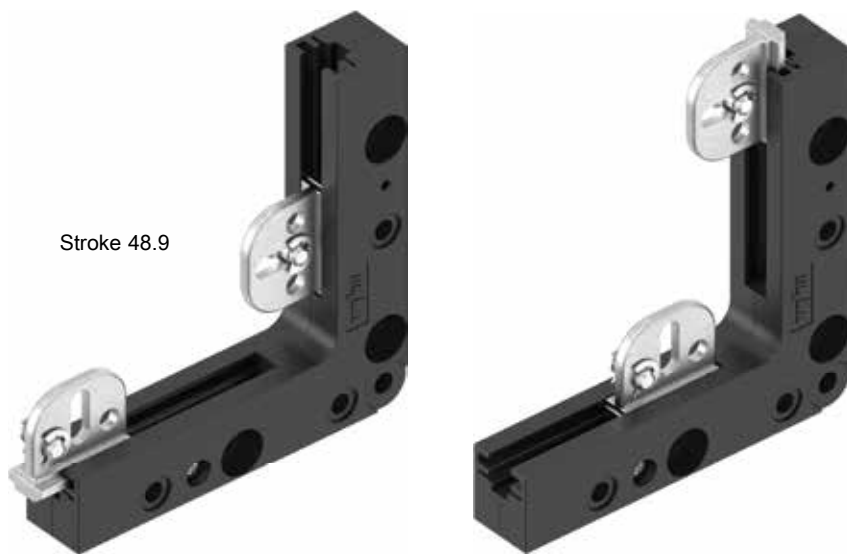


Rod guide polyamide GF black

for weld stud M6x16 or blind rivet

1121-169

Corner guide for compression latch system *PROGRAM 1000 - 3000*



Corner guide

Housing polyamide GF black, connector zinc die raw; rivet m.s. zinc-plated; circlip and screw m.s. zinc-plated; with spring hinge

for weld stud M6x20 or blind rivet

1121-U205

Further parts see page

- System overview 3ZB-120
- Connecting rod 3ZB-140
- Locking point
compression latch

- | | |
|---------------|---------|
| – Rod control | 3ZD-180 |
| – Rod guide | 3ZD-200 |
| – Cam | 3ZD-240 |

Program 1000

- Safety quarter turn 1B-330
1B-332
- Handle quarter turn, lockable 1B-560
to 1B-650

**Program 1125, 1150, 1180, 1225,
1325, 2100, 2225, 3000**

- Swinghandle

- 3H-100
3J-100
3N-100

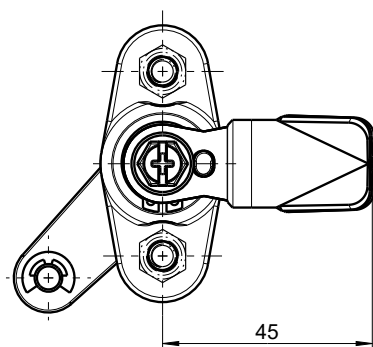
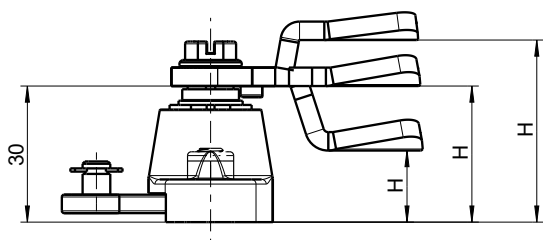
Program 1091

- Handle
Special catalogue HVACR
- Shafts E1 and E2
Special catalogue HVACR

3ZD-220

Info	
1 Quarter turns	Beschlagteile
2 Rod controls	
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
9 Special catalogues	
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Cam for compression latch system PROGRAM 1000 - 3000



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

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Cam with catch, material of choice

H	m.s. zinc-plated	AISI 304	AISI 316
16	1000-112	-	-
18	1000-22	1000-221	1000-221-PD
20	1000-113	-	-
22	1000-21	1000-223	1000-223-PD
25	1000-20	-	-
26	1000-19	1000-225	1000-225-PD
28	1000-18	-	-
30	1000-17	1000-227	1000-227-PD
32	1000-16	1000-228	1000-228-PD
34	1000-15	1000-179	1000-179-PD
36	1000-14	1000-229	1000-229-PD
37	1000-27	-	-
38	1000-50	1000-230	1000-230-PD
40	1000-13	1000-180	1000-180-PD
42	1000-28	-	-
44	1000-26	-	-
46	1000-12	-	-
47	1000-11	-	-
48	1000-51	-	-
50	1000-52	-	-
52	1000-25	-	-
54	1000-53	-	-
56	1000-54	-	-
57	1000-10	-	-
59	1000-55	-	-
61	1000-56	-	-

Further parts see page

- System overview 3ZB-120
- Connecting rod 3ZB-140
- Locking point compression latch

- 3ZD-160
- Rod control 3ZD-180
- Rod guide 3ZD-200
- Corner guide 3ZD-220
- Ramp 1C-170
- Roller Cam
- Special catalogue HVACR

Program 1000

- Safety quarter turn 1B-330
- 1B-332
- Handle quarter turn, lockable 1B-560
- to 1B-650

Program 1125, 1150, 1180, 1225, 1325, 2100, 2225, 3000

- Swinghandle 3B-100
- 3BA-100
- 3C-100
- 3E-100
- 3G-100

Program 1091

- Handle
- Special catalogue HVACR
- Shafts E1 and E2
- Special catalogue HVACR

3ZD-240

Hinges for flush door and 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°
					●	●		●							●	
					●	●	●		●	●	●	●		●	●	●
●	●	●	●	●												
●	●		●		●	●	●		●	●	●		●			
														●		
●	●	●		●												
			●	●	●	●	●	●	●	●	●	●	●	●	●	●
					●			●							●	

[illegible]

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	
		●									●	For door notch	
				●								Material polyamide	
●			●	●		●		●	●	●	●	Material zinc die	
	●	●	●		●	●	●	●	●	●		Material m.s.	
	●			●			●					Material stainless steel	
		●										For pressure-resistant doors	
		●	●		●	●	●	●				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	

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

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Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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Hinge for prominent door

1



Door depicted transparent

1



Door depicted transparent

2



3

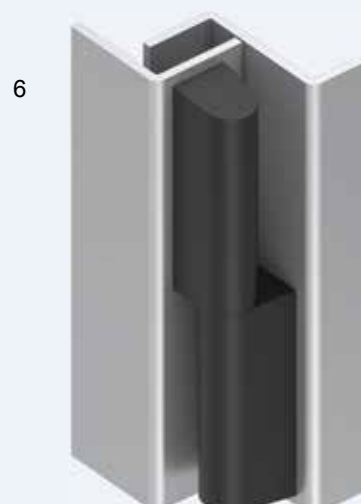
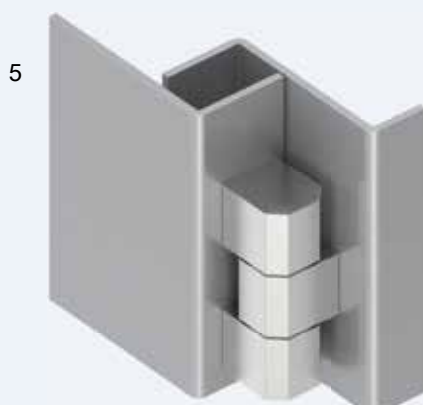
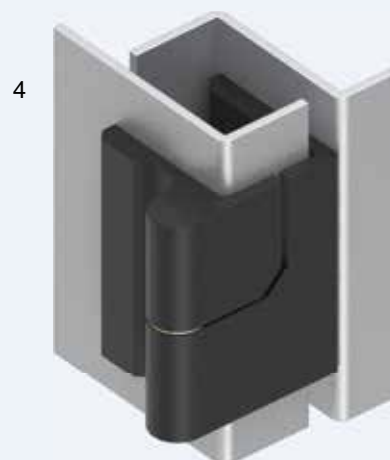
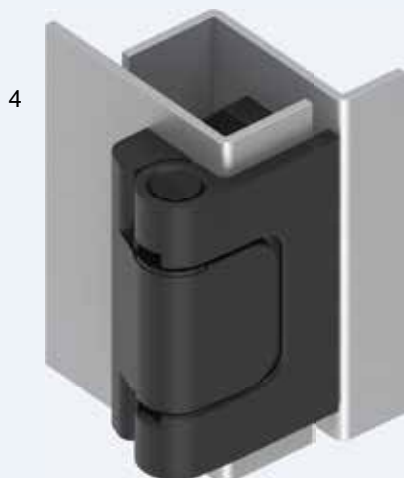


3



3





- 1 120° to 135° Concealed hinge
- 2 120° Concealed hinge and lift-off version
- 3 180° Prominent hinge
- 4 180° Prominent hinge and lift-off version
- 5 180° Prominent hinge
- 6 180° Prominent hinge and lift-off version

4A-120 to 4A-135, 4A-140,
4A-150, 4A-190, 4A-280
4A-190
4A-138, 4A-150, 4A-160, 4A-450, 4A-460
4A-170, 4A-210 to 4A-220
4A-250 to 4A-280, 4A-310
4A-285 to 4A-300



4A-100



AISI
INOX



*not included in the scope of delivery

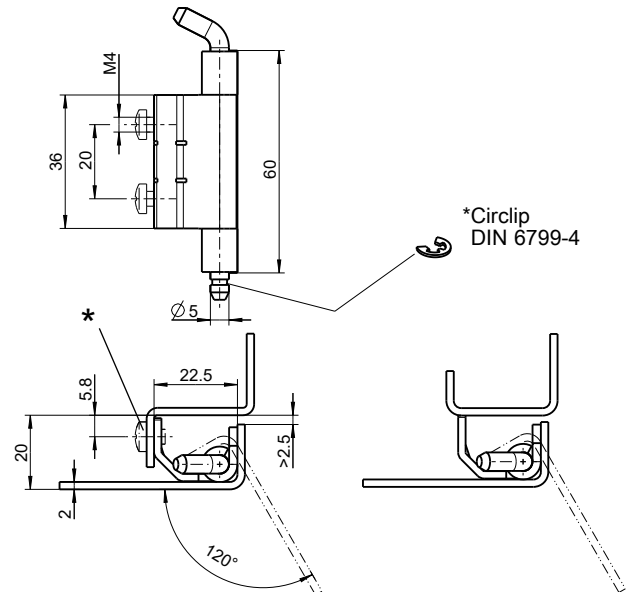
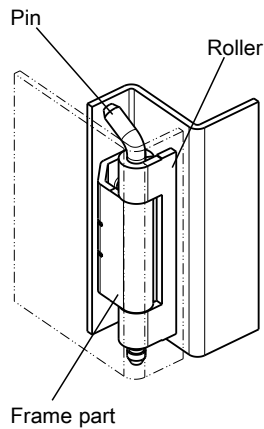
Further parts see page
– Fixing material

8E-100

120° Hinge PROGRAM 1069



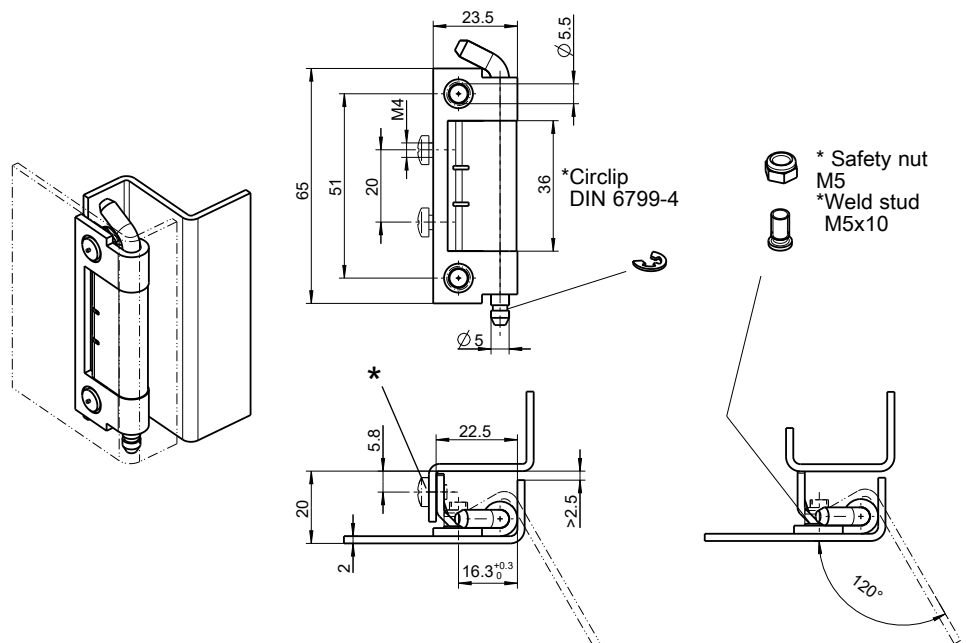
120° Hinge for 20 mm door return



Hinge m.s. zinc-plated or stainless steel, roller 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 fixing for 20 mm door return



Hinge m.s. zinc-plated, screw-on

1069-U6

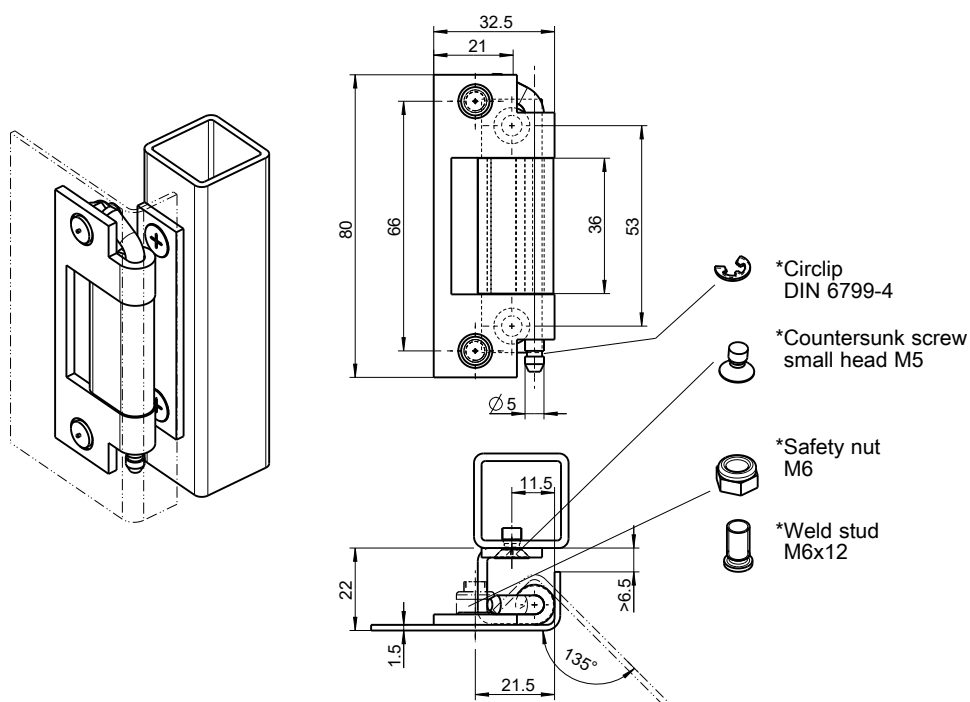
Hinge m. s. zinc-plated, weld-on

Weld-on part m.s. raw

1069-U5

135° and 180° Hinge PROGRAM 1032, 1110

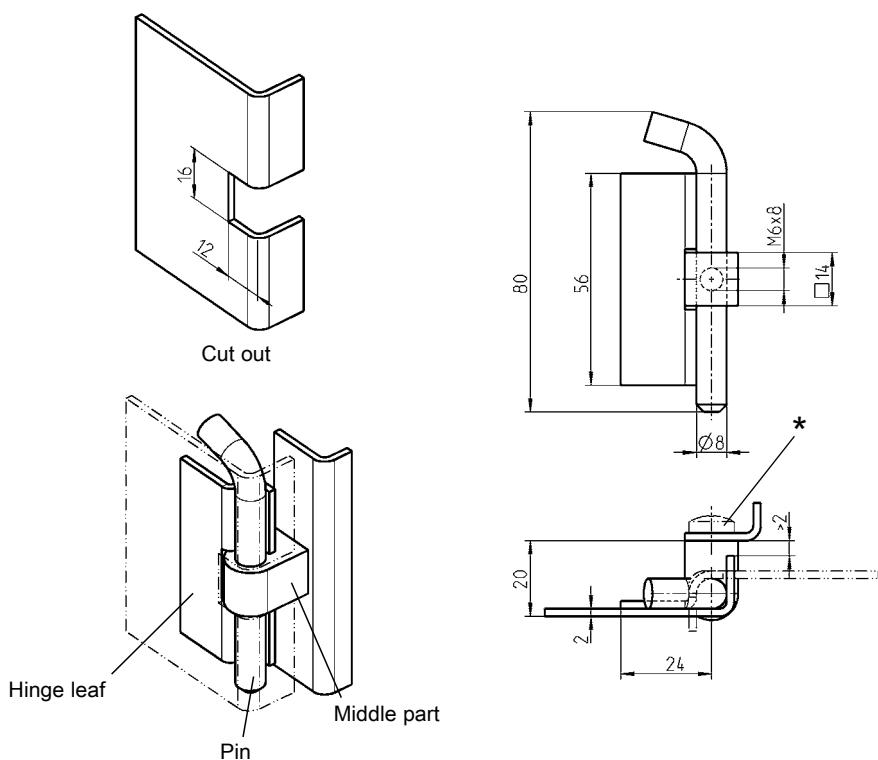
135° Hinge for 22 mm door return



Hinge m.s. zinc-plated

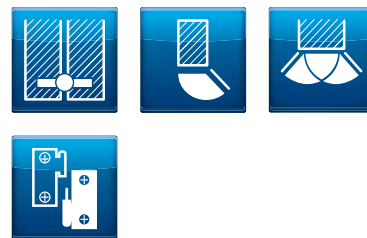
1032-U6

180° Hinge for 20 mm door return



Hinge m.s. zinc-plated; weld-on parts raw

1110-U1



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



*not included in the scope of delivery

Further parts see page
– Fixing material

8E-100



AISI
INOX



*not included in the scope of delivery

Further parts see page
– Fixing material

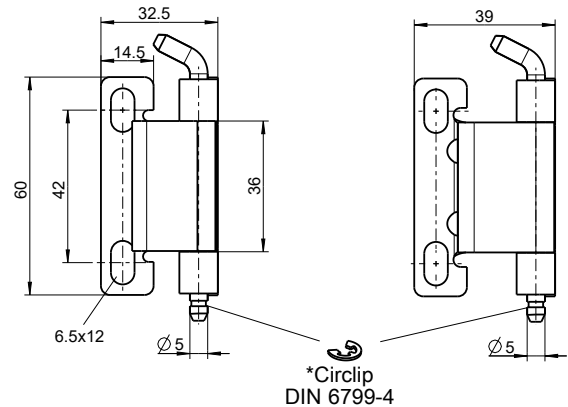
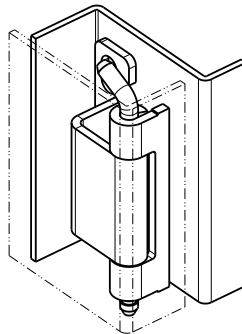
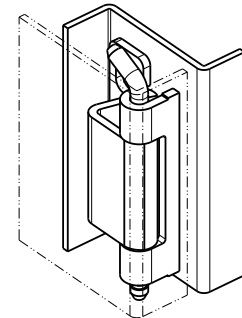
8E-100

120° Hinge PROGRAM 1032

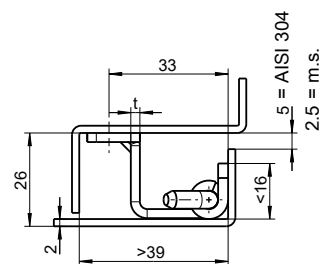
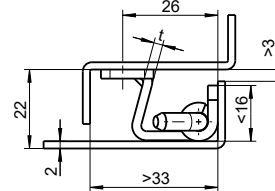


STAINLESS STEEL

120° Hinge for 22 or 26 mm door return



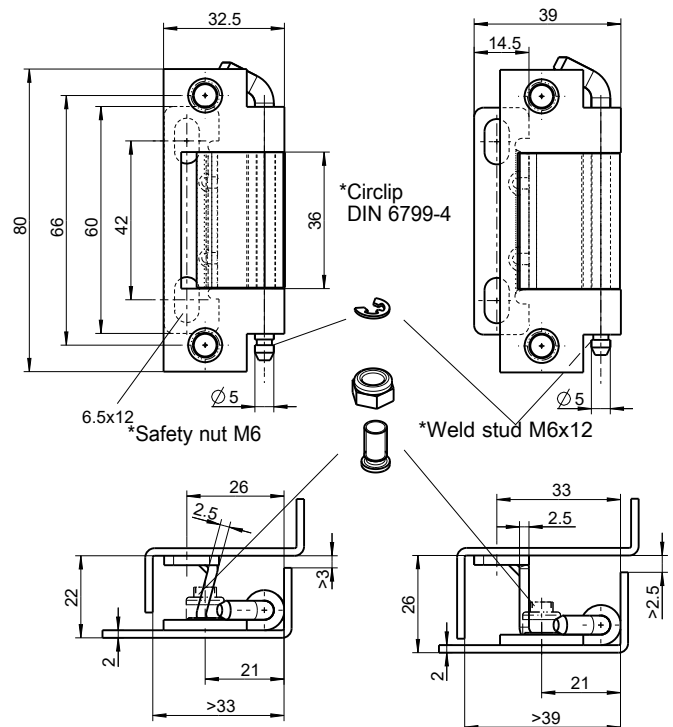
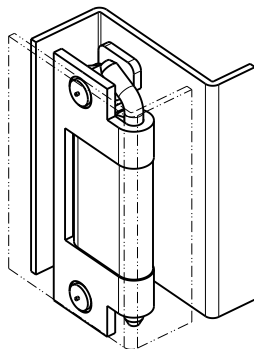
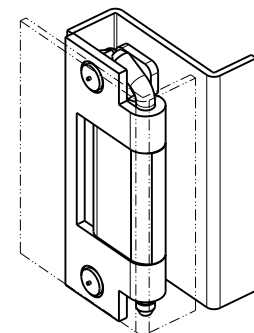
m.s. t = 2.50
Stainless steel t = 2.25



120 ° Hinge m.s. zinc-plated or stainless steel, roller m.s. raw or AISI 304

m.s. (Dim. 22)	1032-U1	m.s. (Dim. 26)	1031-U1
AISI (Dim. 22)	1032-U2	AISI (Dim. 26)	1031-U2

120° Hinge for weld stud fixing for 22 or 26 mm door return

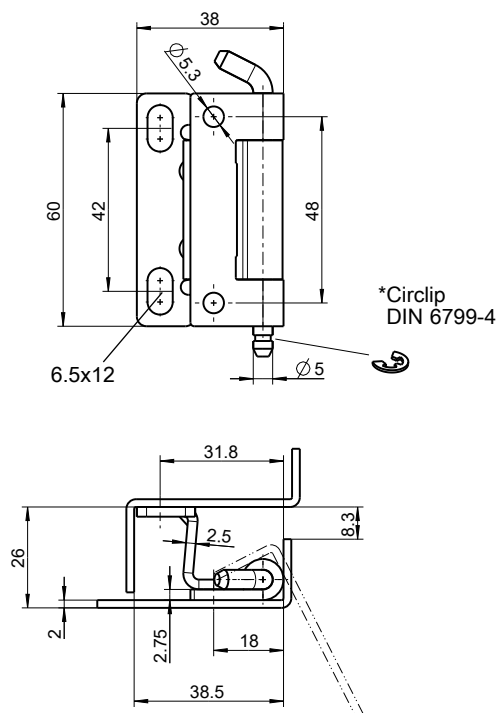
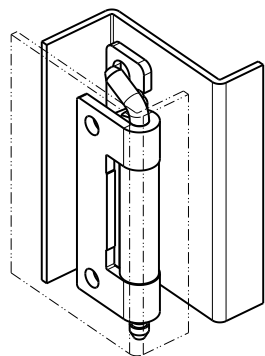


Hinge m.s. zinc-plated

(Dim. 22)	1032-U5	(Dim. 26)	1031-U10
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120° Hinge, 170° Hinge with captive pin PROGRAM 1031

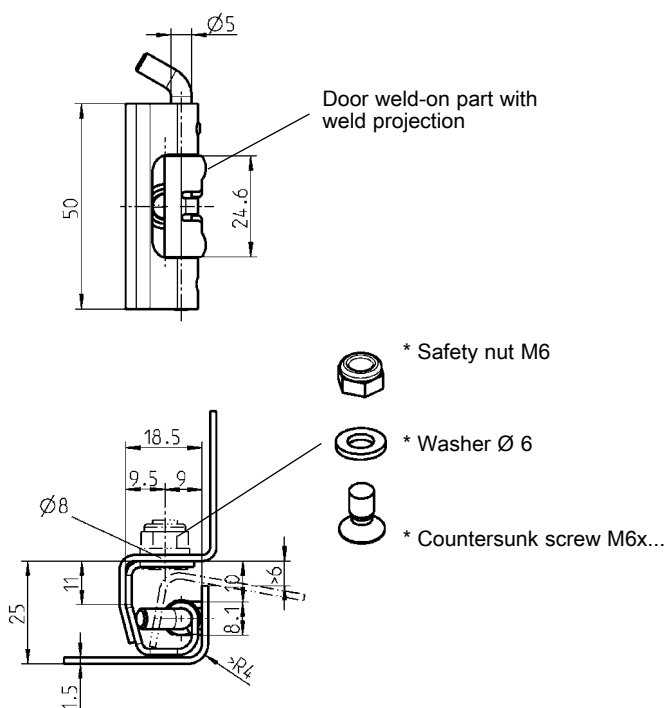
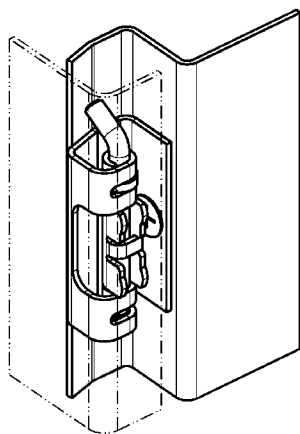
120° Hinge for 26 mm door return



120° Hinge AISI 304

1031-U17-PC

170° Hinge for 25 mm door return



170° Hinge m.s. zinc-plated; door weld-on part m.s. raw; pin clamping ring POM red

1031-U16

EMKA

Info

Beschlagteile



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

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*not included in the scope of delivery

4A-133 02/21



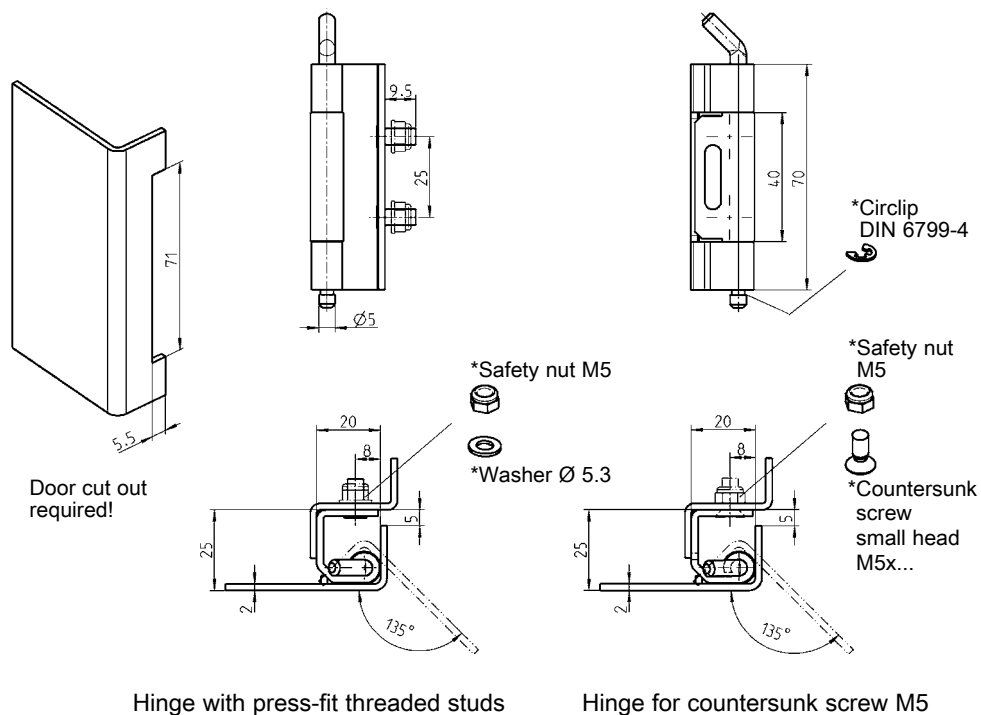
*not included in the scope of delivery

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

Further parts see page
– Fixing material 8E-100

120° and 135° Hinge PROGRAM 1069, 1031

135° Hinge for 25x20 mm door return



135° Hinge

Frame part m.s. zinc-plated; roll m.s. raw; pin m.s. zinc-plated; threaded studs m.s. zinc-plated

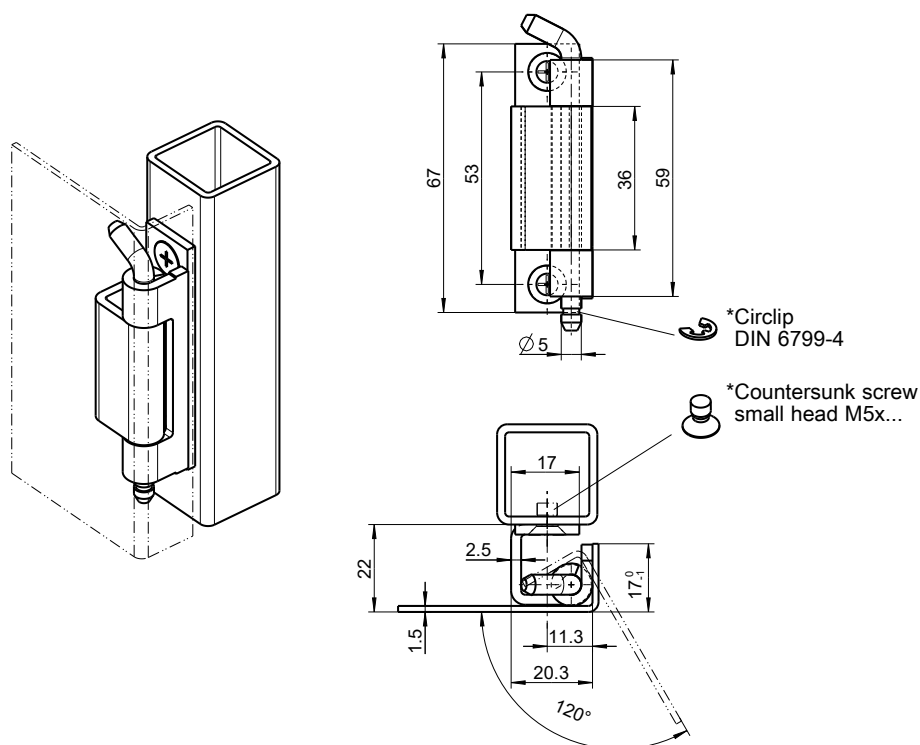
with press-fit threaded studs M5x12

1069-U7

for countersunk small head M5

1069-U8

120° Hinge for 22 mm door return



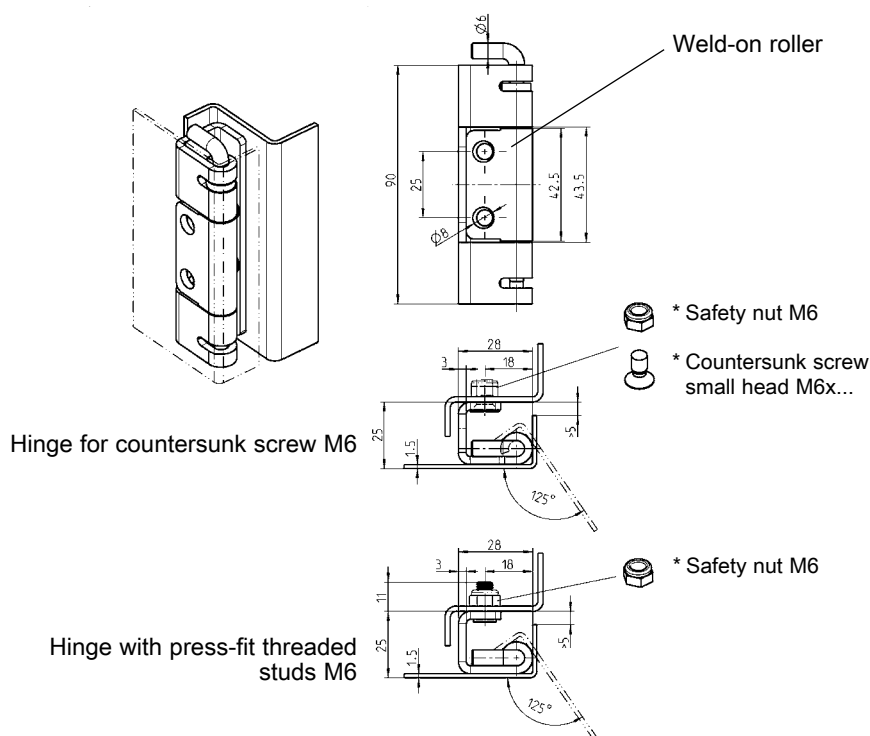
120° Hinge

Frame part m.s. zinc-plated; roll m.s. raw; pin m.s. zinc-plated

1031-U7

125° Hinge with captive pin PROGRAM 1031

125° Hinge for single cabinets for 25 mm door return



Frame part, pin and threaded studs m.s. zinc-plated; door part m.s. raw;
pin clamping ring POM red

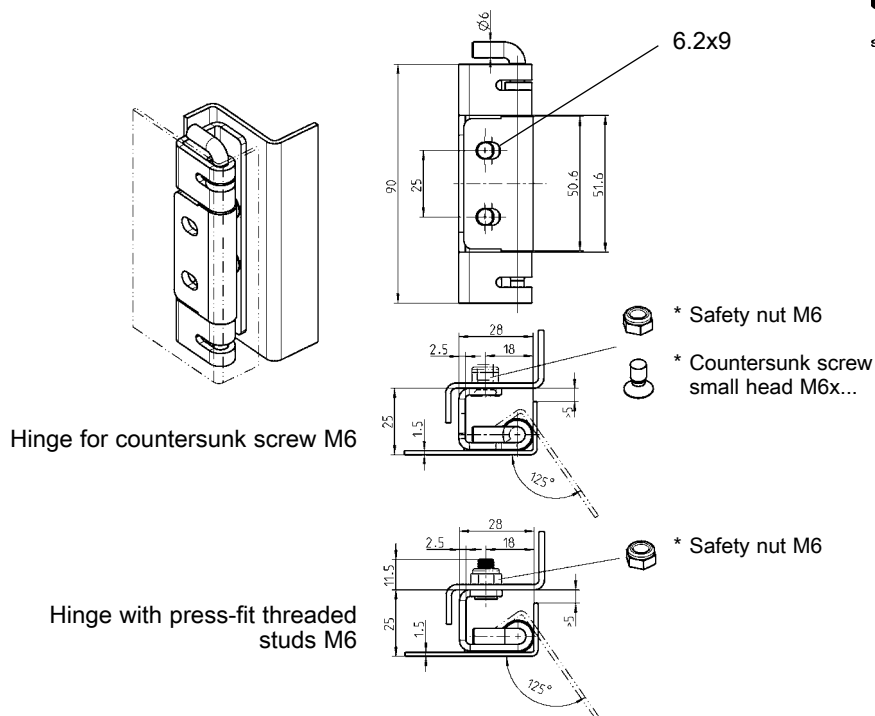
for countersunk small head M6

1031-U12

with press-fit threaded studs M6x15

1031-U19

125° Hinge for single cabinets for 25 mm door return



125° Hinge AISI 304 or AISI 316Ti; threaded studs stainless steel; pin clamping ring POM red

AISI 304

for countersunk small head M6

1031-U13

AISI 316Ti

for countersunk small head M6

1031-U22

AISI 304

with press-fit threaded studs M6x15

1031-U20



* not included in the scope of delivery

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



AISI
INOX

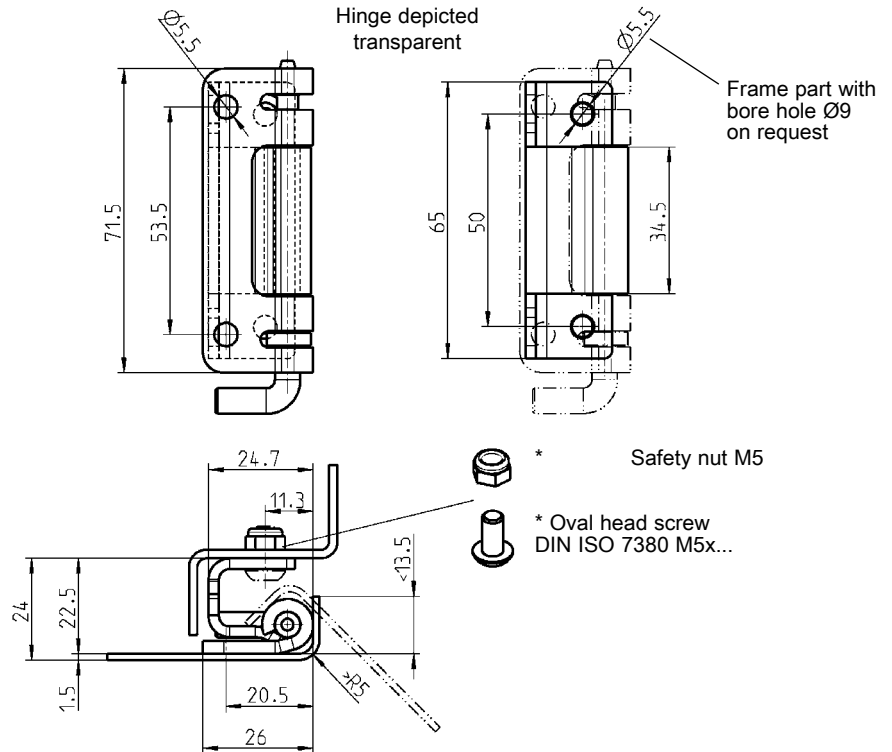


* not included in the scope of delivery

® 135° Hinge with captive pin, 120° Hinge PROGRAM 1031



135° Hinge for single cabinets for 24 mm door return

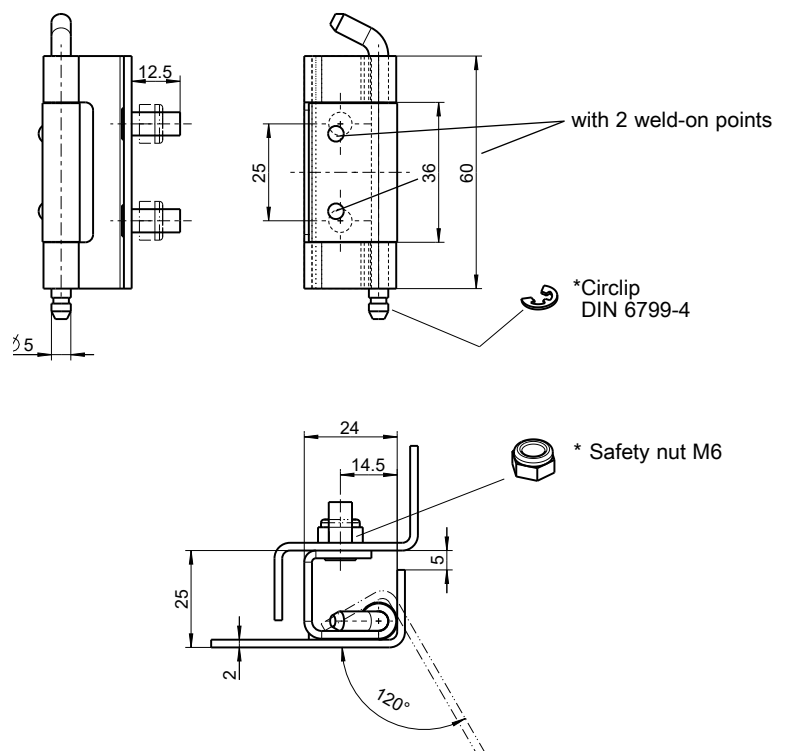


135° Hinge AISI 304; pin AISI 303; shaft clamping ring POM red

Fixing points according to common standards

1031-U15

120° Hinge for single cabinets for 25 mm door return



120° Hinge

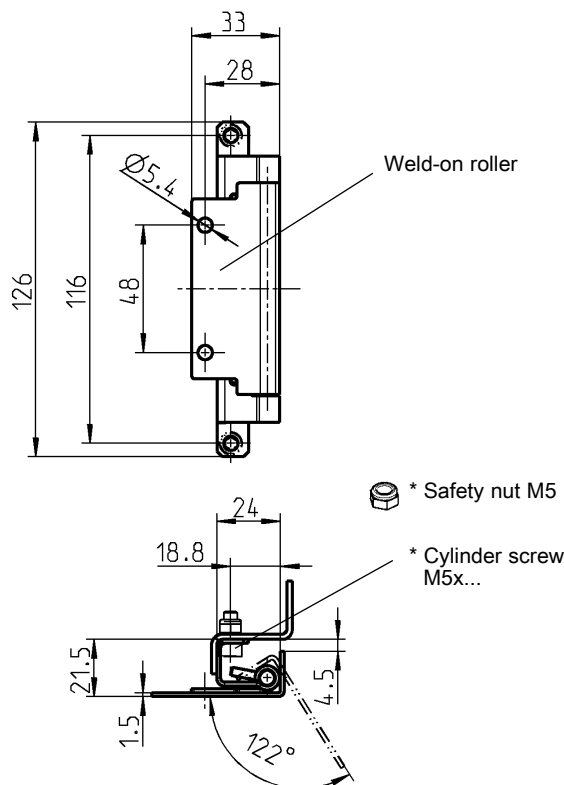
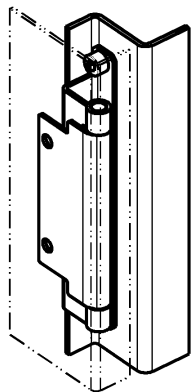
Frame part m.s. zinc-plated; roll m.s. raw; pin m.s. zinc-plated

1031-U21

115° and 122° Hinge with captive pin

PROGRAM 1031

122° Hinge for single cabinets for 22 mm door return



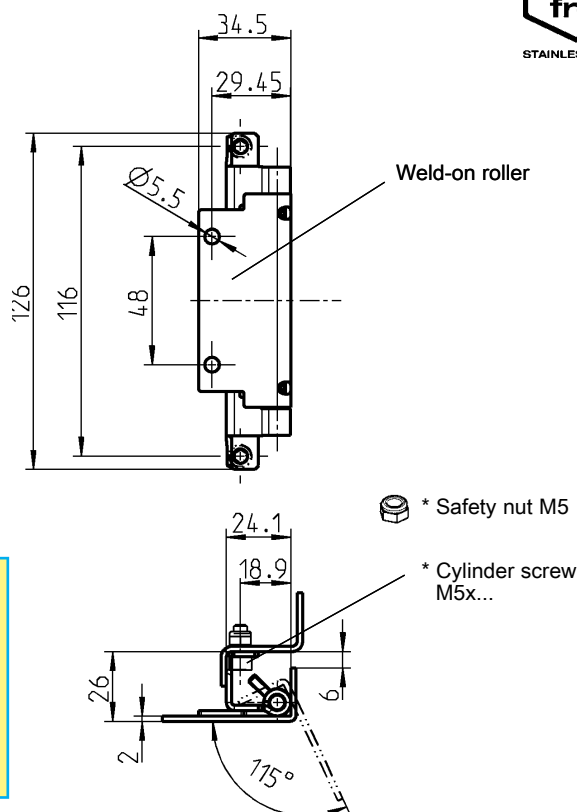
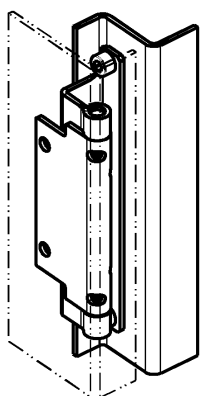
Product benefits

- Can be hinged and unhinged without tools

122° Hinge m.s. zinc-plated, with spring

1031-U18

115° Hinge for single cabinets for 26 mm door return



Product benefits

- Can be hinged and unhinged without tools

115° Hinge AISI 304

1031-U14



* not included in the scope of delivery

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1 Quarter turns
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180° Hinge PROGRAM 1110

180° Hinge for inline cabinets with double doors for 20 mm door return



Version A



Version B



Version C

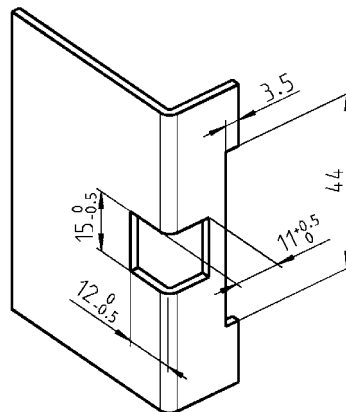


Version D

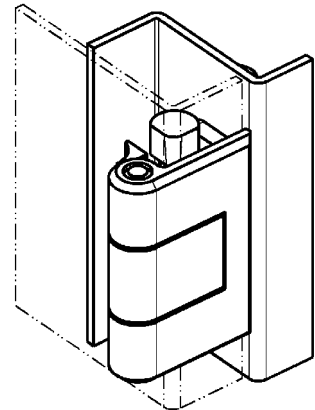
*not included in the scope of delivery

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

Further parts see page 8E-100
– Fixing material

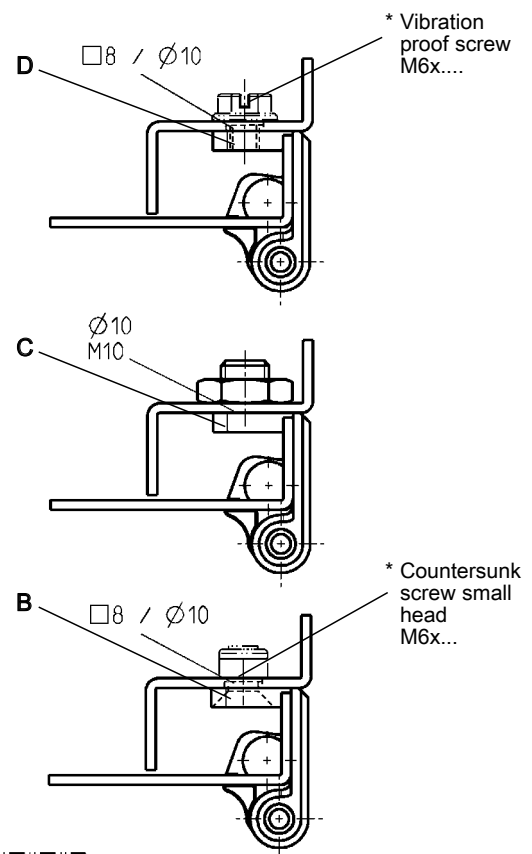
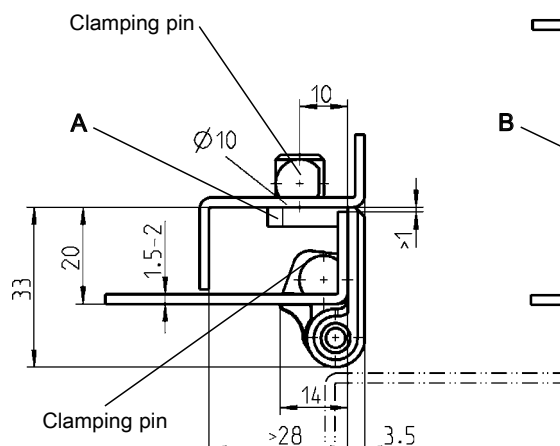
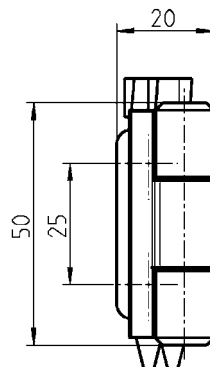


Cut out



Assembly:

Hinge is fixed by driving in the clamping pin.

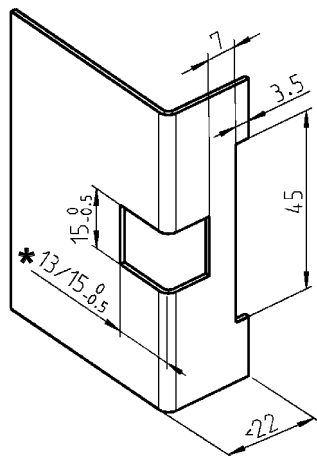


Hinge zinc die surface of choice; fixing material polyamide GF black; pin stainless steel; washer and nut m.s. zinc-plated

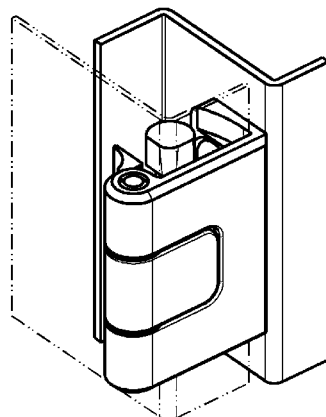
	black powder-coated	chrome-plated
Version A	1110-U128	on request
Version B	1110-U130	1110-U130-IA
Version C	1110-U129	on request
Version D	1110-U127	on request

180° Hinge PROGRAM 1110

180° Hinge for inline cabinets with double doors for 25 mm door return

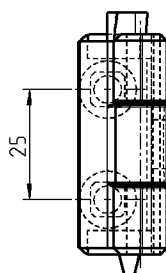
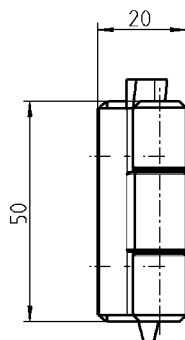


Cut out

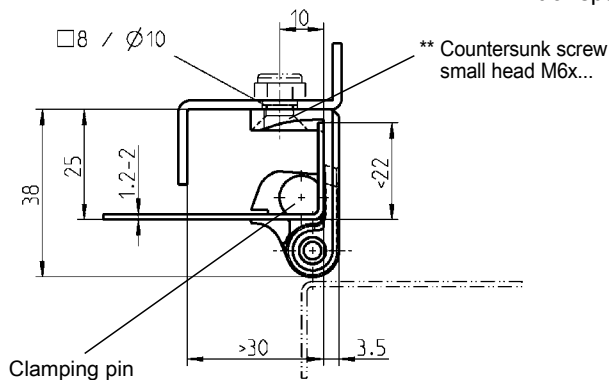


Assembly:
Hinge is fixed by driving in the clamping pin.

- * Door thickness 1.2-1.5=13 mm
- Door thickness 1.5-2.0=15 mm



Hinge depicted transparent



Clamping pin

Hinge zinc die black powder-coated; fixing pin polyamide GF black; pin stainless steel; washer m.s. zinc-plated

1110-U140



** not included in the scope of delivery

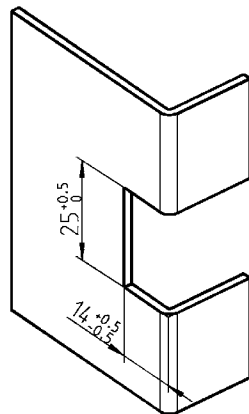
Small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

180° Hinge PROGRAM 1110

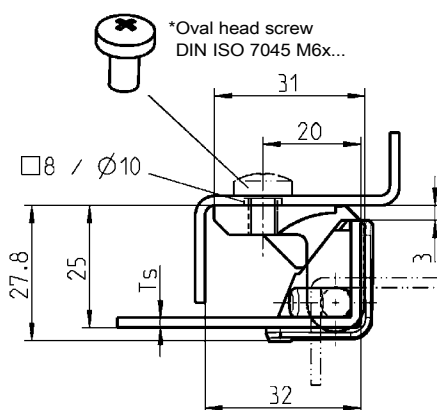
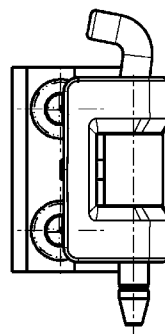
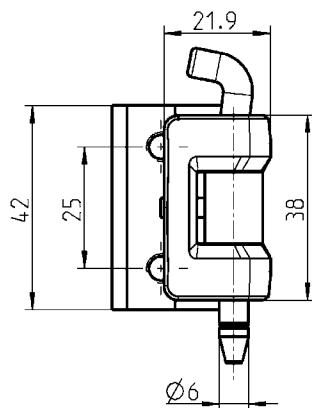
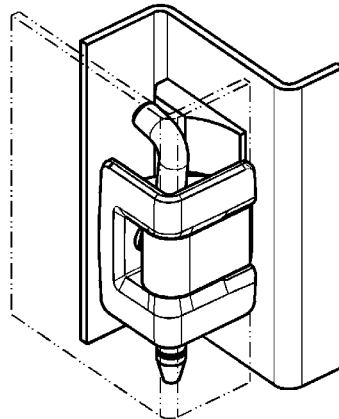
180° Hinge for single cabinets for 25 mm door return



**AISI
INOX**



Cut out



*Oval head screw
DIN ISO 7045 M6x...



*Safety nut M6



*Countersunk screw
small head M6x...



*not included in the scope of
delivery

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

Further parts see page
– 2D Nut

8E-120

180° Hinge AISI 316; pin AISI 303

Ts 0.8 – 1.0

Ts 1.5 – 2.0

Locking slug M6

1110-U134

1110-U135

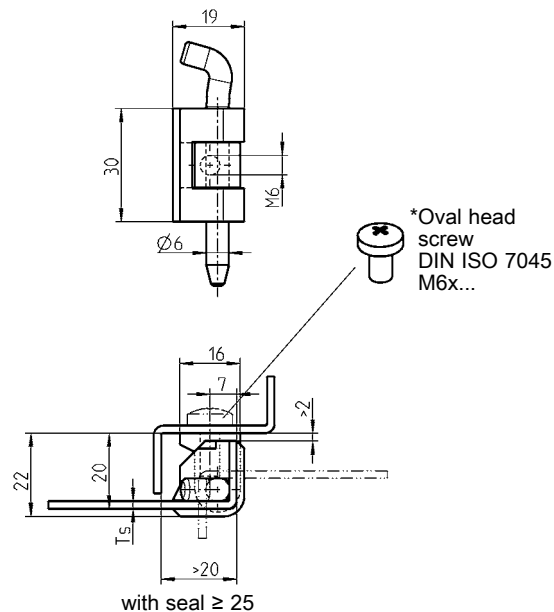
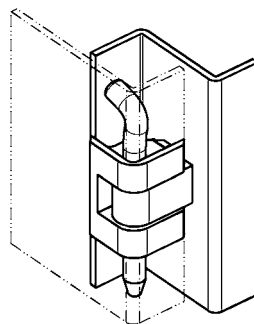
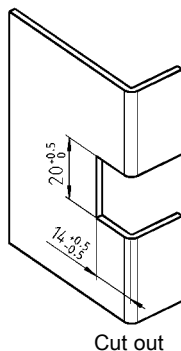
Countersunk hole M6 (2D-nut possible)

1110-U136

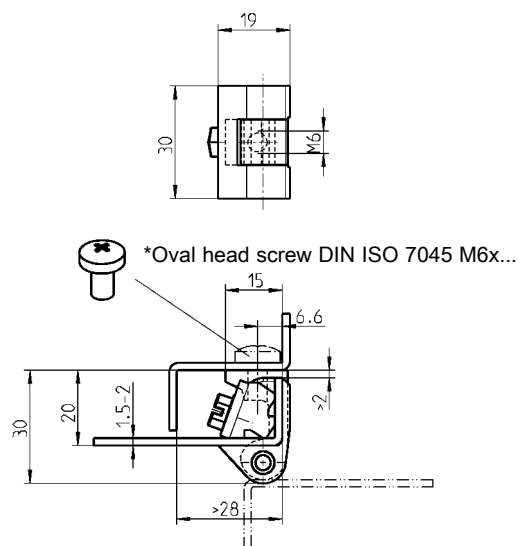
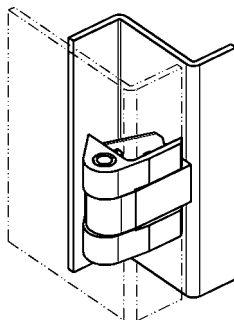
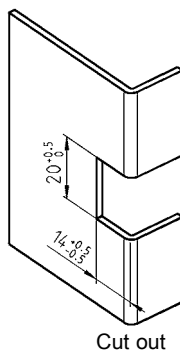
1110-U137


**AISI
INOX**


180° Hinge PROGRAM 1110


180° Hinge for single cabinets for 20 mm door return

180° Hinge zinc die and pin m.s. zinc-plated or AISI 316 and pin 303

	Ts 0.8 – 1.0	Ts 1.5 – 2.0
Zinc die chrome-plated	–	1110-U2
Zinc die black powder-coated	–	1110-U3
AISI 316	1110-U51	1110-U50


180° Hinge for in-line cabinets with single doors for 20 mm door return

**180° Hinge zinc die or AISI 316; pin m.s. zinc-plated or AISI 304;
Fixing material m.s. zinc-plated or AISI 303**

Zinc die chrome-plated	1110-U4-N
Zinc die black powder-coated	1110-U5-N
AISI 316	1110-U5-NPH

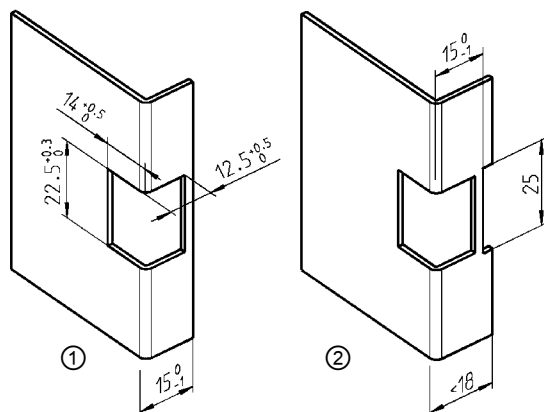
*not included in the scope of delivery

180° Hinge PROGRAM 1110

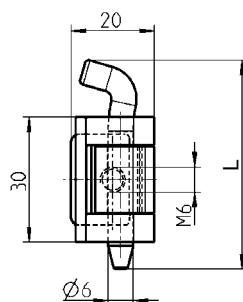
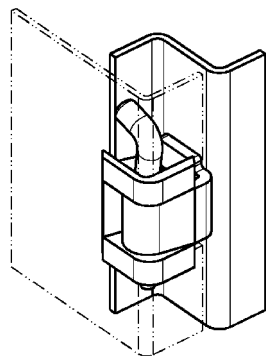
180° Hinge for single cabinets for 20 mm door return



**AISI
INOX**



Cut out
of choice



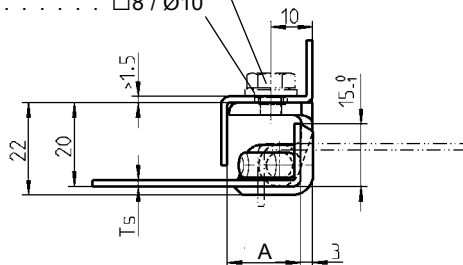
Pin length ①; L = 50
Pin length ②; L = 66

* for zinc die / m.s. version:
locking screw 1000-277-02JB (M6x6)

* for stainless steel version:
washer DIN ISO 7089 - 6 and
hexagon head screw DIN ISO 4017 M6 x 6

for metal gauge 1.5

Zinc-die / m.s. Ø 6.2
Stainless steel: □8 / Ø10



Cut out ①; A = 17.5
Cut out ②; A = >19



Frame part with
thread M6 and
centering bolt

180° Hinge, door part zinc die black powder-coated;
frame part m.s. black powder-coated; pin ① m.s. zinc-plated

Ts 1.5 – 2.0 1110-U141

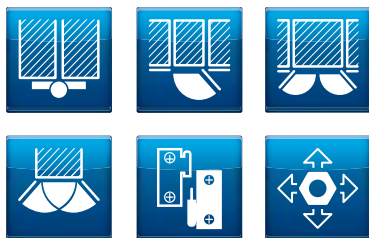
180° Hinge AISI 316; pin ② AISI 303

Ts 1.5 1110-U131

Ts 2.0 1110-U132

* not included in the scope of
delivery

Info
1 Quarter turns
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Note:
Can be lifted off by removing the lower bracket

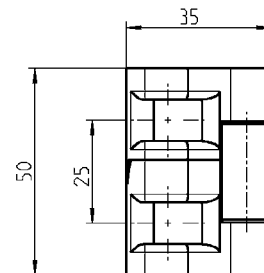
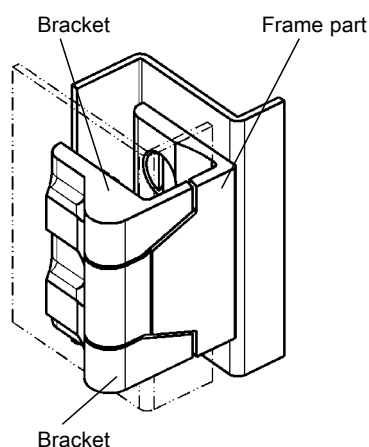
*not included in the scope of delivery

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

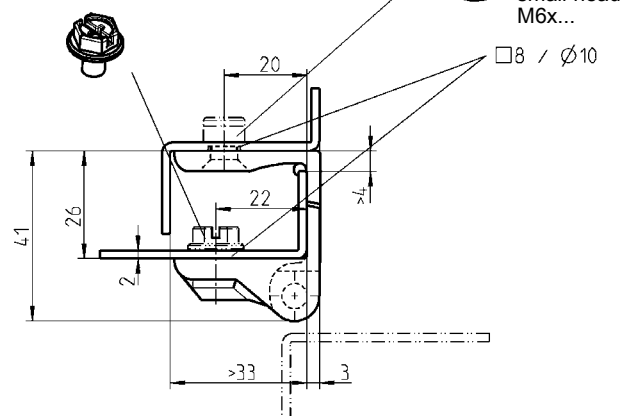
Further parts see page
– 2D Nut 8E-120
– Fixing material 8E-100

180° Hinge PROGRAM 1110

180° Hinge for in-line cabinets with single door,
135° Lift-off version for 25 mm door return



*Vibration proof screw 1000-277-03JB (M6x8)

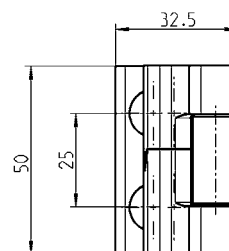
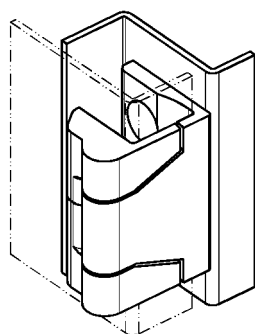


* Safety nut M6
*Countersunk screw small head M6x...

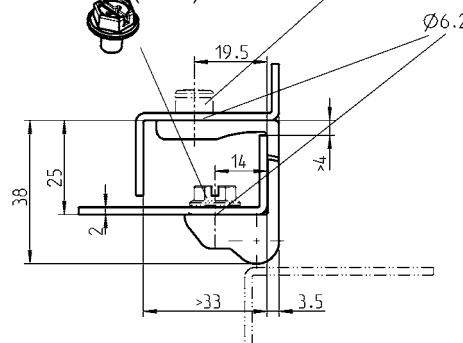
180° Hinge zinc die; pins stainless steel and washers brass

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



*Vibration proof screw 1000-277-03JB (M6x8)



*Safety nut M6
*Countersunk screw small head M6x...

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.

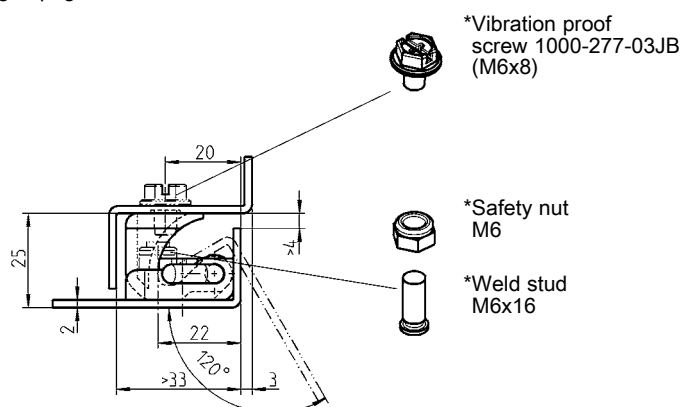
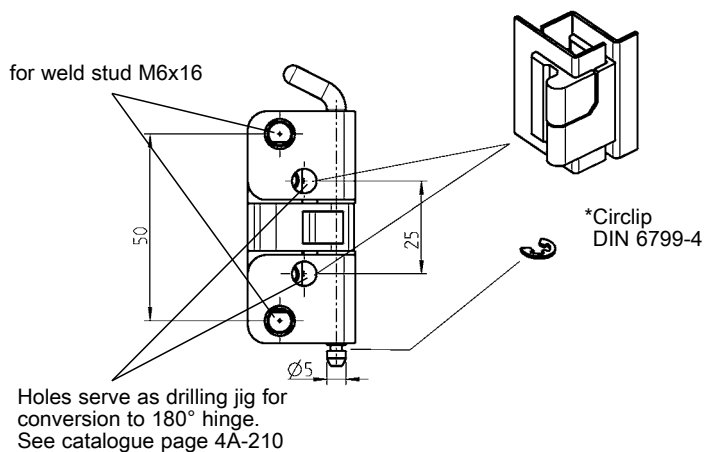
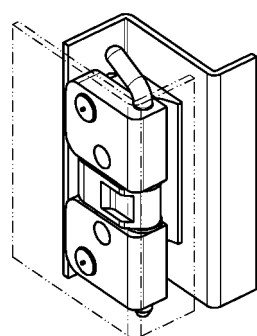
180° Hinge zinc die black powder-coated; hinge pin m.s. zinc-plated; washer brass

1110-U123

120° Hinge

PROGRAM 1110

120° Hinge for in-line cabinets with single doors for 25 mm door return



Also available in chrome-plated and other RAL colours on request.

120° Hinge zinc die black powder-coated; pin m.s. zinc-plated

1110-U86



*not included in the scope of delivery

Further parts see page
– Fixing material

8E-100

Info
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Version A+E



Version C+E



Version C+E



Version D+E



Version B+F



Version C+F

* not included in the scope of delivery

** 2D nut possible

Note:
Detachable from 70° opening angle, but not with hinge bracket made of m.s. and AISI

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

Further parts see page

– 2D Nut
– Fixing material

8E-120
8E-100

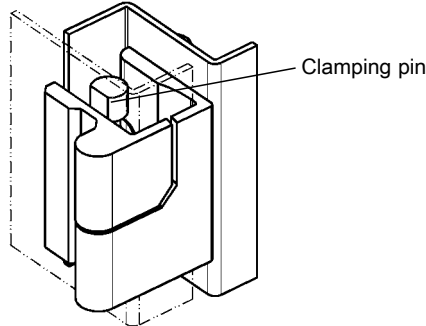
180° Hinge PROGRAM 1110



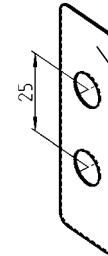
STAINLESS STEEL

180° Hinge for in-line cabinets with double doors,
lift-off from 70° opening angle, for 26 mm door return

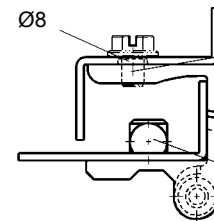
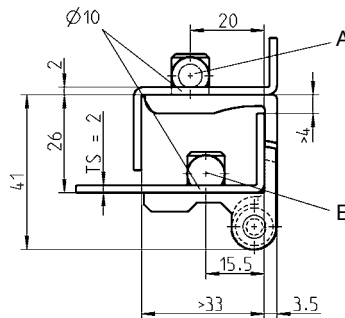
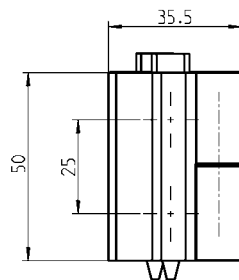
Version for
Ts = 2



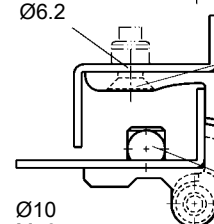
Clamping pin



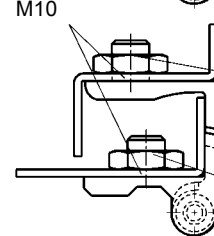
Support plate has to be ordered sep. for different door gauges (1x per clamping pin)



*D
Vibration proof screw M6x...



*C
Countersunk screw small head M6x...



180° Hinge zinc die black powder-coated;
fixing pin Polyamide GF black;
hinge pin stainless steel and washer
brass; nut m.s. zinc-plated

Version	Left	Right
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 bracket zinc die black powder-coated; fixing pin polyamide GF black; hinge pin stainless steel; nut m.s. zinc-plated

Version	Left	Right
C+E ** (2D)	1110-U118	1110-U119
C+F ** (2D)	1110-U120	1110-U121
180° Hinge AISI 316		
C+F ** (2D)	1110-U120-PH	1110-U121-PH

Support plate 304 (1x per clamping pin)

for Ts 1.0

1110-39-01

for Ts 1.5

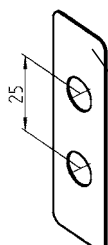
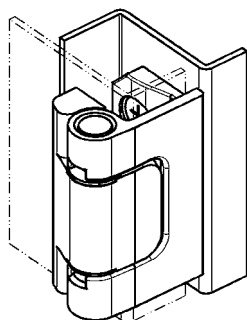
1110-39

180° Hinge

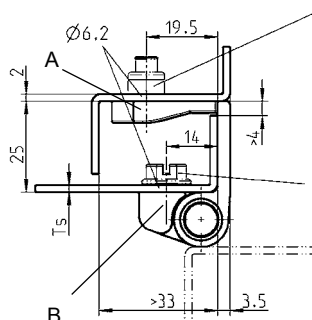
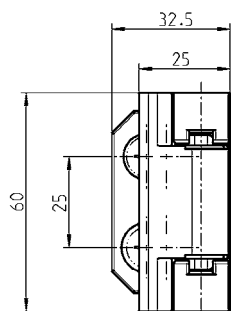
PROGRAM 1110

180° Hinge for in-line cabinets with single doors can be unhinged at 90° opening angle, for 25 mm door return

Version for
Ts = 1.5 - 1.8 and 2



Support plate has to be ordered sep. for different door gauges (1x per clamping pin)



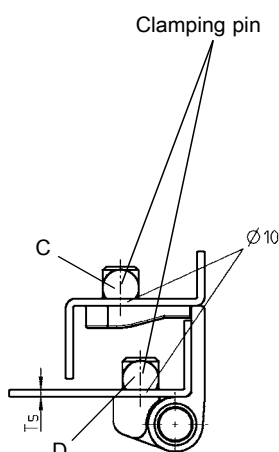
* Safety nut M6



*Countersunk screw small head M6x...



*Vibration proof screw 1000-277-02JB (M6x6)



Clamping pin

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-on (2D nut possible)	1110-U122
C+D, clamp-on	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, screw-on and clamp-on (2D nut usable)	1110-U133
Support plate 304 (1x per clamping pin)	
for Ts 1.0 (1110-U126); for Ts 0.8 (1110-U133)	1110-39-01
for Ts 1.5 (1110-U126); for Ts 1.0 - 1.3 (1110-U133)	1110-39



*not included in the scope of delivery

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

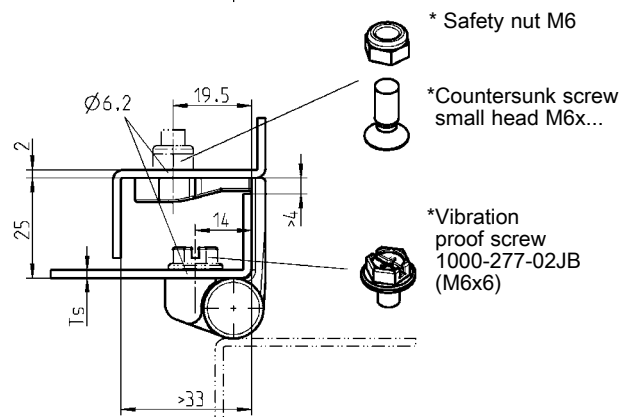
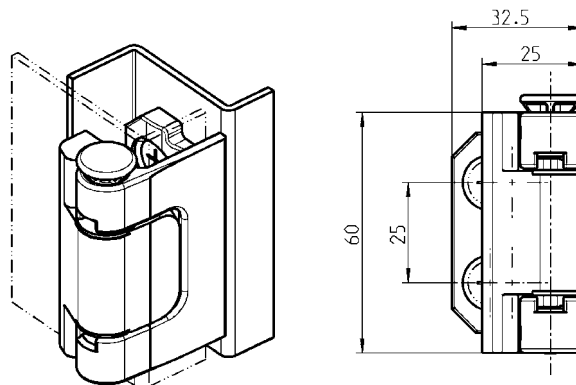
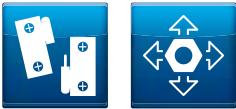
Further parts see page

– 2D Nut 8E-120
– Fixing material 8E-100

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180° Hinge with captive pin PROGRAM 1110

180° Hinge for in-line cabinets with single doors can be unhinged at 90° opening angle, for 25 mm door return



*not included in the scope of delivery

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

Further parts see page

– 2D Nut 8E-120
– Fixing material 8E-100

180° Hinge zinc die black powder-coated;
hinge pin and washer polyamide GF black; shaft clamping ring POM red

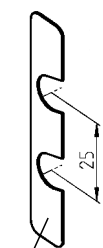
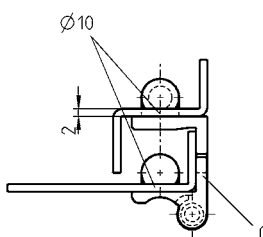
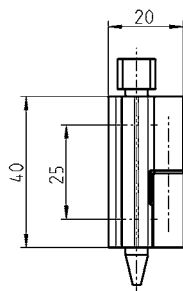
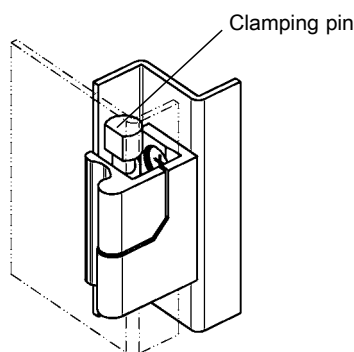
	Ts = 2.0
(2D nut possible)	1110-U142
Bracket with fixing pin, clamp-on	on request

180° Hinge

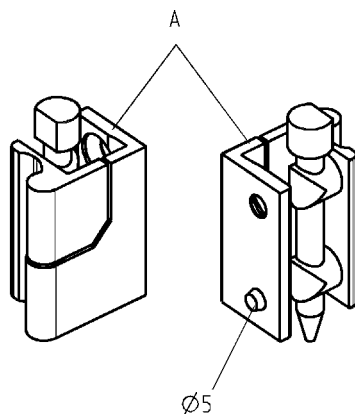
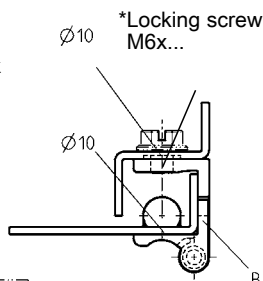
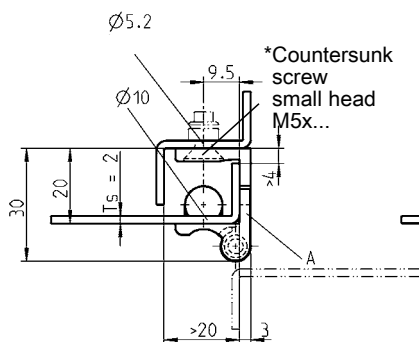
PROGRAM 1110

180° Hinge for in-line cabinets with double doors,
lift-off from 70° opening angle, for 20 mm door return

Version for
Ts = 2



Support plate has to be ordered
sep. for different door gauges
(1x per clamping pin)



Only for version A

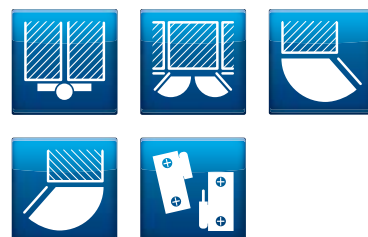
Also available in chrome-plated
and other RAL colours on request.

180° Hinge zinc die black powder-coated; fixing pin polyamide GF black;
hinge pin stainless steel and washer brass

Version A	Right	1110-U78
	Left	1110-U81
Version B	Right	1110-U79
	Left	1110-U82
Version C	Right	1110-U80
	Left	1110-U83

Support plate 304 (1x per clamping pin)

for Ts 1.0	1110-39-03
for Ts 1.5	1110-39-02



Version A



Version B



Version C

*not included in the scope of
delivery

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

Further parts see page
– Fixing material

8E-100

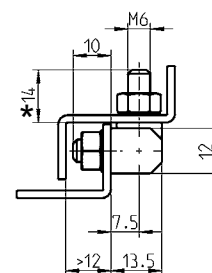
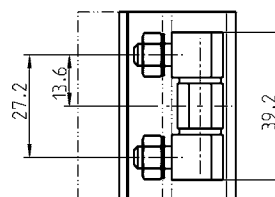
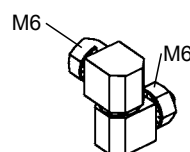
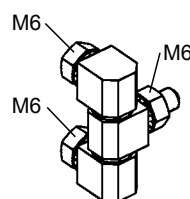
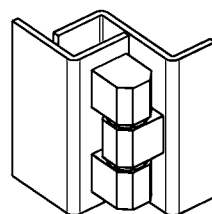


**AISI
INOX**



180° Screw-on hinge PROGRAM 1055, 1039

180° Screw-on hinge

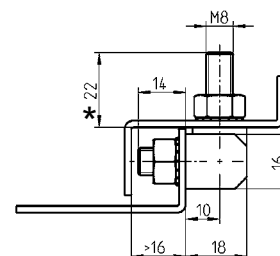
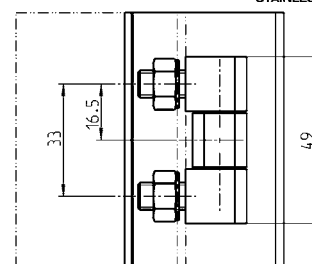
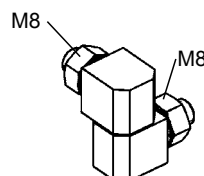
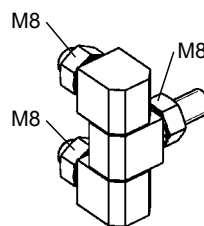
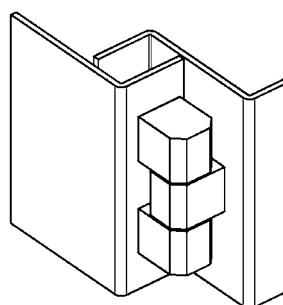


* = 10 mm with two-piece hinge

180° Screw-on hinge m.s. zinc-plated; pin and washers brass nickel-plated or completely stainless steel

– three-piece	m.s.	1055-U2
	AISI 303	1055-U6
	AISI 316	1055-U8
– two-piece	m.s.	1055-U5

180° Screw-on hinge



* = 14 mm with two-piece hinge

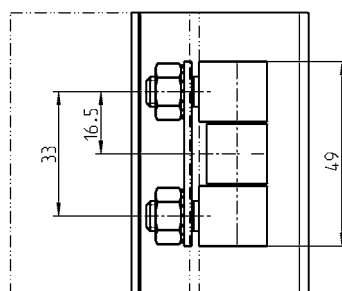
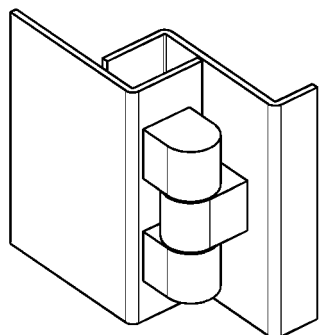
180° Screw-on hinge m.s. zinc-plated; pin and washers brass nickel-plated or completely stainless steel

– three-piece	m.s.	1039-U12
	AISI 303	1039-U19
	AISI 316	1039-U26
– two-piece	m.s.	1039-U17

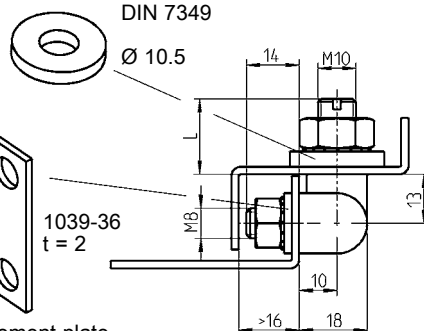
Hinge

PROGRAM 1039, 1035

180° Screw-on hinge,
e.g. for pressure-tight doors



*Washer
DIN 7349



Reinforcement plate

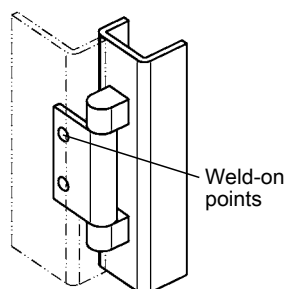
180° Screw-on hinge tempered C35, zinc-plated; pin and washers brass nickel-plated

Stud length	L = 20 mm	1039-U6
	55 mm	1039-U7
	65 mm	1039-U8

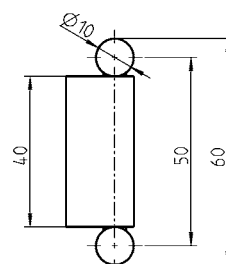
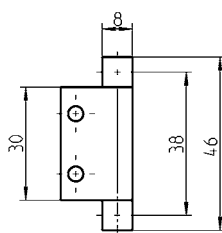
Reinforcement plate m.s. zinc-plated

1039-36

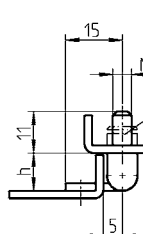
180° Hinge



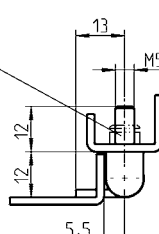
Weld-on points



* Safety nut M5



1035-U1
1035-U3



1035-U2

180° Hinge m.s. zinc-plated;
hinge leaf m.s. raw

h = 10	1035-U1
12	1035-U3

180° Hinge m.s. zinc-plated;
hinge leaf m.s. raw

1035-U2

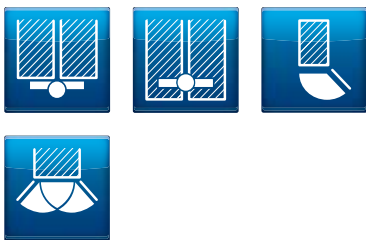


*not included in the scope of
delivery

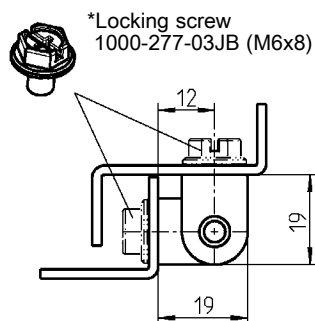
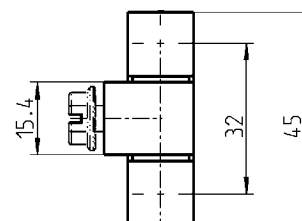
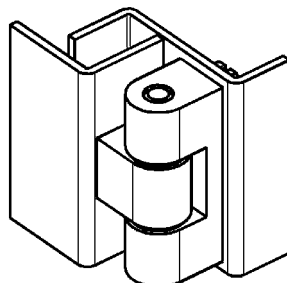
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Hinge

PROGRAM 1054, 1105



180° Screw-on hinge



180° Screw-on hinge zinc die;
pin stainless steel and bushes polyamide

chrome-plated

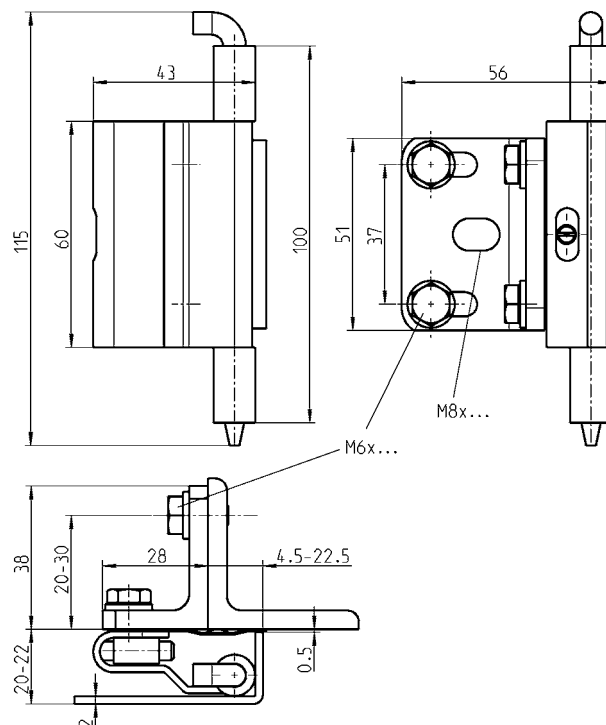
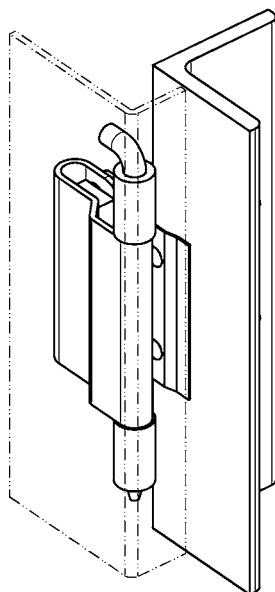
1054-U1

black powder-coated

1054-U30



130° Spring-loaded hinge

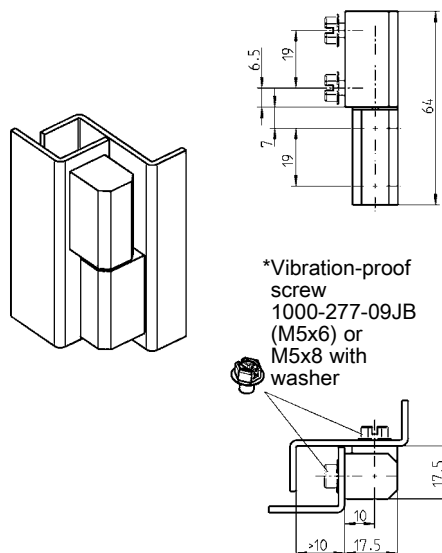


*not included in the scope of
delivery

130° Spring loaded hinge m.s. zinc-plated;
door part m.s. raw, spring stainless steel blank

1105-U1

Screw-on hinge PROGRAM 1056, 1079

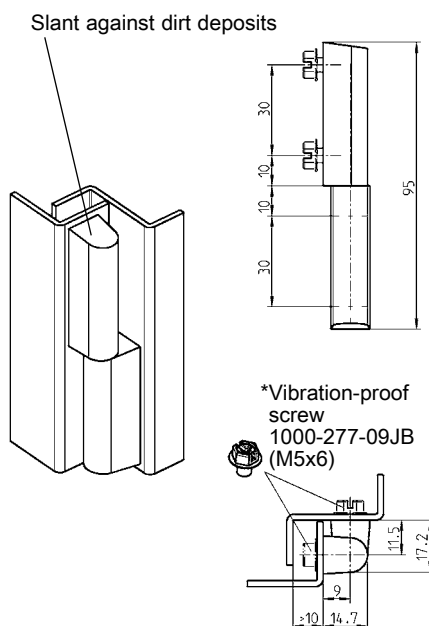


**180° Screw-on hinge zinc die
black powder-coated or AISI 316**

Zinc die 1056-U34

AISI 316 1056-U34-PH

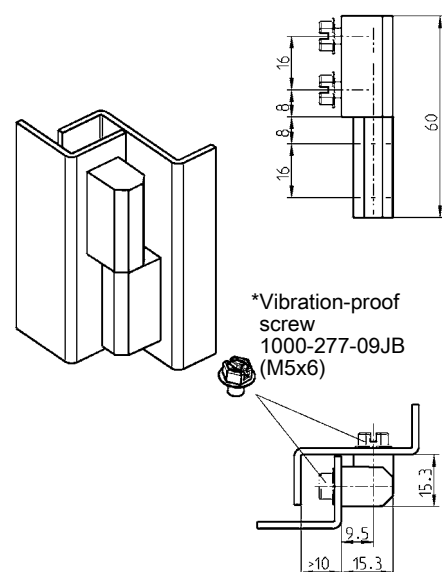
180° Plastic screw-on hinge



**Plastic screw-on hinge polyamide GF black;
pin stainless steel and insert part m.s. raw**

1079-U2

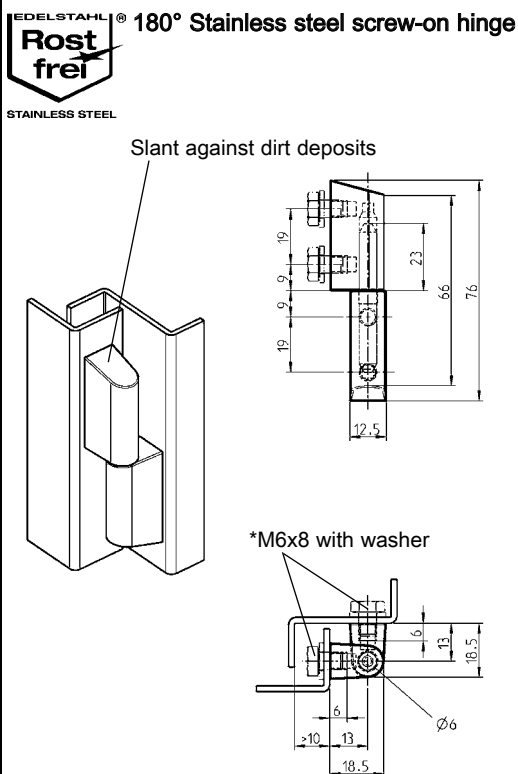
180° Plastic screw-on hinge



**Plastic screw-on hinge polyamide GF black;
pin stainless steel and insert part m.s. raw**

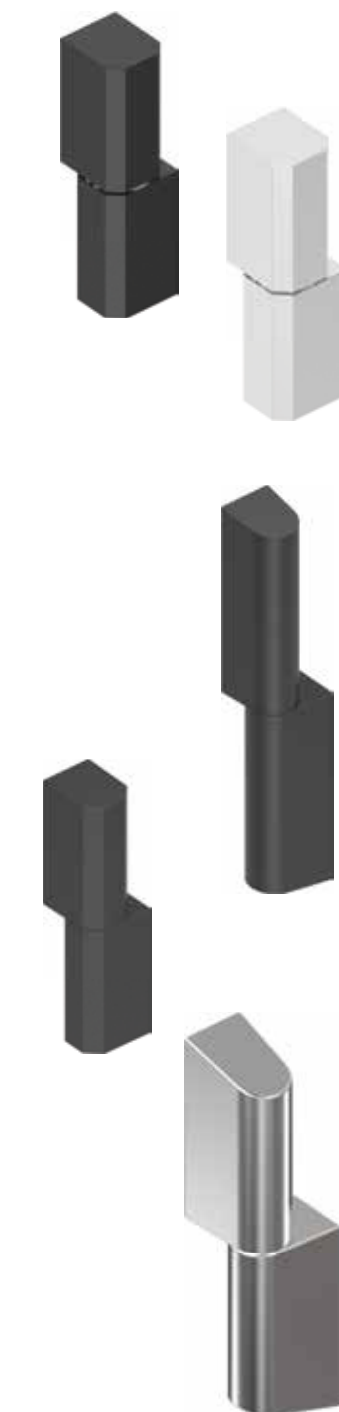
1079-U4

EDELSTAHL 180° Stainless steel screw-on hinge

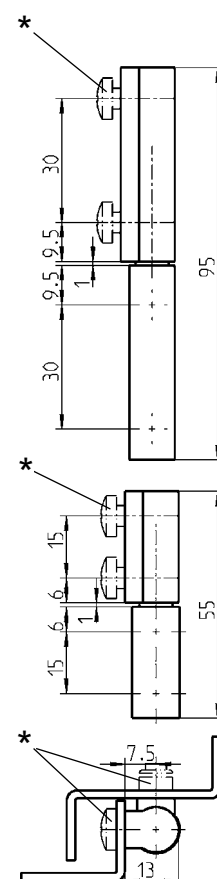
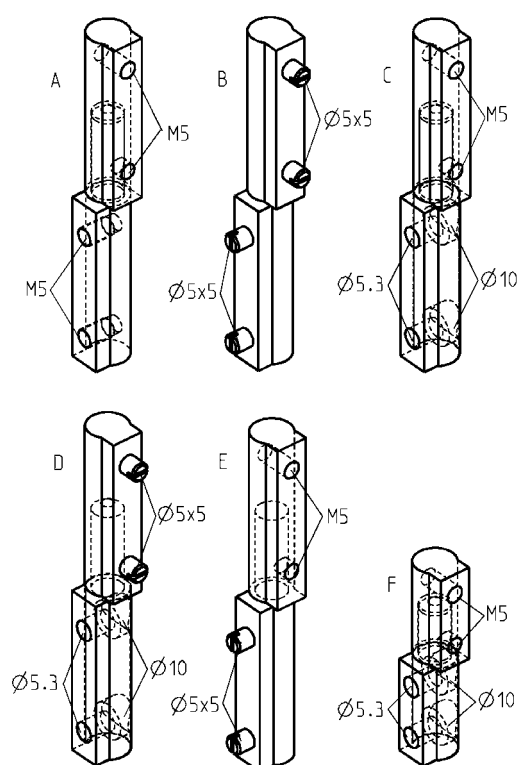
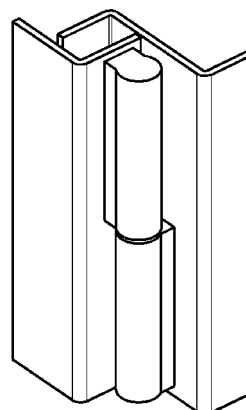
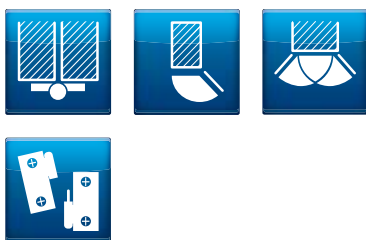


Stainless steel screw-on hinge AISI 316

1079-U5-PH



*not included in the scope of delivery



*not included in the scope of delivery

Profile hinge m.s. zinc-plated; with weld-on stud m.s. raw; covering sleeve stainless steel

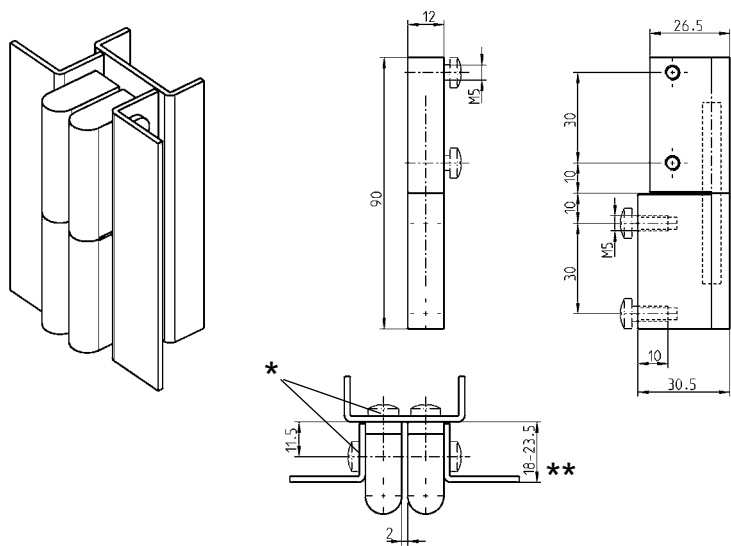
A	1036-U2
B	1036-U3
C **	1036-U4
D **	1036-U5
E	1036-U6
F **	1036-U7

** = Covering sleeve

Hinge

PROGRAM 1033, 1036

Screw-on hinge

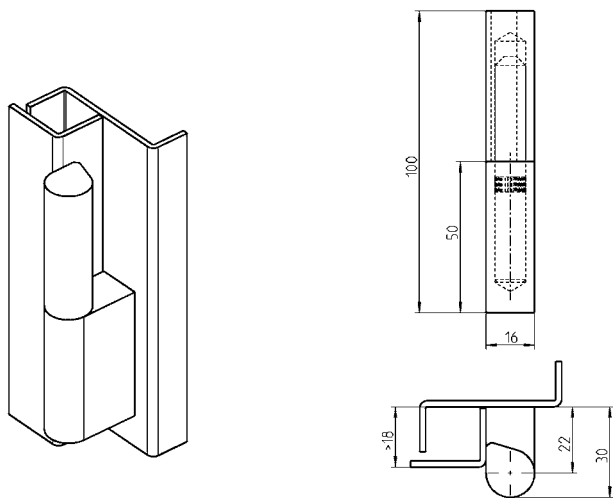


**In case of 18 mm, an opening angle of 180° for in-line cabinets with double doors is possible.

Screw-on hinge zinc die; pin stainless steel

chrome-plated	1036-U9
black powder-coated	1036-U10

180° Hinge for in-line cabinets with single doors



180° Weld-on hinge m.s. raw

1033-U44



*not included in the scope of delivery

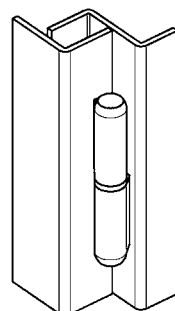


Hinge PROGRAM 1033

Weld-on hinge

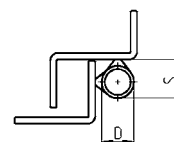
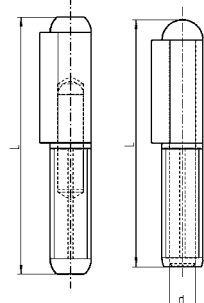
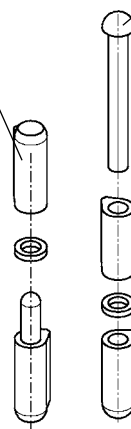


Note:
L-dimensions are nominal;
weld-on hinges
may be smaller



Version:
with captive pin

Version:
with loose pin



Version with captive pin; material of choice

L	D	d	S	m.s. raw Pin m.s.	m.s. raw Pin brass	AISI 304 Pin AISI 304
40	8	5	9.5	1033-U1*	1033-U14*	-
50	8	5	9.5	1033-U2*	1033-U15*	-
60	10	6	12.0	1033-U3*	1033-U16*	1033-U70
70	10	7	12.0	1033-U4*	1033-U17*	-
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	-
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	-

* = in stock

Version with loose pin; material of choice

L	D	d	S	m.s. raw Pin m.s.	m.s. raw Pin brass	AISI 304 Pin AISI 304
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	10	7	12.0	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
with grease nipple from L-dimen-
sion 80 onwards on request.

Weld-on hinges made
of aluminium on request!

Hinge

PROGRAM 1054



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

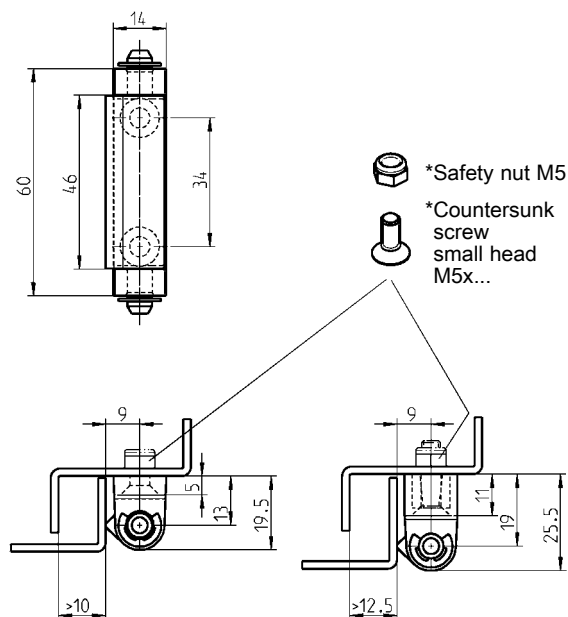
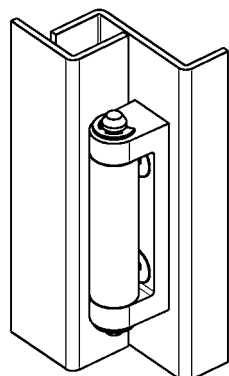
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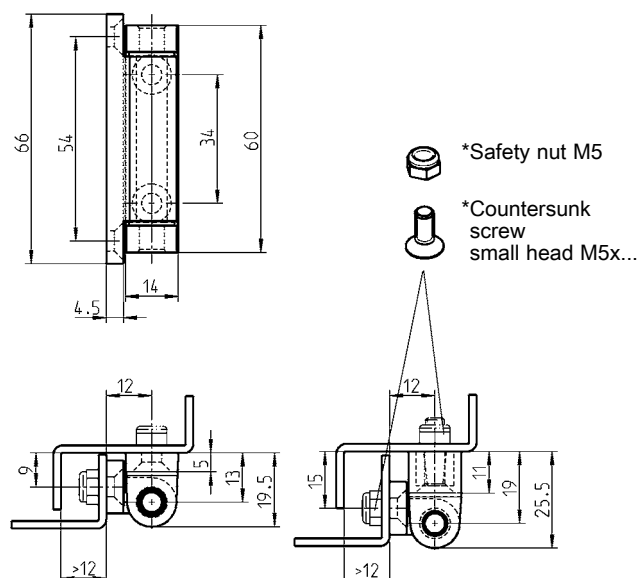
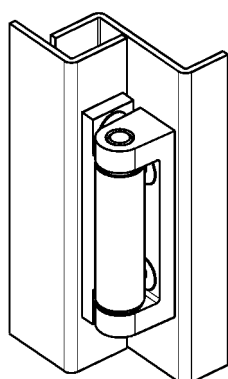
Index



Hinge zinc die; middle part m.s. raw; pin and washer m.s. zinc-plated

	Dim. 19.5	Dim. 25.5
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

	Dim. 19.5	Dim. 25.5
chrome-plated	1054-U3	1054-U16
black powder-coated	1054-U9	1054-U17
raw	1054-U23 **	1054-U24 **

** = Minimum order quantity: 1000 pieces

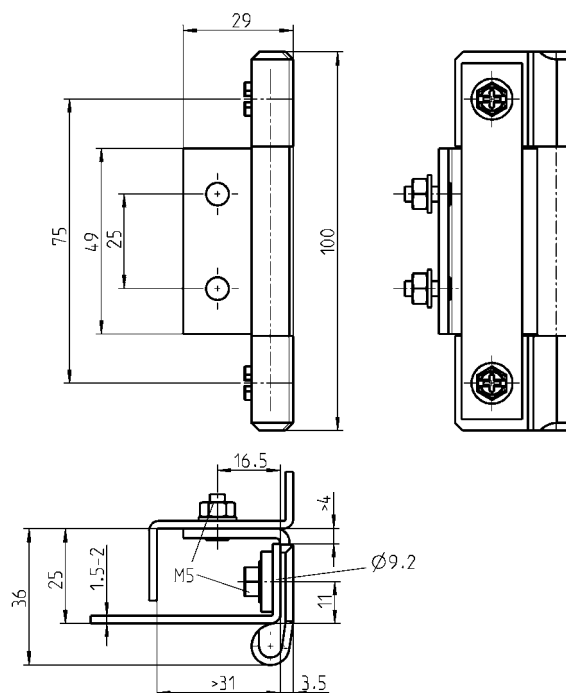
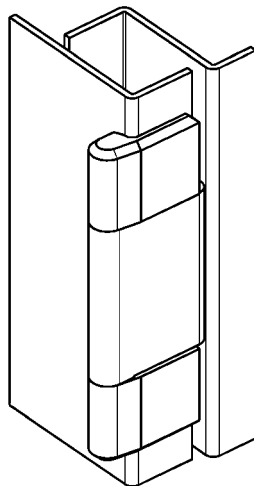
*not included in the scope of delivery

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

180° Hinge PROGRAM 1110



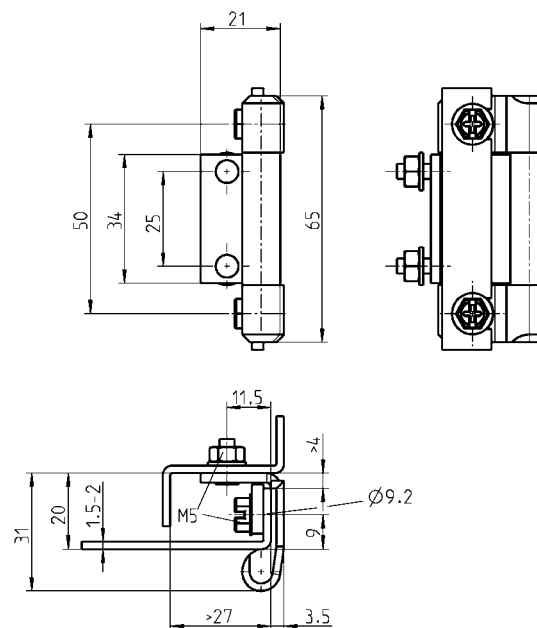
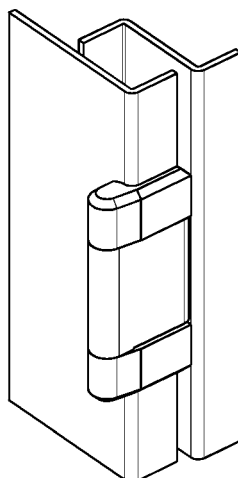
180° Hinge for in-line cabinets with double doors, for 25 mm door return



180° Hinge part m.s. black; door part zinc die black powder-coated;
fixing material m.s. zinc-plated

1110-U26

180° Hinge for in-line cabinets with double doors, for 20 mm door return

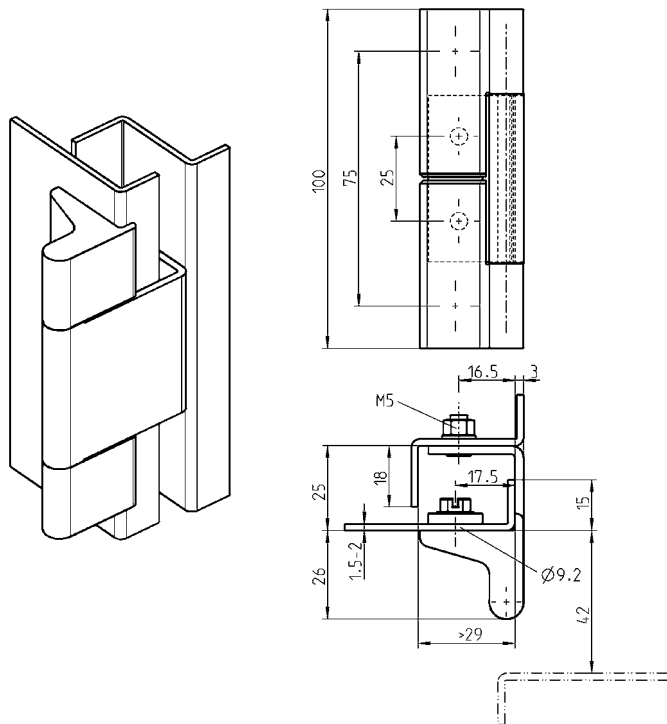


180° Hinge part m.s. black; door part zinc die black powder-coated;
fixing material m.s. zinc-plated

1110-U114

180° Hinge
PROGRAM 1110

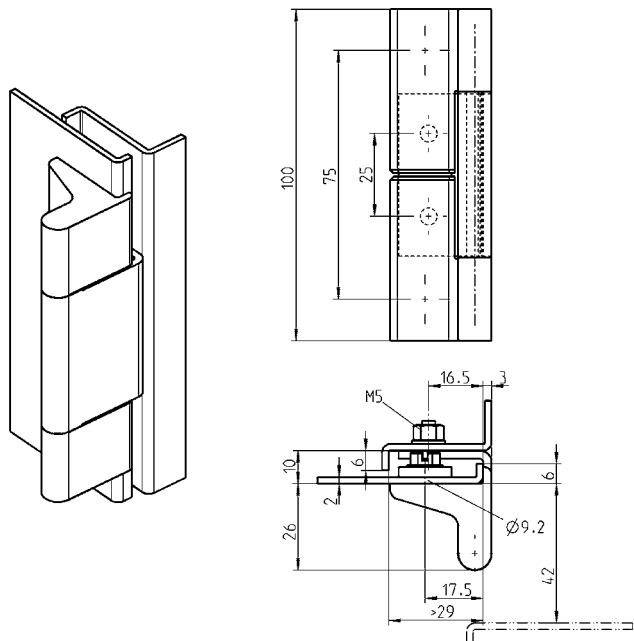
180° Hinge for in-line cabinets with double doors, for 25 mm door return



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 double doors, for 10 mm door return



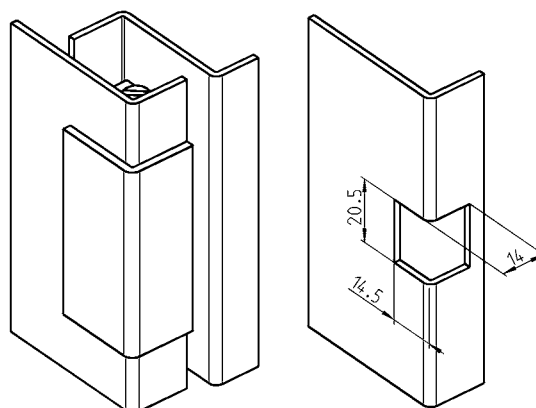
180° Hinge part m.s. black; door part zinc die black powder-coated;
fixing material m.s. zinc-plated

1110-U113

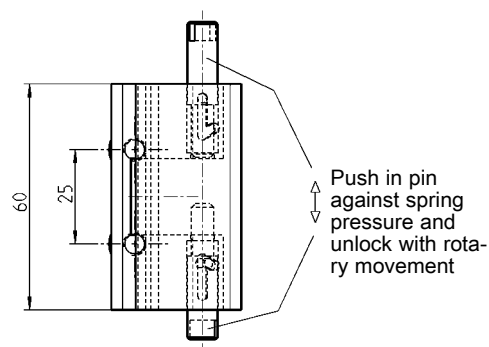


120° Hinge with quick fastening system PROGRAM 1110

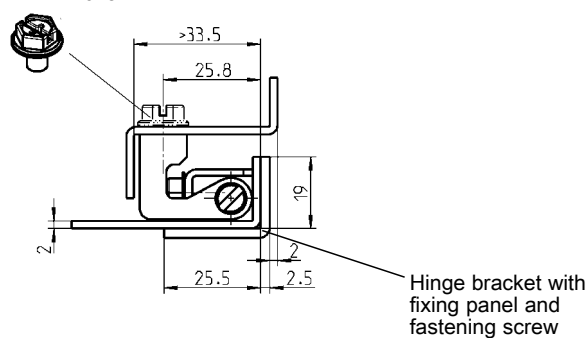
120° Hinge for 25 mm door return
Easy assembly / disassembly of the door



Cut out



*Vibration-proof screw
1000-277-03JB
M6x8



Fixing panel with tips suitable for earthing.

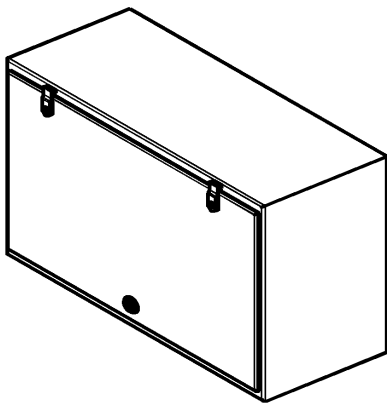
*not included in the scope of delivery

120° Hinge zinc die black powder-coated;
fixing material m.s. zinc-plated

1110-U111

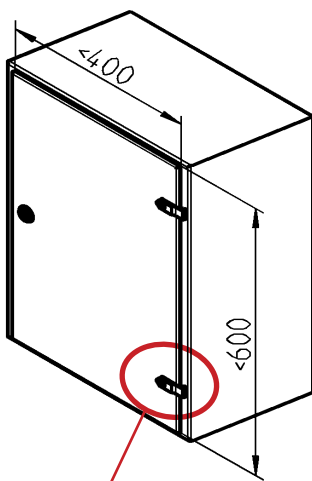
135° Integral hinge for light doors and flaps PROGRAM 1126

Installation situation flap



Detail A
Door closed

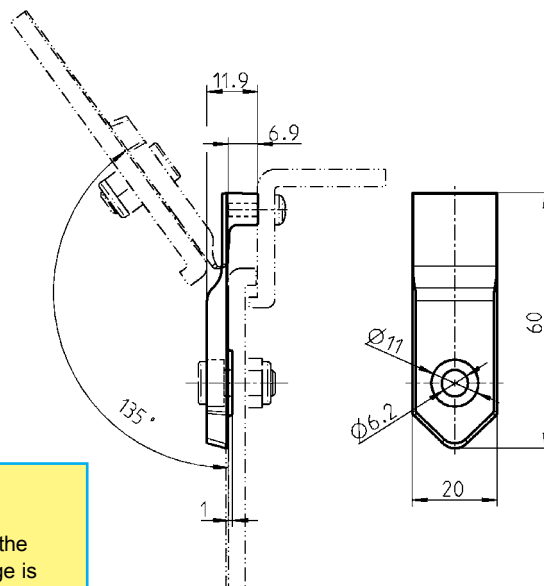
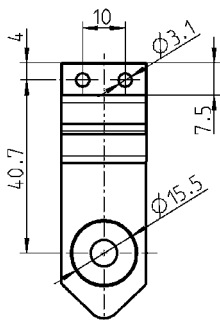
Installation situation door



Detail A



Detail A
Door opened



Product benefits

- Special plastic guarantees that the bending axis of the integral hinge is permanently protected against brittleness or failure
- Easy to assemble
- Low-priced



Application:

This integral hinge is suitable for light doors and flaps with low opening frequency, e.g. made of plastic.

Technical Data:

2,000 cycles
at 135° open-close
in case of a load of approx. 2.5 kg
door weight / hinge
(recommended load per hinge)

135° Integral hinge modified to impact strength polyamide black

on request

4A-510 05/20

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9 Special catalogues

8 Miscellaneous

7 Aluminium windows

6 Handles

5 Seals

4 Hinges

3 Locking systems

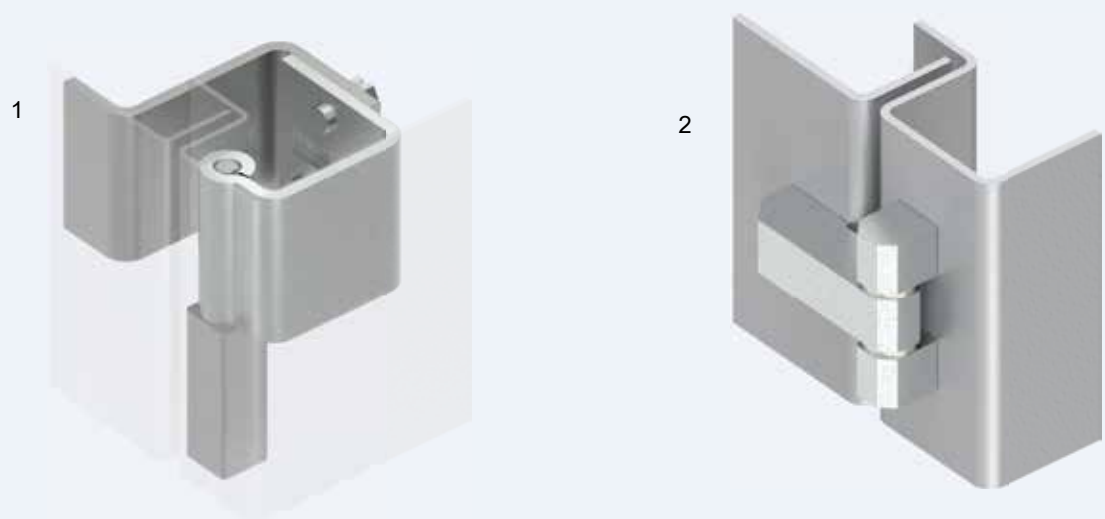
2 Rod controls

1 Quarter turns

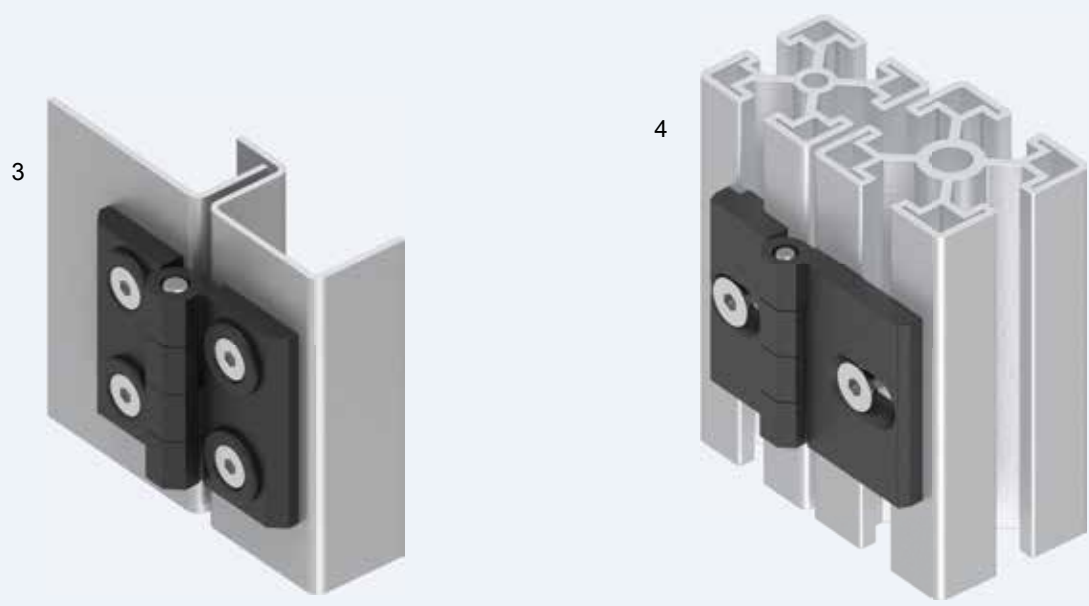
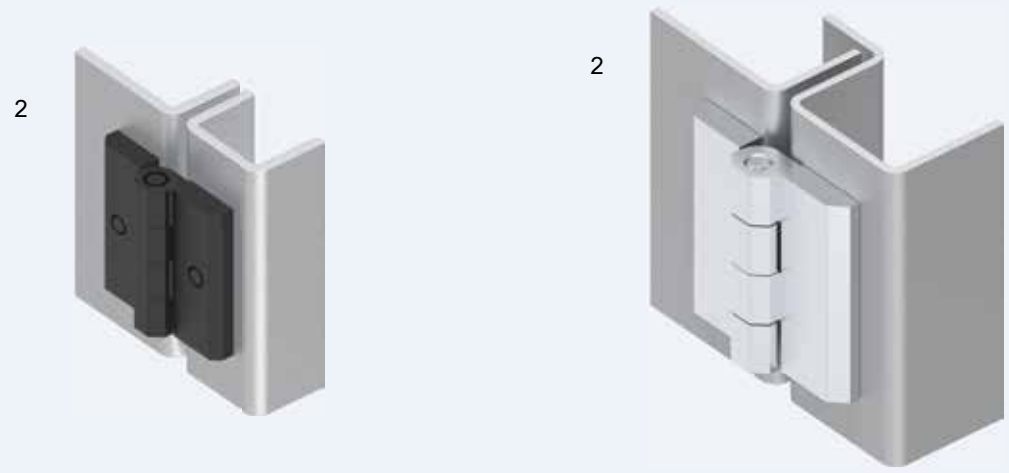
Info

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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Hinge for flush door



Door and housing / frame pictured transparent



2



5



6

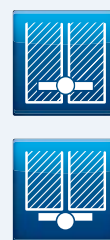


7



- 1 90° and 180° Concealed hinge
- 2 180° and 270° Prominent hinge
- 3 180° 2D Prominent hinge
- 4 180° Prominent hinge for profile rails
- 5 180° Prominent hinge and lift-off version
- 6 180° Prominent hinge
- 7 180° 2D and 3D Prominent hinge

- 4B-120 to 4B-140
- 4B-160 to 4B-220, 4B-245
- 4B-215
- 4B-230
- 4B-240
- 4B-280 to 4B-300
- 4B-248 to 4B-260



4B-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

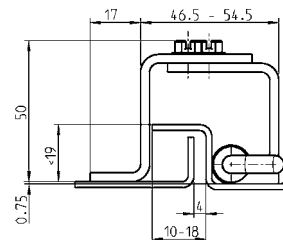
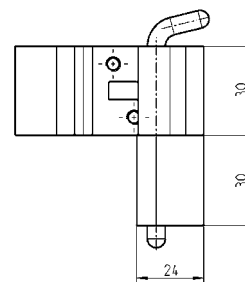
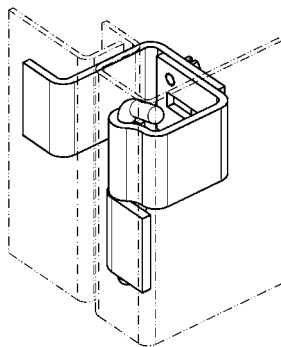
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AISI
INOX



90° Concealed hinge PROGRAM 1006, 1007



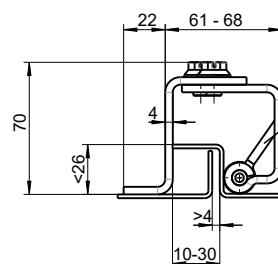
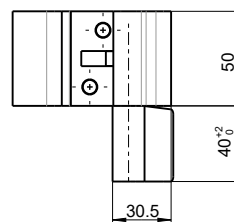
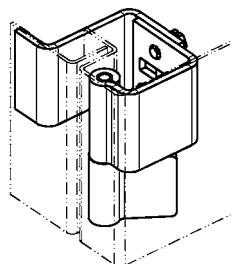
Concealed hinge

m.s. zinc-plated, weld-on part m.s. raw

1006-U1

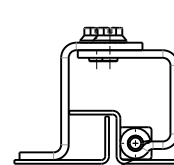
AISI 304 and AISI 303

1006-U1-PC



Hinge pin with
lug

Hinge pin with
square



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

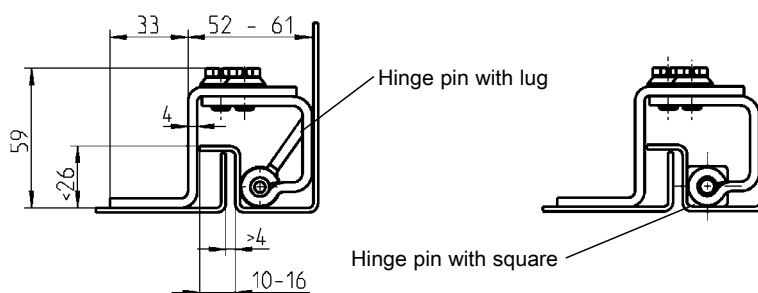
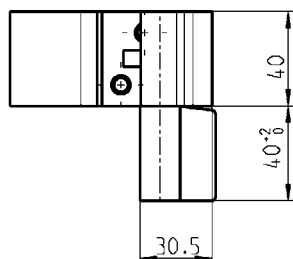
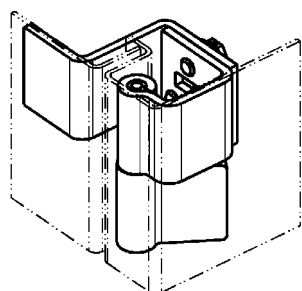
Hinge pin with lug

1007-U2

Hinge pin with square (17x50)

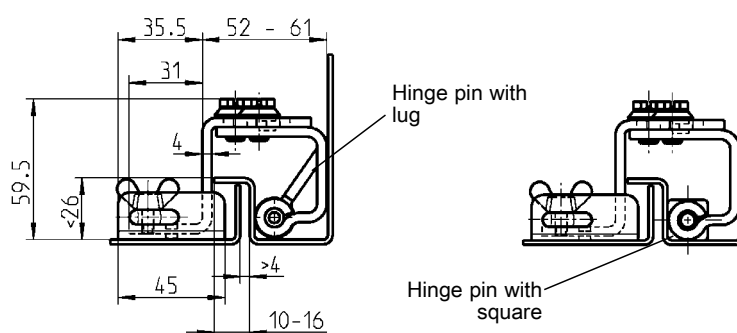
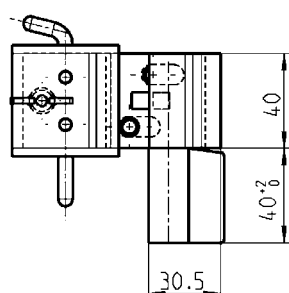
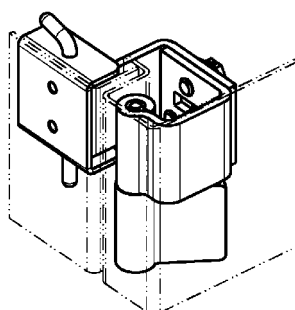
1007-U1

90° Concealed hinge PROGRAM 1046



Concealed hinge m.s. zinc-plated., weld-on parts m.s. raw or AISI 304 and AISI 303

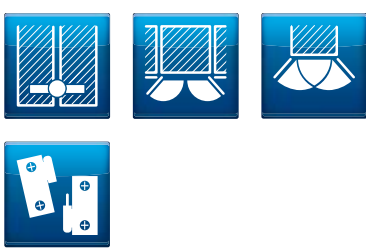
	m.s.	AISI 304
Hinge pin with lug	1046-U1	1046-U5
Base (square 17x50)	1046-U3	—



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

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

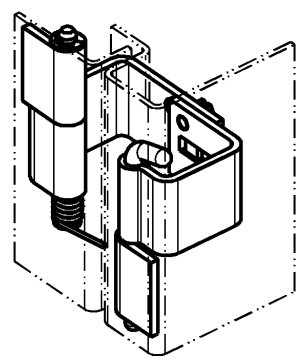
180° Concealed hinge PROGRAM 1042, 1043



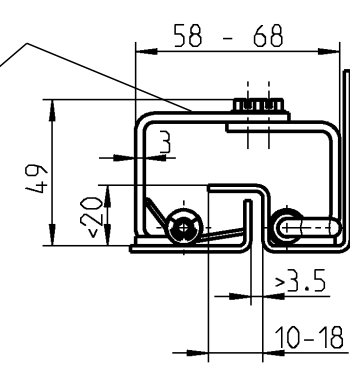
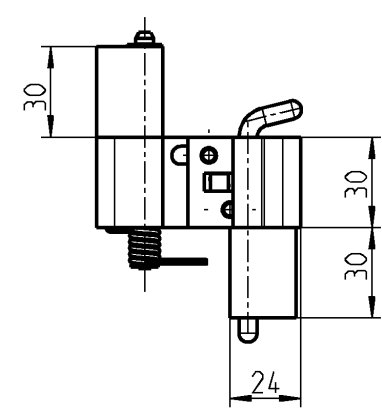
Spring for LH-version



Spring for LH-version

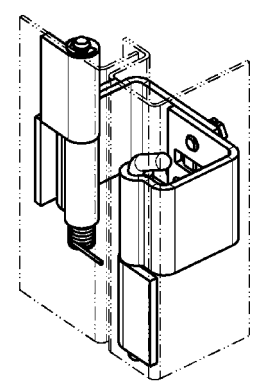


If necessary, connect hinge with flat steel

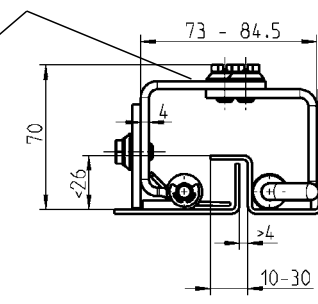
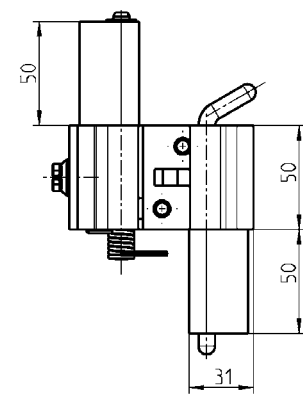


180° Concealed hinge m.s. zinc-plated, spring material spring steel, weld-on parts m.s. raw

1042-U1



If necessary, connect hinge with flat steel

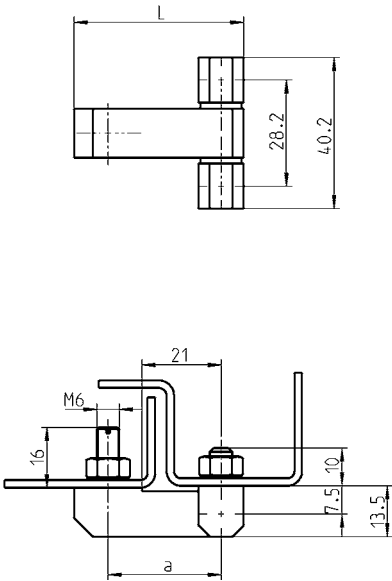
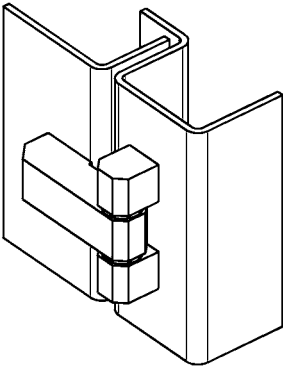


180° Concealed hinge m.s. zinc-plated, spring material spring steel, weld-on parts m.s. raw

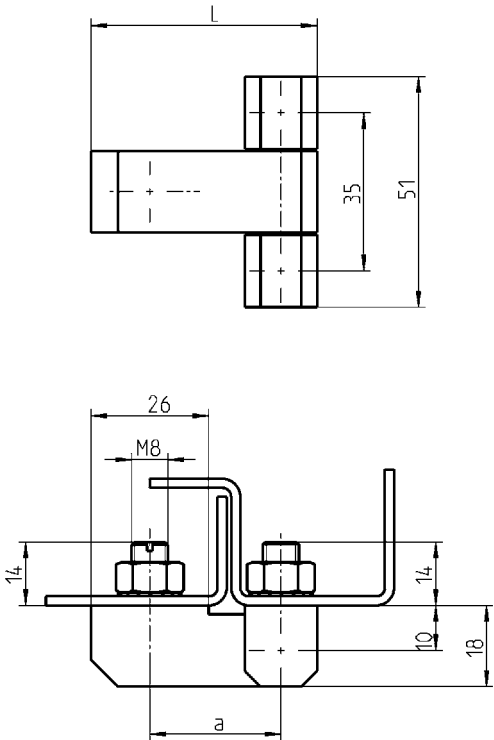
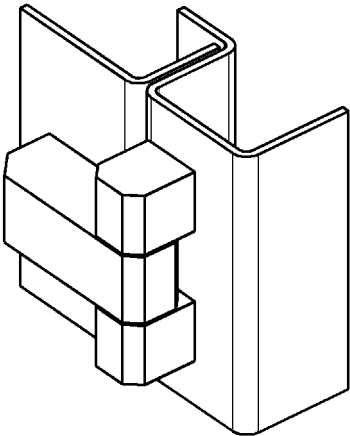
1043-U1

180° Screw-on hinge

PROGRAM 1039, 1055



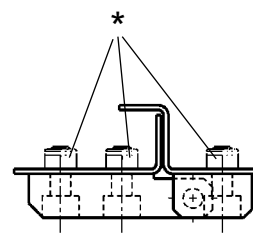
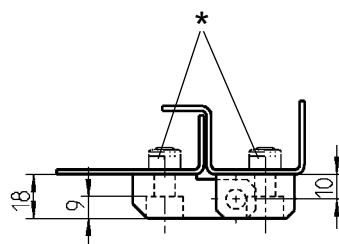
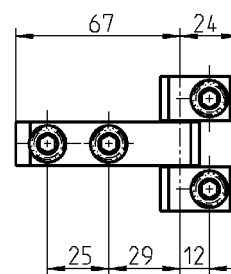
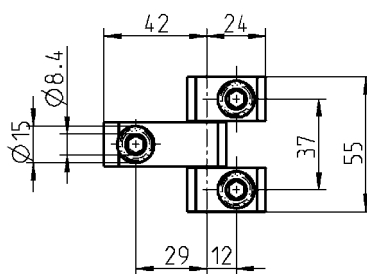
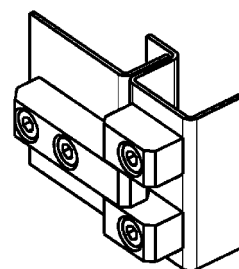
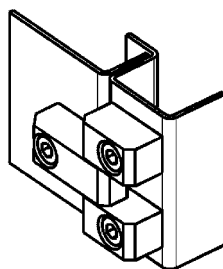
Screw-on hinge m.s. zinc-plated, pin and washers brass nickel-plated or completely stainless steel				
L	a	m.s.	AISI 303	AISI 316
45	30	1055-U3	1055-U7	1055-U9
53	38	1055-U4	—	—



Screw-on hinge m.s. zinc-plated, pin and washers brass nickel-plated or completely stainless steel				
L	a	m.s.	AISI 303	AISI 316
50	29	1039-U10	1039-U18	1039-U25
61	40	1039-U11	—	—



*not included in the scope of delivery



Screw-on hinge m.s. zinc-plated, pin and washers brass nickel-plated

Middle part short with one bore hole Ø 8.4 mm

1039-U13

Middle part short without bore hole for weld-on

1039-U14

Middle part long with two bore holes Ø 8.4 mm

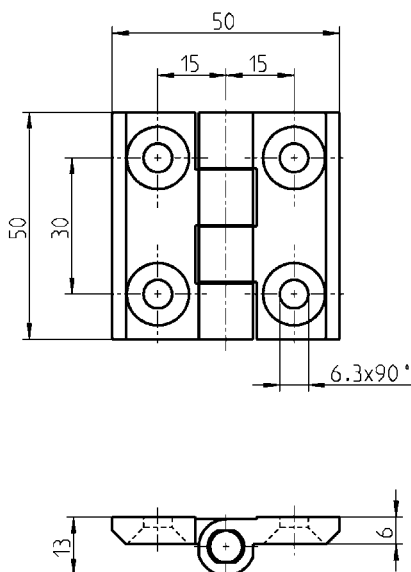
1039-U15

180° Screw-on torque hinge

PROGRAM 1056

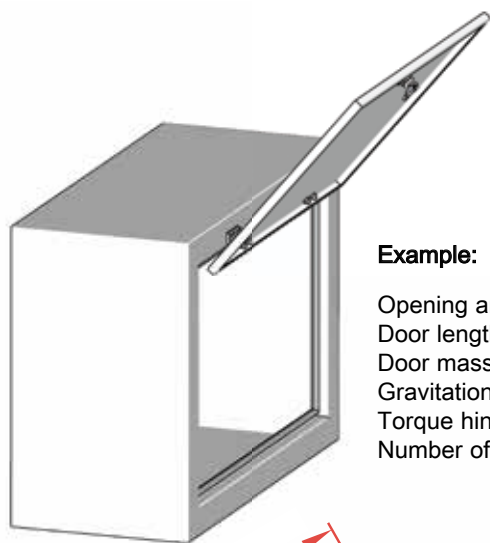
Product benefits

- Holds any position continuously at adequate load
- Constant torque across 180° adjustment range
- Same torque during opening and closing
- Compatible with all hinges of the 1056 program with identical cut out
- Can replace door stops, cover stays or gas springs depending on installation location



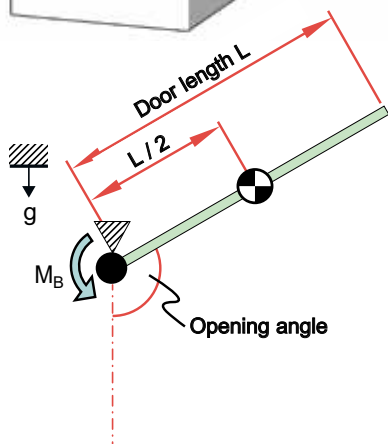
Dimensioning / Calculation:

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



Example:

Opening angle: α = 120°
 Door length: L = 0.4 m
 Door mass: m = 2 kg
 Gravitational pull: g = 9.81 m/s²
 Torque hinge: M = 2 Nm
 Number of hinges: n = ?



Formula:

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

Result:

3.4 Nm = 2 hinges



Torque hinge

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

Application:

This torque hinge is suitable for doors and covers.

Technical Data:

10,000 cycles at 180° open-close

Also available on request with 1.0 Nm

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

Nm	Tolerance ± %	
2.0	25	1056-U110

Further parts see page – 2D Nut

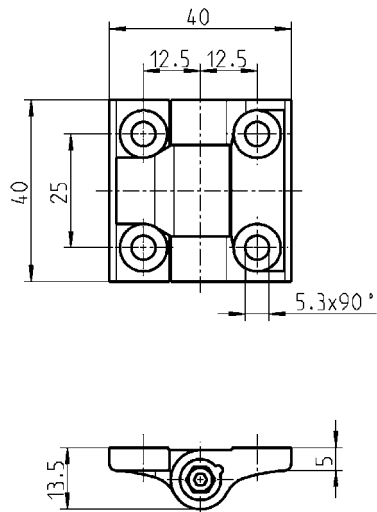
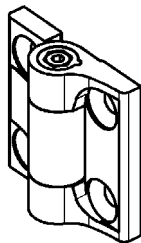
8E-120

180° Screw-on torque hinge with adjustment function

PROGRAM 1056

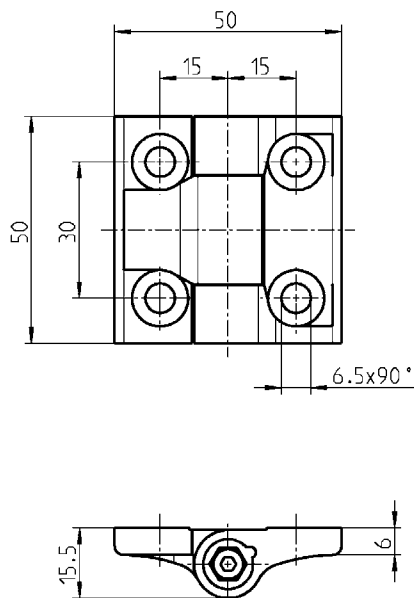
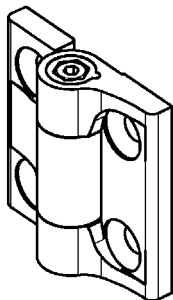
Product benefits

- Adjustable torque
- Constant torque across 180° adjustment range
- Same torque during opening and closing
- Adjustment of the torque may be necessary
- Compatible with all hinges of the 1056 program with identical cut out
- Can replace door stops, cover stays or gas springs depending on installation location



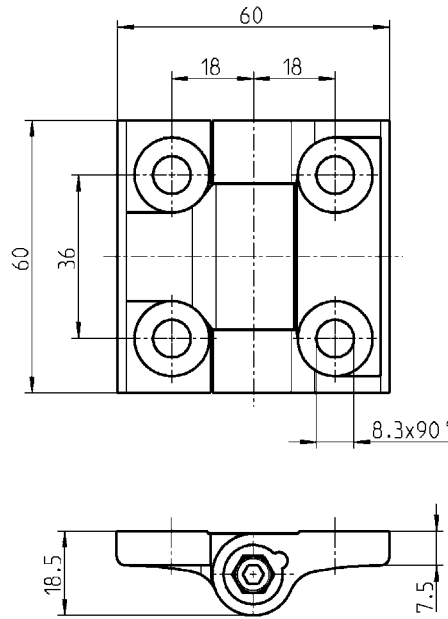
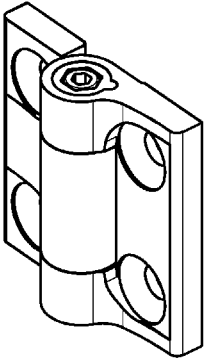
180° Screw-on torque hinge zinc die black powder-coated for countersunk screw M5; friction cone polyacetal POM; screw and nut m.s. zinc-plated

Nm	max. tightening torque of screw in Nm	
to ~ 2	0.5	1056-U6-01



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

Nm	max. tightening torque of screw in Nm	
to ~ 4	0.75	1056-U10-01



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

Nm	max. tightening torque of screw in Nm	
to ~ 6.5	1.5	1056-U14-01

Dimensioning / Calculation:

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

Example:

Door length:	L	= 0.7 m
Door mass:	m	= 3.5 kg
Gravitational pull:	g	= 9.81 m/s ²
Torque hinge:	M	= 6.5 Nm
Total torque	M total	= ?
Number of hinges:	n	= ?

Formula: Total torque

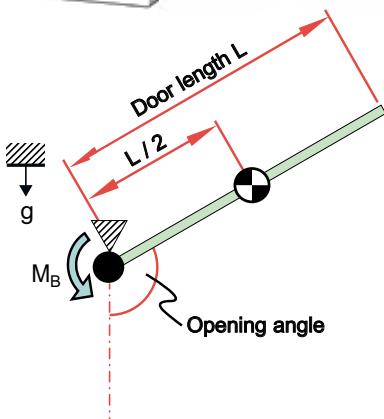
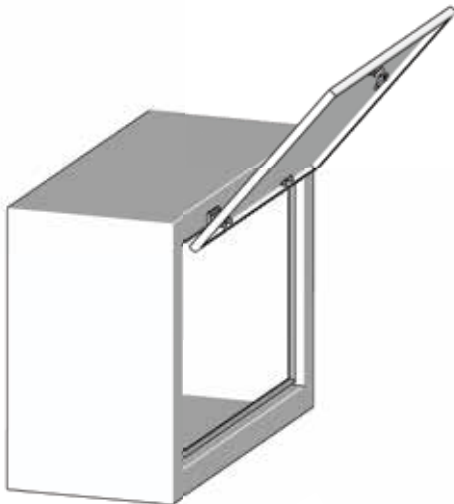
$$M_{\text{total}} = L / 2 \times m \times g$$

Formula: Number of required hinges

$$n = \left(\frac{M_{\text{total}}}{M} \right)$$

Result:

1.85 = 2 hinges 1056-U14-01



Torque hinge

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

Application:

This torque hinge is suitable for doors and covers.

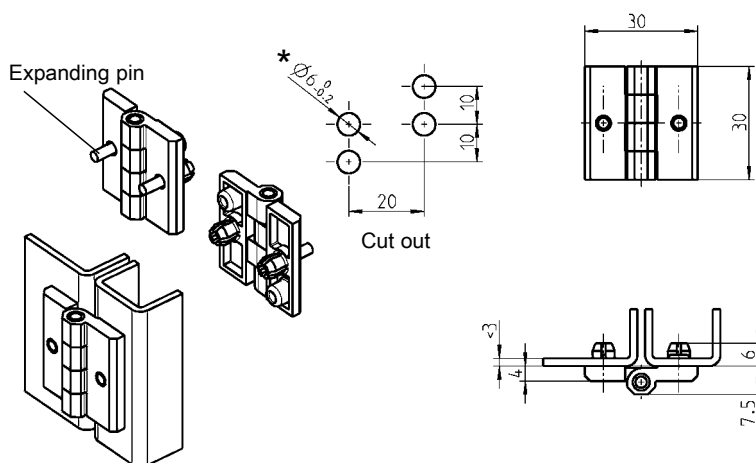
Further parts see page

– 2D Nut 8E-120
(only for 1056-U10-01)

Info	EMKA® Beschlagteile
1 Quarter turns	Notes:
2 Rod controls	
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
9 Special catalogues	
Index	

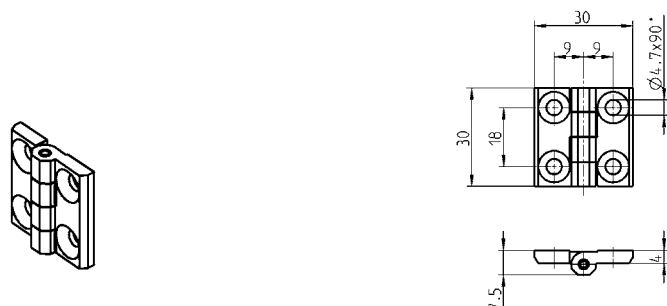
180° Screw-on hinge

PROGRAM 1056



Hinge, hinge pin and expanding pins polyamide black

1056-U32



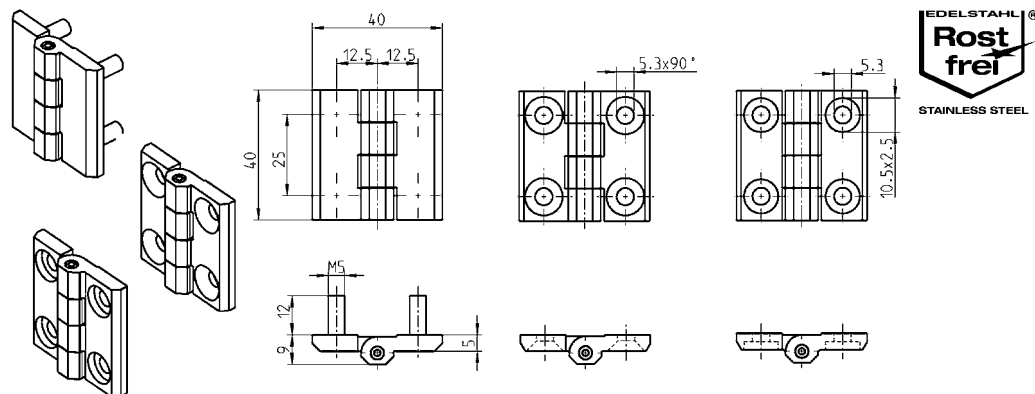
Screw-on hinge for countersunk screw M4; zinc die surface of choice; hinge pin stainless steel

black powder-coated

1056-U60

chrome-plated

1056-U61



Screw-on hinge zinc die, polyamide black or stainless steel; threaded stud M5 stainless steel

	Pin	Threaded stud M5	for countersunk screw M5	for cylinder screw M5
Zinc die chrome-pl.	St. steel	1056-U3	1056-U5	—
Zinc die black p.c.	St. steel	1056-U4	1056-U6	—
Polyamide GF black	St. steel	—	1056-U30	1056-U30-01
Polyamide GF black	Polyamide	—	1056-U41	—
AISI 316 bright polished	St. steel	—	1056-U5-PPPH	—
AISI 316 polished	St. steel	—	1056-U5-PH	—
AISI 316 pickled / passivated	St. steel	—	1056-U5-PVPH	—



AISI INOX



*Attention:
The specified dimension is a final dimension, please note for surface coatings.





Further parts see page
– 2D Nut

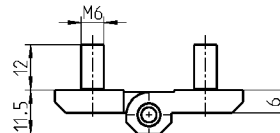
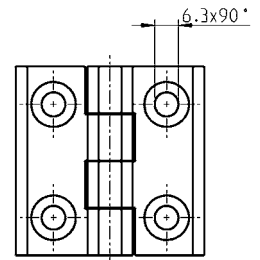
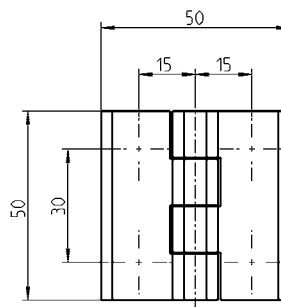
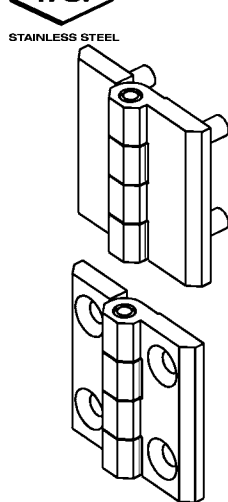
8E-120

®

180° and 270° Screw-on hinge PROGRAM 1056



180° Screw-on hinge

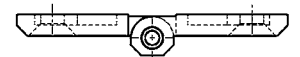
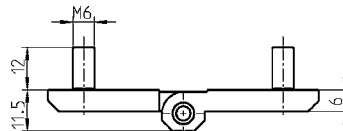
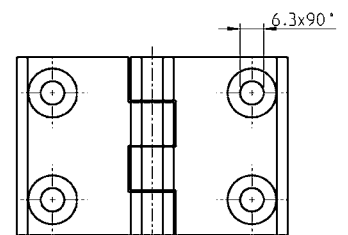
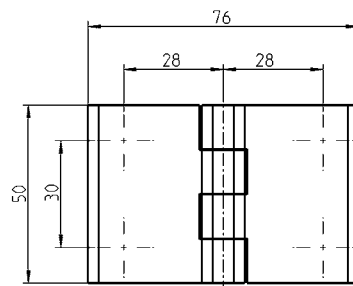
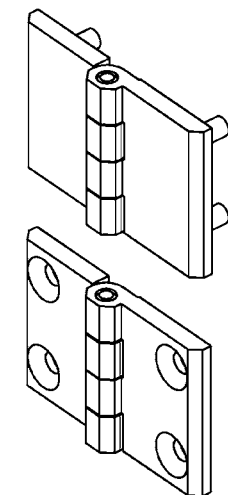


Screw-on hinge zinc die, polyamide black or stainless steel; threaded stud M6 stainless steel

① = (2D nut possible)	Pin	Threaded stud M6	① for countersunk screw M6
Zinc die chrome-plated	Stainless steel	1056-U7	1056-U9
Zinc die black powder-coated	Stainless steel	1056-U8	1056-U10
Polyamide GF black	Stainless steel	–	1056-U31
Polyamide GF black	Polyamide	–	1056-U42
AISI 316 bright polished	Stainless steel	–	1056-U9-PPPH
AISI 316 polished	Stainless steel	–	1056-U9-PH
AISI 316 pickled / passivated	Stainless steel	–	1056-U9-PVPH



270° Screw-on hinge



Screw-on hinge zinc die or stainless steel; threaded stud M6 stainless steel

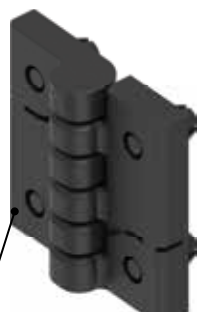
① = (2D nut possible)	Pin	Threaded stud M6	① for countersunk screw M6
Zinc die chrome-plated	Stainless steel	1056-U15	1056-U17
Zinc die black powder-coated	Stainless steel	1056-U16	1056-U18
AISI 316 bright polished	Stainless steel	–	1056-U17-PPPH
AISI 316 polished	Stainless steel	–	1056-U17-PH
AISI 316 pickled / passivated	Stainless steel	–	1056-U17-PVPH

180° Screw-on hinge

PROGRAM 1056



Screw-on hinge zinc die or stainless steel; threaded stud M8 stainless steel			
	Pin	Threaded stud M8	for countersunk screw M8
Zinc die chrome-plated	Stainless steel	1056-U11	1056-U13
Zinc die black powder-coated	Stainless steel	1056-U12	1056-U14
Aluminium	Stainless steel	–	1056-U69
AISI 316 bright polished	Stainless steel	–	1056-U13-PPPH
AISI 316 polished	Stainless steel	–	1056-U13-PH
AISI 316 pickled / passivated	Stainless steel	–	1056-U13-PVPH



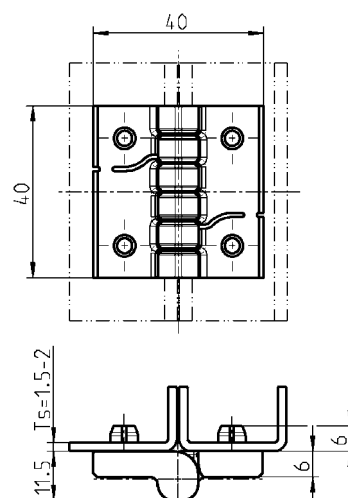
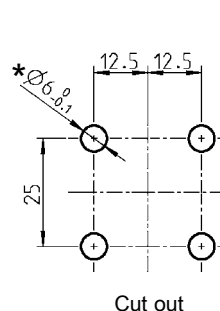
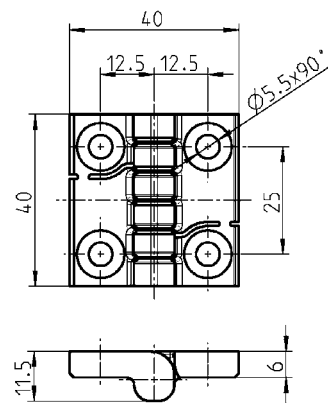
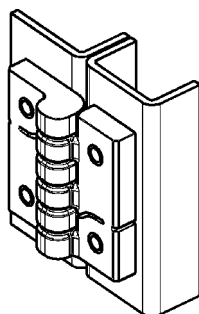
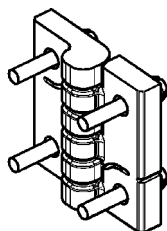
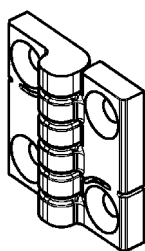
Expanding pin

*Attention:
The specified dimension is a final dimension, please note for surface coatings.



® 180° Clip-in hinge to screw on or with expansion pins

PROGRAM 1056



Clip-in hinge for countersunk screw M5 polyamide GF colour of choice, unassembled

black

1056-U66

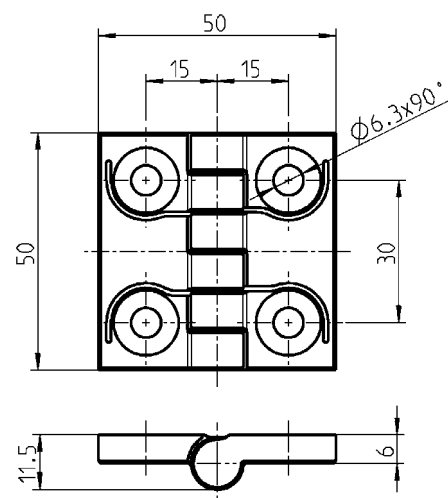
silver

1056-U66-HW

Clip-in hinge with expansion pins polyamide GF black, unassembled

on request

Mounting within seconds



Clip-in hinge for countersunk screw M6 polyamide GF colour of choice, unassembled

black

1056-U68

silver

on request

180° Screw-on hinge PROGRAM 1056



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

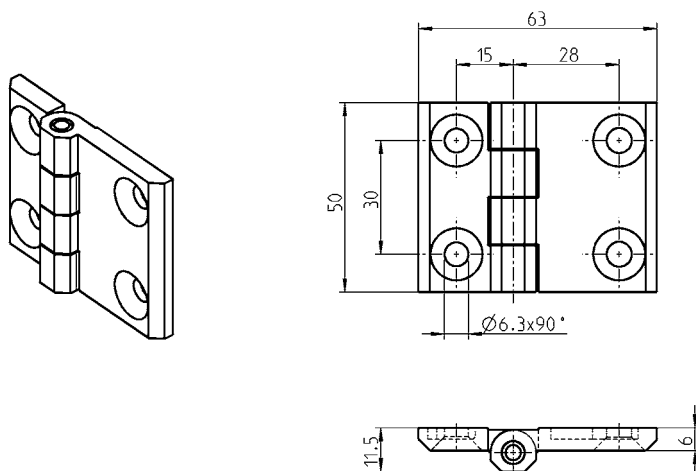
6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

Index



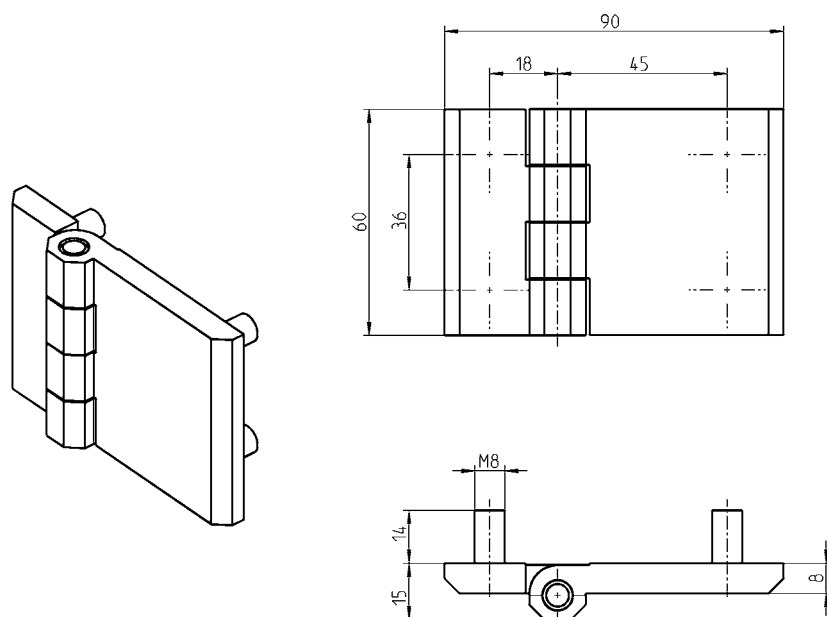
Screw-on hinge zinc die or stainless steel, pin stainless steel,
for countersunk screw M6 (2D nut possible)

Zinc die black powder-coated

1056-U59

AISI 316

1056-U59-PH



Screw-on hinge zinc die, pin and threaded studs M8 stainless steel

chrome-plated

1056-U19

black powder-coated

1056-U20

Further parts see page
– 2D Nut

8E-120



**AISI
INOX**



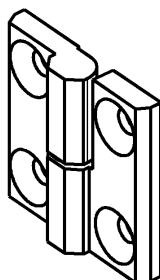
Further parts see page
– 2D Nut

8E-120

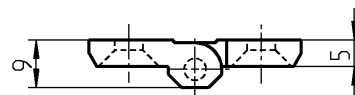
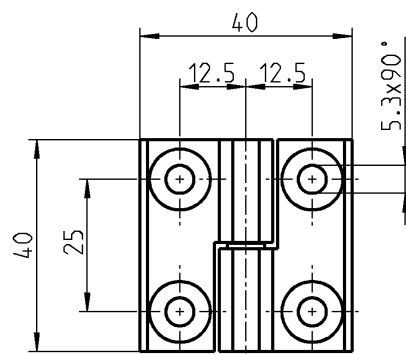
180° Screw-on hinge PROGRAM 1056



STAINLESS STEEL



RH-version shown
LH-version is a mirror-image



Screw-on hinge zinc die black powder-coated or AISI 316,
washer polyamide black or teflon, pin stainless steel

for countersunk screw M5

Left-hand version

Right-hand version

Zinc die

1056-U54

1056-U53

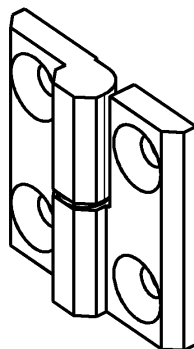
AISI 316

1056-U54-PH

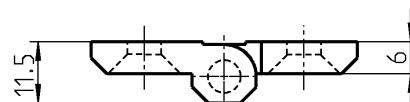
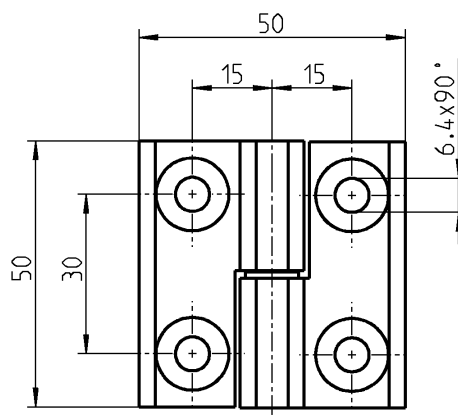
1056-U53-PH



STAINLESS STEEL



RH-version shown
LH-version is a mirror-image



Screw-on hinge zinc die black powder-coated or AISI 316,
washer polyamide black or teflon, pin stainless steel

for countersunk screw M6
(2D nut possible)

Left-hand version

Right-hand version

Zinc die

1056-U56

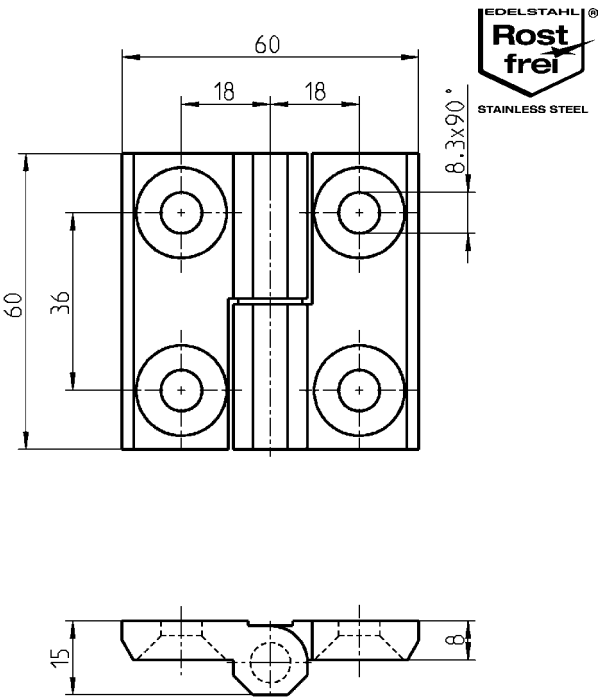
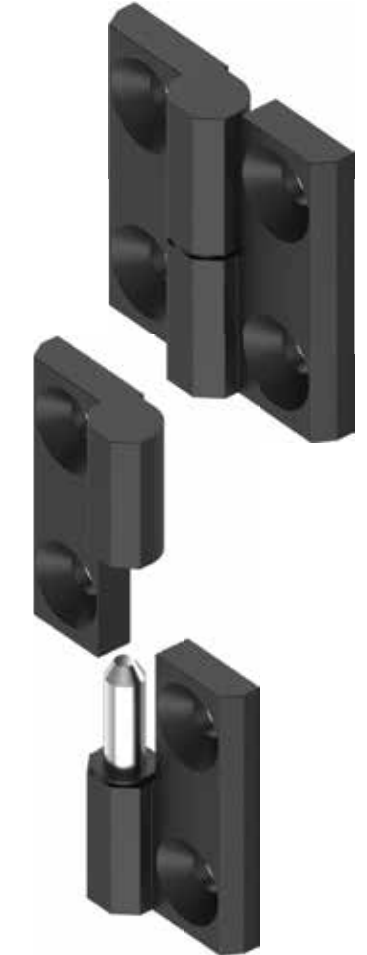
1056-U55

AISI 316

1056-U56-PH

1056-U55-PH

180° Screw-on hinge PROGRAM 1056



RH-version shown
 LH-version is a mirror-image

Screw-on hinge zinc die black powder-coated or AISI 316, washer polyamide black or teflon, pin stainless steel for countersunk screw M8		
	Zinc die	AISI 316
Left-hand version	1056-U58	1056-U58-PH
Right-hand version	1056-U57	1056-U57-PH

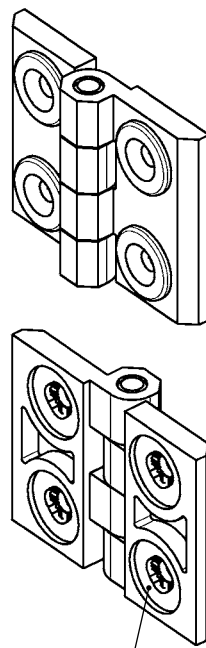
180° Screw-on hinge

PROGRAM 1056

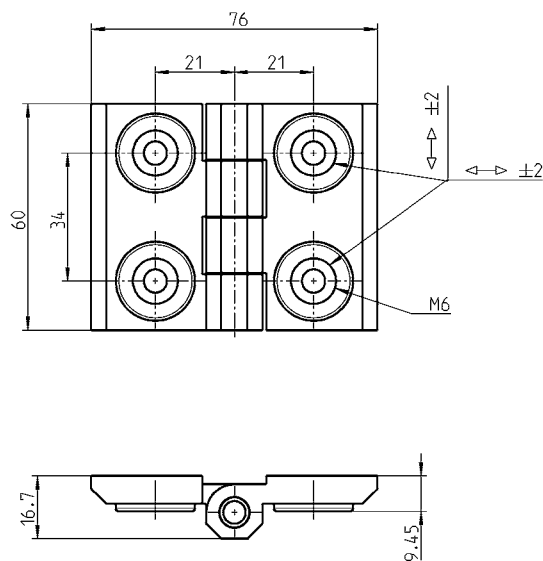
180° 2D Screw-on hinge



Adjustable ± 2 mm
in horizontal and
vertical direction.



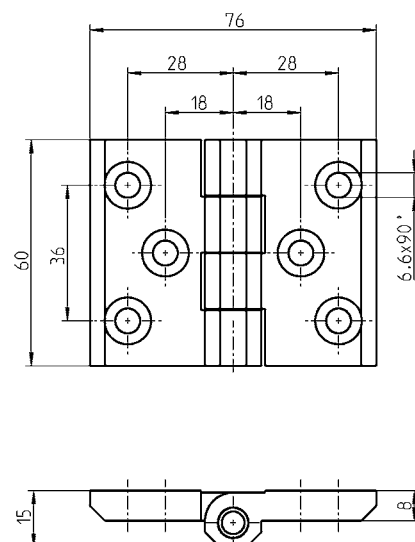
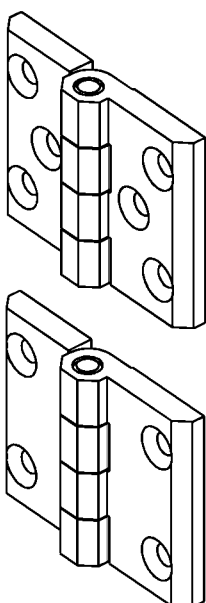
Recess for commercially available rivet nut M6



2D Screw-on hinge zinc die black powder-coated; pin stainless steel

1056-U27

180° Screw-on hinge



Screw-on hinge zinc die black powder-coated; pin stainless steel

with 4 countersunk holes (2D nut possible)

1056-U29

with 6 countersunk holes (2D nut possible)

1056-U28

Further parts see page
– 2D Nut

8E-120

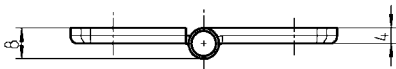
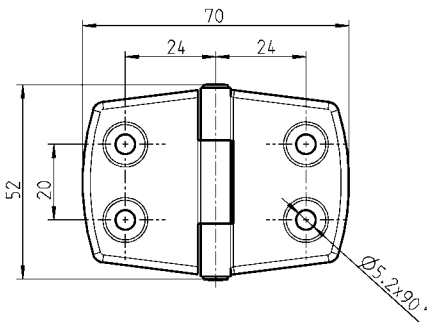
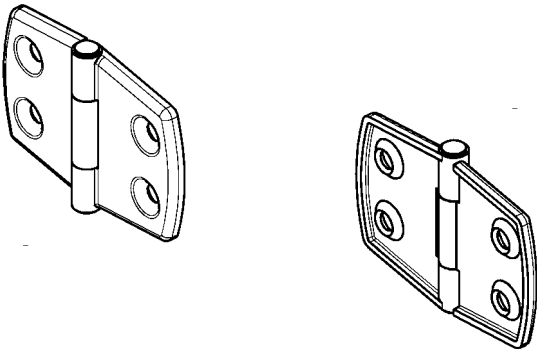
180° Screw-on hinge
PROGRAM 6020



Beschlagteile



AISI
INOX



Screw-on hinge for countersunk screw small head M5, AISI 316 polished

6020-U1098-PP

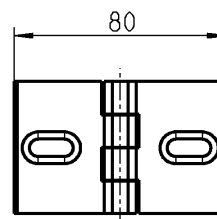
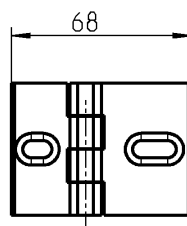
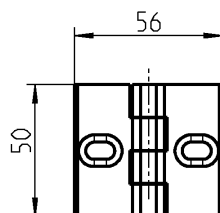
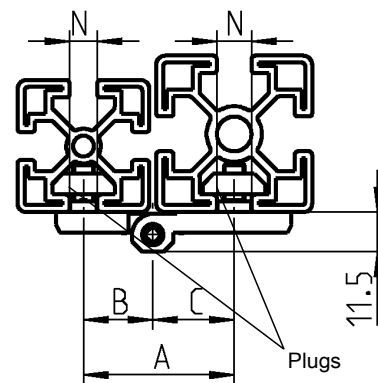
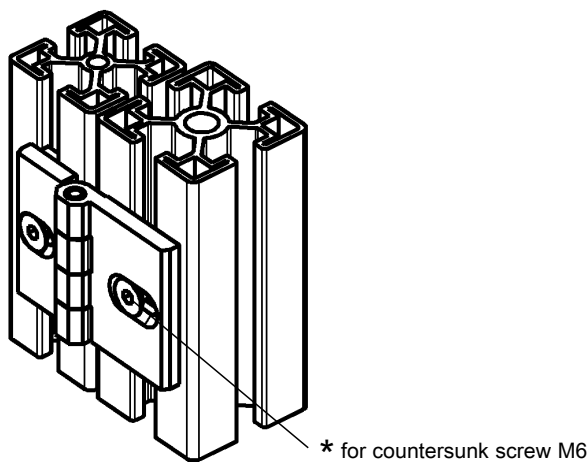
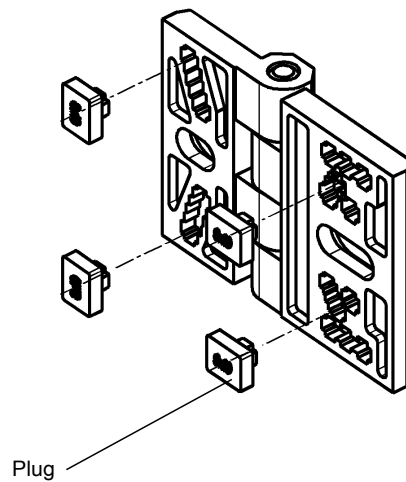
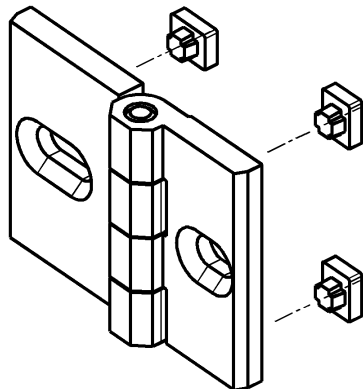
Small head = DIN ISO 2009,
2010, 7046-1, 7046-2, 7047

4B-220 04/07

Info	1 Quarter turns	2 Rod controls	3 Locking systems	4 Hinges	5 Seals	6 Handles	7 Aluminium windows	8 Miscellaneous	9 Special catalogues	Index
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Profile rail hinge

PROGRAM 1056



Profile rail hinge zinc die black powder-coated, pin stainless steel, plug zinc die

Plugs	8x10	1056-U21	Plugs	8x10	1056-U22	Plugs	8x10	1056-U23
	7x10	1056-U24		7x10	1056-U25		7x10	1056-U26



- Slot see back of hinge
- Can be used for different profiles
- 70 different distances (dimension A) by repositioning the plugs
- All hinges offer anti-rotation protection through four plugs for plug widths of N = 8 and 10 mm or N = 7 and 10 mm (other N dimensions on request).



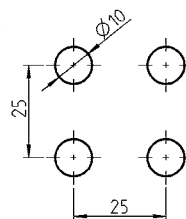
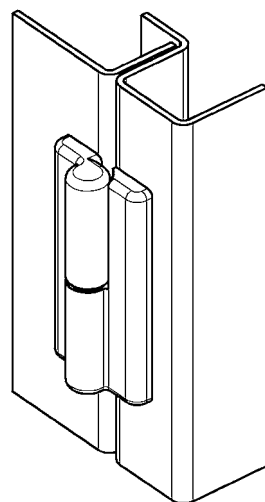
Plugs 8x10 Plugs 7x10			1056-U21 1056-U24			Plugs 8x10 Plugs 7x10			1056-U22 1056-U25			Plugs 8x10 Plugs 7x10			1056-U23 1056-U26		
Slot			Slot			Slot			Slot			Slot			Slot		
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
33	16.5	16.5	37.5	16.5	21	42	21	21	42	21	21	42	21	21	42	21	21
34	16.5	17.5	38	16.5	21.5	42.5	21	21.5	42.5	21	21.5	42.5	21	21.5	42.5	21	21.5
35	16.5	18.5	40	16.5	23.5	44.5	21	23.5	44.5	21	23.5	44.5	21	23.5	44.5	21	23.5
35.5	16.5	19	42.5	16.5	26	47	21	26	47	21	26	47	21	26	47	21	26
36.5	16.5	20	44	16.5	27.5	48.5	21	27.5	48.5	21	27.5	48.5	21	27.5	48.5	21	27.5
35	17.5	17.5	47.5	16.5	31	52	21	31	52	21	31	52	21	31	52	21	31
36	17.5	18.5	38.5	17.5	21	43	21.5	21.5	43	21.5	21.5	43	21.5	21.5	43	21.5	21.5
36.5	17.5	19	39	17.5	21.5	45	21.5	23.5	45	21.5	23.5	45	21.5	23.5	45	21.5	23.5
37.5	17.5	20	41	17.5	23.5	47.5	21.5	26	47.5	21.5	26	47.5	21.5	26	47.5	21.5	26
37	18.5	18.5	43.5	17.5	26	49	21.5	27.5	49	21.5	27.5	49	21.5	27.5	49	21.5	27.5
37.5	18.5	19	45	17.5	27.5	52.5	21.5	31	52.5	21.5	31	52.5	21.5	31	52.5	21.5	31
38.5	18.5	20	48.5	17.5	31	47	23.5	23.5	47	23.5	23.5	47	23.5	23.5	47	23.5	23.5
38	19	19	39.5	18.5	21	49.5	23.5	26	49.5	23.5	26	49.5	23.5	26	49.5	23.5	26
39	19	20	40	18.5	21.5	51	23.5	27.5	51	23.5	27.5	51	23.5	27.5	51	23.5	27.5
40	20	20	42	18.5	23.5	54.5	23.5	31	54.5	23.5	31	54.5	23.5	31	54.5	23.5	31
			44.5	18.5	26	52	26	26	52	26	26	52	26	26	52	26	26
			46	18.5	27.5	53.5	26	27.5	53.5	26	27.5	53.5	26	27.5	53.5	26	27.5
			49.5	18.5	31	57	26	31	57	26	31	57	26	31	57	26	31
			40	19	21	55	27.5	27.5	55	27.5	27.5	55	27.5	27.5	55	27.5	27.5
			40.5	19	21.5	58.5	27.5	31	58.5	27.5	31	58.5	27.5	31	58.5	27.5	31
			42.5	19	23.5	62	31	31	62	31	31	62	31	31	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 in the scope of delivery

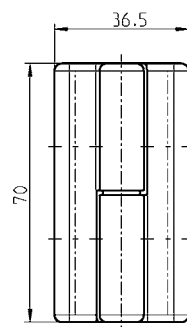


Assembly:

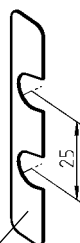
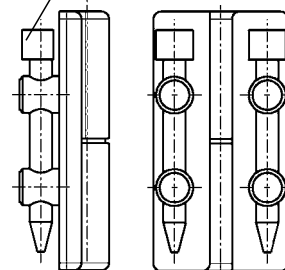
Hinge is fixed by driving in the polyamide pins.
The pull-out force in Z direction is 1500 N.



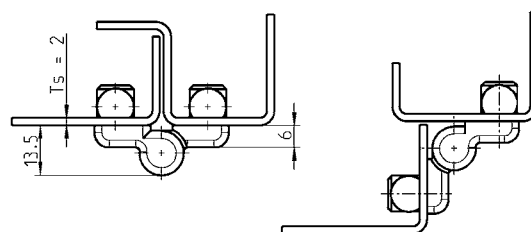
Cut out



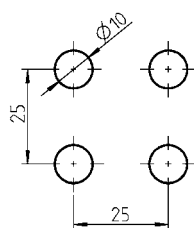
Clamping pin



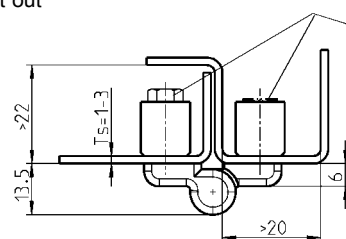
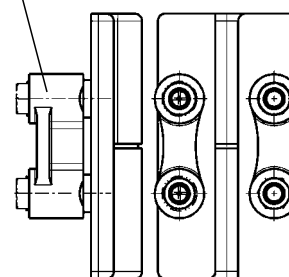
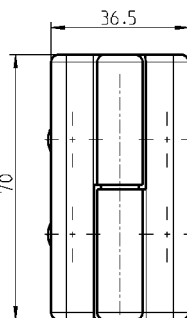
Support plate has to be ordered sep. for different door gauges (1x per clamping pin)



Fastening bow



Cut out



*Hexagon screw M5x12
*Countersunk screw small head M5x12

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	Right	—	1056-U49
Ts = 1.5	Left	—	1056-U50
Ts = 2.0	Right	1056-U35	—
Ts = 2.0	Left	1056-U33	—

Hinge with fastening bow zinc die black powder-coated; pin stainless steel

Right	1056-U44
Left	1056-U43

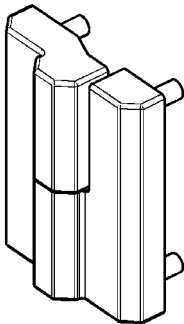
Support plate AISI 304 (1x per clamping pin)

Hinge for Ts	change to Ts	
1.5	1.0	1110-39-02
2.0	1.0	1110-39-03
2.0	1.5	1110-39-02

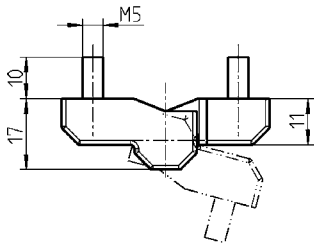
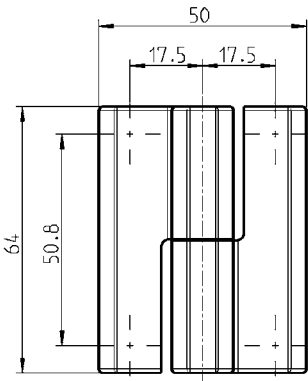
*not included in the scope of delivery

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

160° Screw-on hinge
PROGRAM 1056



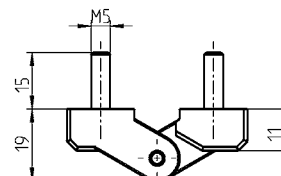
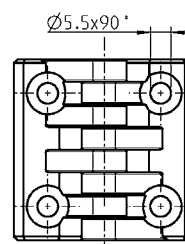
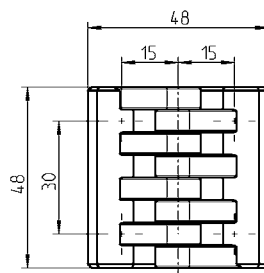
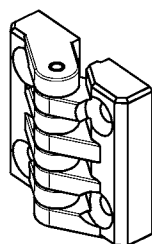
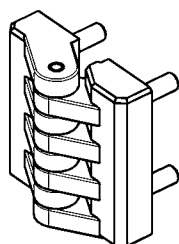
RH-version shown
LH-version is a mirror-image



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
Left-hand version	1056-U62	1056-U64
Right-hand version	1056-U63	1056-U65

180° Screw-on hinge with knuckles

PROGRAM 1056



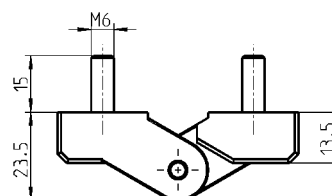
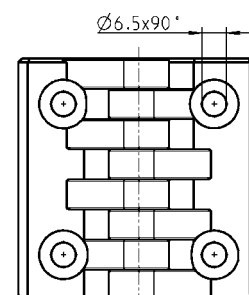
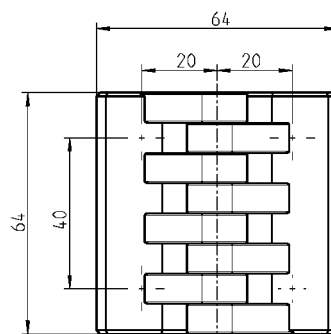
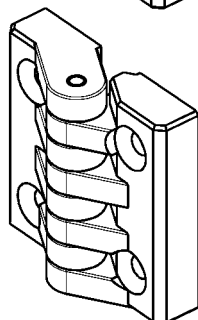
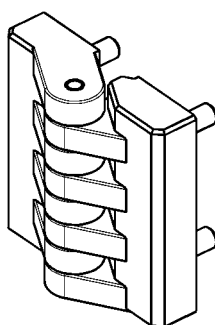
Screw-on hinge polyamide GF black; pin m.s. zinc-plated

for countersunk screw M5

1056-U37

with threaded stud M5

1056-U38



Screw-on hinge polyamide GF black; pin m.s. zinc-plated

for countersunk screw M6 (2D nut possible)

1056-U39

with threaded stud M6

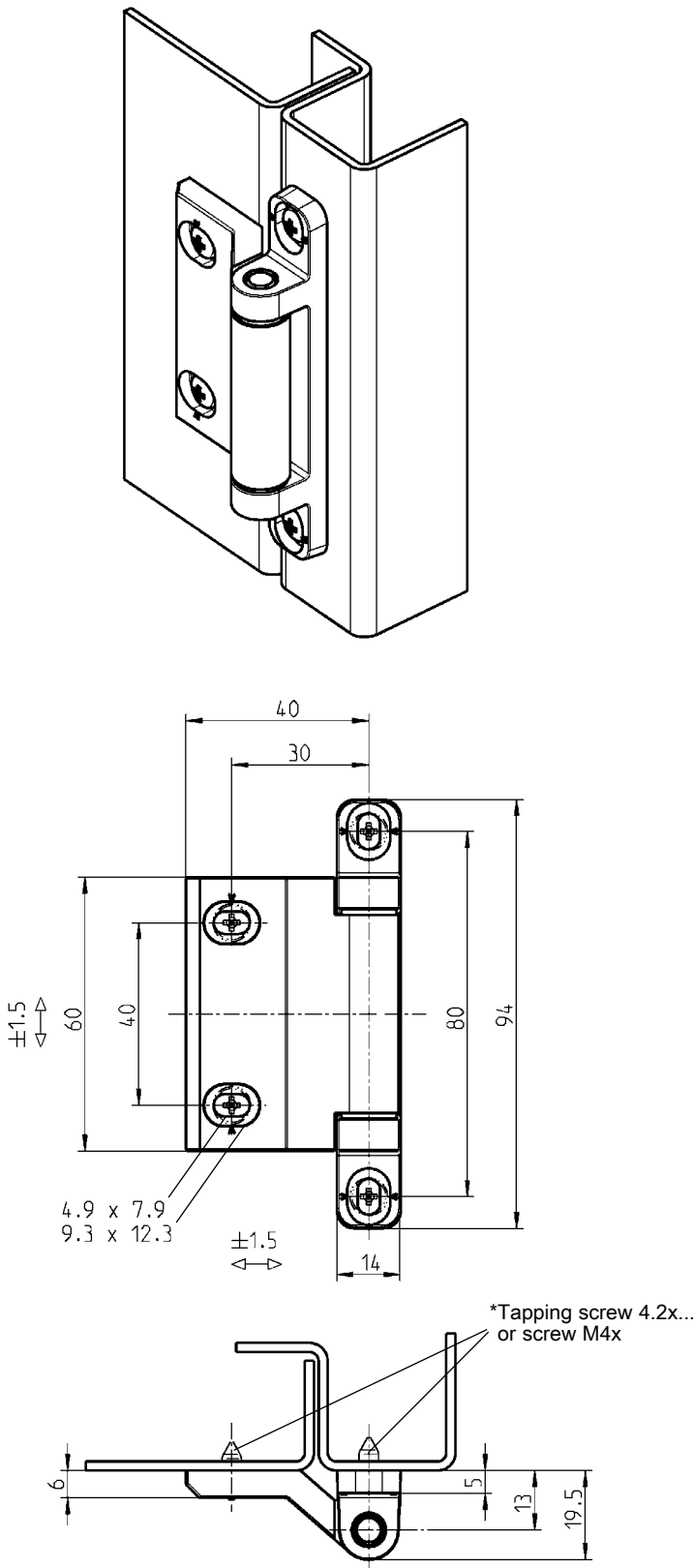
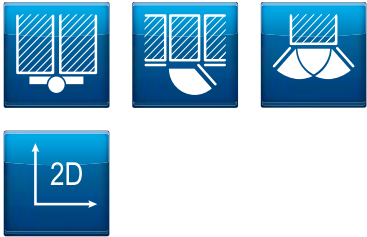
1056-U40

Further parts see page
– 2D Nut

8E-120

180° 2D Hinge
PROGRAM 1054

Info	1 Quarter turns	2 Rod controls	3 Locking systems	4 Hinges	5 Seals	6 Handles	7 Aluminium windows	8 Miscellaneous	9 Special catalogues	Index
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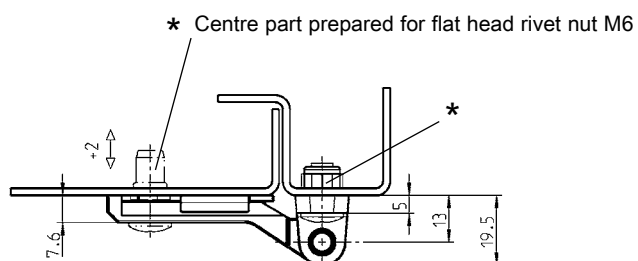
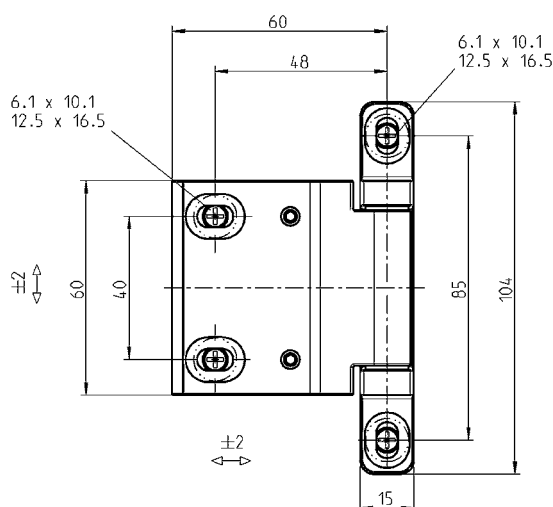
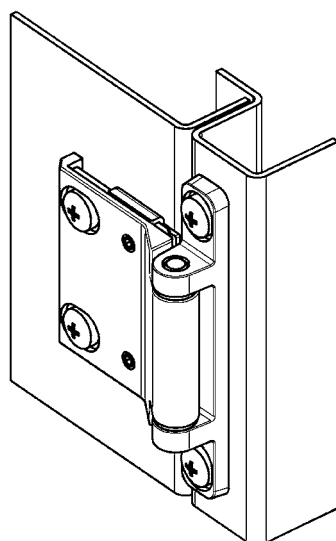
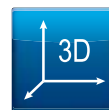
*not included in the scope of delivery

180° 2D Hinge zinc die black powder-coated, pin stainless steel, bushes polyamide

1054-U37

Items printed in gray without stock

180° 3D Screw-on hinge PROGRAM 1054



3D Screw-on hinge frame part and centre part zinc die black powder-coated;
shaft, pin and washers stainless steel; bushes plastic

1054-U42-01

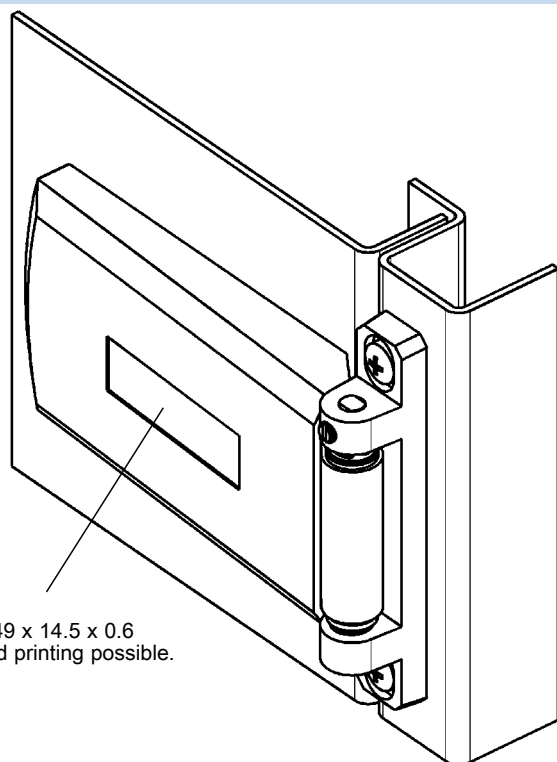
*Oval head screw
DIN ISO 7380 M6x...
not included in scope of delivery

4B-253 07/16

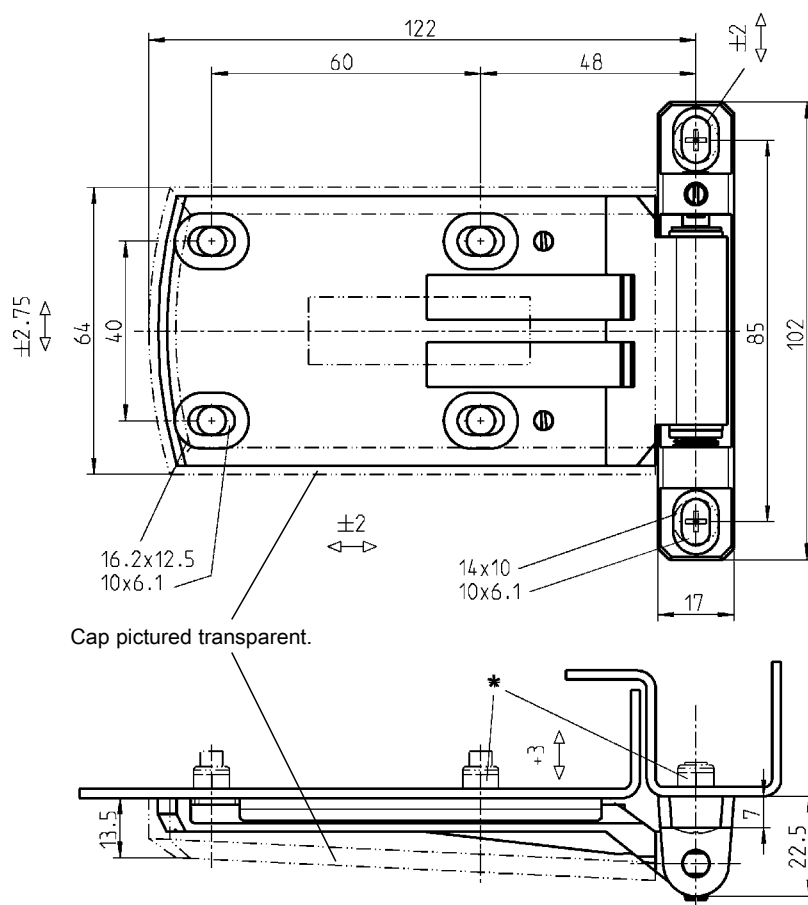
1054-U44-01

180° 3D Screw-on hinge

PROGRAM 1054



Logo recess: 49 x 14.5 x 0.6
Multicolour pad printing possible.



Cap pictured transparent.

3D Screw-on hinge frame part and centre part zinc die black powder-coated;
shaft stainless steel; pin and washer steel zinc-plated;
cap and bush polyamide black

Right-hand version

1054-U36-RE

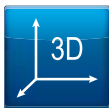
Left-hand version

1054-U36-LI

*not included in the scope of delivery

**Only screws with flat head or with max. head height 5 mm can be used

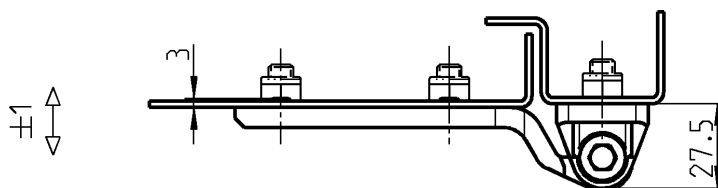
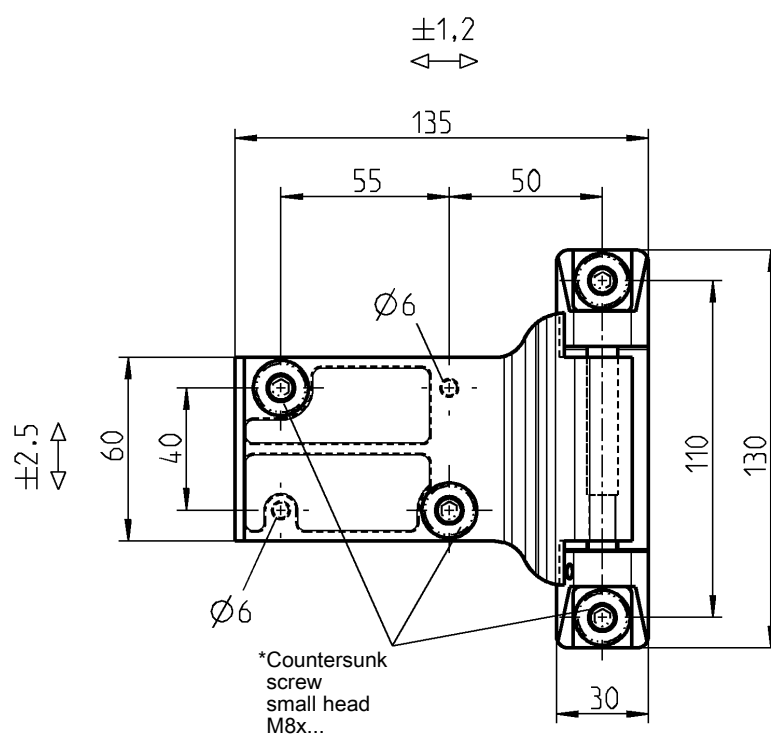
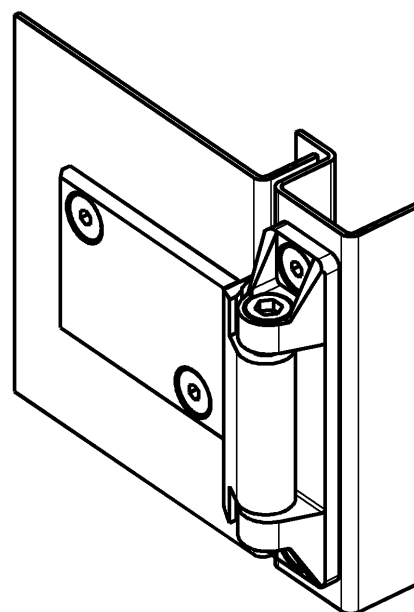
Right-hand or left-hand version by turning around the hinge leaf.



*not included in the scope of delivery

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

4B-260 04/07

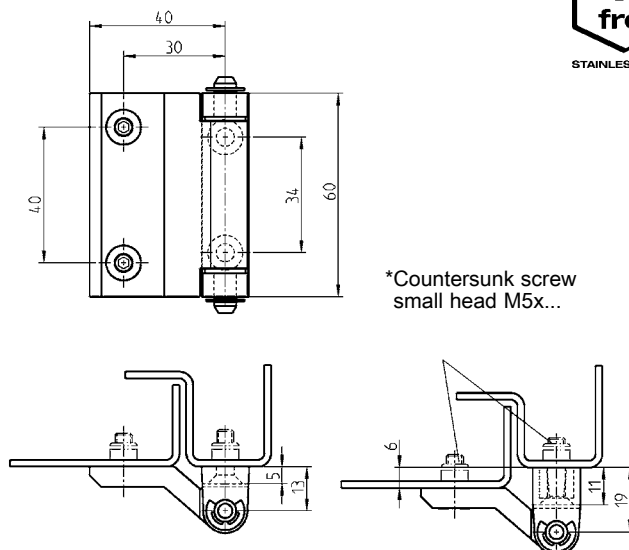
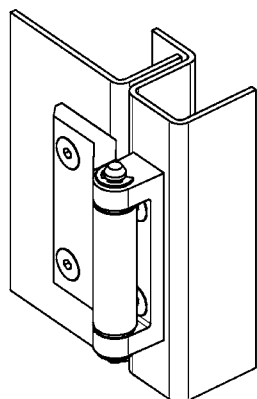


3D Screw-on hinge zinc die, shaft and grub screw stainless steel

	Left-hand version	Right-hand version
black powder-coated	1054-U32	1054-U31
raw	1054-U32-01	1054-U31-01

180° Screw-on hinge

PROGRAM 1054



**AISI
INOX**



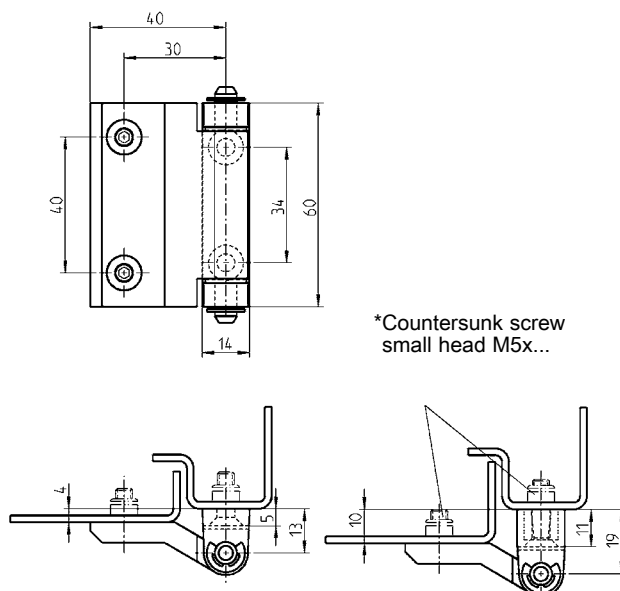
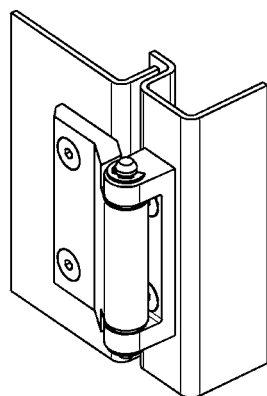
Screw-on hinge zinc die, pin and washer m.s. zinc-plated and bushes polyamide

	normal	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 pieces

Screw-on hinge AISI 316 and bushes polyamide

	1054-U5-PH	-
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Screw-on hinge zinc die, pin and washer m.s. zinc-plated and bushes polyamide

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

** = Minimum order quantity 1000 pieces

*not included in the scope of delivery

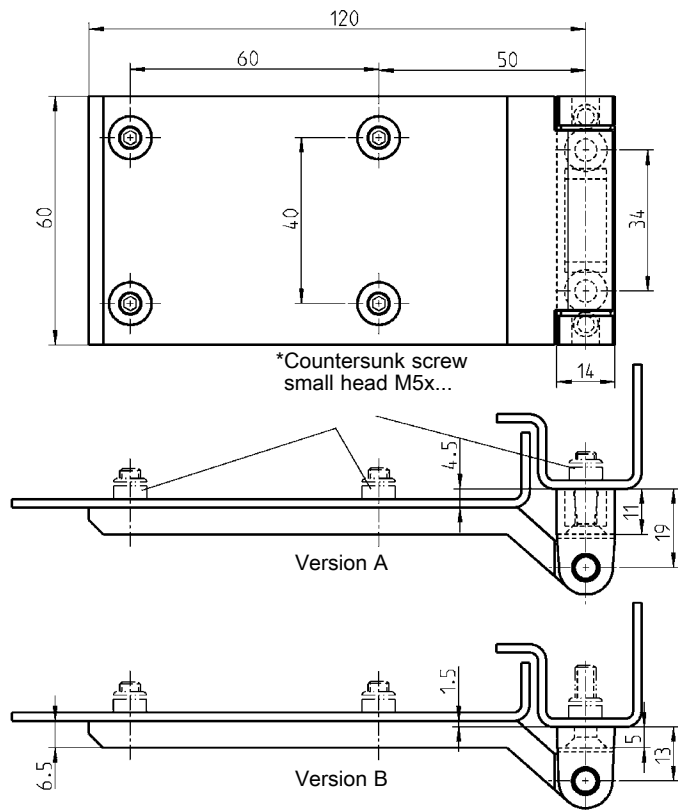
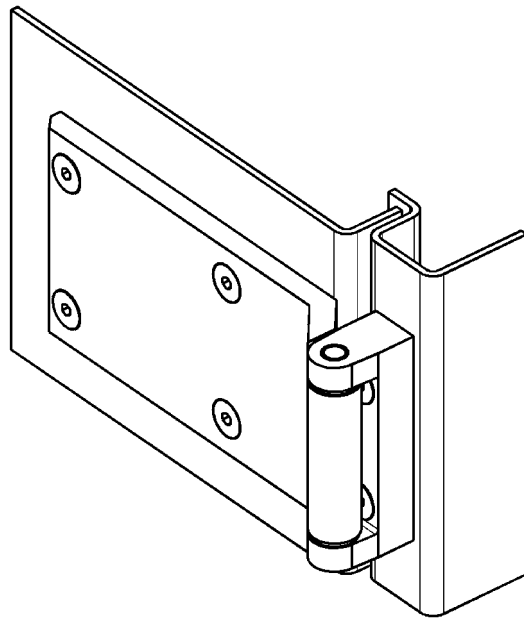
Small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047



4B-280 01/10

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
Index

180° Screw-on hinge PROGRAM 1054



*not included in the scope of delivery

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

Screw-on hinge zinc die, pin stainless steel, bushes polyamide

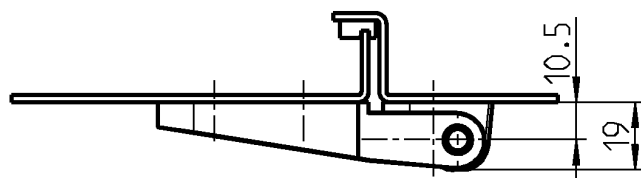
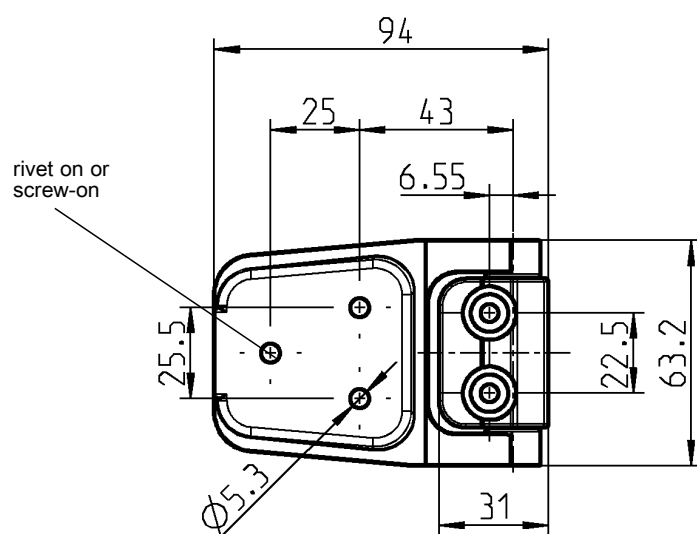
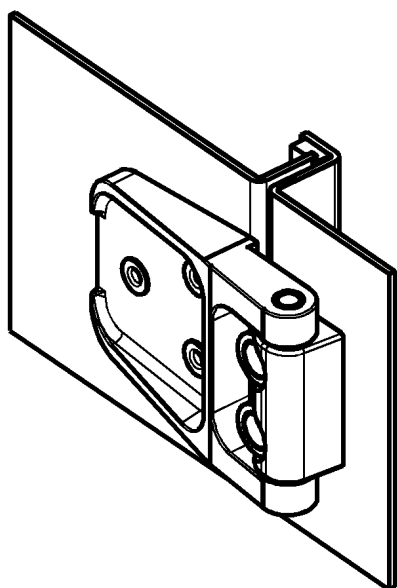
	Version A	Version B
black powder-coated	1054-U11	1054-U6
raw	1054-U13**	1054-U12**

** = Minimum order quantity 1000 pieces

4B-290

180° Hinge

PROGRAM 1054, 1091



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

Index



Application
Suitable for sandwich doors

Hinge polyamide GF black, pin m.s. zinc-plated

1091-U117

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

Index



Height adjustment ± 4 mm

Right-hand or left-hand version
by turning around the hinge leaf.

*not included in the scope of
delivery

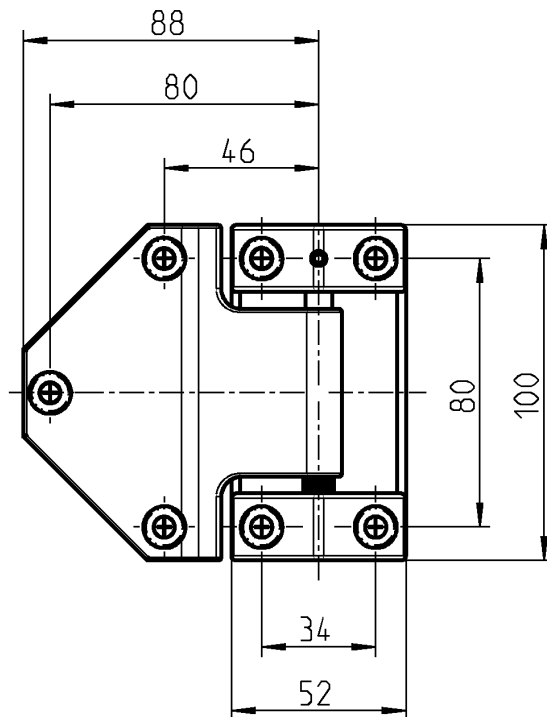
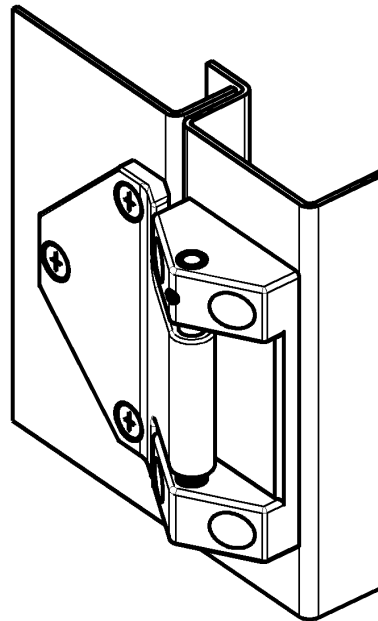
Small head = DIN ISO 2009,
2010, 7046-1, 7046-2, 7047

Further parts see page
– 2D Nut

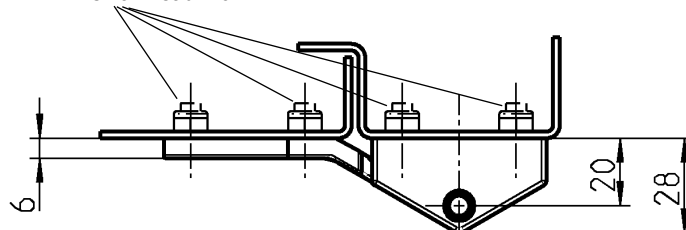
8E-120

® 180° Stainless steel screw-on hinge, adjustable

PROGRAM 1054



*Countersunk screw
small head M6x...



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

1054-U39

Pin hinge Program 1117



- 1 Pin hinge, weld-on
- 2 Pin hinge, screw-on and rivet-on
- 3 Pin hinge, clip-in

4C-120
4C-120
4C-130

4C-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

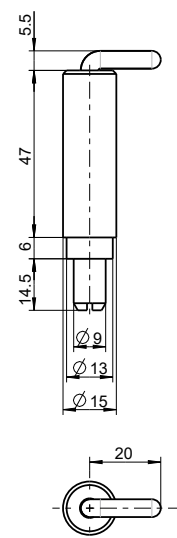
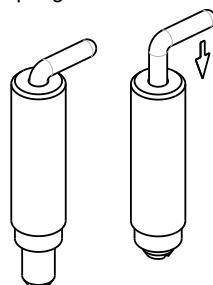
Index



Pin hinge PROGRAM 1117



spring-loaded

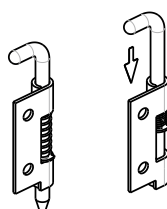


Pin hinge m.s. zinc-plated, spring material spring steel zinc-plated,
guide sleeve m.s. raw or AISI 304, pin AISI 303, spring stainless steel

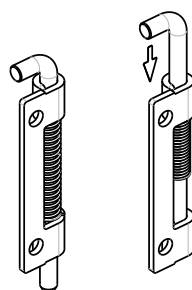
m.s.	1117-U1
AISI	1117-U1-PF



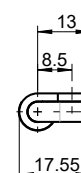
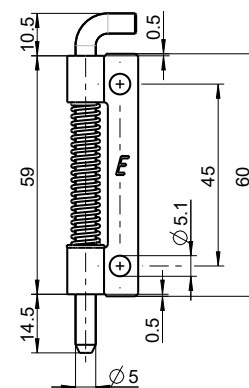
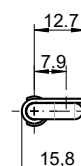
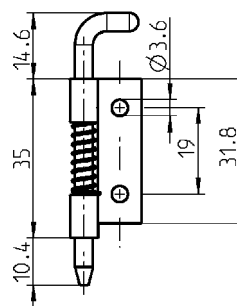
spring-loaded



Version A



Version B



Pin hinge m.s. zinc-plated, spring material spring steel zinc-plated

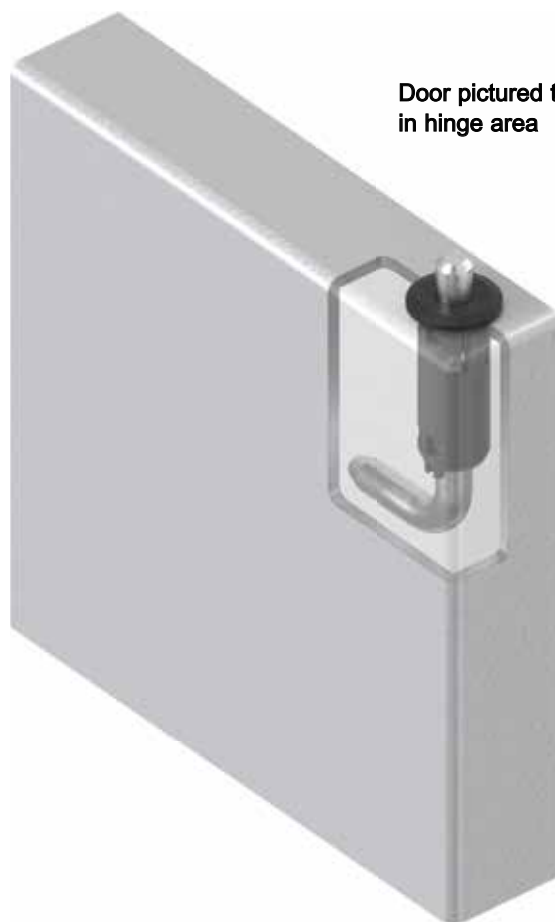
Version A, right	1117-U2	Version A, left	1117-U3
Version B, right	1117-U4	Version B, left	1117-U5

Pin hinge AISI 304, pin AISI 303, spring stainless steel

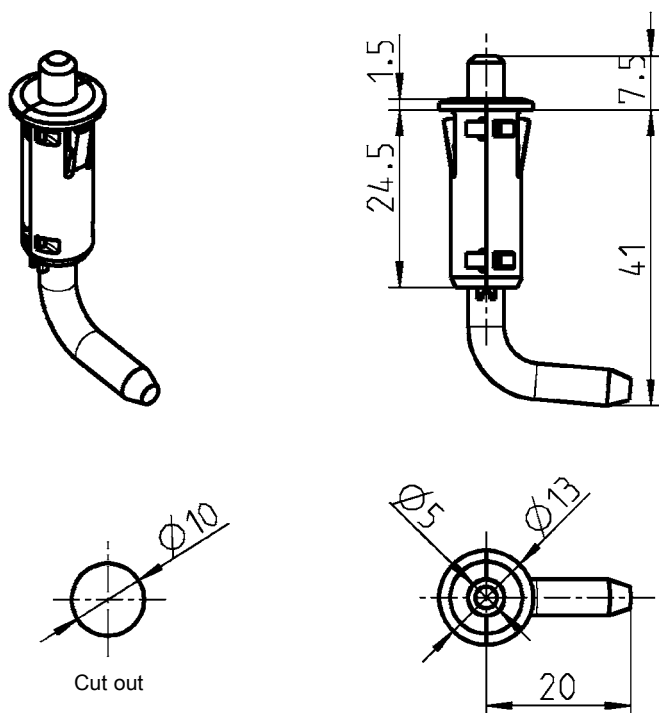
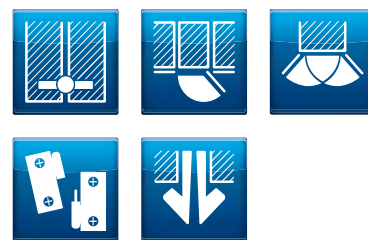
Version B, right	1117-U4-PC	Version B, left	1117-U5-PC
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Attention:
Version B not suitable for
screwing on

Pin hinge PROGRAM 1117



Door pictured transparent
in hinge area



Pin hinge, housing polyamide black, pin zinc die, spring material spring steel zinc-plated

Ts = 1.0	1117-U6
Ts = 1.5	1117-U6-01
Ts = 2.0	1117-U6-02

Attention:
For use with small doors only.

Examples:
Electric meter boxes
and tool boxes

Info	
1 Quarter turns	Beschlagteile
2 Rod controls	Notes:
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
9 Special catalogues	
Index	

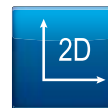
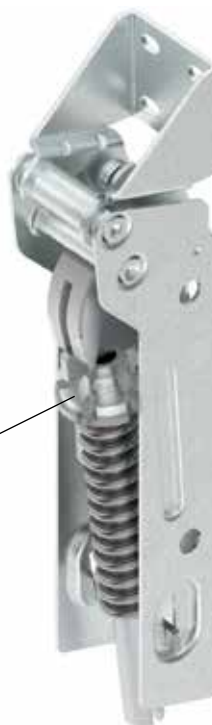
80° Counterbalancing spring-loaded hinge PROGRAM 1715

Covering caps depicted transparent



Depicted without covering caps

By means of the adjusting nut the torque can be set.

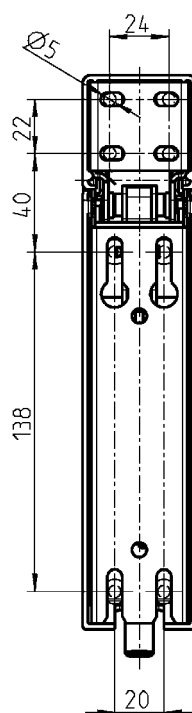
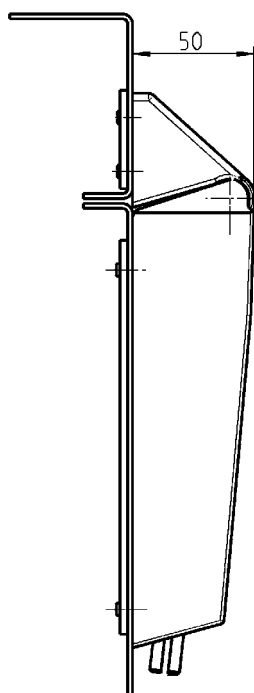
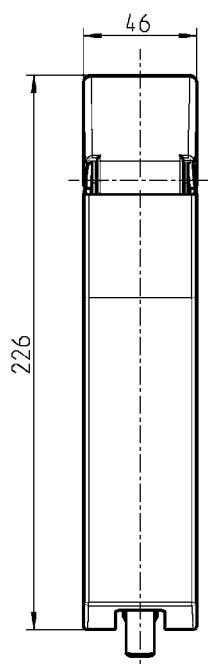


Application:

The spring-loaded hinge can be used e.g. for freezers.

The covering caps can be put on after assembly of the hinge.

*Lid weight with homogeneous distribution of weight



Spring-loaded hinge m.s. zinc-plated, joint 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

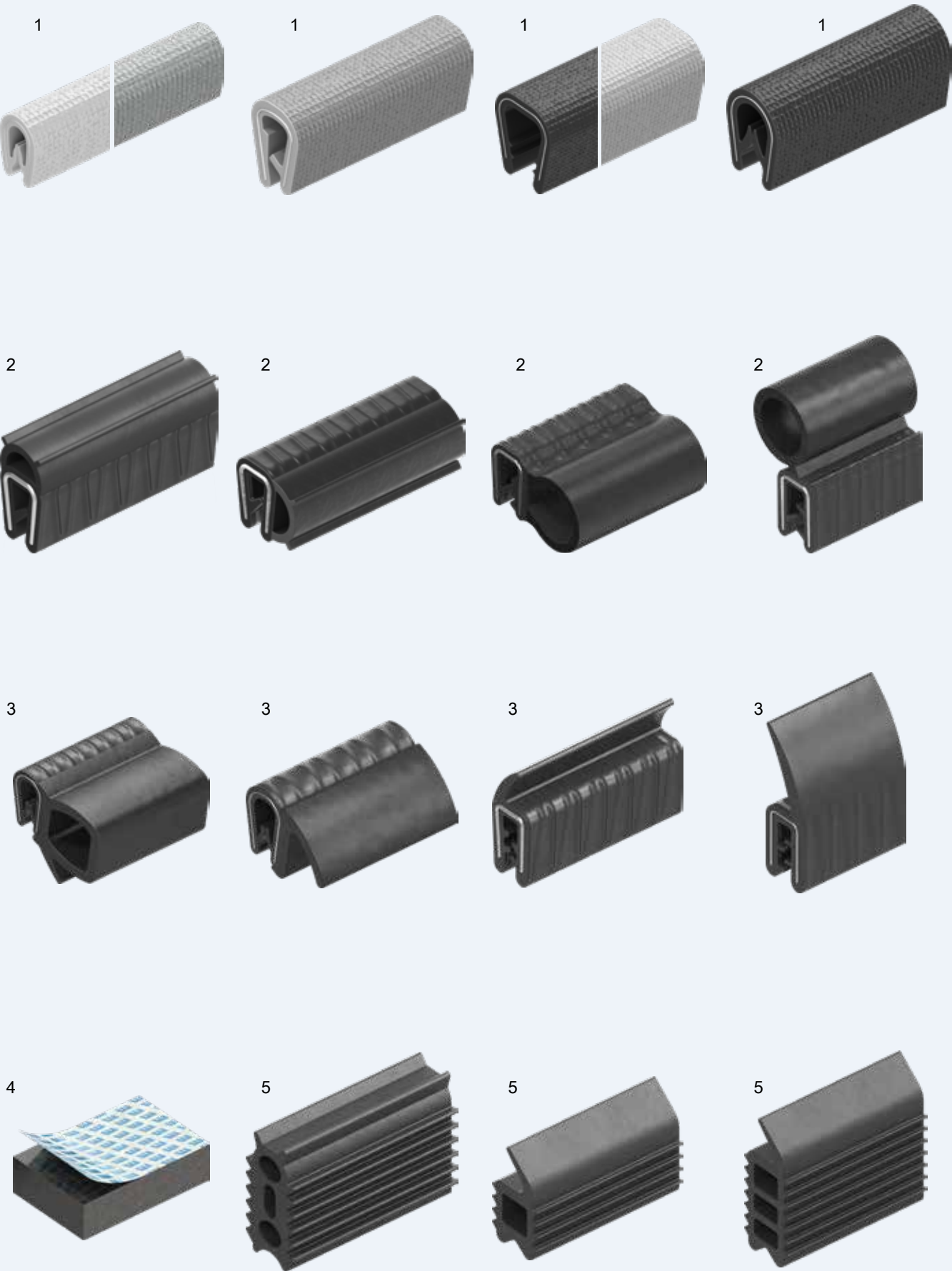
for a *lid weight in the range of 17 kg with 2 hinges

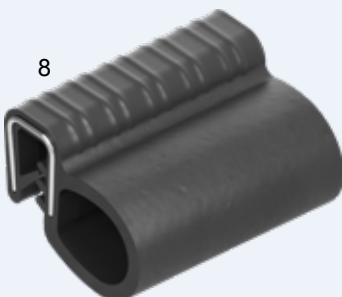
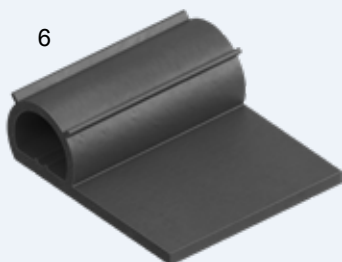
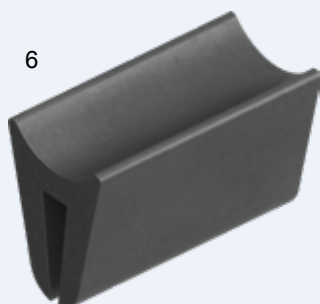
1715-U332

for a *lid weight in the range of 23 kg with 2 hinges

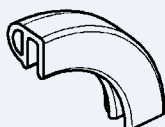
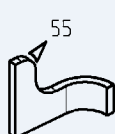
1715-U333

Seals, Edge protection and Cell sponge rubber

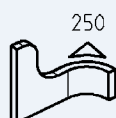




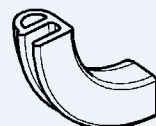
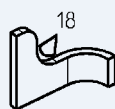
According to VDI 6022



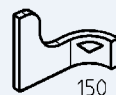
Smallest bending radius



Smallest bending radius

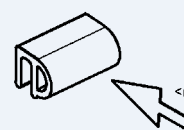


Smallest bending radius



Smallest bending radius

1	Edge protection	5A-110 to 5A-120
2	Seals, self-clamping	5A-130 to 5A-140
3	Seals, self-clamping	5A-150 to 5A-170
4	Cell sponge rubber, stretch-free and self-adhesive	5A-180
5	Seals secured in a U-section	5A-190
6	Seals	5A-200
7	EMC seals	5A-210 to 5A-220
8	Seals according to VDI 6022	5A-230
9	Seals made of fire protection material	5A-240
	Reference to special catalogue 'Sealing Technology'	5A-250



Compression

5A-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

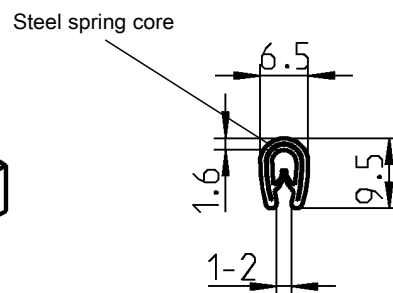
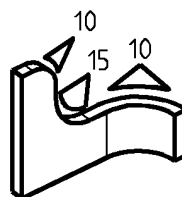
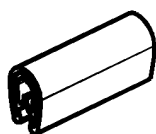
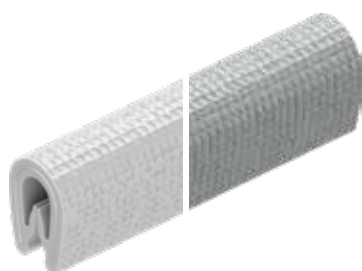
8 Miscellaneous

9 Special catalogues

Index

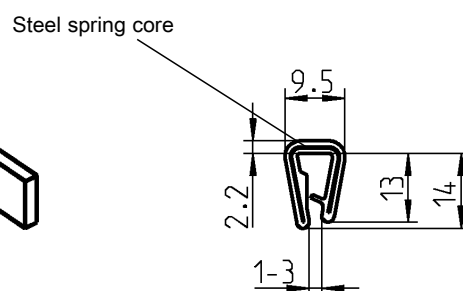
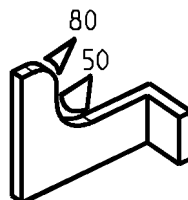
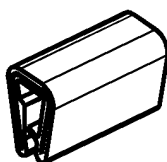
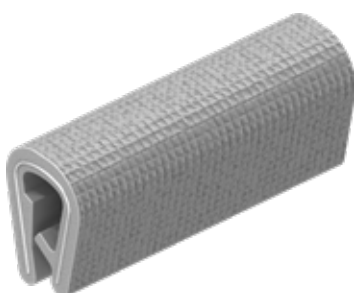
Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
Index

Edge protection
PROGRAM 1010



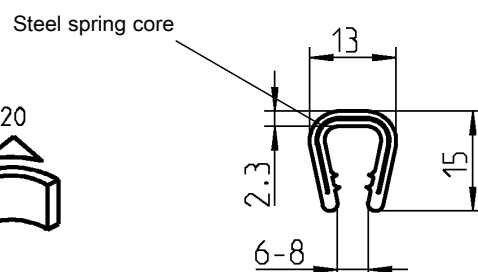
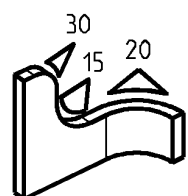
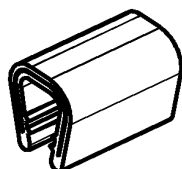
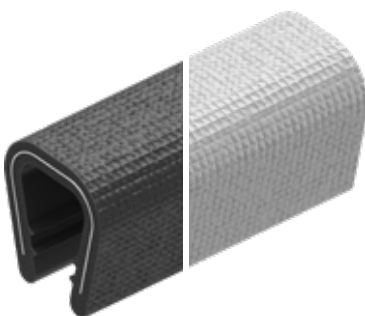
Edge protection PVC 70 ± 5 Shore A, colour of choice

white	1010-04-01
silver	1010-04-02



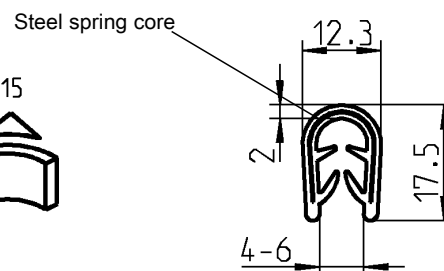
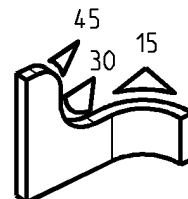
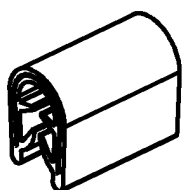
Edge protection PVC 70 ± 5 Shore A, light-grey

Steel spring core, continuous	1010-05
-------------------------------	---------



Edge protection PVC 70 ± 5 Shore A, colour of choice

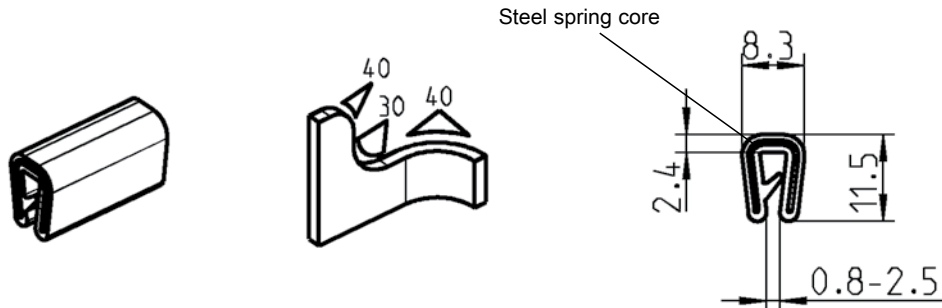
black	1010-06
light grey	1010-06-01



Edge protection PVC 70 ± 5 Shore A, colour of choice

black	1010-11
dark grey	1010-11-01

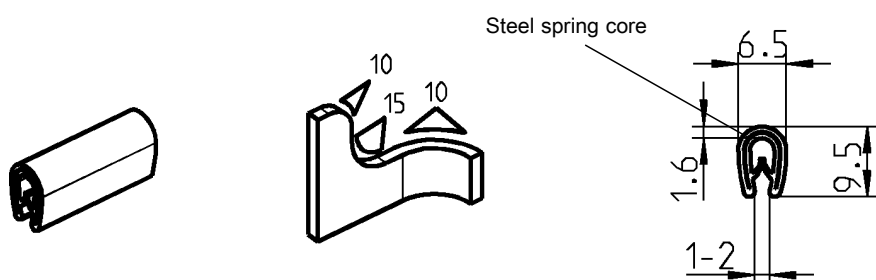
Edge protection PROGRAM 1010



Edge protection EPDM 60 ± 5 Shore A, black

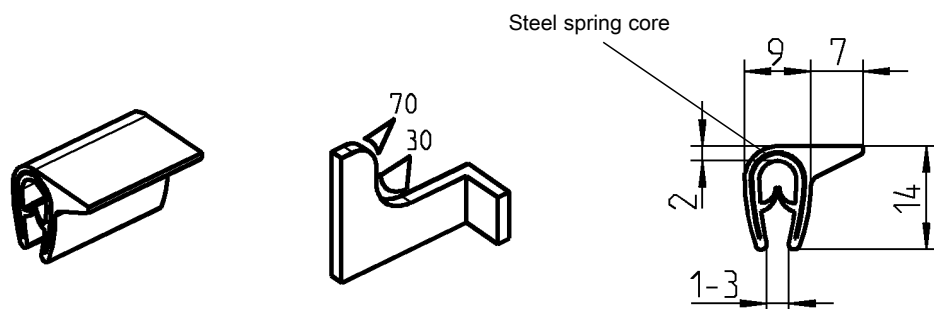
1010-12

Temperature resistance = -40°C to 90°C



Edge protection PVC 70 ± 5 Shore A, black

1010-02

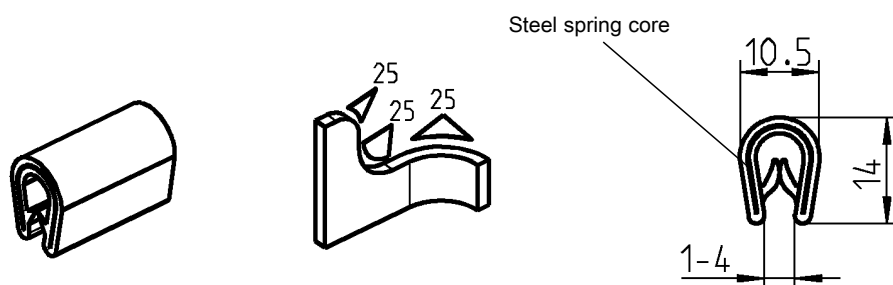


Edge protection PVC 70 ± 5 Shore A, anthracite

Steel spring core, continuous

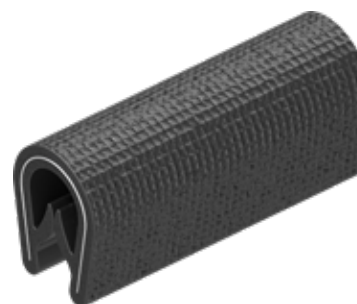
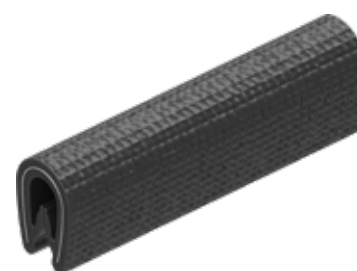
1010-09

Temperature resistance = -40°C to 90°C



Edge protection PVC 70 ± 5 Shore A, black

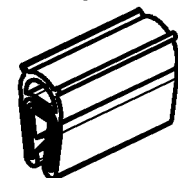
1010-01



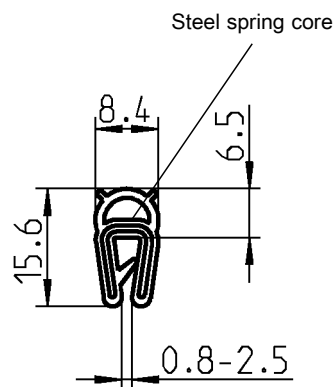
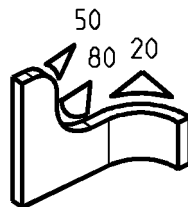
Seals, self-clamping PROGRAM 1011



c  [®] US *



compressible



Sealing profile foam rubber, clamping profile material of choice

Foam rubber EPDM, clamping profile EPDM 65 ± 5 Shore A, black

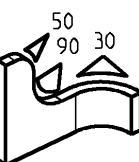
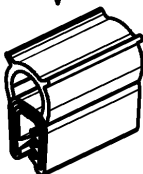
1011-10*

Foam rubber NBR, clamping profile NBR 60 ± 5 Shore A, black

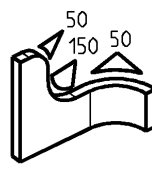
1011-50



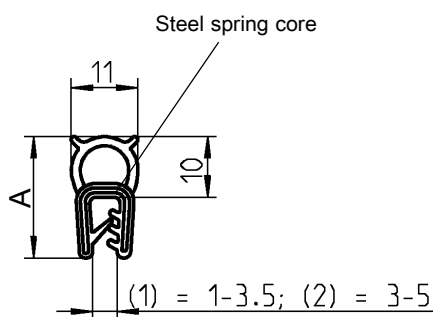
c  [®] US *



1011-05, -15



1011-47, -49



compressible

Sealing profile foam rubber, clamping profile material of choice

Foam rubber EPDM, clamping profile EPDM 65 ± 5 Shore A, black

A

20 1011-05* (1)

Foam rubber NBR, clamping profile NBR 60 ± 5 Shore A, black

21 1011-15 (1)

Foam rubber EPDM, clamping profile EPDM 65 ± 5 Shore A, black

21 1011-49 (2)

Foam rubber NBR, clamping profile NBR 60 ± 5 Shore A, black

21 1011-47 (2)

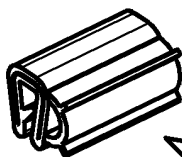


*  [®] US

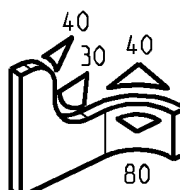
UL 50

UL 94-HB

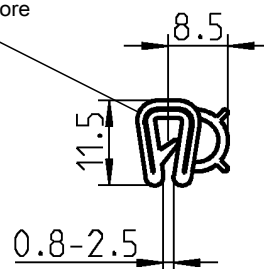
c  [®] US *



compressible



Steel spring core

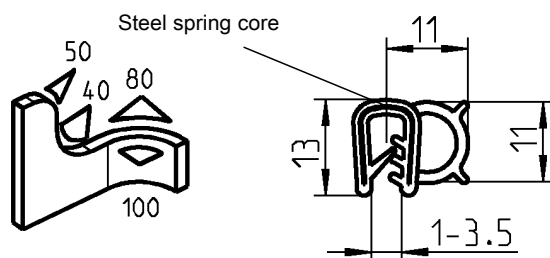
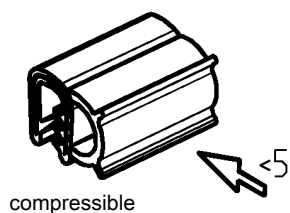


Sealing profile foam rubber EPDM, clamping profile EPDM 65 ± 5 Shore A, black

1011-09*

Seals, self-clamping PROGRAM 1011

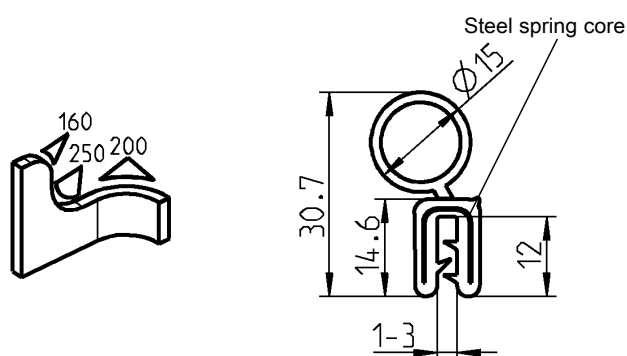
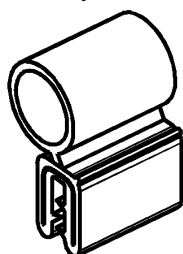
c **RU** [®] **US** *



Sealing profile foam rubber, clamping profile material of choice

Foam rubber EPDM, clamping profile EPDM 65 ± 5 Shore A, black	1011-06*
Foam rubber NBR, clamping profile NBR 60 ± 5 Shore A, black	1011-16

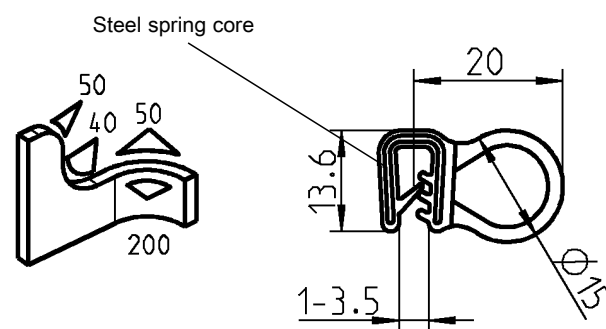
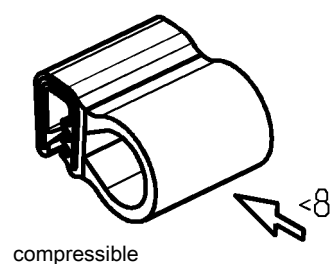
<10



Sealing profile foam rubber EPDM, clamping profile EPDM 60 ± 5 Shore A, black

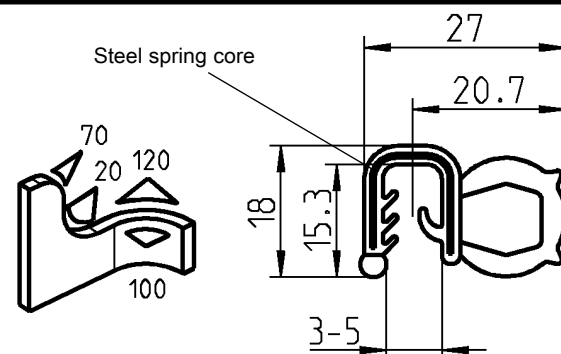
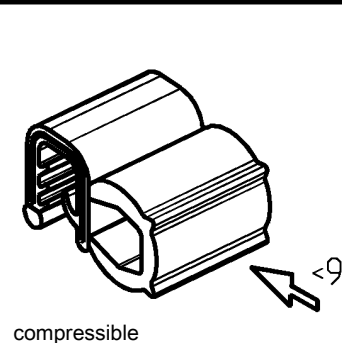
1011-34

c **RU** [®] **US** *



Sealing profile foam rubber EPDM, clamping profile EPDM 65 ± 5 Shore A, black

1011-12*



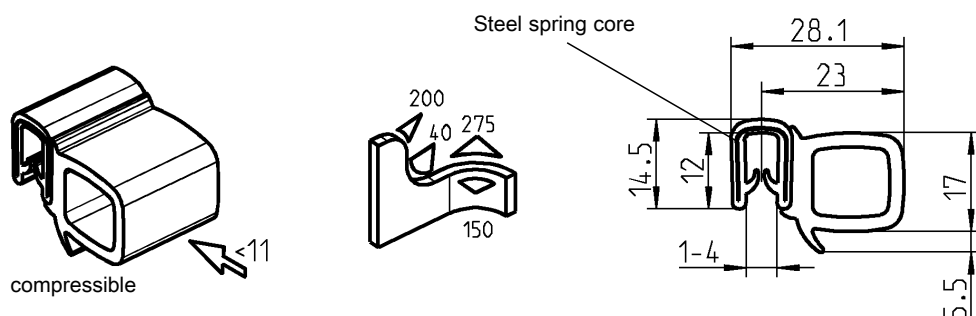
* **c RU US**
UL 50
UL 94-HB

Sealing profile foam rubber EPDM, clamping profile EPDM 65 ± 5 Shore A, black

Bore holes approx. every 300 mm	1011-45
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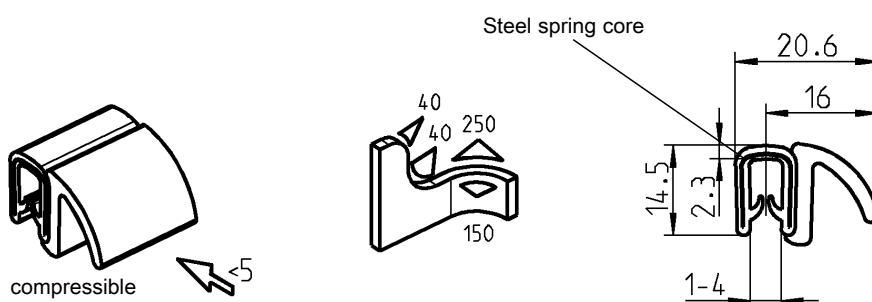
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3 Locking systems
4 Hinges
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Seals, self-clamping PROGRAM 1011



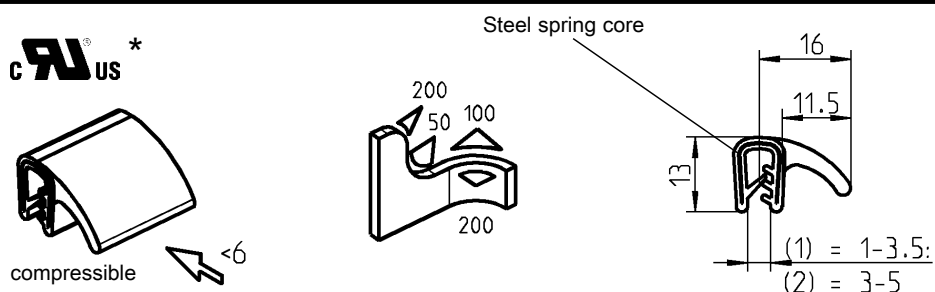
Sealing profile foam rubber EPDM, clamping profile PVC 70 ± 5 Shore A, black

1011-26



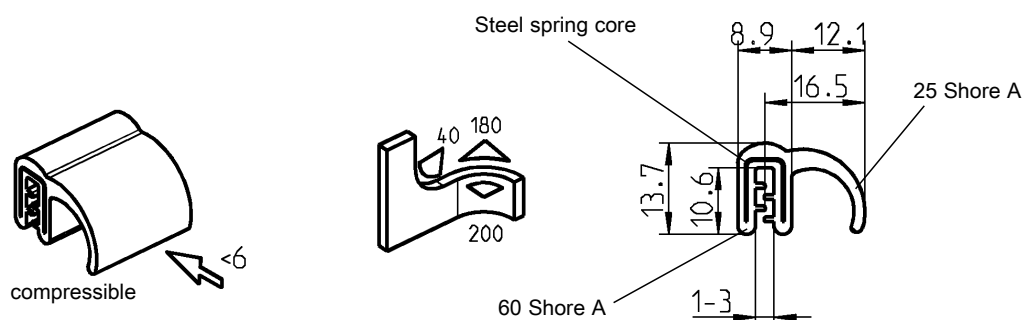
Sealing profile foam rubber EPDM, clamping profile PVC 70 ± 5 Shore A, black

1011-17



Sealing profile foam rubber, clamping profile material of choice

Foam rubber EPDM, clamping profile EPDM 65 ± 5 Shore A, black	(1)	1011-08*
Foam rubber NBR, clamping profile NBR 60 ± 5 Shore A, black	(1)	1011-46
Foam rubber NBR, clamping profile NBR 60 ± 5 Shore A, black	(2)	1011-48

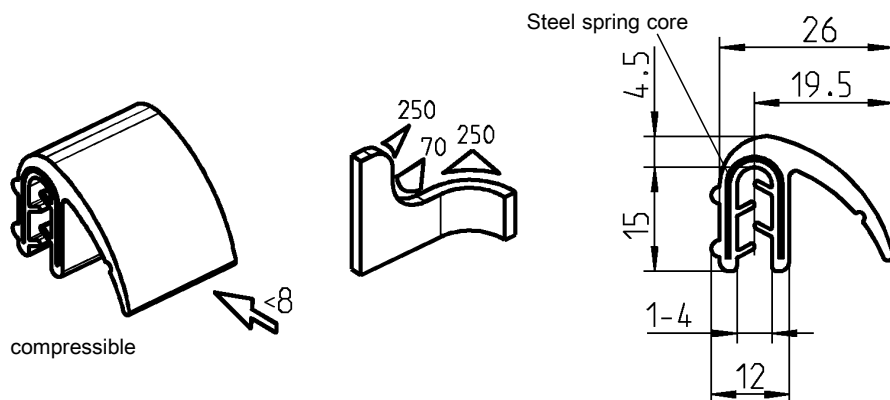


Sealing profile foam rubber EPDM 25 Shore A, clamping profile EPDM 60 ± 5 Shore A, black

1011-41

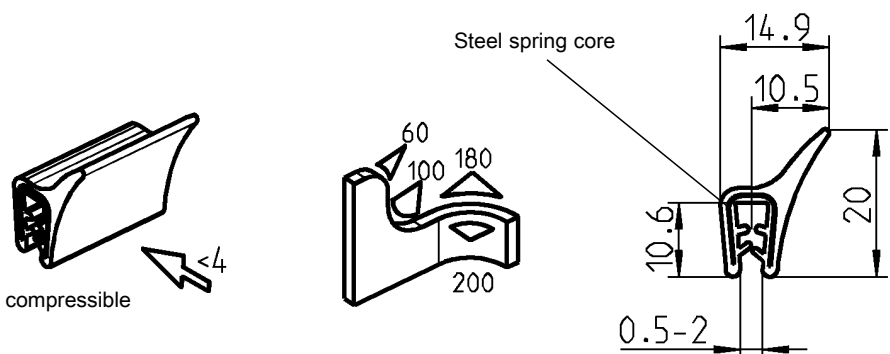
* **UL** **US**
UL 50
UL 94-HB

Seals, self-clamping PROGRAM 1011



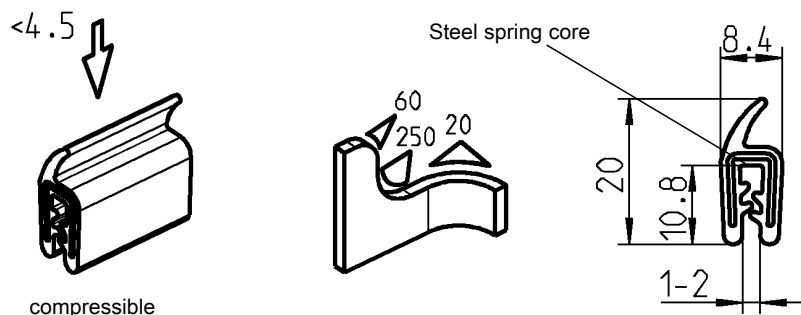
Sealing profile and clamping profile EPDM 60 ± 5 Shore A, black

1011-40



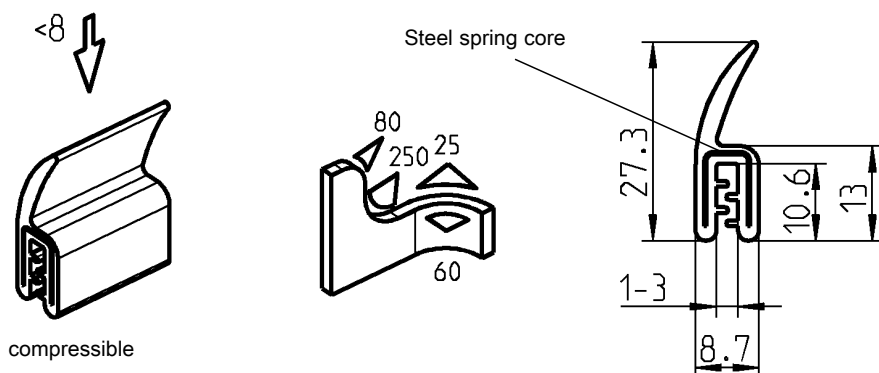
Sealing profile and clamping profile EPDM 60 ± 5 Shore A, black

1011-44



Sealing profile and clamping profile EPDM 60 ± 5 Shore A, black

1011-31



Sealing profile and clamping profile EPDM 60 ± 5 Shore A, black

1011-32



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

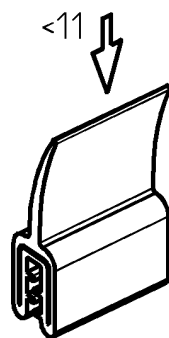
6 Handles

7 Aluminium windows

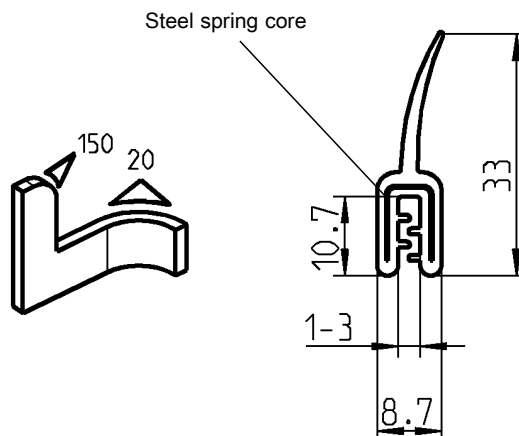
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9 Special catalogues

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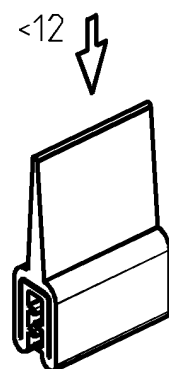


compressible

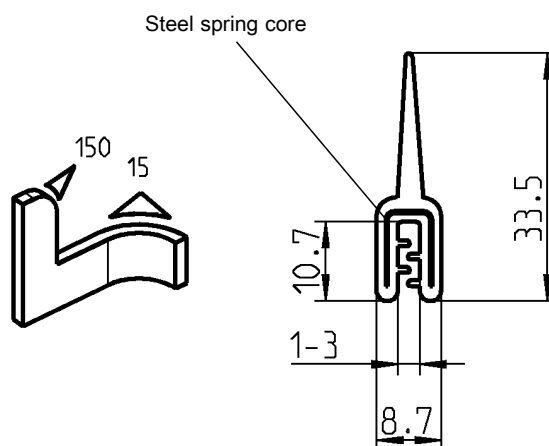


Sealing profile EPDM 60 ± 5 Shore A, black

1011-30

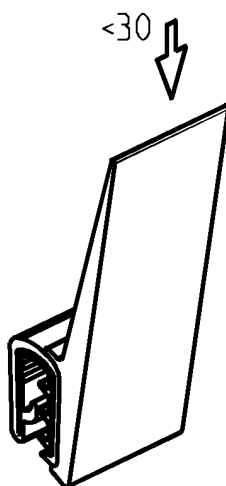


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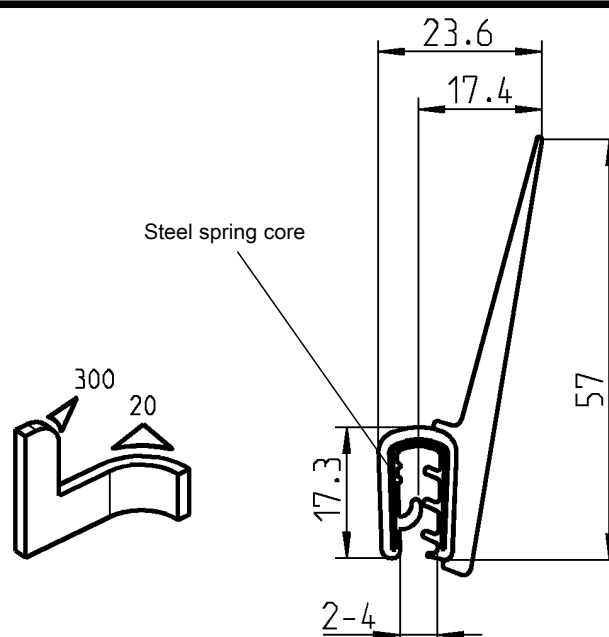


Sealing profile and clamping profile EPDM 60 ± 5 Shore A, black

1011-36



compressible



Sealing profile foam rubber EPDM, clamping profile PVC 70 ± 5 Shore A, black

1011-27

Cell sponge rubber

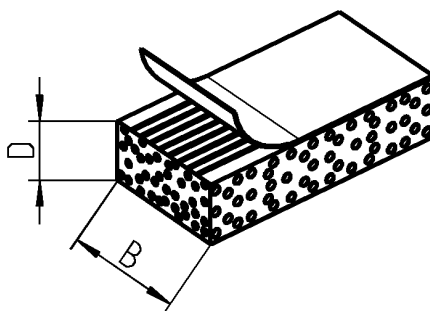
PROGRAM 1016

Delivery lengths:

For depths 3 – 7 = Coil length a 10 m

For depths 8 – 10 = Coil length a 5 m

For depths 11 = in stripes a 1 m

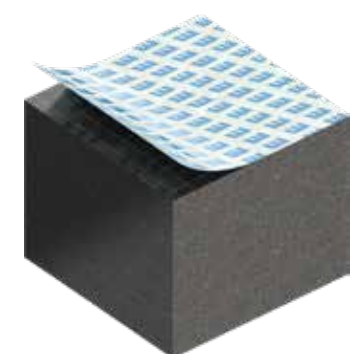
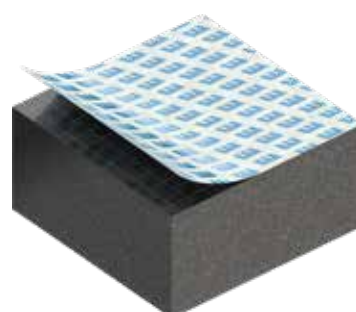
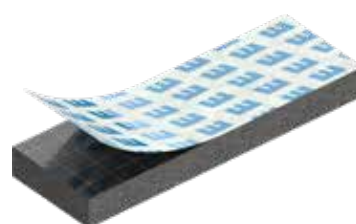


Dimension available from stock.
All other dimensions available in 2 to 3 weeks.

Special lengths available in 6 to 8 weeks. Minimum order quantity on request
(Item no.: 1016- ... - L mm) e.g. 1016-118-1400

Cell sponge rubber material of choice, stretch-free and self-adhesive, black

Dim.				Dim.			
Width	Depth	EPDM	CR	Width	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
10	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
15	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
20	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

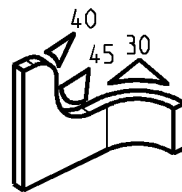
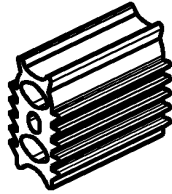


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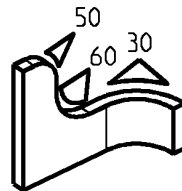
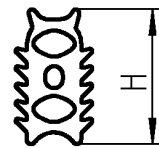
Seals secured in a U-section
PROGRAM 1003



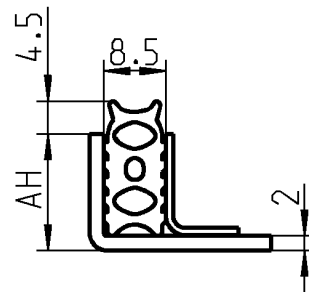
cRU[®] US *



1003-11-N - 1003-13-N

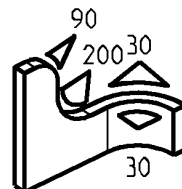


1003-14-N - 1003-24-N

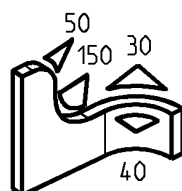
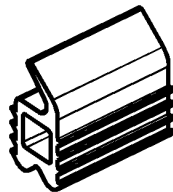
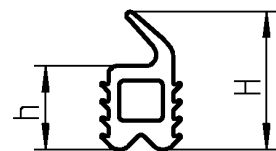


4-Lip profile foam rubber EPDM 25 Shore A, black

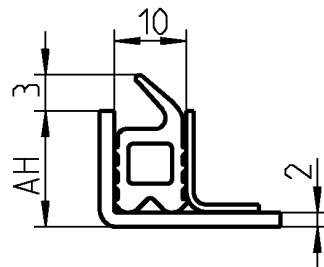
AH	Height H	
16	18.5	1003-11-N*
18	20.5	1003-12-N*
20	22.5	1003-13-N*
22	24.5	1003-15-N*
24	26.5	1003-24-N*
26	28.5	1003-14-N*



1003-01



1003-02 - 1003-04



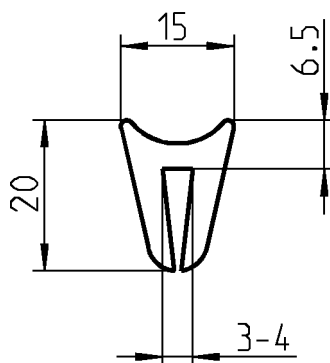
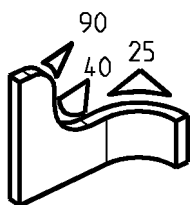
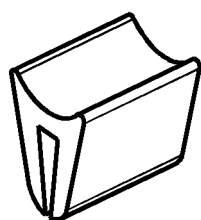
Lip profile EPDM 55 Shore A, black

AH	H	h	Number of chambers	
16	17	9.5	1	1003-04
18	19	11.5	1	1003-03
20	21	13.5	2	1003-02
26	27	19.5	3	1003-01

*** cRU[®] US**
UL 50
UL 94-HB

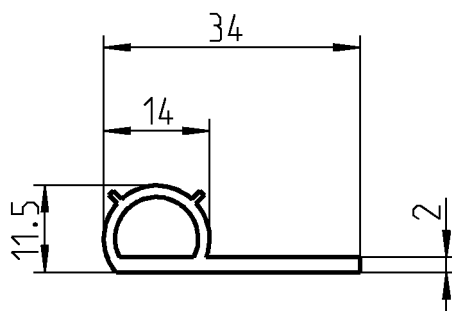
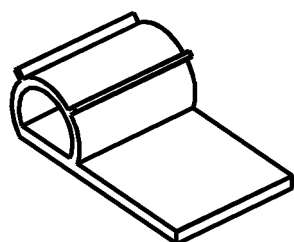
Seals

PROGRAM 1038, 1101



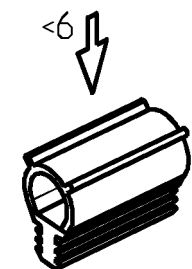
Sealing profile EPDM 55 Shore A, black

1038-07

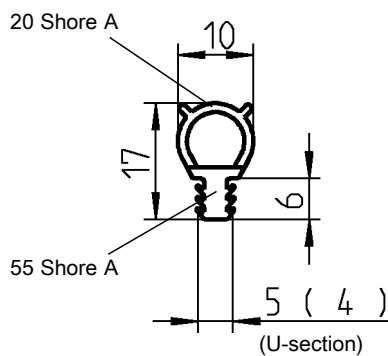
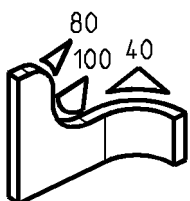


Sealing profile EPDM 55 Shore A, black

1038-10

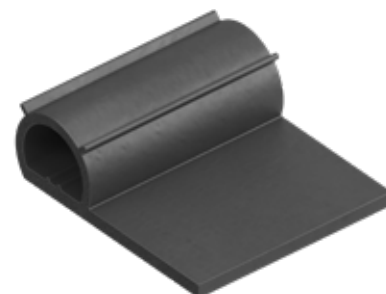
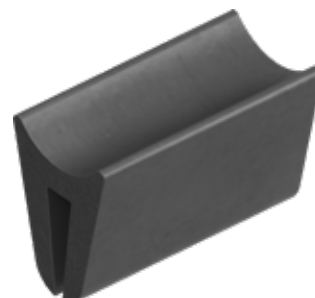


compressible



Sealing profile foam rubber EPDM, clamping profile EPDM 55 ± 5 Shore A, black

1101-03



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EMC seals PROGRAM EMC

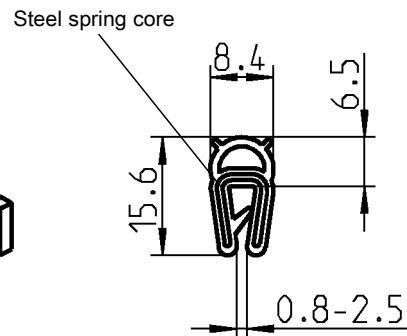
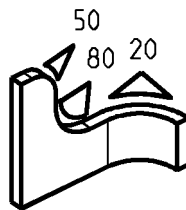
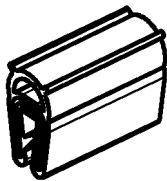
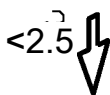
EMC seals



Attention:

Please provide a contact area for all EMC seals.

Further profiles on request.



Sealing profile foam rubber EPDM, clamping profile EPDM 65 ± 5 Shore A, black

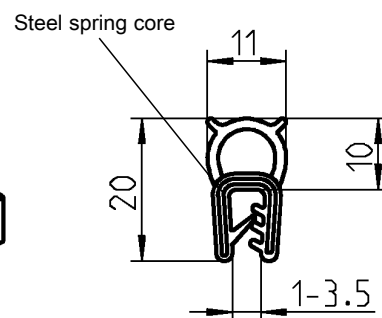
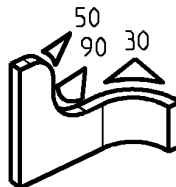
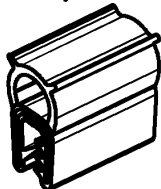
1011-10-E

EMC seals



Further parts see page

- EMC seal 5A-220
- EMC conductive tape 5A-220



Sealing profile foam rubber EPDM, clamping profile EPDM 65 ± 5 Shore A, black

1011-05-E

Shield electromagnetic radiation

Electrical and electromagnetic fields can become a source of interference for technical equipment. Current carrying cables, electrical appliances and electronic controls generate such electromagnetic fields during operation.

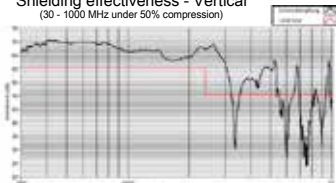
It may therefore be necessary to shield switch and control cabinets with EMC protection measures. In principle, it is always a matter of forming a kind of "Faraday cage" that prevents either the propagation or the irradiation of electromagnetic waves.

The solution offered by EMKA consists of a completely jacketed EPDM seal and an EMC conductive tape. This combination closes the slot antenna created by the door opening and diverts induced eddy currents to ground.

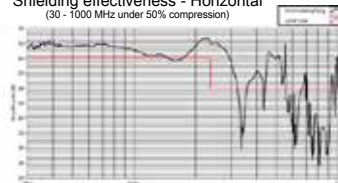
To ensure full-surface electrical contact with the housing, the contactive tape of metallized fleece is bonded to the housing (frame edge and door contact surface) with electrically conductive adhesive before powder coating. After stove enamelling, the mask is removed. This results in a corrosion-resistant, electrically conductive surface.

EMKA has carried out extensive test series according to DIN EN 61587-3 "Shielding tests for cabinets and subracks" to determine the shielding effectiveness with closed metal enclosures (see graphics below).

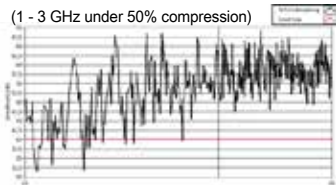
Shielding effectiveness - Vertical
(30 - 1000 MHz under 50% compression)



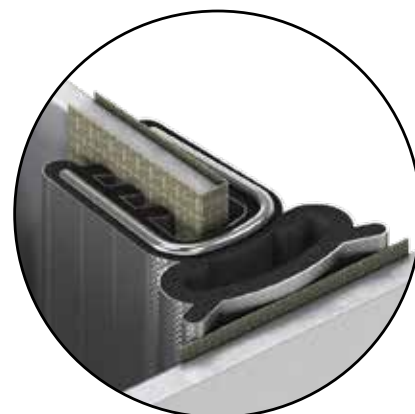
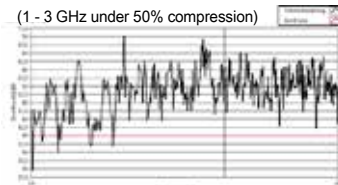
Shielding effectiveness - Horizontal
(30 - 1000 MHz under 50% compression)



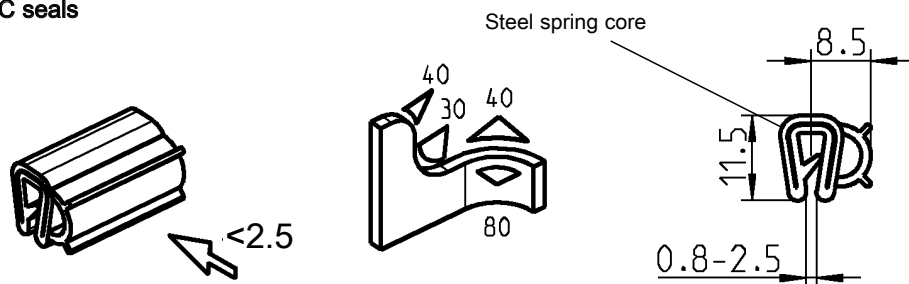
(1 - 3 GHz under 50% compression)



(1 - 3 GHz under 50% compression)



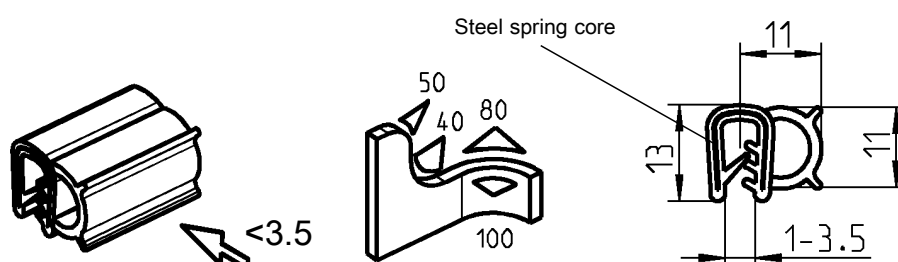
EMC seals



Sealing profile foam rubber EPDM, clamping profile EPDM 65 ± 5 Shore A, black

1011-09-E

EMC seals



Sealing profile foam rubber EPDM, clamping profile EPDM 65 ± 5 Shore A, black

1011-06-E

EMC conductive tape

- For painting and contact
- Highly-conductive adhesive for creating paint-free contact areas
- Length 25 m

Note:

- The surface to be coated must be free of grease and dust.
- Remove the cover from the contact strip and stick the conductive tape onto the contact surfaces on the door and frame with some pressure.
For better adhesion the conductive tape is wider than the mask.
- Powder-coating can then be applied, whereby the mask prevents the coating adhering to the conductive tape. The baking temperature for powder-coating should be as low as possible.
- After powder-coating, the mask can be easily removed (preferably while still warm) while the conductive contact tape remains securely in place.
- The continuous operating temperature should not exceed 90° C.

EMC conductive tape

Width in mm	Suitable for EMC seal	
12.7	for contact surface on door side	1016-220-127E
22	1011-09-E; 1011-10-E	1016-220-220E
25.4	1011-05-E; 1011-06-E	1016-220-254E

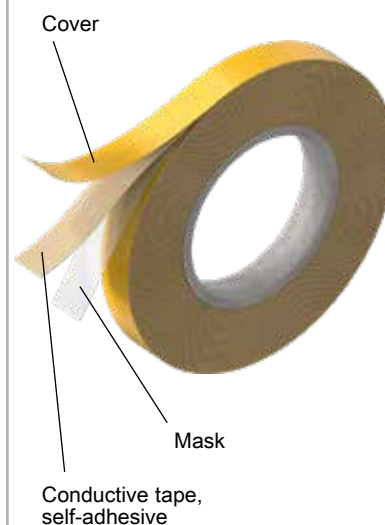
Further dimensions on request



Attention:

Please provide a contact area for all EMC seals.

Further profiles on request.



Further parts see page
– EMC seal

5A-210

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2 Rod controls
3 Locking systems
4 Hinges
5 Seals
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7 Aluminium windows
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Seals according to VDI 6022

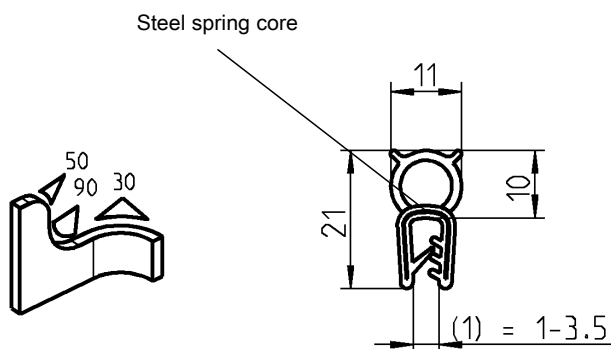
PROGRAM 1011



According to VDI 6022



compressible

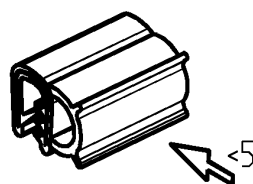


Sealing profile EPDM 45 ± 5 Shore A, clamping profile EPDM 60 ± 5 Shore A, black

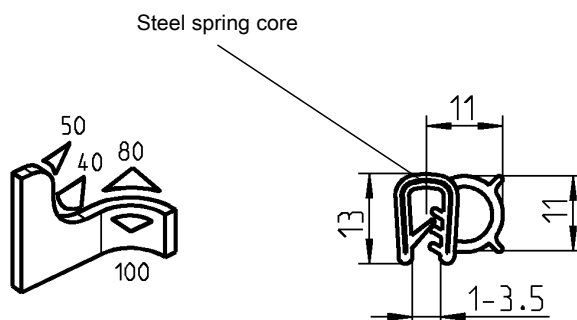
1011-05-09



According to VDI 6022



compressible

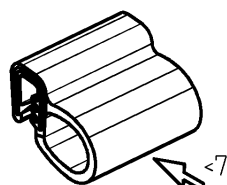


Sealing profile EPDM 45 ± 5 Shore A, clamping profile EPDM 60 ± 5 Shore A, black

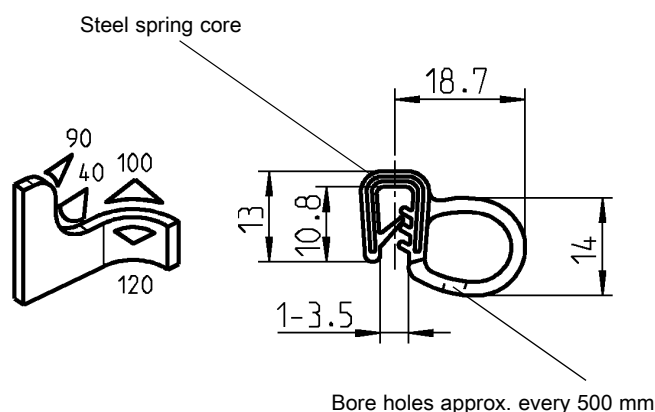
1011-06-09



According to VDI 6022



compressible

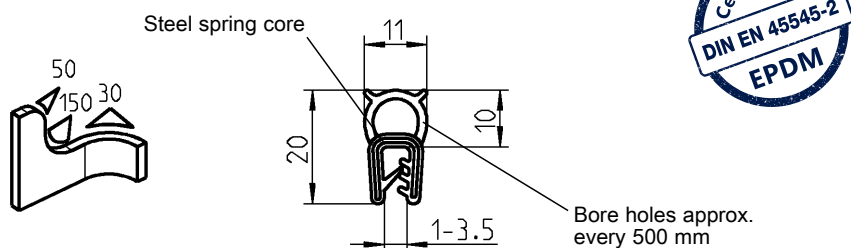


Sealing profile foam rubber EPDM, clamping profile EPDM 64 ± 5 Shore A, black

1011-19-09

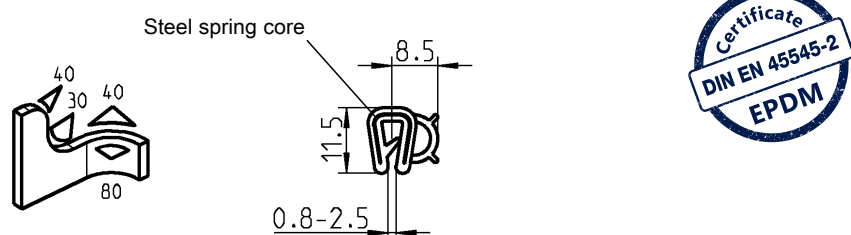
Seals made of fire protection material (EPDM)

PROGRAM 1011



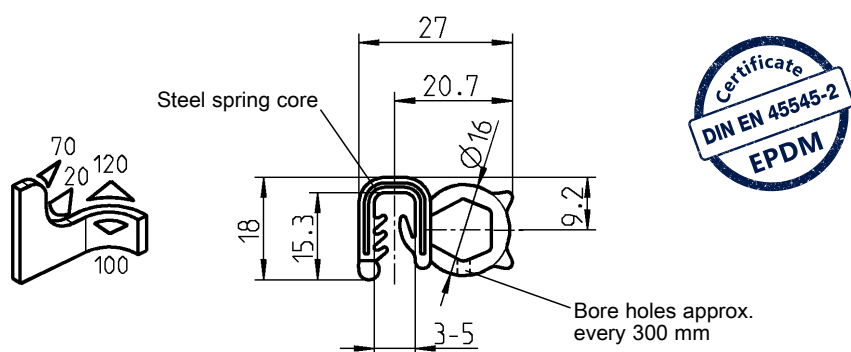
Sealing profile made of fire protection material foam rubber EPDM, clamping profile EPDM 60 ± 5 Shore A, black

1011-05-FR01



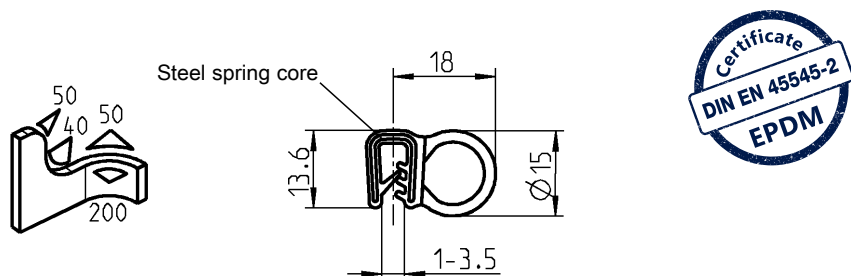
Sealing profile made of fire protection material foam rubber EPDM, clamping profile EPDM 60 ± 5 Shore A, black

1011-09-FR01



Sealing profile made of fire protection material foam rubber EPDM, clamping profile EPDM 60 ± 5 Shore A, black

1011-45-FR01



Sealing profile made of fire protection material foam rubber EPDM, clamping profile EPDM 60 ± 5 Shore A, black

1011-51-FR01



Product benefits

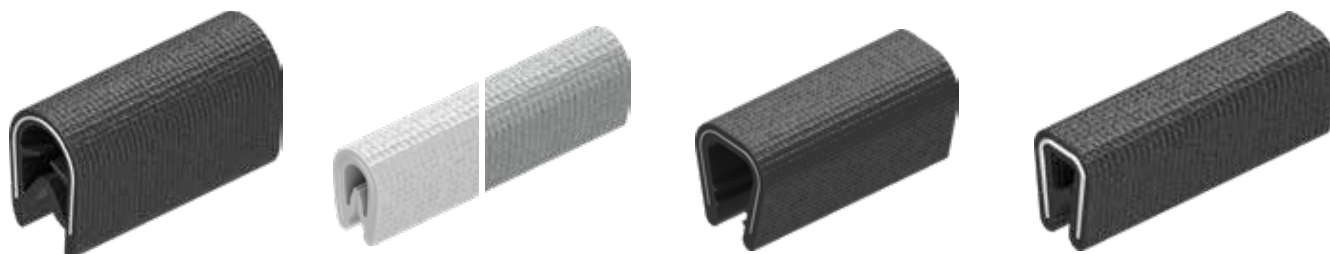
- Flame retardant for more safety
- Significant cost savings compared to silicone seals
- Readily customized frames and rings according to customer specifications possible
- Profile geometry also individually according to customer requirements
- Reliable top quality from in-house production in Europe



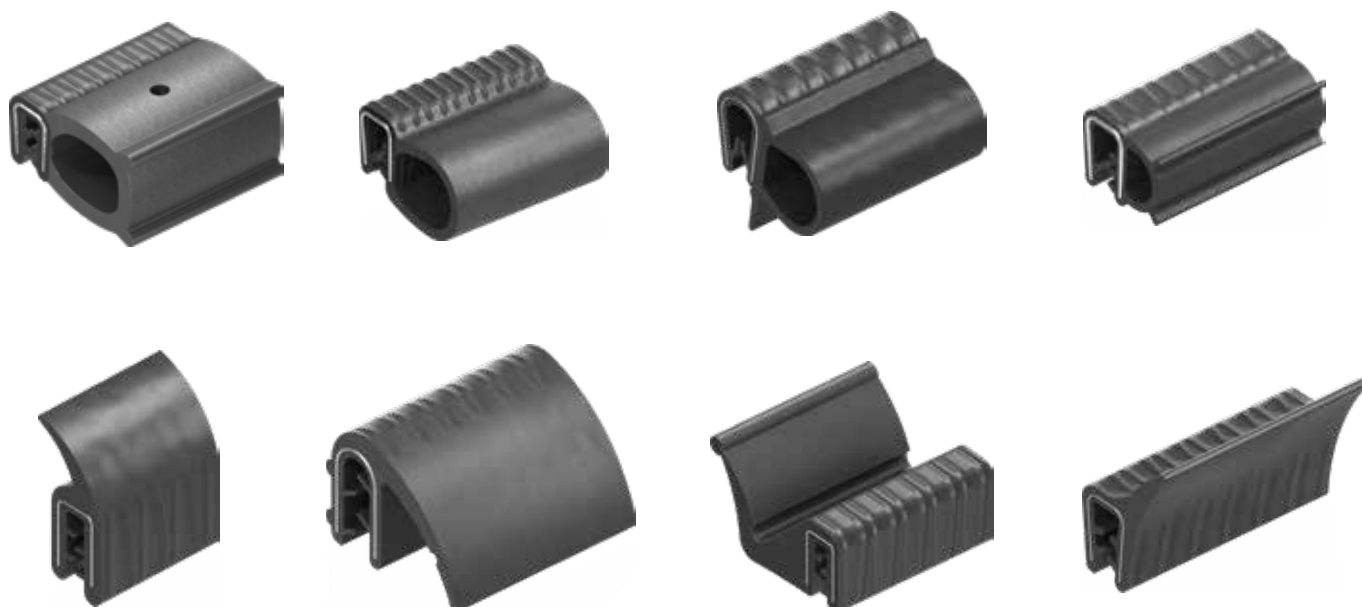
Seals

Extract from the special catalogue

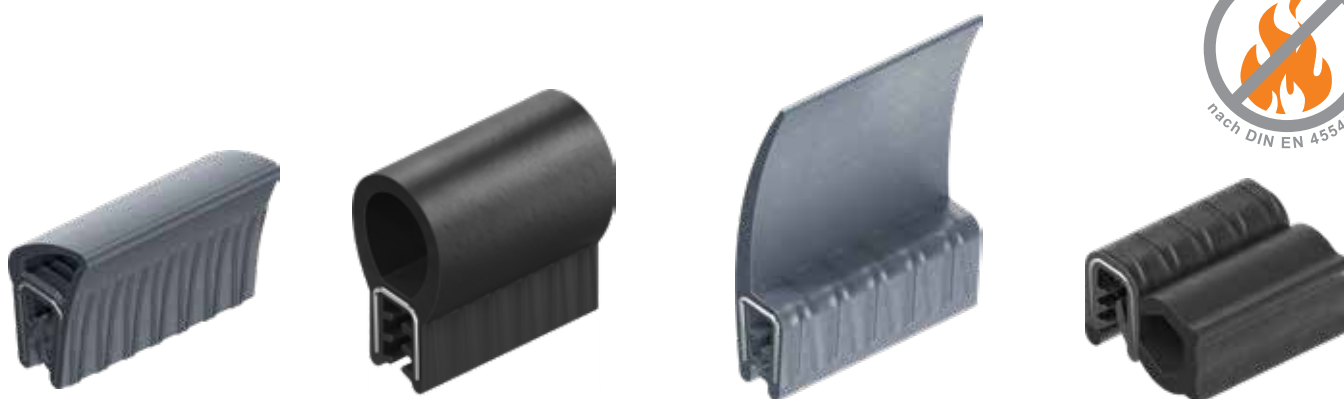
Edge protection profiles



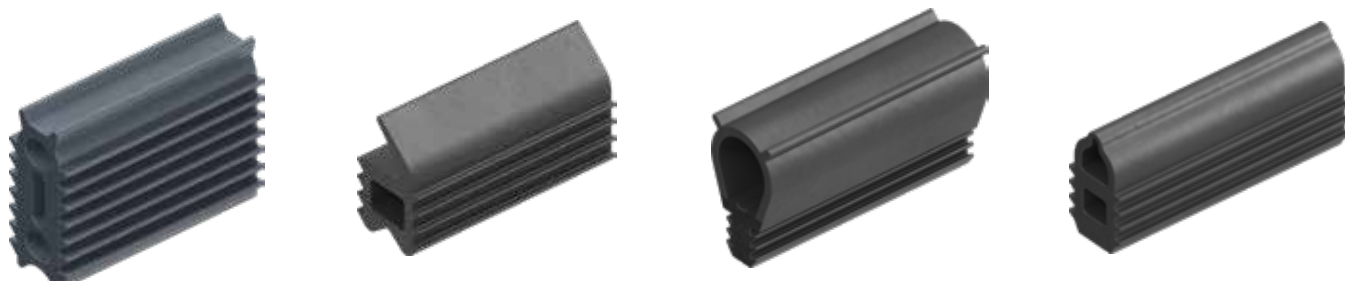
Self-clamping sealing profiles



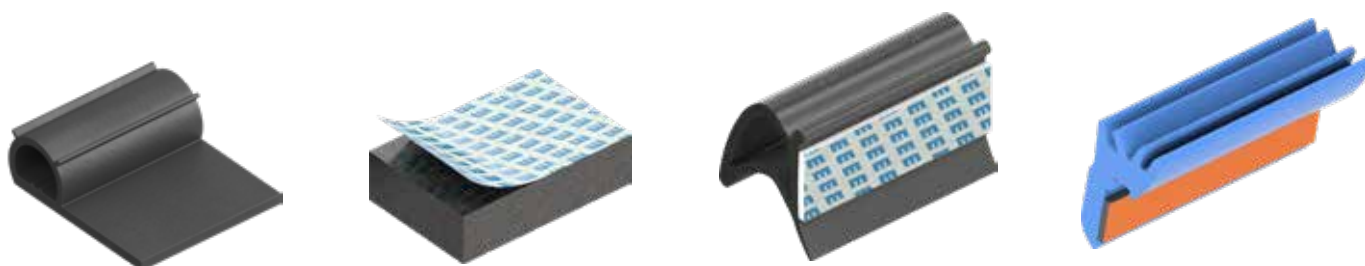
Self-clamping sealing profiles made of fire protection material



U-section profiles



Profiles with adhesive tape



Clamping and holding profiles



All standard profiles as well as further information on the subject of seals can be found in our 108-page special catalogue:

Sealing Technology made to measure - Profiles and Frames from In-House Production

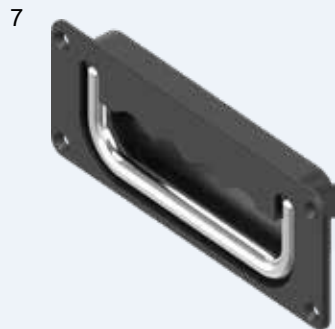


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Hinges	3
Locking systems	2
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Quarter turns	1
Info	

Handles Program 1095





- | | | |
|---|--|------------------|
| 1 | Bow-type handles in different sizes | 6A-120 to 6A-210 |
| 2 | Stainless steel bow-type handle for hygienic areas | 6A-200 |
| 3 | Handle | 6A-440 |
| 4 | Machine handle | 6A-210 |
| 5 | Tube handle in various lengths | 6A-320 to 6A-360 |
| 6 | Handle in various lengths or fixed lengths | 6A-220, 6A-240 |
| 7 | Chest handle in various lengths | 6A-420 |
| 8 | Edge handle in various lengths | 6A-420 |

6A-100

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Bow-type handle PROGRAM 1095



Note:

Antimicrobial additive:
Biomaster silver biocide.
Please handle biocides
responsibly.



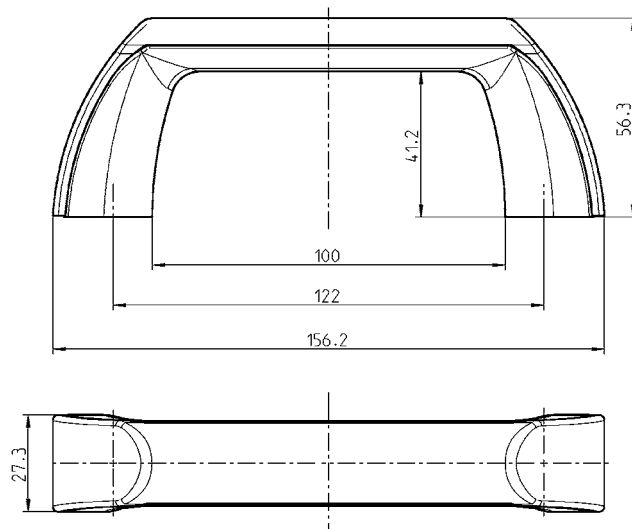
Small head = DIN ISO 2009,
2010, 7046-1, 7046-2, 7047

Fixing material is not included
in scope of delivery.

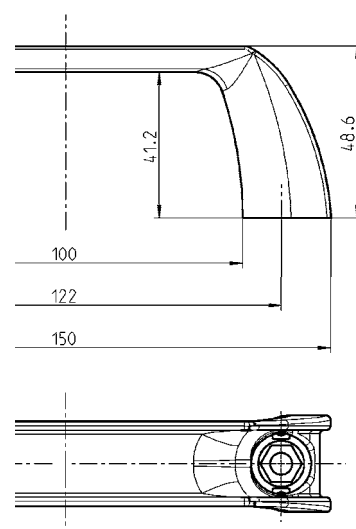
6A-120 07/20

(6A-140)

Bow-type handle with cover



Bow-type handle without cover



Bow-type handle polyamide GF black

Handle for hexagon head screw or cylinder head screw M6
acc. to DIN 4017/1207

1095-35

Handle for countersunk screw small head M5 or blind rivet Ø 4.8 mm

1095-36

Cover for bow-type handle polyamide GF black

1095-37

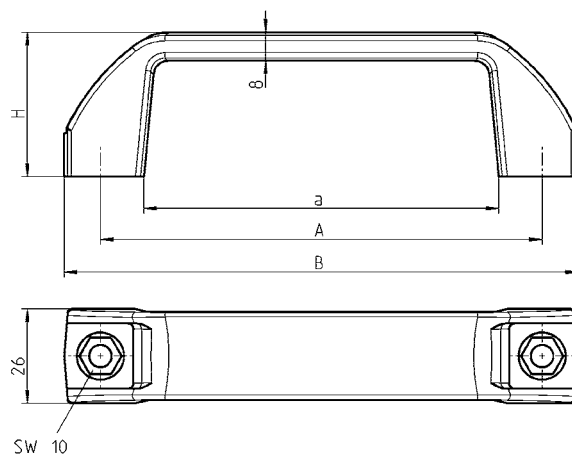
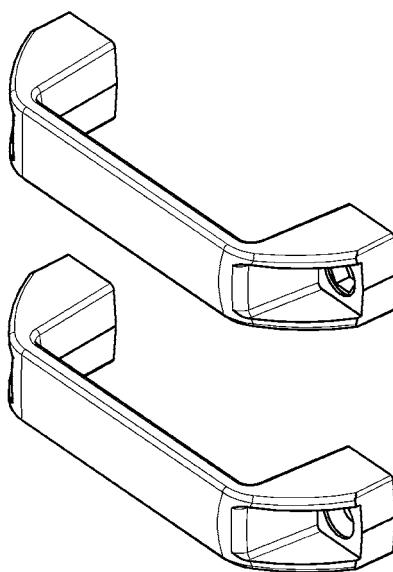
Bow-type handle made of antimicrobial polyamide GF black

1095-36-WI

Cover for bow-type handle made of antimicrobial polyamide GF black

1095-37-WI

Bow-type handle



Version	a	A	B	H
1	98	122	142	40
2	118.5	152	167	53.5

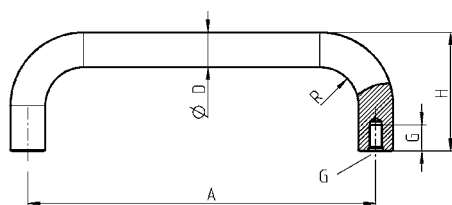
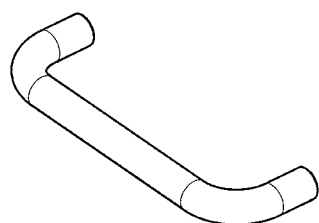
Bow-type handle polyamide GF black

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

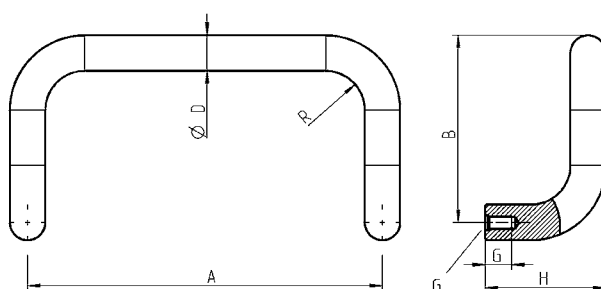
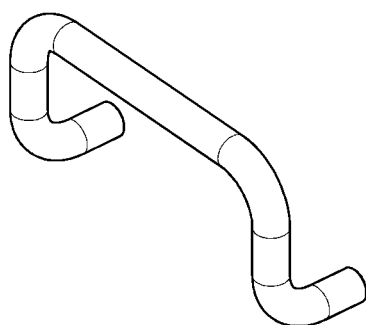
Bow-type handle

PROGRAM 1095

Version 1



Version 2



Version 1



Version 2



Bow-type handle aluminium raw or black plastic coated,
threaded bush aluminium with $\varnothing D = 28$

Version 1

A	B	D	G	H	R	blank	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	blank	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 $\varnothing D = 28$ are made of an
aluminium tube with thickness
of 4 mm.

Fixing material is not included
in scope of delivery.

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AISI
INOX



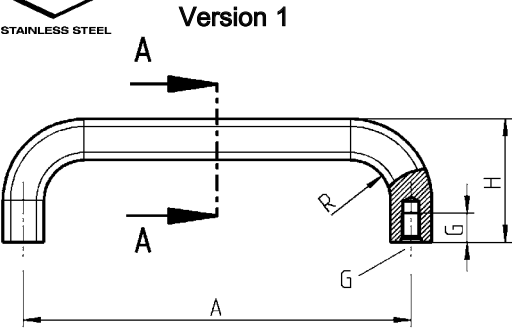
Version 1



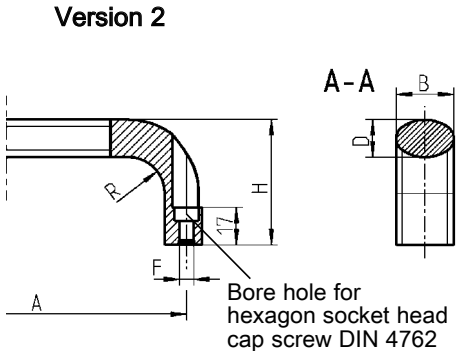
Version 2

Fixing material is not included in scope of delivery.

Bow-type handle PROGRAM 1095



Version 1



Version 2

Bore hole for hexagon socket head cap screw DIN 4762

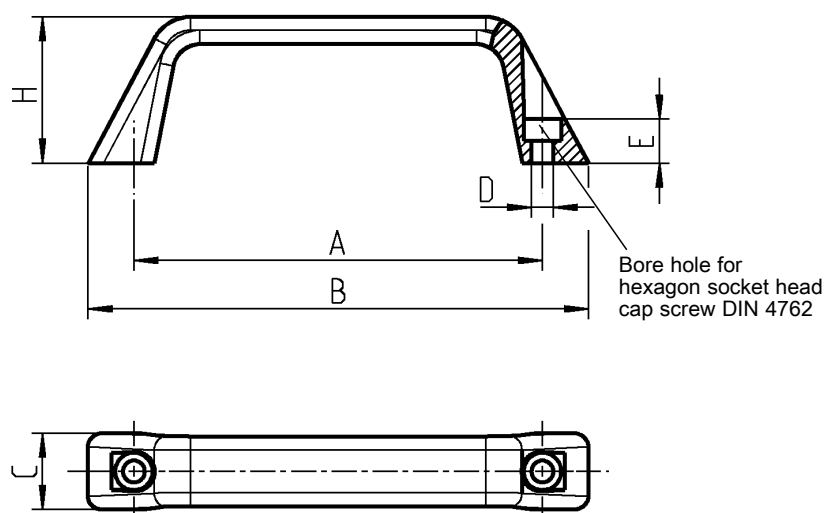
Bow-type handle aluminium optionally blank, anodised or black plastic-coated or stainless steel AISI

Version 1								
A	B	D	G	H	R	Aluminium blank	Aluminium anodized	Aluminium 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
200	20	13	M6x10	51	13	1095-26-200KB		1095-26-200AA
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
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
160	20	13	M6x10	51	13			1095-26-160PC
Version 2								
A	B	D	F	H	R	Aluminium blank	Aluminium anodized	Aluminium black
100	20	13	Ø 5.4	49	13	1095-42-100KB		1095-42-100AA
112	20	13	Ø 5.4	49	13	1095-42-112KB		1095-42-112AA
116	26	17	Ø 6.4	55	17	1095-28-116KB	1095-28-116NA	1095-28-116AA
120	20	13	Ø 5.4	51	13	1095-42-120KB		1095-42-120AA
128	20	13	Ø 5.4	51	13	1095-42-128KB		1095-42-128AA
132	26	17	Ø 6.4	55	17	1095-28-132KB	1095-28-132NA	1095-28-132AA
160	20	13	Ø 5.4	51	13	1095-42-160KB		1095-42-160AA
164	26	17	Ø 6.4	57	17	1095-28-164KB	1095-28-164NA	1095-28-164AA
196	26	17	Ø 6.4	57	17	1095-28-196KB	1095-28-196NA	1095-28-196AA
A	B	D	F	H	R		AISI CF-8	AISI 316
112	20	13	Ø 5.4	49	13		1095-42-112PS	
116	26	17	Ø 6.4	55	17			1095-28-116PH
128	20	13	Ø 5.4	51	13		1095-42-128PS	
160	20	13	Ø 5.4	51	13		1095-42-160PS	

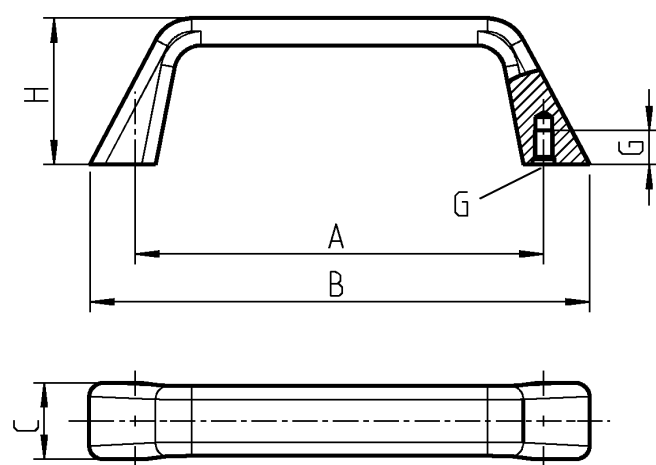
Bow-type handle

PROGRAM 1095

Version 1



Version 2



Version 1



Version 2

Bow-type handle aluminium blank or black plastic-coated

Version 1

A	B	C	D	E	H	blank	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		blank	black
120	147	22.5	M6x10	43		1095-30-120KB	1095-30-120AA
180	215	27	M8x12	48		1095-30-180KB	1095-30-180AA

Fixing material is not included in scope of delivery.

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AISI
INOX

EDELSTAHL®
**Rost
frei**
STAINLESS STEEL

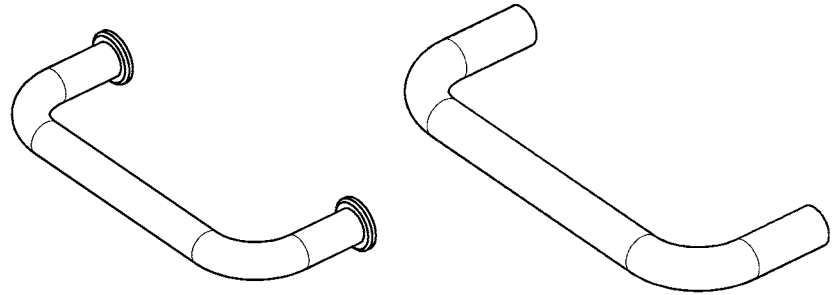
Version 1



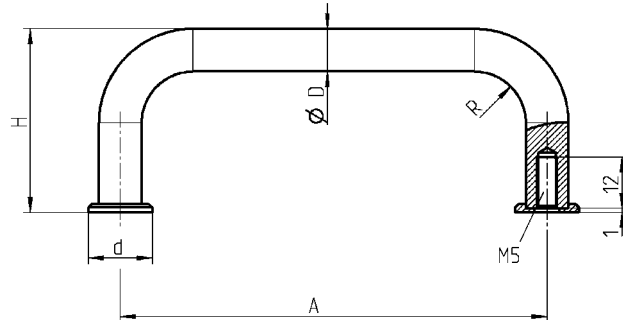
Version 2



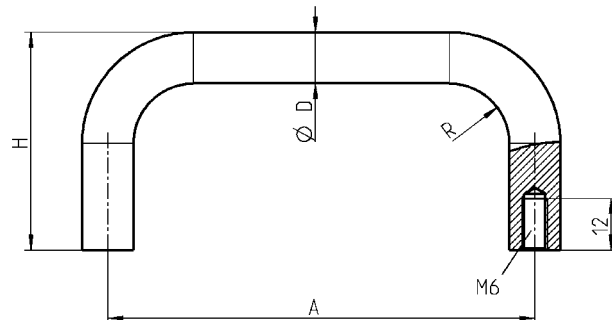
Fixing material is not included in scope of delivery.



Version 1



Version 2



Bow-type handle optionally aluminium black plastic-coated, m.s. black plastic-coated or stainless steel AISI

Version 1 with threaded hole M5

A	D	d	H	R		Aluminium black	m.s. black
100	10	15	43	12		1095-U35-100AA	1095-U35-100RA
200	10	15	43	12		1095-U35-200AA	1095-U35-200RA
A	D	d	H	R		AISI 303	AISI 316L
100	10	15	43	12		1095-U35-100PF	1095-U35-100PK
200	10	28	43	12		1095-U35-200PF	1095-U35-200PK

Version 2 with threaded hole M6

A	D	d	H	R		Aluminium black	m.s. black
125	12	–	51	14		1095-38-125AA	1095-38-125RA
250	12	–	51	14		1095-38-250AA	1095-38-250RA
A	D	d	H	R		AISI 304	AISI 316L
125	12	–	51	14		1095-38-125PC	
250	12	–	51	14		1095-38-250PC	

Version 2 without threaded hole M6

A	D	d	H	R		AISI 304	
125	12	–	51	14		1095-39-125PC	

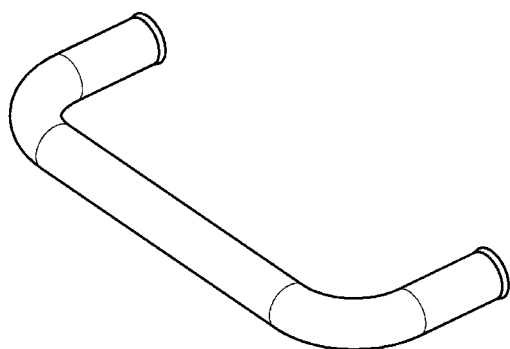
St. steel bow-type handle for hygienic areas, Bow-type handle

PROGRAM 1095

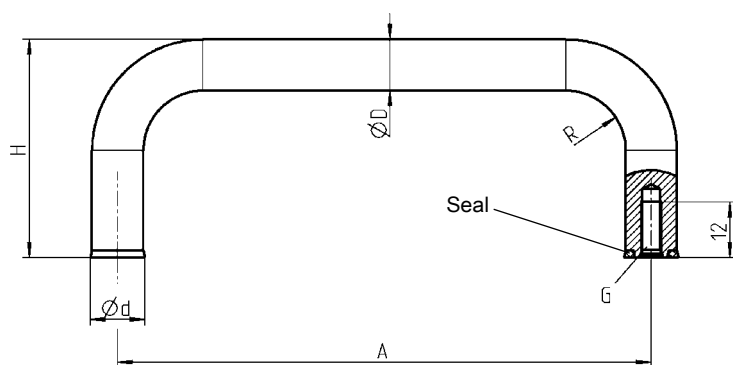
EMKA

Info

Beschlagteile

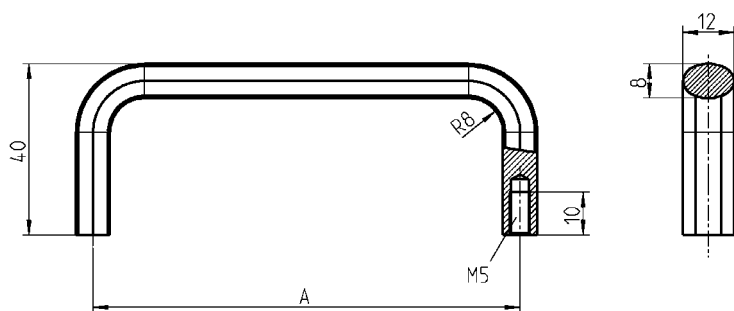
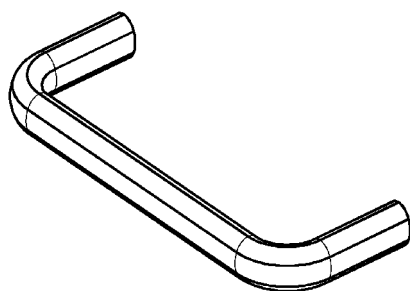


Stainless steel bow-type handle for hygienic areas with flat seal flush on the outside



Stainless steel bow-type handle AISI 316L for hygienic areas, with seal

A	D	d	G	H	R	
125	12	12.8	M5	51	14	1095-U38-125PK
200	16	16.8	M6	59	18	1095-U39-200PK



* Bow-type handle aluminium black plastic-coated

A	
100	1095-40-100AA
120	1095-40-120AA
180	1095-40-180AA
200	1095-40-200AA

AISI
INOX



* Fixing material is not included in scope of delivery.

6A-200

(6A-210)

Items printed in gray without stock

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

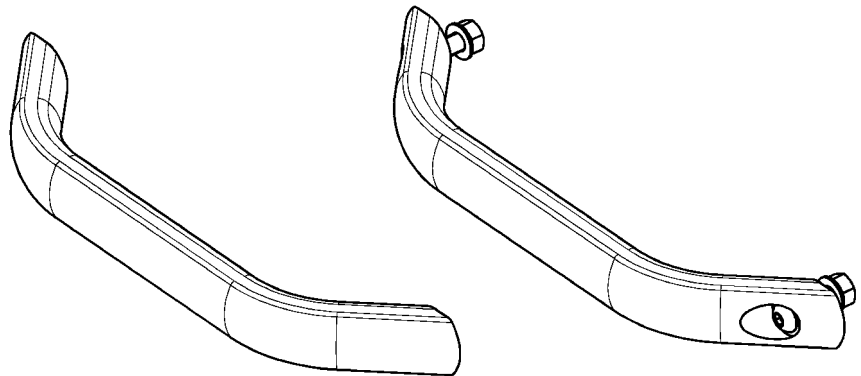
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1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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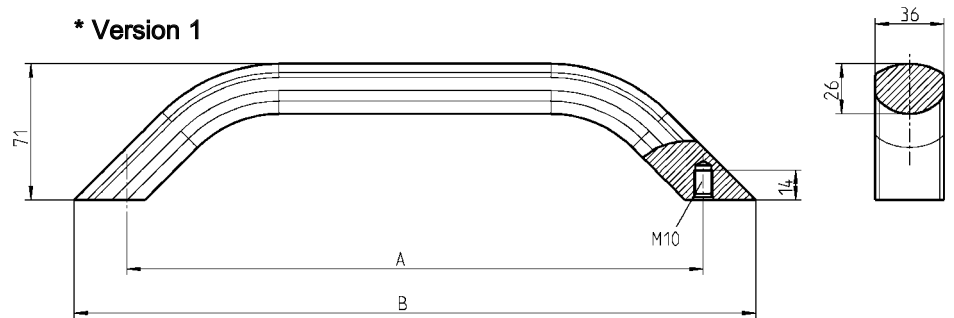
Machine handle
PROGRAM 1095

Version 1

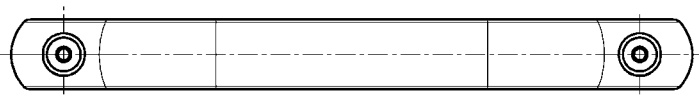
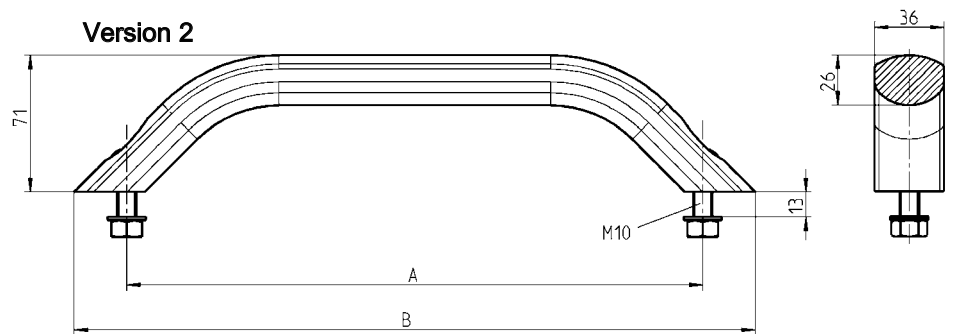
Version 2



* Version 1



Version 2



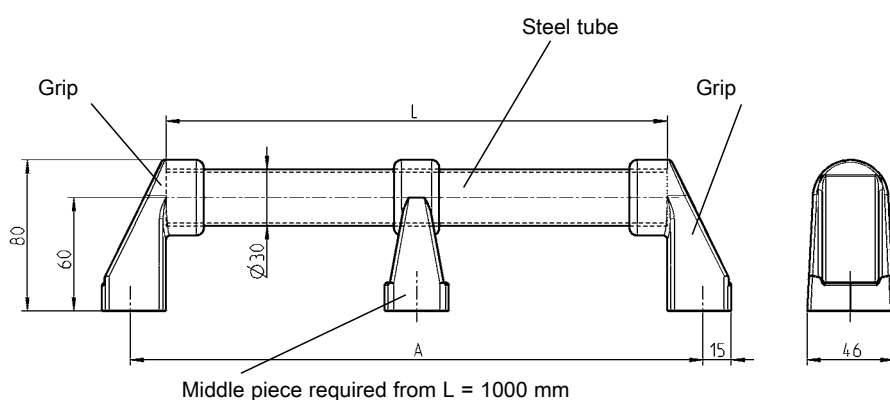
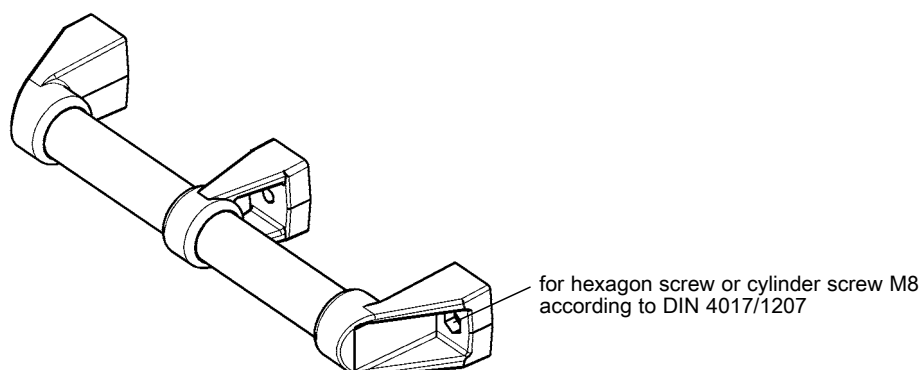
* Fixing material is not included in scope of delivery.

Machine handle aluminium black plastic-coated;
for version 2: screw, washer and nut AISI 304

A	B	Version 1	Version 2
500	555	1095-41-500AA	1095-U36-500AA
600	655	1095-41-600AA	1095-U36-600AA
800	855	1095-41-800AA	1095-U36-800AA

Handle with variable length

PROGRAM 1095



Grip polyamide GF black

1095-07

Middle piece polyamide GF black

1095-20

Steel tube Ø 30 m.s. plastic-coated black

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			

Yard goods and fixed lengths
up to 5000 mm *

1095-12-L mm

* Minimum quantity and delivery time on request!

Handle with variable length

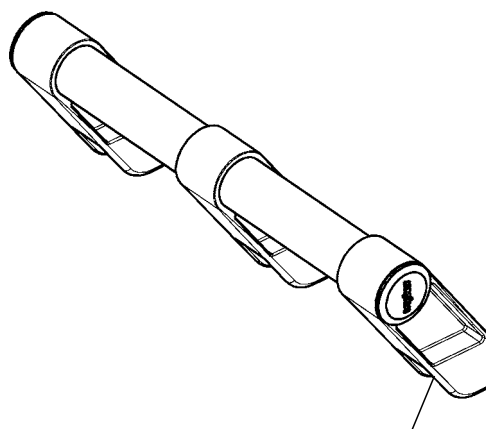
Fixing material is not included
in scope of delivery.

6A-220

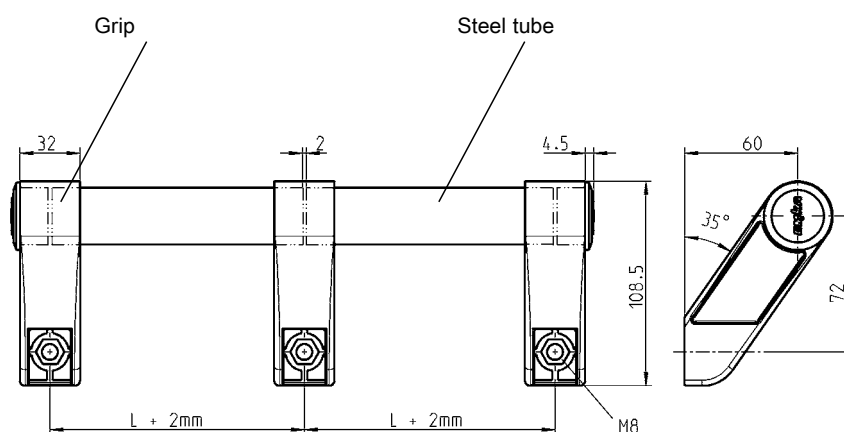
(6A-150)



Handle with variable length PROGRAM 1095



for hexagon screw or cylinder screw M8
according to DIN 4017/1207



Grip usable left, right and as centre part. When used as a centre part, the tube has to be interrupted.

Handle with variable length
(35° slope)

Fixing material is not included
in scope of delivery.

**Grip polyamide black for hexagon screw or cylinder screw M8
with 1 plug polypropylene black**

1095-U01

Steel tube Ø 30 m.s. plastic-coated black

L = 266	1095-08	L = 366	1095-09
L = 466	1095-10	L = 566	1095-11
L = 666	1095-13	L = 766	1095-14

Yard goods and fixed lengths
up to 5000 mm *

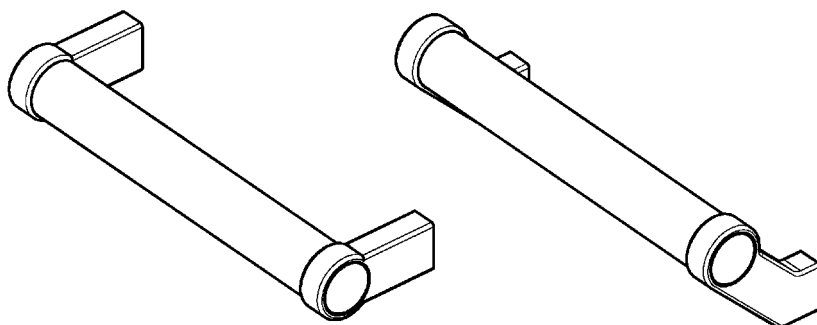
1095-12-L mm

* Minimum quantity and delivery time on request!

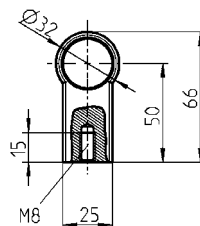
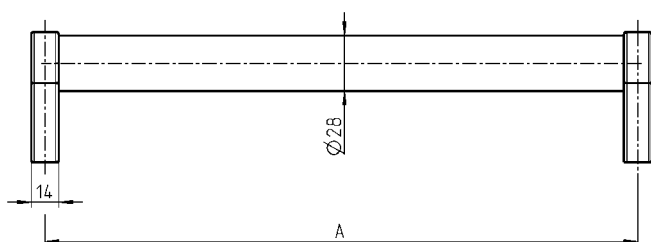
6A-240

(6A-151)

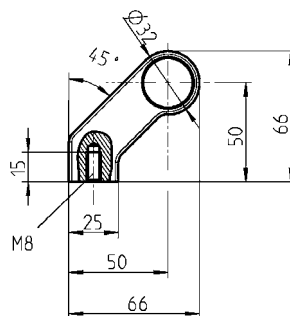
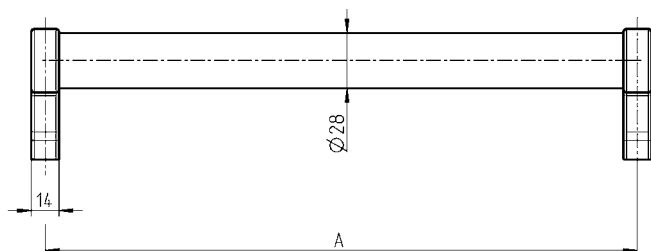
Tube handle PROGRAM 1095



Version 1



Version 2



Version 1



Version 2

Tube handle aluminium anodized or black plastic-coated;
handle base zinc die black plastic-coated;
cover plastic 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

Fixing material is not included
in scope of delivery.

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2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
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8 Miscellaneous
9 Special catalogues
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Tube handle PROGRAM 1095

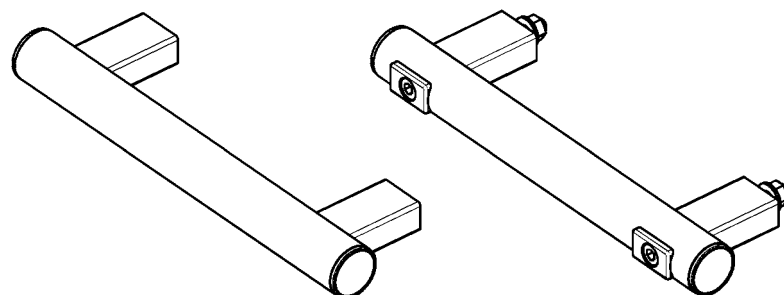


Version 1

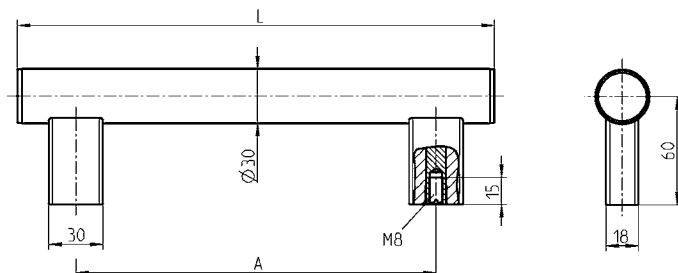


Version 2

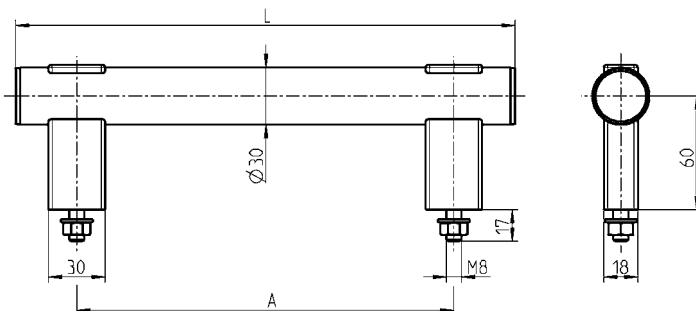
* Fixing material is not included in scope of delivery.



* Version 1



Version 2



Tube handle aluminium anodized or black plastic-coated;
handle base polyamide GF black, cover plastic black;
holding screw and nut m.s. zinc-plated

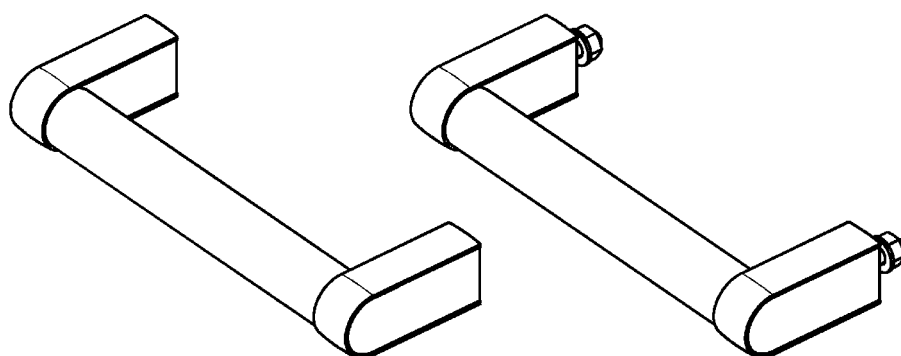
Version 1

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

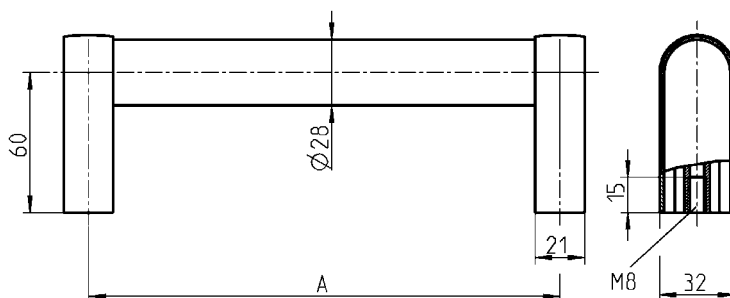
Version 2

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

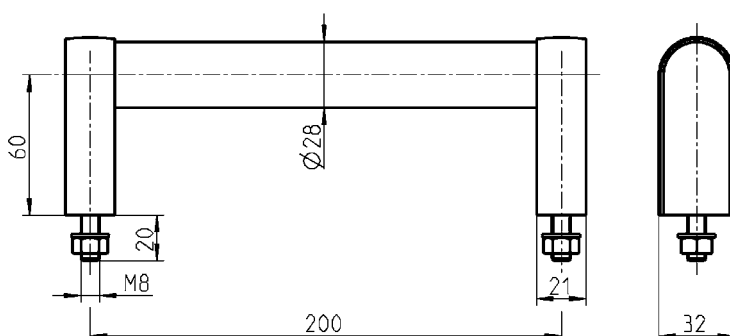
Tube handle PROGRAM 1095



* Version 1



Version 2



Version 1



Version 2

Tube handle aluminium anodized or black plastic-coated;
cover plastic 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

* Fixing material is not included in scope of delivery.

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1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
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AISI
INOX

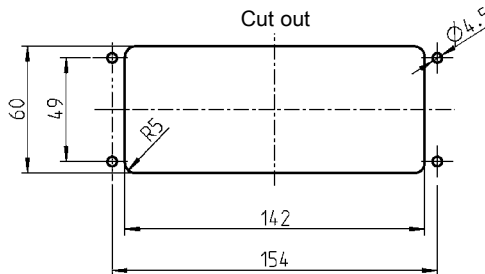
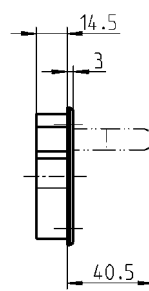
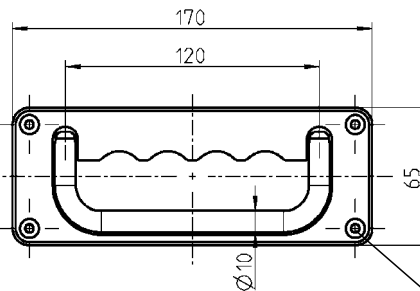
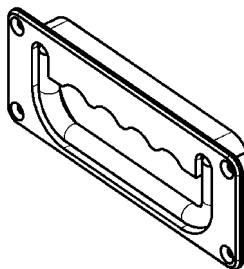
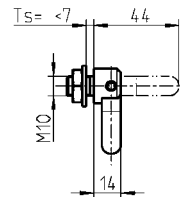
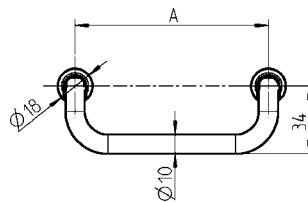
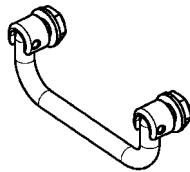


**** = on request**
 – Handle length 100 instead of 120
 – with spring return of the handle to the folded position



* Fixing material is not included in scope of delivery.

® Chest handle,
Edge handle
PROGRAM 1095



* Fixing hole for countersunk screw M4 DIN 7991

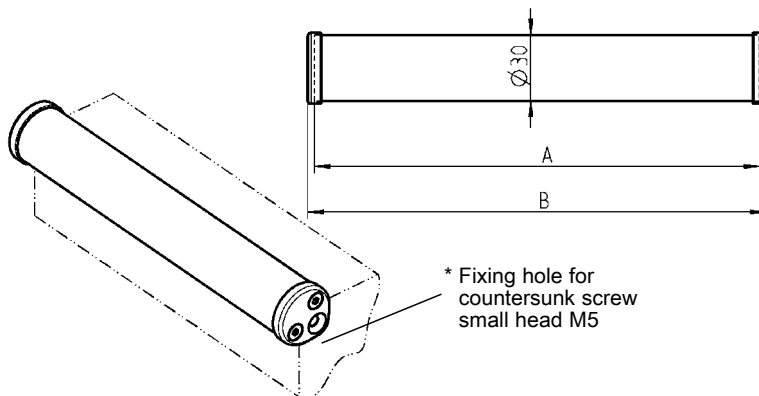
Chest handle m.s. chrome-plated or stainless steel AISI 303; fixing material AISI 303

A	m.s. chrome-plated	AISI 303
100	1095-U32-100IA	1095-U32-100PF
120	1095-U32-120IA	1095-U32-120PF
180	1095-U32-180IA	1095-U32-180PF

Chest handle m.s. chrome-plated, grip shell zinc die black

with locking mechanism of the handle in the folded and unfolded position

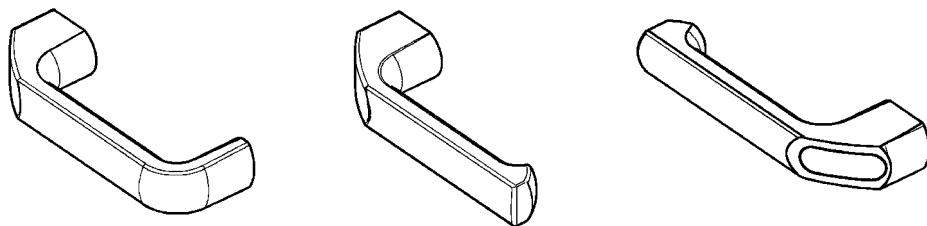
1095-U32-AA **



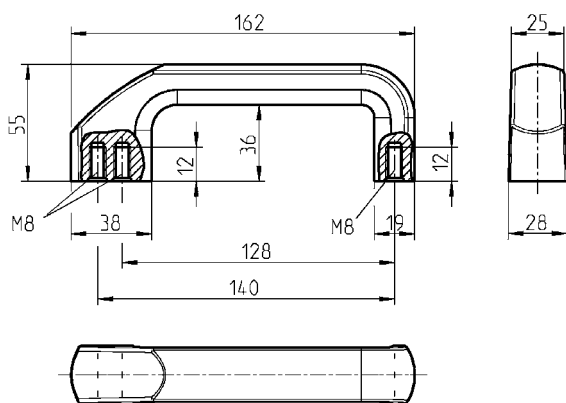
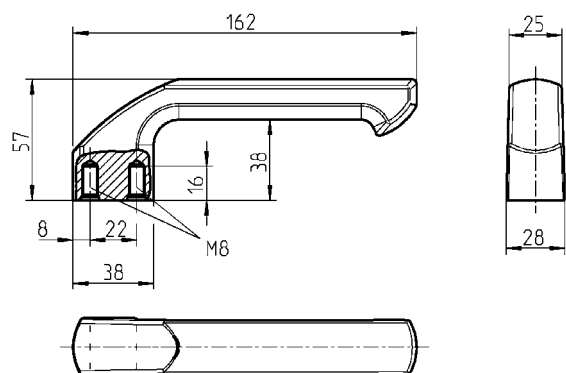
* Fixing hole for countersunk screw small head M5

Edge handle aluminium profile black plastic-coated;
end pieces zinc die black plastic-coated, screws m.s. black

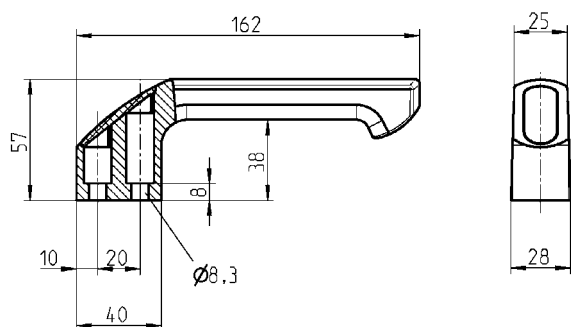
A	B	
100	106	1095-U33-100AA
200	206	1095-U33-200AA
300	306	1095-U33-300AA
400	406	1095-U33-400AA
500	506	1095-U33-500AA

PROGRAM 1095

Version 1

**Version 2**

Version 3



Handle aluminium black plastic-coated

Version 1

1095-31-200AA

Version 2

1095-32-200AA

Version 3 with covering cap plastic black

1095-U37-AA



Version 1



Version 2

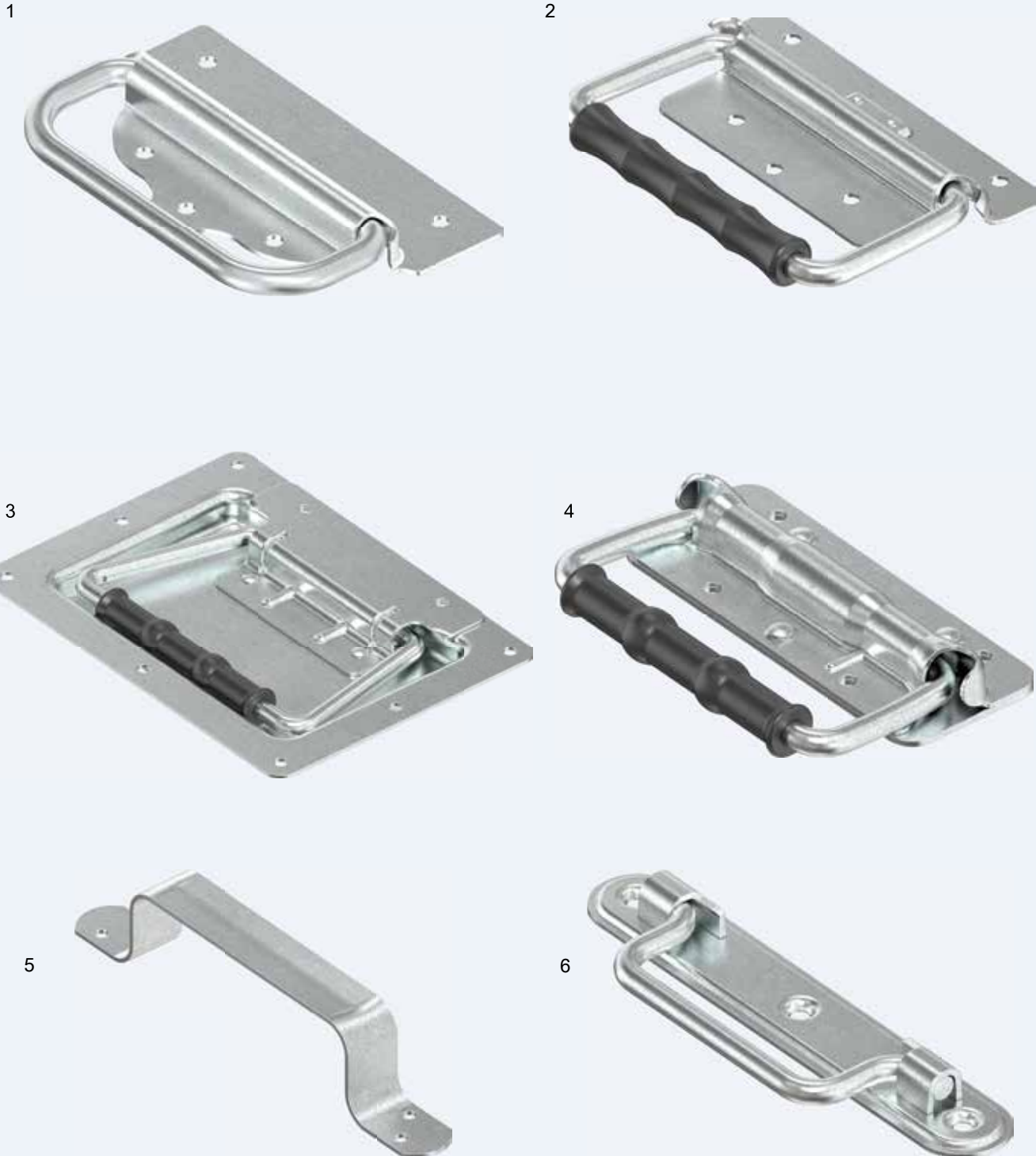


Version 3

Fixing material is not included in scope of delivery.

Info	
1 Quarter turns	Beschlagteile
2 Rod controls	Notes:
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
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Handles Program 6040



- | | | |
|---|--|--------|
| 1 | Chest handle | 6B-120 |
| 2 | Chest handle with leaf spring | 6B-140 |
| 3 | Chest handle with recessed piano wire torsion spring | 6B-160 |
| 4 | Chest handle with piano wire torsion spring | 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.

6B-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

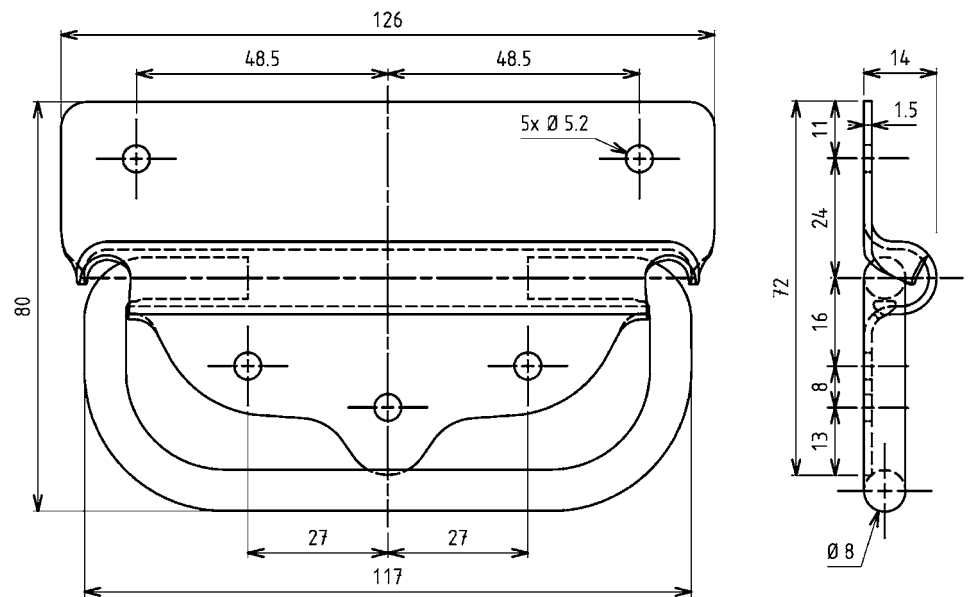
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3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
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Handles

PROGRAM 6040

AISI INOX



Further parts see page
– Counterplate

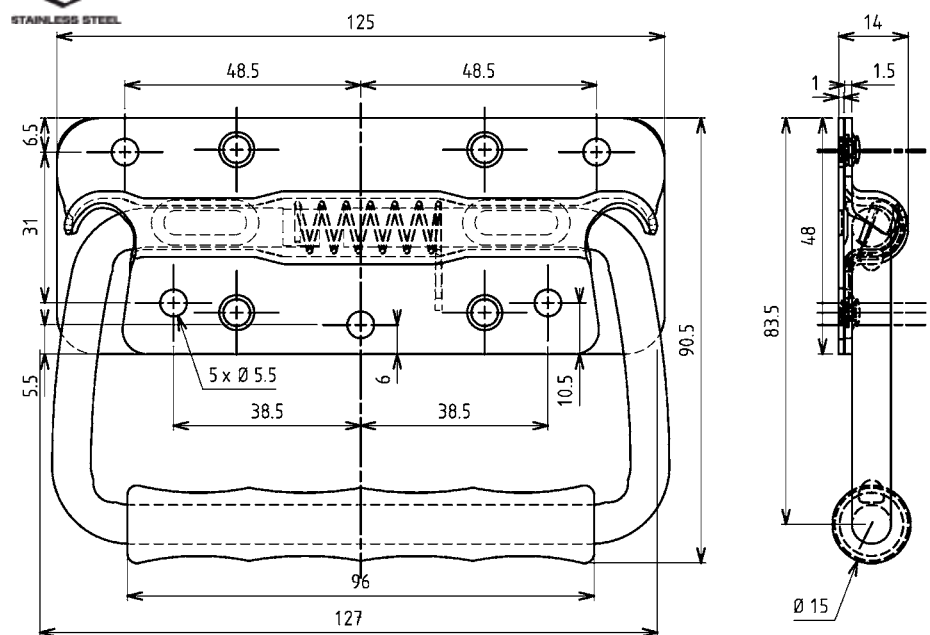
6B-320

Chest handle

	without piano wire torsion spring
m.s. raw, perforated	6040-U12-KA
m.s. raw, unperforated	6040-U12-01KA
m.s. zinc-plated DS plus Top Coat, perforated	6040-U12-JQ



Depicted with piano wire torsion spring and counterplate



Chest handle

	without piano wire torsion spring and counterplate	with piano wire torsion spring
m.s. zinc-plated DS plus Top Coat, perforated	6040-U14-JQ	6040-U13-JQ
AISI 304, perforated	6040-U14-PC	6040-U13-PC

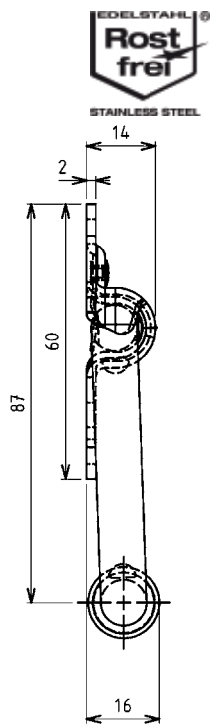
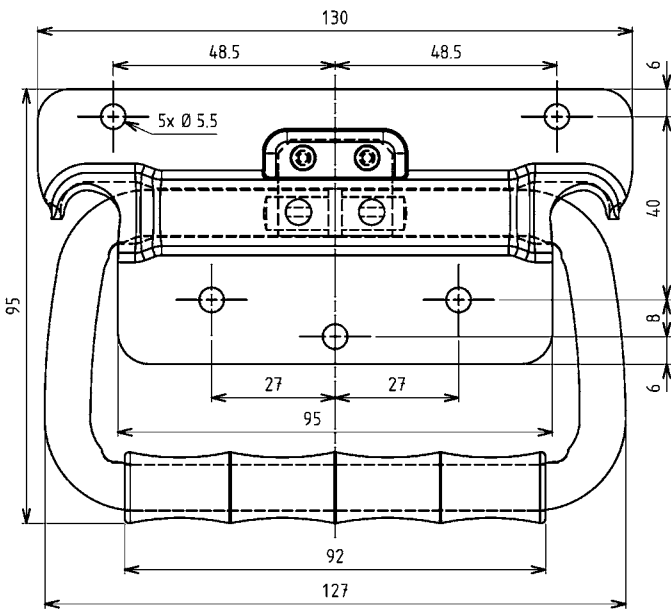
Further parts see page
– Counterplate

6B-320

6B-120 09/17

(9B-120)

Handles
PROGRAM 6040



AISI
INOX

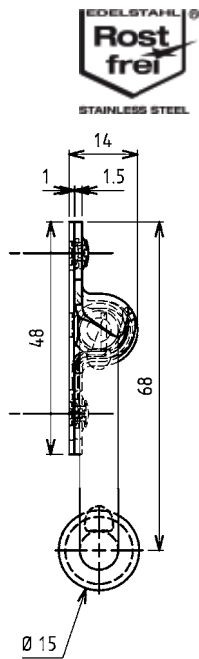
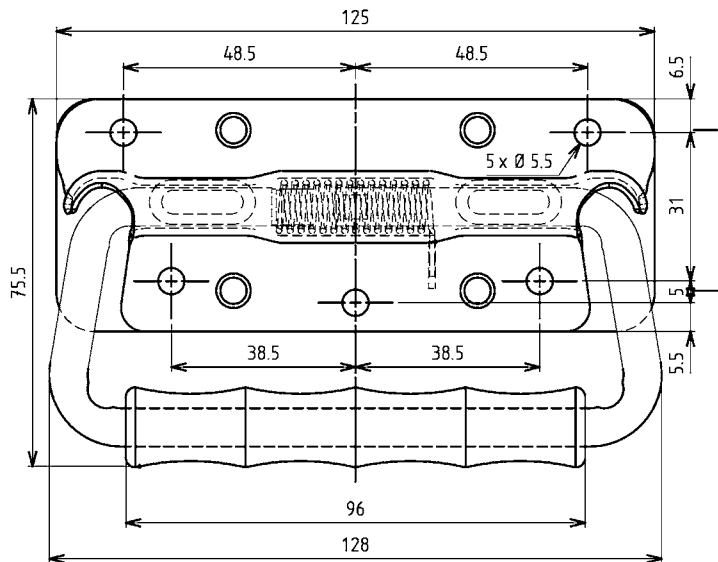


Chest handle

	without leaf spring	with leaf spring
m.s. zinc-plated DS plus Top Coat, perforated	6040-U24-JQ	6040-U23-JQ
AISI 304, perforated	6040-U24-PC	6040-U23-PC

Further parts see page
– Counterplate 6B-320

Depicted with piano wire torsion spring and counterplate



Chest handle

	without piano wire torsion spring and counterplate	with piano wire torsion spring
m.s. zinc-plated DS plus Top Coat, perforated	6040-U34-JQ	6040-U33-JQ
AISI 304, perforated	6040-U34-PC	6040-U33-PC

Further parts see page
– Counterplate 6B-320

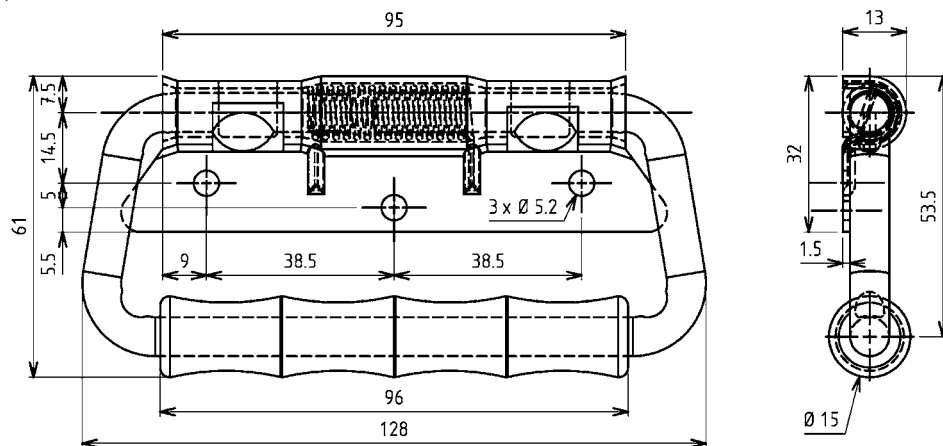
**AISI
INOX**



Further parts see page
– Counterplate

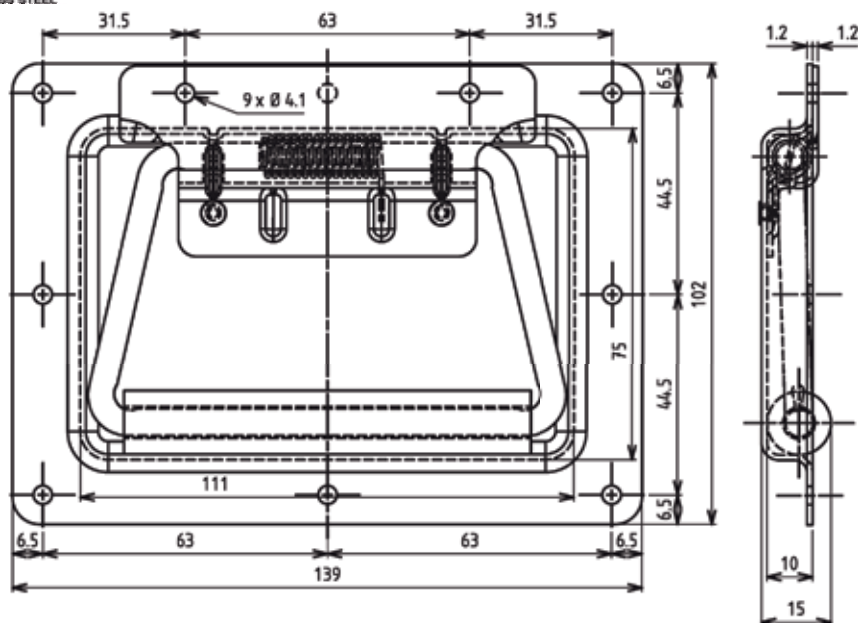
6B-320

Handles PROGRAM 6040



Chest handle

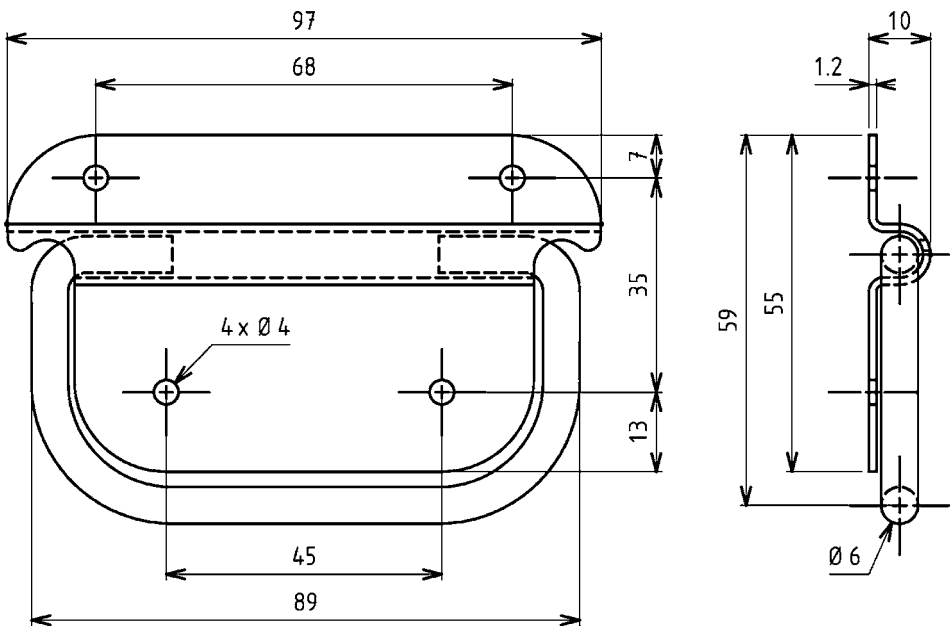
	with piano wire torsion spring
m.s. zinc-plated DS plus Top Coat, perforated	6040-U35-JQ
AISI 304, perforated	6040-U35-PC



Recessed chest handle

	with piano wire torsion spring
m.s. zinc-plated DS plus Top Coat, perforated	6040-U41-JQ
AISI 304, perforated	6040-U41-PC

AISI
INOX

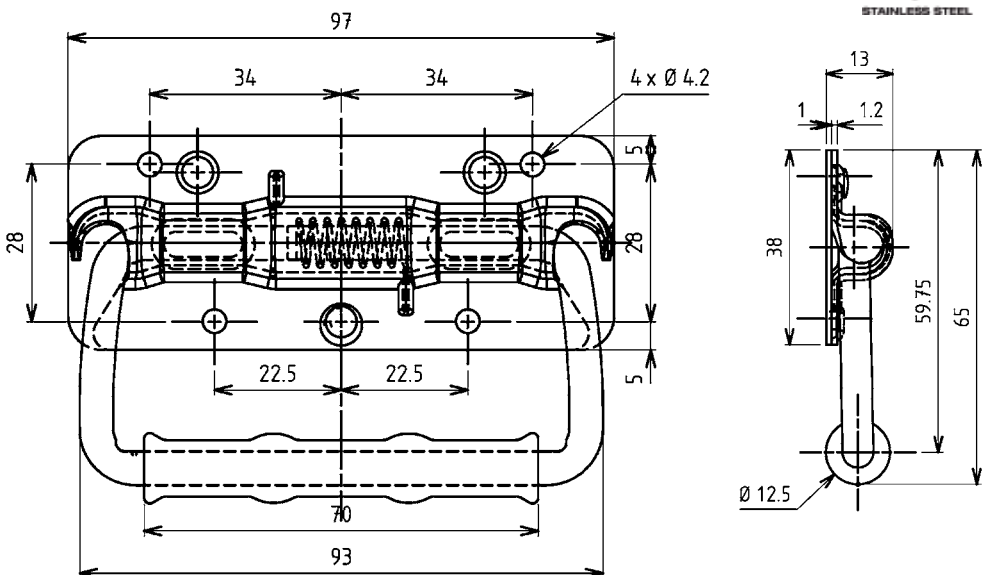


Chest handle

m.s. zinc-plated DS plus Top Coat, perforated

without piano wire
torsion spring
6040-U46-JQ

Depicted with piano wire torsion spring and counterplate



Chest handle

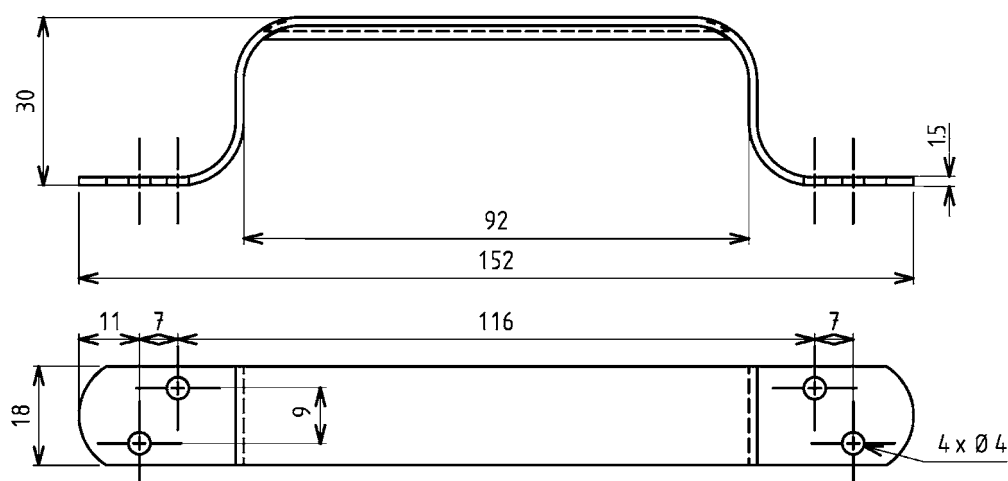
m.s. zinc-plated DS plus Top Coat,
perforated
AISI 304, perforated

without piano wire
torsion spring and
counterplate
6040-U54-JQ
6040-U54-PC

with piano wire
torsion spring
6040-U53-JQ
6040-U53-PC

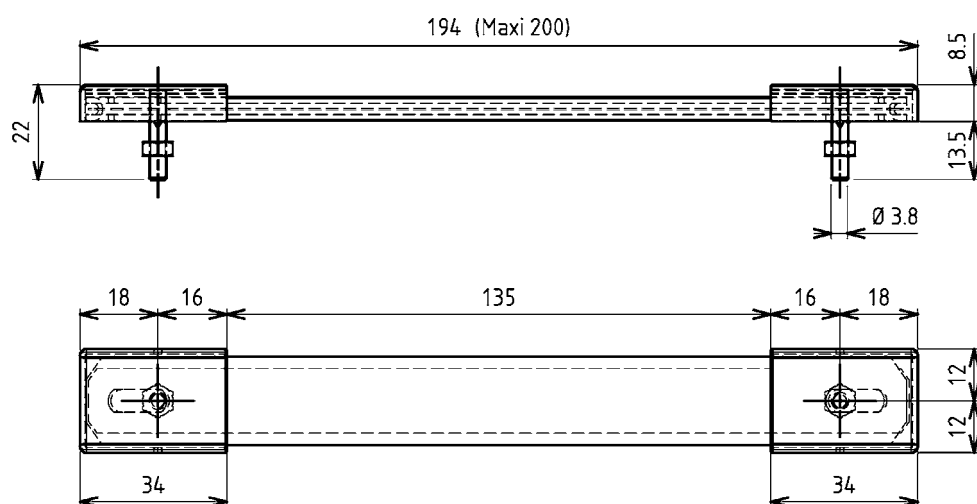
**AISI
INOX**


Handles PROGRAM 6040



Bow-type handle

m.s. raw, perforated	6040-15-KA
m.s. raw, unperforated	6040-15-01KA
m.s. zinc-plated DS plus Top Coat, perforated	6040-15-JQ
AISI 304, perforated	6040-15-PC



Case-handle

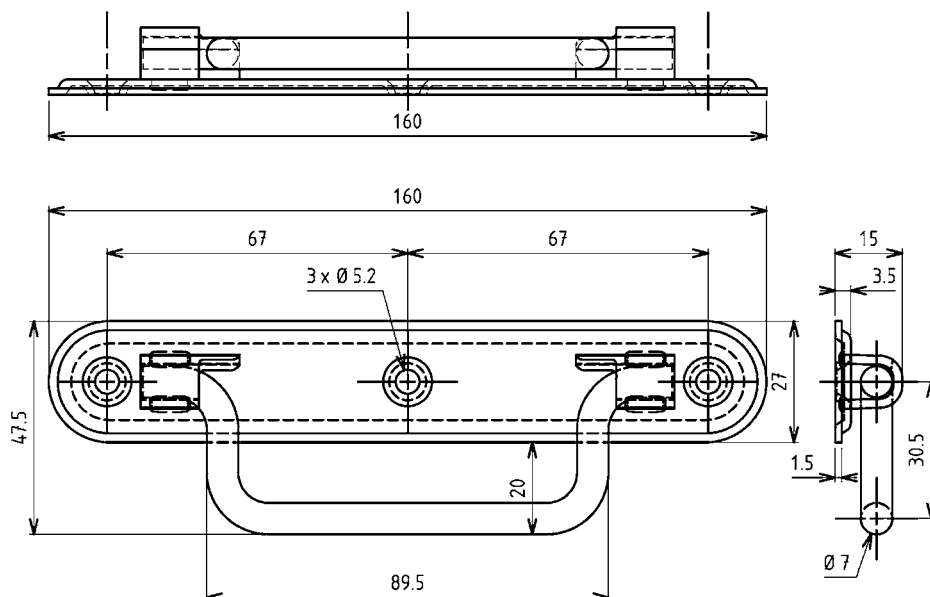
m.s. nickel-plated, perforated	6040-U19-LA
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6B-220

(9B-160)

Handle, Sliding ring PROGRAM 6040

**AISI
INOX**



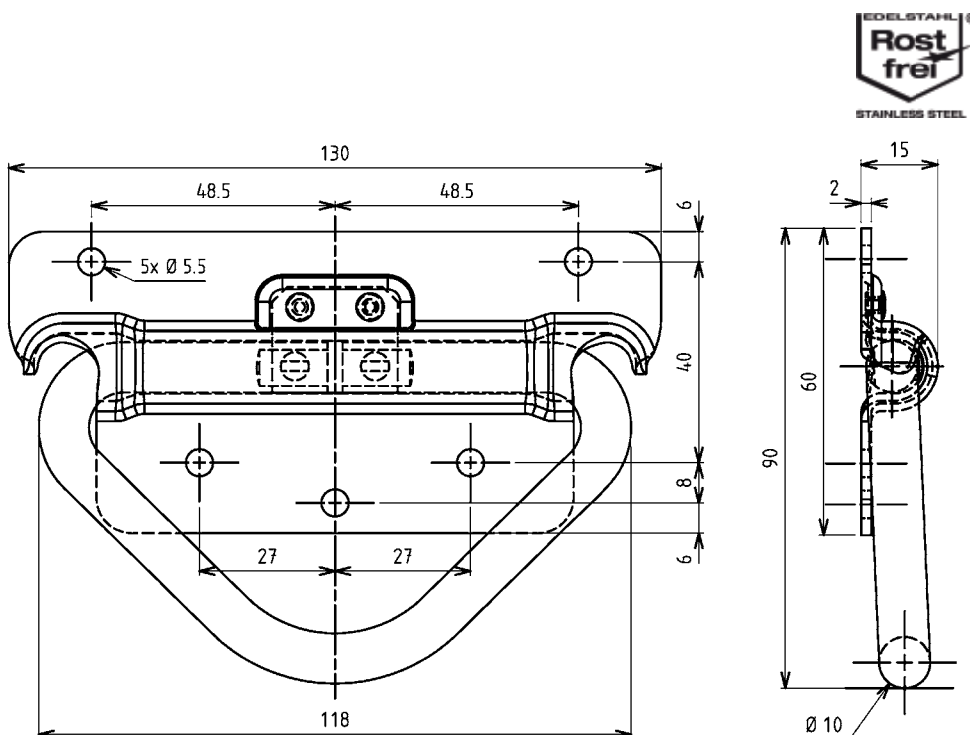
Chest handle

m.s. zinc-plated DS plus Top Coat, perforated

without piano wire
torsion spring
6040-U94-JQ

Further parts see page
– Counterplate

6B-320



Sliding ring

m.s. zinc-plated DS plus Top Coat, perforated

AISI 304, perforated

with
leaf spring
6040-U80-JQ
6040-U80-PC

Further parts see page
– Counterplate

6B-320

6B-240 09/17

(9B-160)

Info
1 Quarter turns
2 Rod controls
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4 Hinges
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Counterplate PROGRAM 6040

**AISI
INOX**



Further parts see page
– Chest handle

6B-240



Further parts see page
– Chest handle

6B-120
to 6B-160

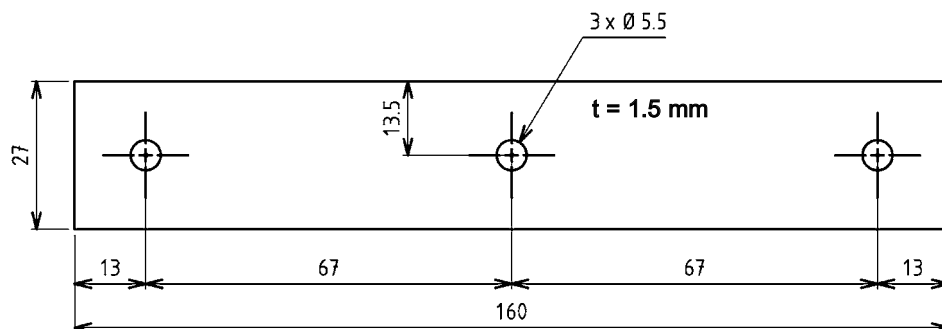


Further parts see page
– Chest handle

6B-120
6B-140
6B-240

6B-320 09/17

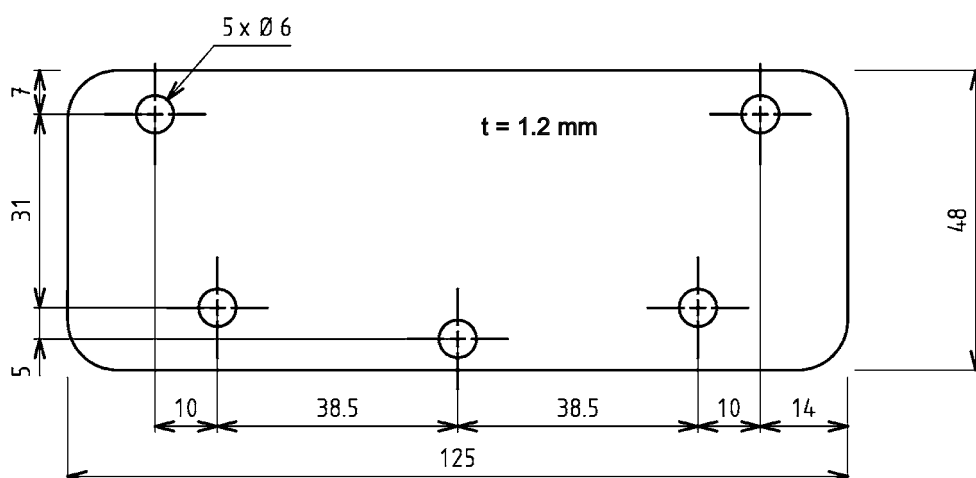
(6B-340)



Counterplate for handle

m.s. zinc-plated DS plus Top Coat

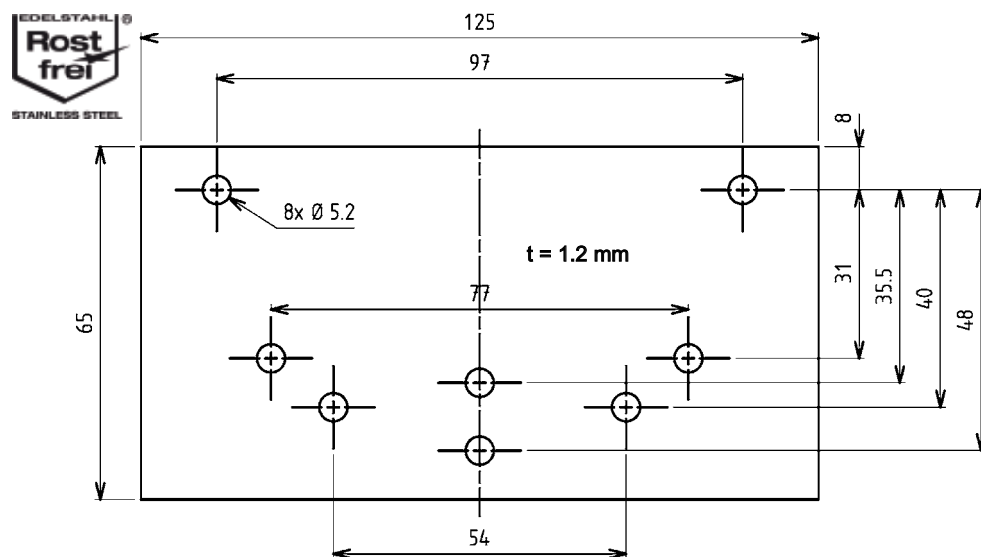
6042-278-JQ



Counterplate for handle

m.s. zinc-plated DS plus Top Coat

6042-63-JQ



Counterplate for handle

m.s. zinc-plated DS plus Top Coat

6042-69-JQ

AISI 304

6042-69-PC

Aluminium windows

Program 1200



- | | | |
|---|------------------------------------|--------|
| 1 | Aluminium windows without frame | 7A-120 |
| 2 | Aluminium windows with 30 mm frame | 7A-120 |
| 3 | Aluminium windows with 61 mm frame | 7A-120 |

On request, assembly is carried out with gas springs

7A-100

Info

1 Quarter turns

2 Rod controls

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Aluminium windows without frame



Version **6**

Aluminium window
with wing knob
quarter turn
front



Version **7**

Aluminium window
with cylinder quarter
turn front

Part no.		Number of chosen version	
Height in mm	Width in mm	→700	→800
→900	→1000	1200-U55-07 3/3	1200-U56-07 3/3
		1200-U55-08 3/3	1200-U56-08 3/3

Number of locks

Number of hinges

Aluminium window anodised; pane with seal

Lock of the types 0, 1, 3, 4, 6:

Wing knob quarter turn zinc die black powder-coated; round cylinder with stainless steel cap; keyed 2233X; one key per round cylinder of nickel-silver with grip polyamide black

Lock of the types 2, 5, 7:

Cylinder quarter turn zinc die black powder-coated; round cylinder with stainless steel cap and dust slider; keyed EK333; one key per round cylinder of nickel-silver with grip polyamide black

Opening angle:

without frame 140°
with frame 175°

Order example:

You need an aluminium window of version 5 with the dimensions B = 620 mm, H = 840 mm.

Please order:

1200-U55-07 620x840

Note:

The framed items are also available with safety glass or with aluminium composite panel.

Note:

For versions 0, 1, 3, 4 and 6, only one lock is lockable for larger aluminium windows with several locks.

Note:

For versions 2, 5 and 7, all locks are lockable for larger aluminium windows.

Keyed different on request.

For versions 0, 1, 3, 4 and 5, mounting with gas spring is possible.

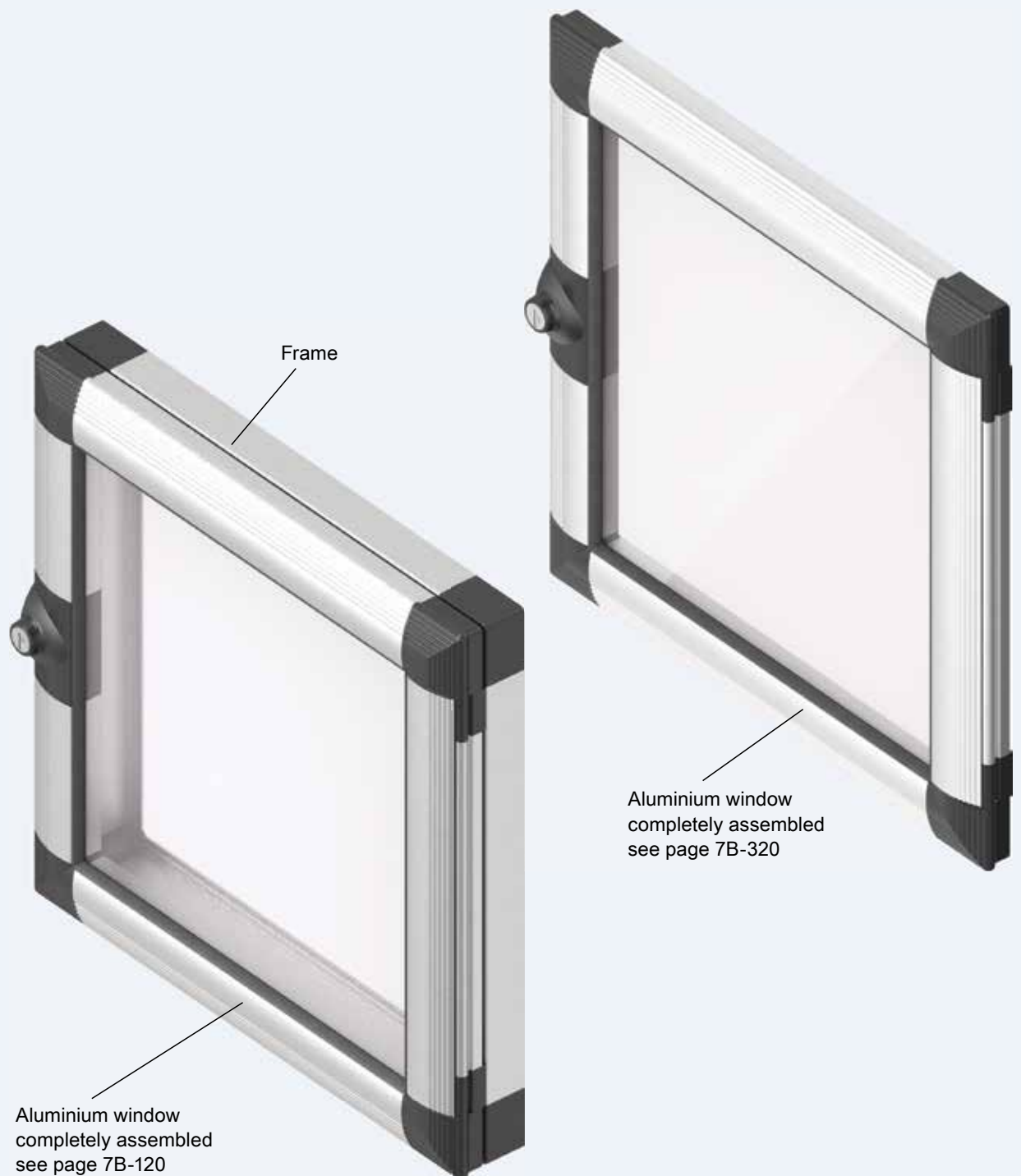
For versions 0, 1, 3, 4 and 5, frame with 114 mm is also available.

Complete the "?" with the "number" of the version of your choice		300←	→400	→500	→600	→700	→800	→900	→1000
Height in mm	Width in mm	1200-U?1-01 1/2	1200-U?2-01 1/2	1200-U?3-01 1/2	1200-U?4-01 1/2	1200-U?5-01 1/2			
→400		1200-U?1-02 1/2	1200-U?2-02 1/2	1200-U?3-02 1/2	1200-U?4-02 1/2	1200-U?5-02 1/2			
→500		1200-U?1-03 1/2	1200-U?2-03 1/2	1200-U?3-03 1/2	1200-U?4-03 1/2	1200-U?5-03 1/2			
→600		1200-U?1-04 1/2	1200-U?2-04 1/2	1200-U?3-04 1/2	1200-U?4-04 1/2	1200-U?5-04 2/2			
→700		1200-U?1-05 1/2	1200-U?2-05 1/2	1200-U?3-05 2/2	1200-U?4-05 2/2	1200-U?5-05 2/2	1200-U?6-05 2/2		
→800		1200-U?1-06 1/2	1200-U?2-06 1/2	1200-U?3-06 2/2	1200-U?4-06 2/2	1200-U?5-06 2/2	1200-U?6-06 2/2		
→900		1200-U?1-07 2/3	1200-U?2-07 2/3	1200-U?3-07 2/3	1200-U?4-07 2/3	1200-U?5-07 2/3	1200-U?6-07 3/3	1200-U?7-07 3/3	
→1000		1200-U?1-08 2/3	1200-U?2-08 2/3	1200-U?3-08 2/3	1200-U?4-08 2/3	1200-U?5-08 3/3	1200-U?6-08 3/3	1200-U?7-08 3/3	1200-U?8-08 3/3
→1100			1200-U?2-09 2/3	1200-U?3-09 2/3	1200-U?4-09 2/3	1200-U?5-09 3/3	1200-U?6-09 3/3	1200-U?7-09 3/3	1200-U?8-09 3/3
→1200			1200-U?2-10 2/3	1200-U?3-10 2/3	1200-U?4-10 2/3	1200-U?5-10 3/3	1200-U?6-10 3/3	1200-U?7-10 3/3	1200-U?8-10 3/3
→1300				1200-U?3-11 3/3	1200-U?4-11 3/3	1200-U?5-11 3/3	1200-U?6-11 3/3	1200-U?7-11 3/3	1200-U?8-11 3/3
→1400				1200-U?3-12 3/3	1200-U?4-12 3/3	1200-U?5-12 3/3	1200-U?6-12 3/3	1200-U?7-12 3/3	1200-U?8-12 3/3
→1500				1200-U?3-13 3/3	1200-U?4-13 3/3	1200-U?5-13 3/3	1200-U?6-13 3/3	1200-U?7-13 3/3	1200-U?8-13 3/3
→1600				1200-U?3-14 3/3	1200-U?4-14 3/3	1200-U?5-14 3/3	1200-U?6-14 3/3	1200-U?7-14 3/3	1200-U?8-14 3/3
→1700					1200-U?4-15 3/4	1200-U?5-15 3/4	1200-U?6-15 3/4	1200-U?7-15 3/4	1200-U?8-15 3/4
→1800					1200-U?4-16 3/4	1200-U?5-16 3/4	1200-U?6-16 3/4	1200-U?7-16 3/4	1200-U?8-16 3/4
→1900						1200-U?5-17 3/4	1200-U?6-17 3/4	1200-U?7-17 3/4	1200-U?8-17 3/4
→2000						1200-U?5-18 3/4	1200-U?6-18 3/4	1200-U?7-18 3/4	1200-U?8-18 3/4

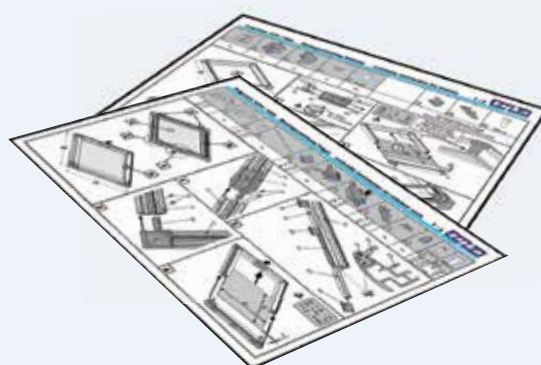
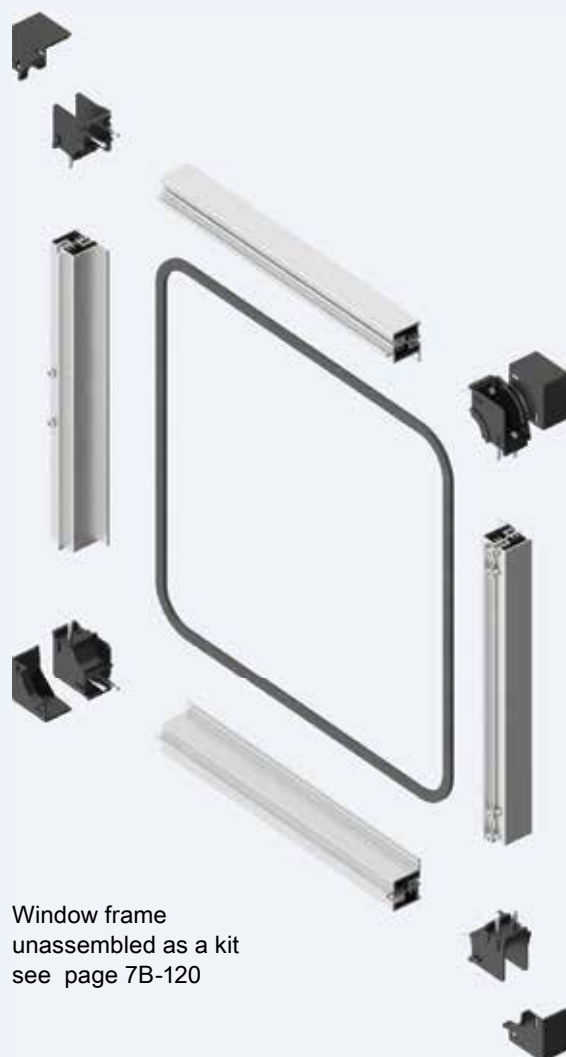
EMKA PROflex

Aluminium window - with or without a frame

Program 1210



Aluminium window as a kit



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Aluminium window with frame 1210

PROGRAM 1210 EMKA PROflex



Available fully assembled
or as a kit



Opening angle 180°

Attention:
Please specify locking set separately!
(see page 7B-220)

Note:

For mounting threaded channel M5 on the back of the frame.
Alternative mounting option from the front.
(see page 7B-420)

Polycarbonate glass or safety glass on request.

Window sizes for applications with safety glass please see table on page 7B-520.

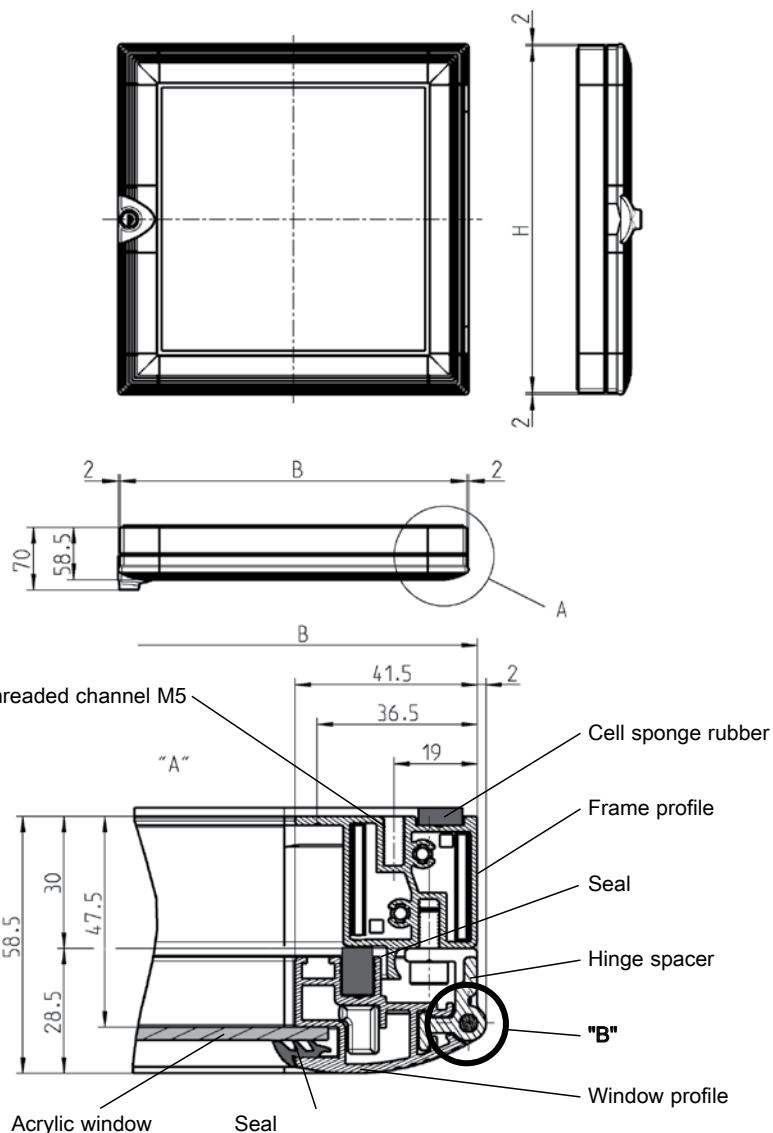
External dimensions of the aluminium window:
Height from 320 to 2000 mm
Width from 300 to 1000 mm
Height = Closure or hinge side

Rear panel 3.5 to 4 mm possible!
Mounting by simple plugging in. Rear panel size H minus 62 mm and W minus 62 mm.

Further parts see page
– Lock 7B-220

Dimensions for mounting
see page 7B-420

Further ordering details
see page 7B-520



Order example:

You need a aluminium window with the dimensions H = 750 mm and W = 520 mm.
Attention: Please note that at the handle edge 2 mm protrusion per side must be considered (see detail "B")!

Please order:

Version 1: Aluminium window assembled
1210-U (Height) - (Width) = 1210-U 750-520

Version 2: Aluminium window unassembled as a kit
1210-X (Height) - (Width) = 1210-X 750-520

Aluminium window anodized aluminium, corners and hinges zind die black powder-coated, caps polyamide black, shaft stainless steel, screws m.s. zinc-plated, acrylic glass 3 mm, with seal and lock (specify locking type separately)

Aluminium window assembled, with acrylic glass

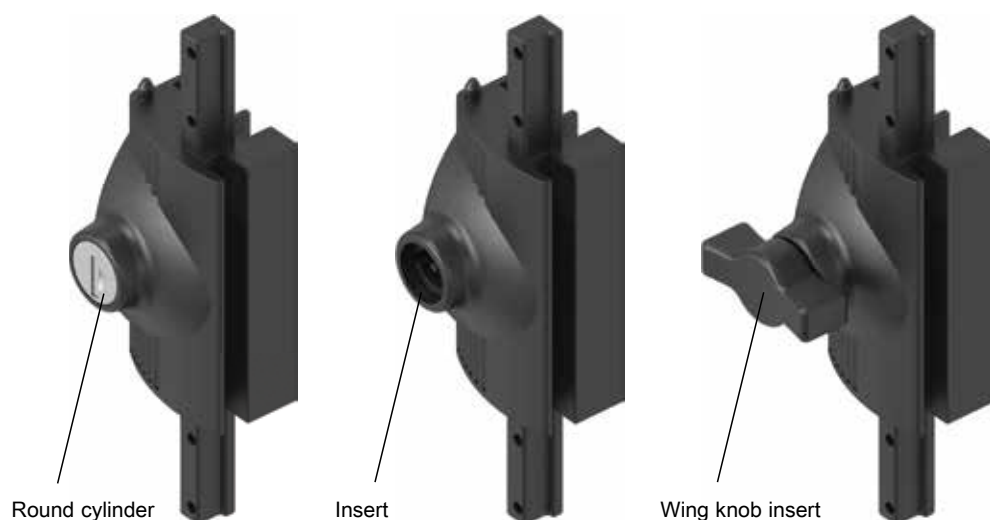
1210-U -
(see order example)

Aluminium window unassembled as a kit, without acrylic glass, ready made with assembly instruction
(Calculation of the 3 mm acrylic glass:
H minus 65 mm or W minus 65 mm)

1210-X -
(see order example)

Aluminium window: Lock 1215

PROGRAM 1210 EMKA PROflex



Conversion notice:

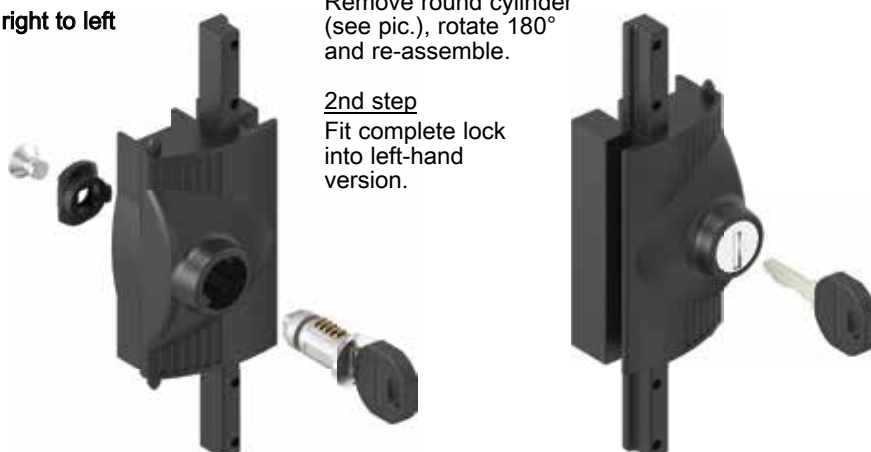
from right to left

1st step

Remove round cylinder (see pic.), rotate 180° and re-assemble.

2nd step

Fit complete lock into left-hand version.



Ordering note:

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 die black powder-coated, round cylinder with stainless steel cap and dust cap or insert zinc die black powder-coated, cam zinc die raw, catch zinc die black powder-coated, screws m.s. zinc-plated. Each round cylinder has one silver steel key with grip polyamide GF 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 insert	1215-U2-U78



The locks are designed for a right-hinged aluminium window!

Left-hinged version of lock with round cylinder see conversion note!

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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Available fully assembled
or as a kit



Opening angle 180°

Attention:
Please specify locking set separately!
(see page 7B-220)

Note:

For mounting options,
see page 7B-420.

Polycarbonate glass or safety
glass on request.

Window sizes for applications
with safety glass please see table
on page 7B-520.

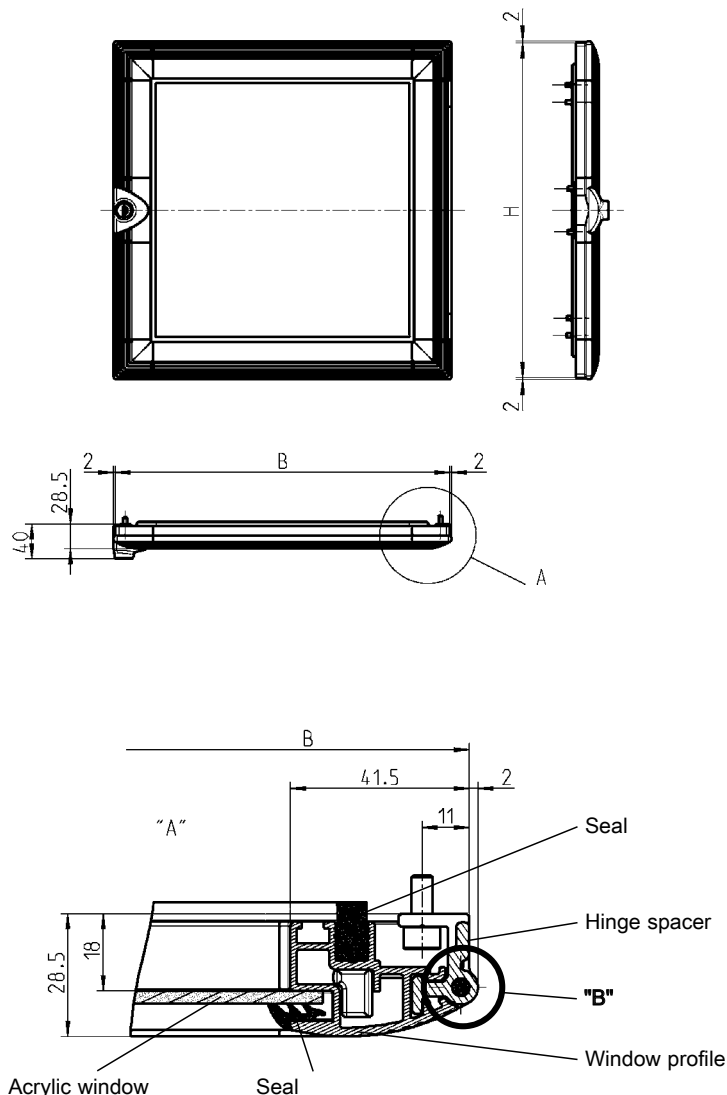
External dimensions of the
window:

Height from 320 to 2000 mm

Width from 300 to 1000 mm

Height = Closure or hinge side

A frame as shown on page
7B-120 can be retrofitted at any
time!



Order example:

You need a window with dimensions H = 750 mm and W = 520 mm.
Attention: Please note that 2 mm protrusion per side must be taken into account at the
handle edge (see detail "B")!

Please order:

Version 1: Window without frame completely assembled
1220-U (Height) - (Width) = 1220-U 750-520

Version 2: Window unassembled as a kit
1220-X (Height) - (Width) = 1220-X 750-520

Aluminium window without frame aluminium anodized,
corners and hinges zind die black powder-coated,
shaft stainless steel, screws m.s. zinc-plated, acrylic glass 3 mm,
with seal and lock (specify locking type separately)

Aluminium window assembled, incl. acrylic glass

1220-U -
(see order example)

Aluminium window as a kit without acrylic glass,
ready made with assembly instruction
(Calculation of the 3 mm acrylic glass:
H minus 65 mm or W minus 65 mm).

1220-X -
(see order example)

Further parts see page
– Lock 7B-220

Dimensions for mounting
see page 7B-420

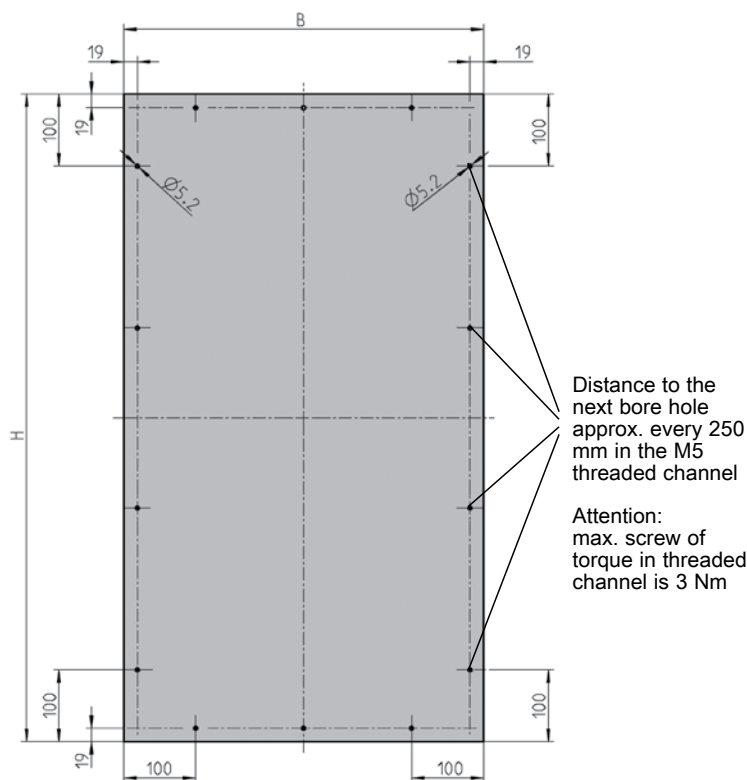
Further ordering details
see page 7B-520

Fixing details for window 1210 and 1220

PROGRAM 1210 EMKA PROflex

Fixing recommendation for window 1210: Mounting from rear

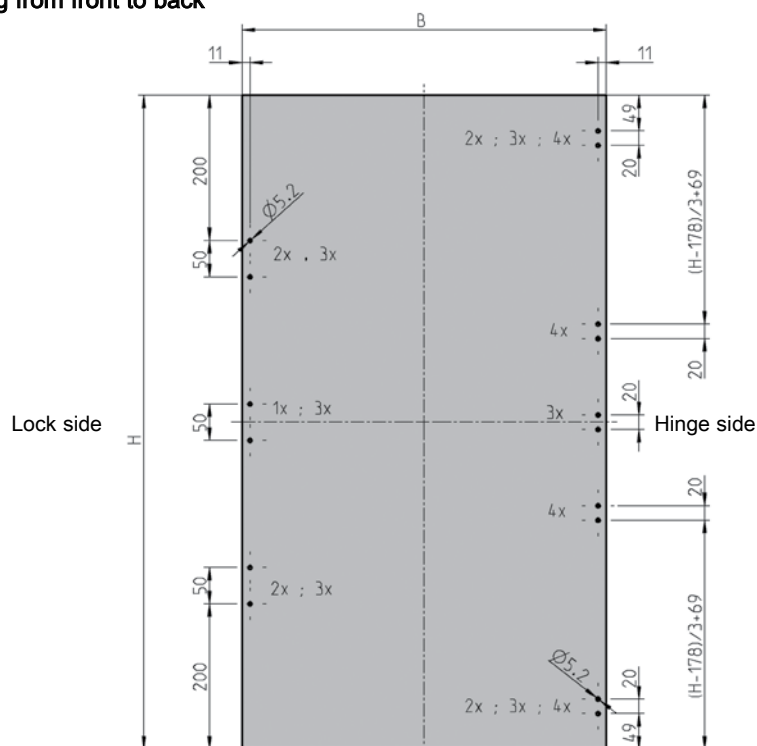
More fixing points depending on size of window and according to client requests.



Fixing points window rear side

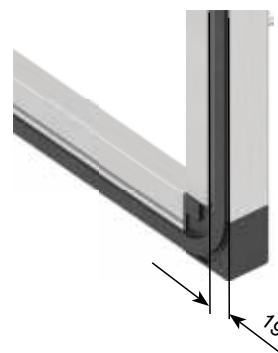
Fixing details for window 1220:

Mounting from front to back



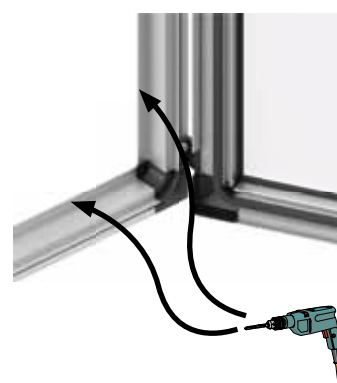
Fixing points window rear side

Mounting from rear



See fixing specification

Mounting from front



Fixing according to customer's choice

Note:

Fixing point specifications
2x, 3x, 4x refer to the number
of hinges and locks.

Further parts see page

– Aluminium windows 7B-120
– Aluminium window without frame 7B-320



Note:

Aluminium window 1210

On request, assembly is carried out with gas springs.

The framed articles are available with safety glass.

Order example:

You need a fully assembled window with the dimensions H = 750 mm and W = 520 mm as well as the lock type "insert double bit 3 mm".

Please order:

One aluminium window 1210-U (height) - (width) = 1210-U 750-520 + 1215-U2-U327

Number of locks and hinges:

The number is determined by the selected dimensions. To determine the number please round the dimensions up to the nearest hundred mm value. The table shown indicates the corresponding quantities.

The same system is used in the price list.

Explanations for the specification of locks and hinges

Example aluminium window:

Part number 1210-U 750-520 => 800-600 => 1 lock and 2 hinges

Example aluminium window without frame:

Part number 1220-U 750-520 => 800-600 => 1 lock and 2 hinges

Height in mm \ Width in mm	300 →400	→500	→600	→700	
320 →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

Height in mm \ Width in mm	300 →400	→500	→600	→700	→800	→900	→1000	
320 →400	1/2	1/2	1/2	1/2	req.	req.	req.	
→500	1/2	1/2	1/2	1/2	req.	req.	req.	
→600	1/2	1/2	1/2	1/2	req.	req.	req.	
→700	1/2	1/2	1/2	1/2	1/2	req.	req.	
→800	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	req.	
→1000	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	
→1200	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	
→1400	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	
→1600	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	
→1800	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	
→2000	3/4	3/4	3/4	3/4	3/4	3/4	3/4	

Further parts see page

- Aluminium windows 7B-120
- Lock 7B-220
- Aluminium window without frame 7B-320

req. = on request

Complete door Program 1300



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-------	---	--------------------	---	---------------	---	-------------------	---	---------	---	-------	---	--------	---	-----------------	---	--------------	---	---------------	------



External dimensions of the complete door:
Height from 400 to 2000
Width from 400 to 1000

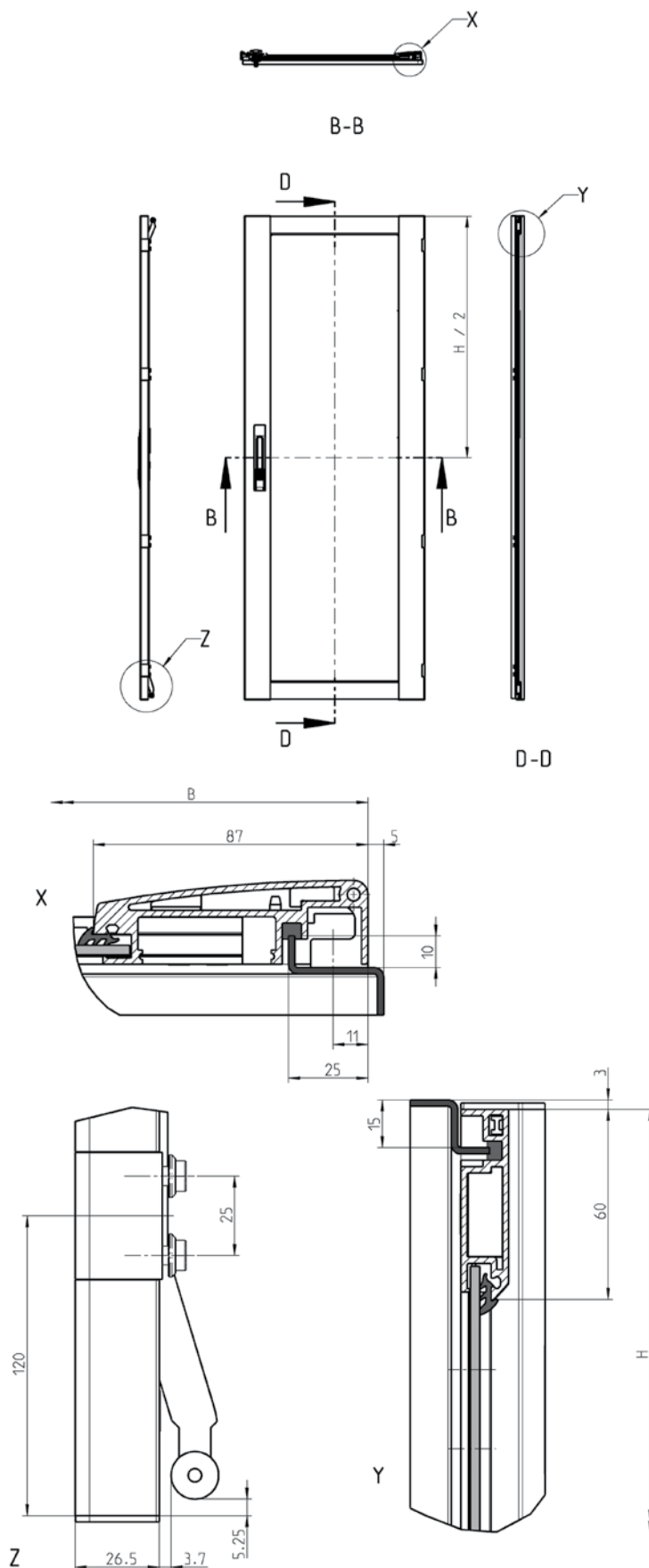
Opening angle 180°
for single cabinets.

Opening angle $< 120^\circ$
for in-line cabinets.

Further parts see page

- Locking set

3XA-120
3XA-240



Complete door anodized aluminium, acrylic glass, swinghandle 1180 polyamide black, hinge and corner bracket zinc die black powder-coated, cam and rods m.s. zinc-plated, with seal

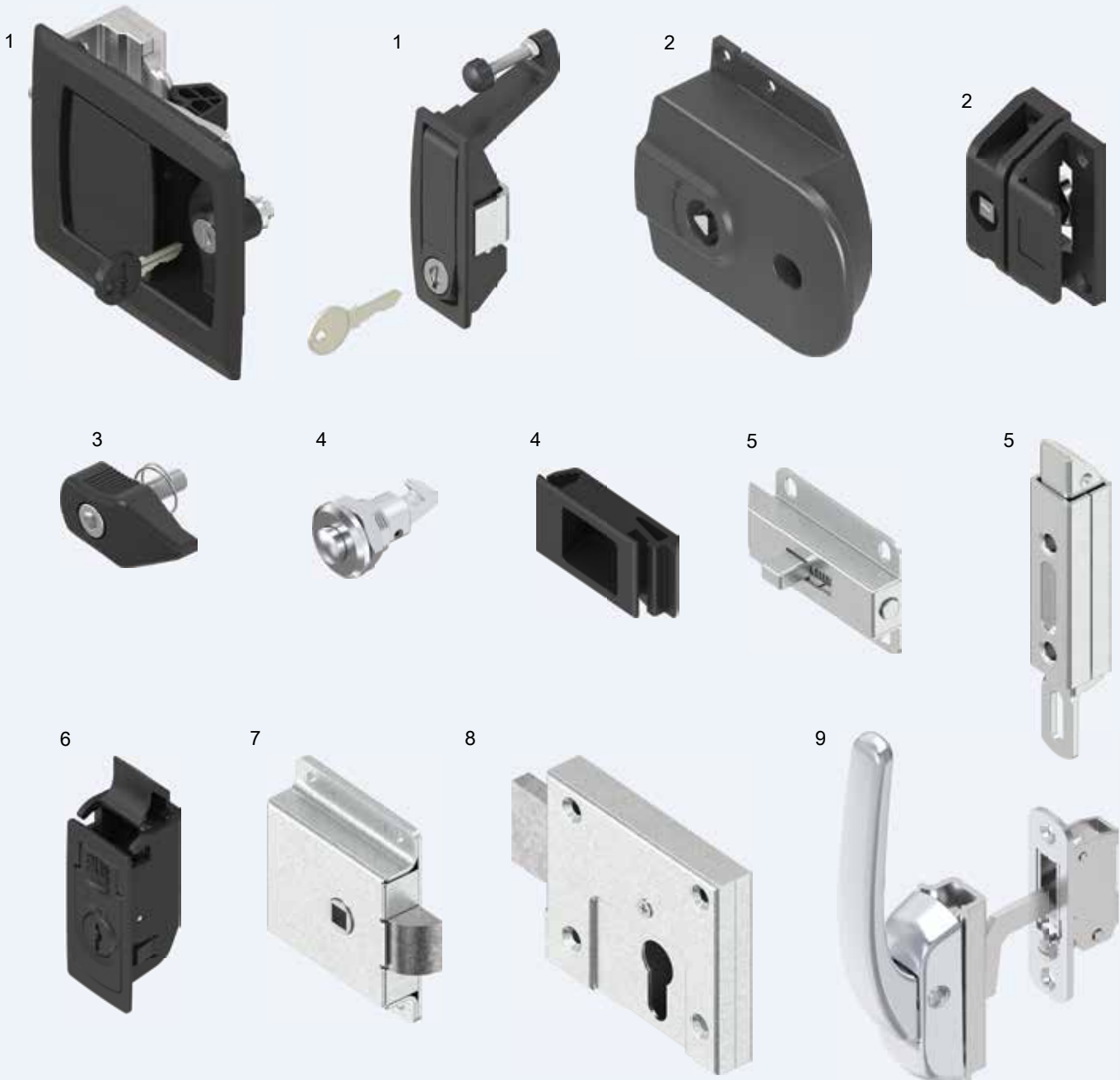
1300-U1-BxH

7C-120

(7B-120)

Locks / Latches

Chest handle, Dead-bolt lock, Slam-lock, Snap lock, Bridge clamp, Heavy duty latch

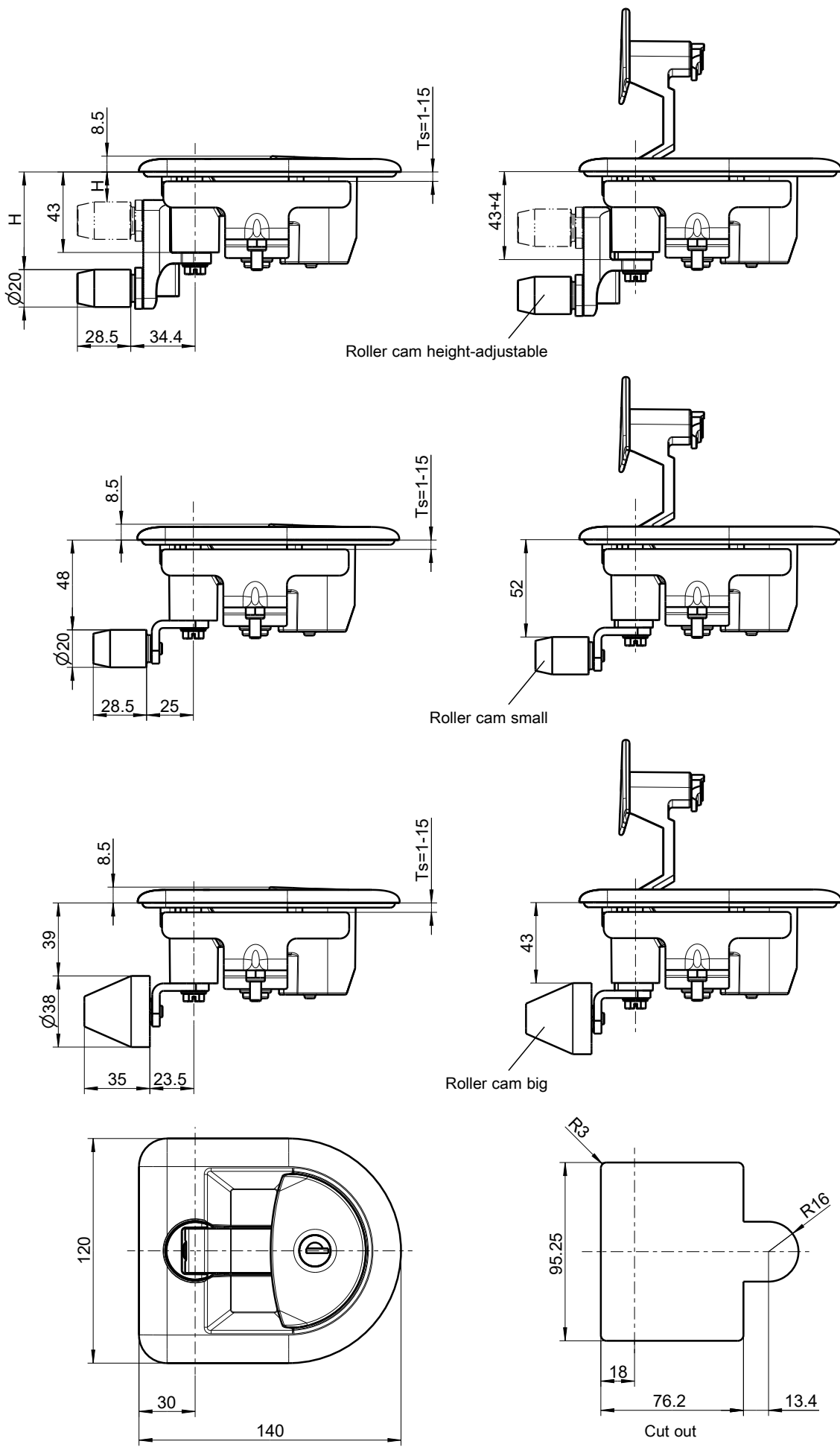


- | | | |
|---|------------------|------------------|
| 1 | Chest handle | 8A-110 to 8A-160 |
| 2 | Door lock | 8A-220 to 8A-240 |
| 3 | Bridge clamp | 8A-620 |
| 4 | Snap lock | 8A-240, 8A-420 |
| 5 | Slam-lock | 8A-320, 8A-340 |
| 6 | Side panel latch | 8A-440 |
| 7 | Slam-lock | 8A-320 |
| 8 | Dead-bolt lock | 8A-520 |
| 9 | Heavy duty latch | 8A-820 to 8A-860 |

8A-100

Chest handle

PROGRAM 1130





Handle shell and sliding sleeve polyamide GF black; handle zinc die chrome-plated; hinge pin zinc die zinc-plated; hook polyamide 66 GF 50 black; round cylinder with stainless steel cap and dust protection; holding sheet, pin, screws and nuts m.s. zinc-plated, with spring. Each round cylinder has one silver steel key with grip polyamide GF black

keyed EK 333

1130-U15

keyed different

on request

Roller cam height-adjustable

Roller polyamide GF black, cam for roller and spacer zinc die zinc-plated, square nut and screw m.s. zinc-plated

H = 16 - 52 mm

1130-U16

Further parts see page

– Roller cam small and large
Special catalogue HVACR
– Spare key 8B-140

8A-110

(12A-110; 1B-380)

Info

1 Quarter turns

2 Rod controls

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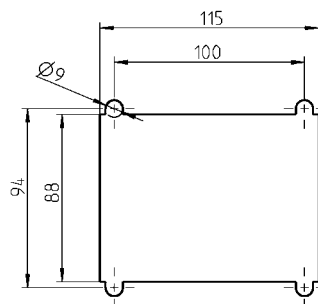


Locking bracket 9 mm adjustable

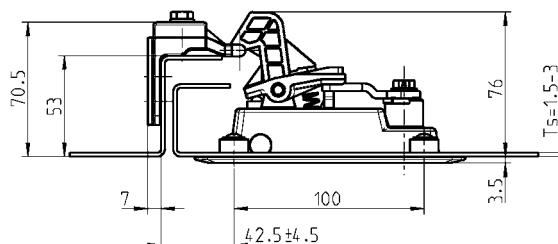
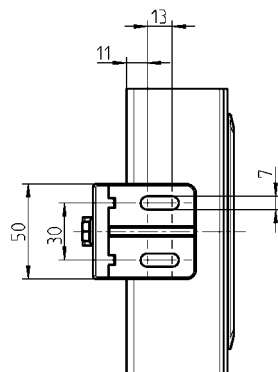
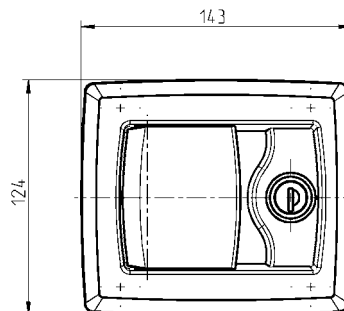
The minimum door width is 500 mm

Note:
The chest handles 1130-U1 and -U2 are made for right-hand version.

Left-hand version is created by removal of the round cylinder, rotating it by 180° and refitting it.



Cut out



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

Further parts see page
– Spare key 8B-140

Chest handle polyamide GF black, rocker lever, locking bracket and locking angle zinc die zinc-plated, round cylinder zinc die with stainless steel cap and dust protection, springs stainless steel, cam and fixing material zinc die zinc-plated, with seal. Each round cylinder has one silver steel key with grip polyamide GF black.

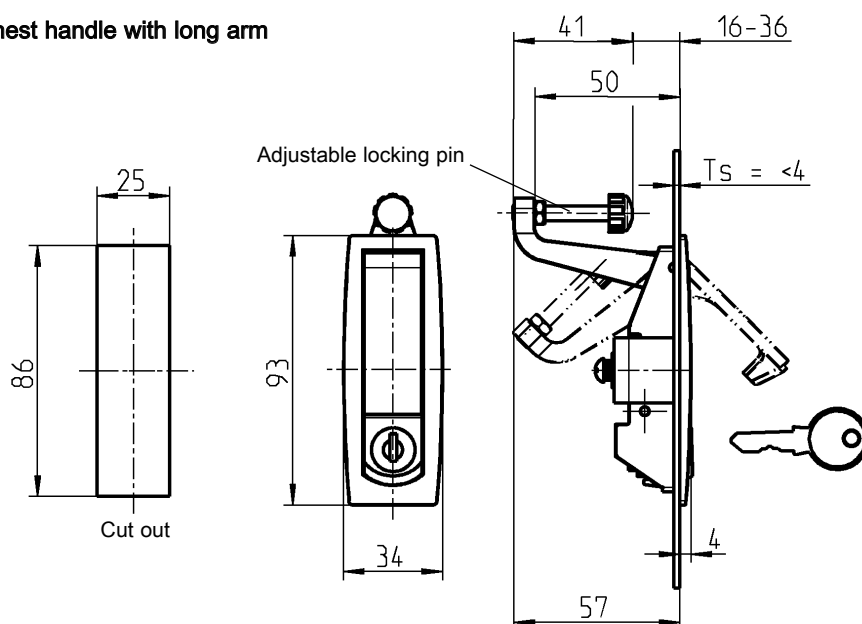
keyed EK 333	1130-U1
keyed different	1130-U2

Chest handle

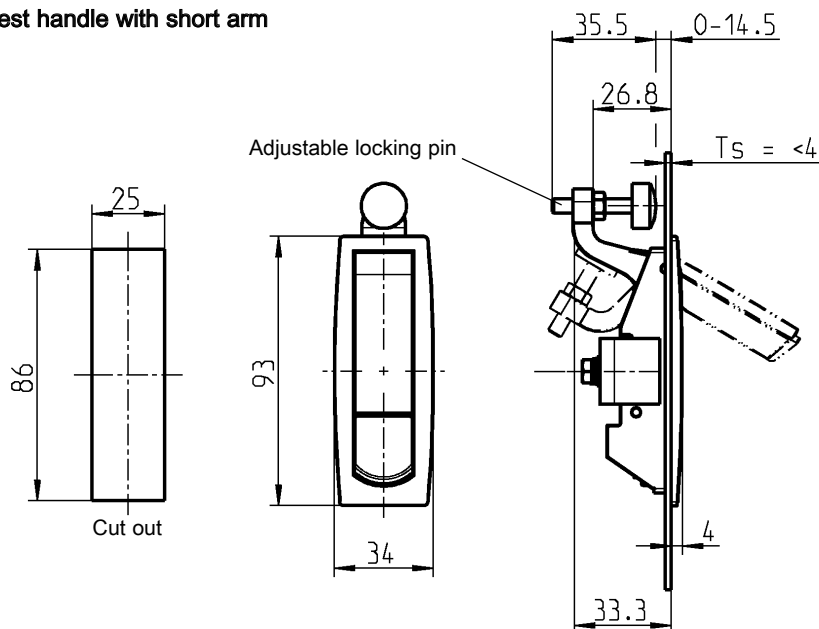
PROGRAM 1130



Chest handle with long arm



Chest handle with short arm



Chest 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 of m.s. nickel-plated.

Chest handle with long arm

keyed EK 333	on request
blank	1130-U9

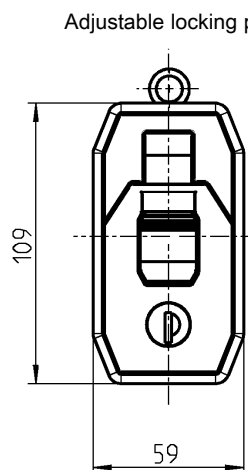
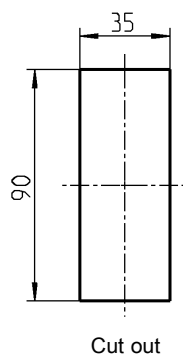
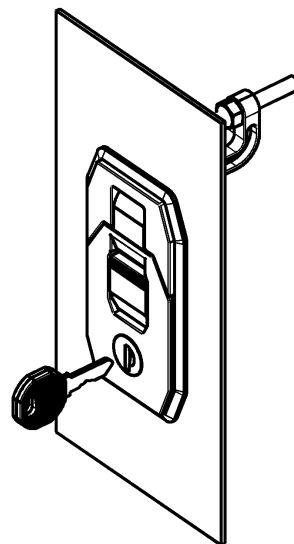
Chest handle with short arm

keyed EK 333	on request
blank	1130-U13

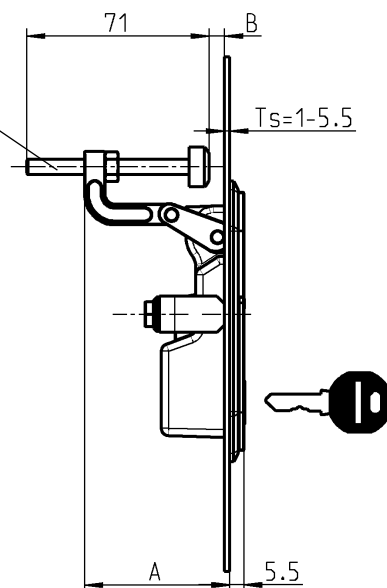
Further parts see page
– Spare key 8B-140

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
Index

Chest handle PROGRAM 1130



Adjustable locking pin



Chest handle with other
lever arm on request

Further parts see page
– Spare key

8B-140

Chest 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 protection, with seal.
Each cylinder has one silver steel key with grip polyamide GF black.

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

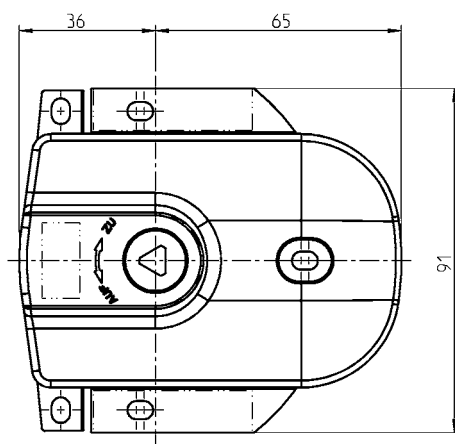
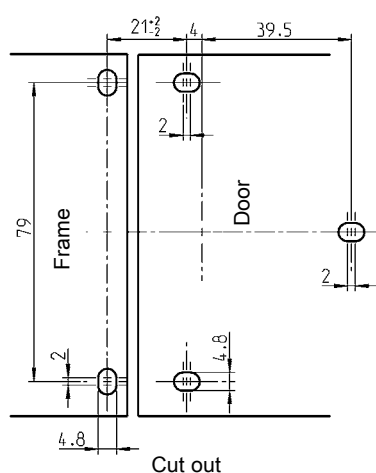
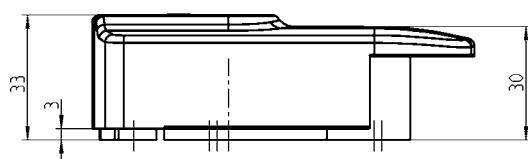
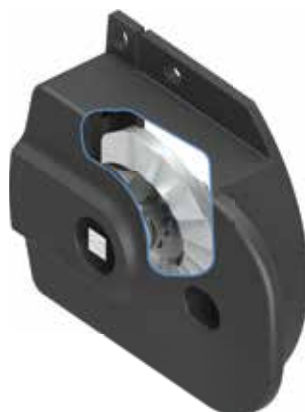
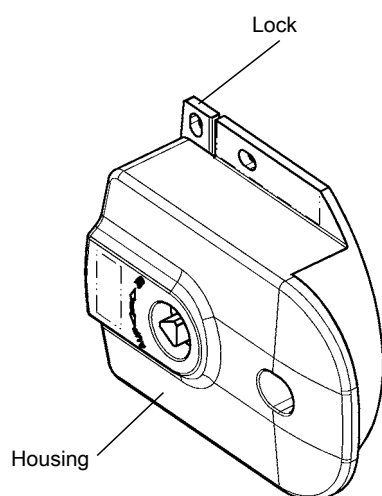
1130-U7-01V

8A-170

(12A-170)

Prominent door lock

PROGRAM 1000



Attention:
Insert not included in scope of delivery

Suitable lockable or non lockable T-handles and L-handles on request!

Further parts see page

– Insert

1B-140

– Key

8B-120

Housing and lock zinc die black powder-coated, stepped cam zinc die raw

for insert

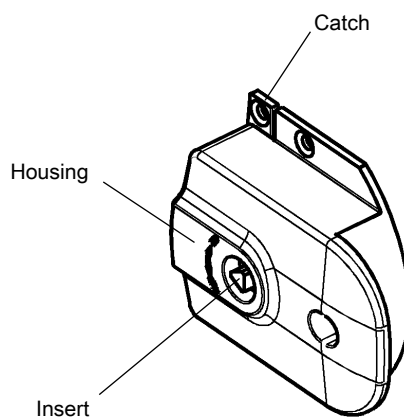
1000-U778

8A-220

(12A-220; 1B-380)

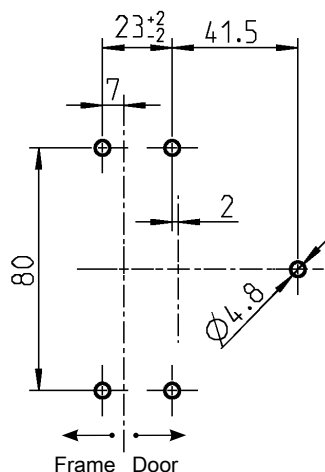
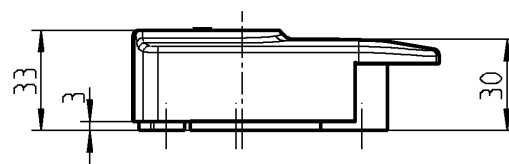


Catch

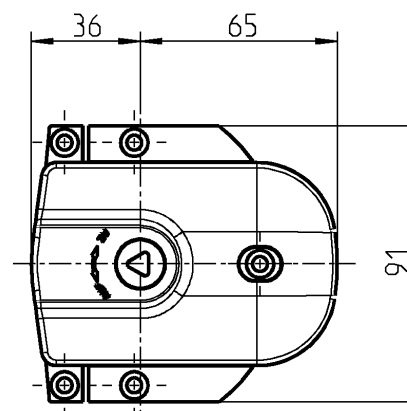


Countersinking for rivet
in housing and catch

Stepped cam



Cut out



Attention:

Insert not in included in
scope of delivery

Catch to be ordered separately

Further parts see page

– Door lock with inside handle
or pressure relief

Special catalogue HVACR

– Insert 1B-140
– Key 8B-120

**Prominent door lock zinc die black powder-coated,
stepped cam zinc die raw**

without insert

1000-U779

**Prominent door lock polyamide 66 GF 50 black,
stepped cam zinc die raw**

without insert

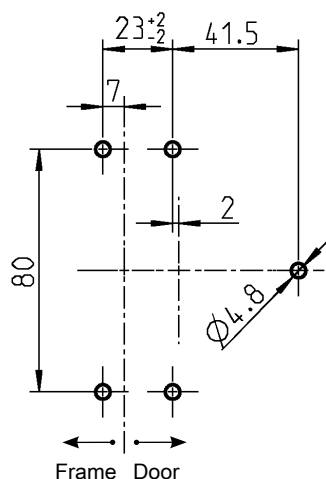
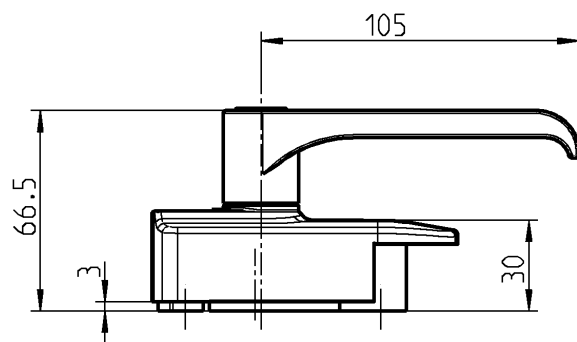
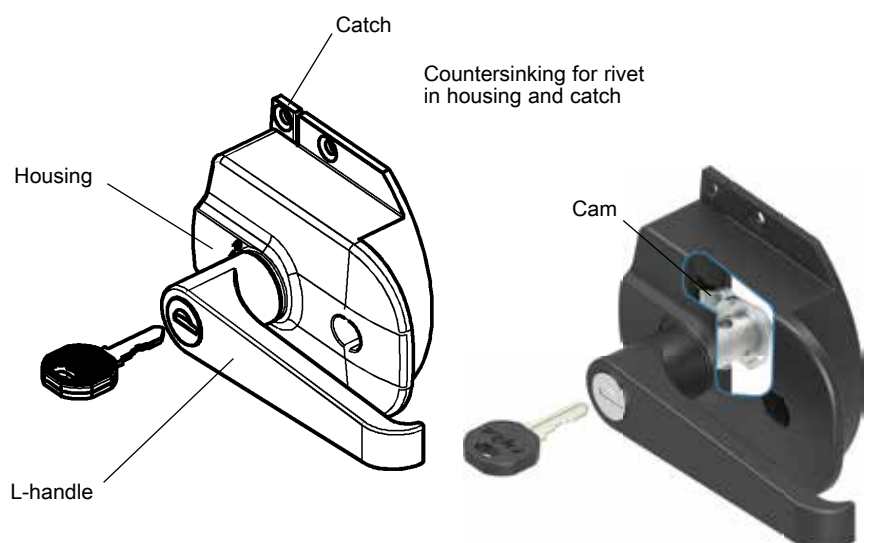
1000-U957

Catch zinc die black powder-coated

1000-488-AA

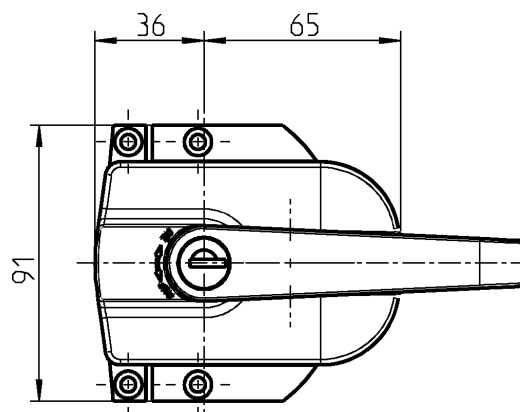
Prominent door lock

PROGRAM 1000



Frame Door

Cut out



1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

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Catch

Catch to be ordered separately

90° turn for lockable handles

Housing and catch with slotted holes on request!

Further parts see page

– Door lock with inside handle or pressure relief

Special catalogue HVACR 8B-140

– Spare key

Prominent door lock zinc die black powder-coated, L-handle polyamide GF black, stepped cam zinc die raw, screw m.s. zinc-plated

non locking

1000-U780

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

keyed EK 333

1000-U781

keyed different

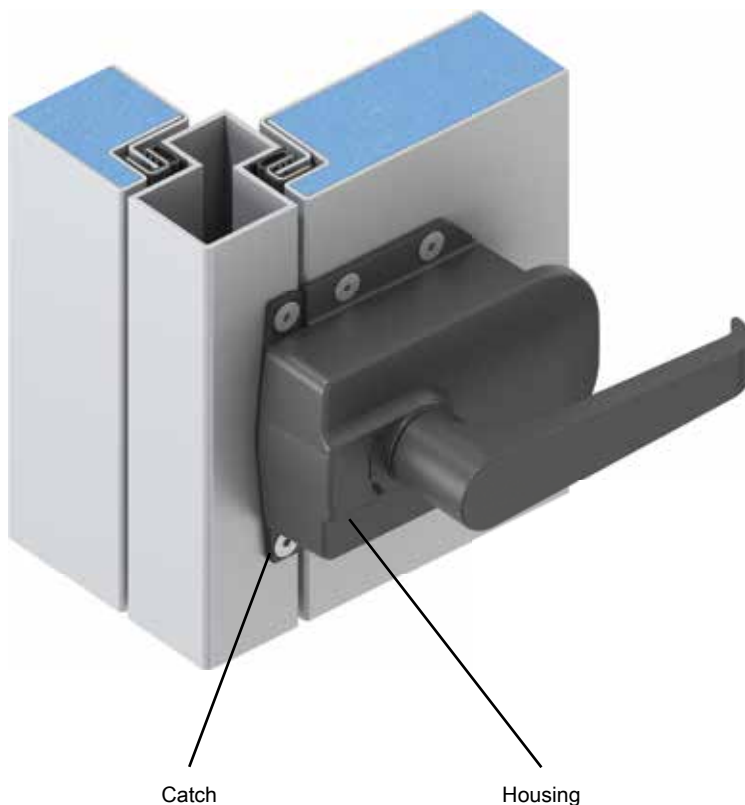
1000-U781-V

Catch zinc die black powder-coated

1000-488-AA

Prominent door lock with inside handle

PROGRAM 1000

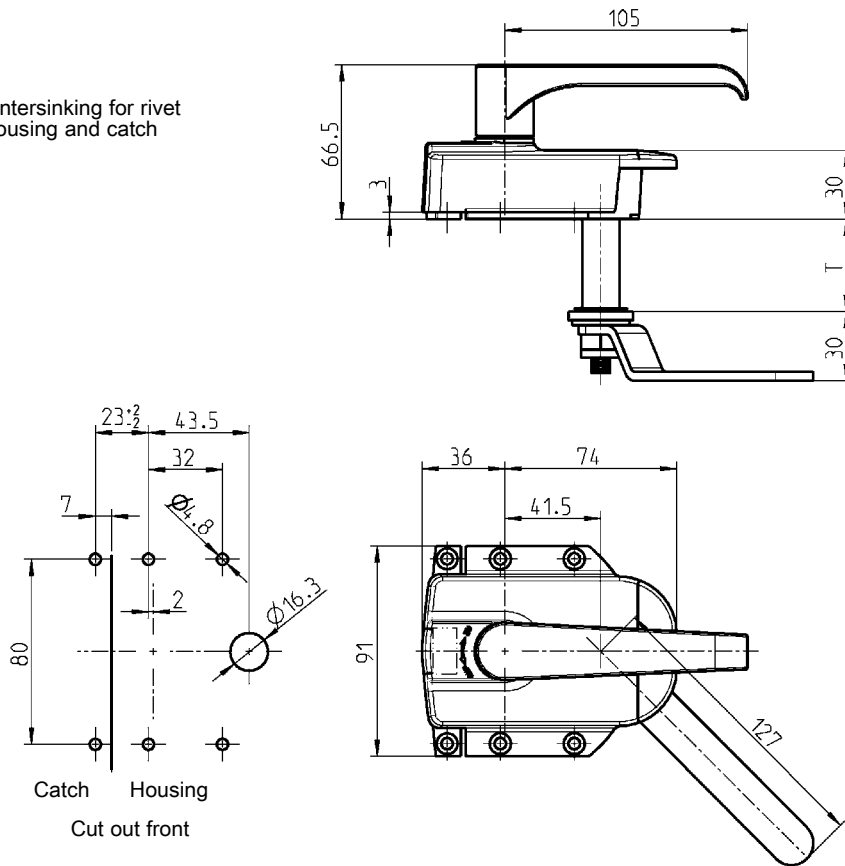


Product benefits

- New modular locking system especially for use on large doors (>1.6 m door height)
- Various inserts and handle options in combination with different cams possible (stepped cam, pressure relief cam, etc.)
- System for various door thicknesses available (30 mm - 60 mm)
- Also available as version without inside handle
- VDI 6022 / ISO 846 compliant materials



Countersinking for rivet
in housing and catch



Bore hole $\varnothing$ 16.3 continuous



Catch

Prominent door lock with inside handle:

Housing polyamide 66 GF 50 black,
L-handle, bezel, bridge and coupling piece polyamide GF black,
adapter plate POM GF black; gearwheels zinc die zinc-plated,
square shaft, cam, pin and inside handle m.s. zinc-plated,
washer, nut m.s. zinc plated, with seal

T = 50 mm

1000-U938

T = 60 mm

1000-U939

other T-dimensions and handles on request

Catch zinc die black powder-coated

1000-488-AA

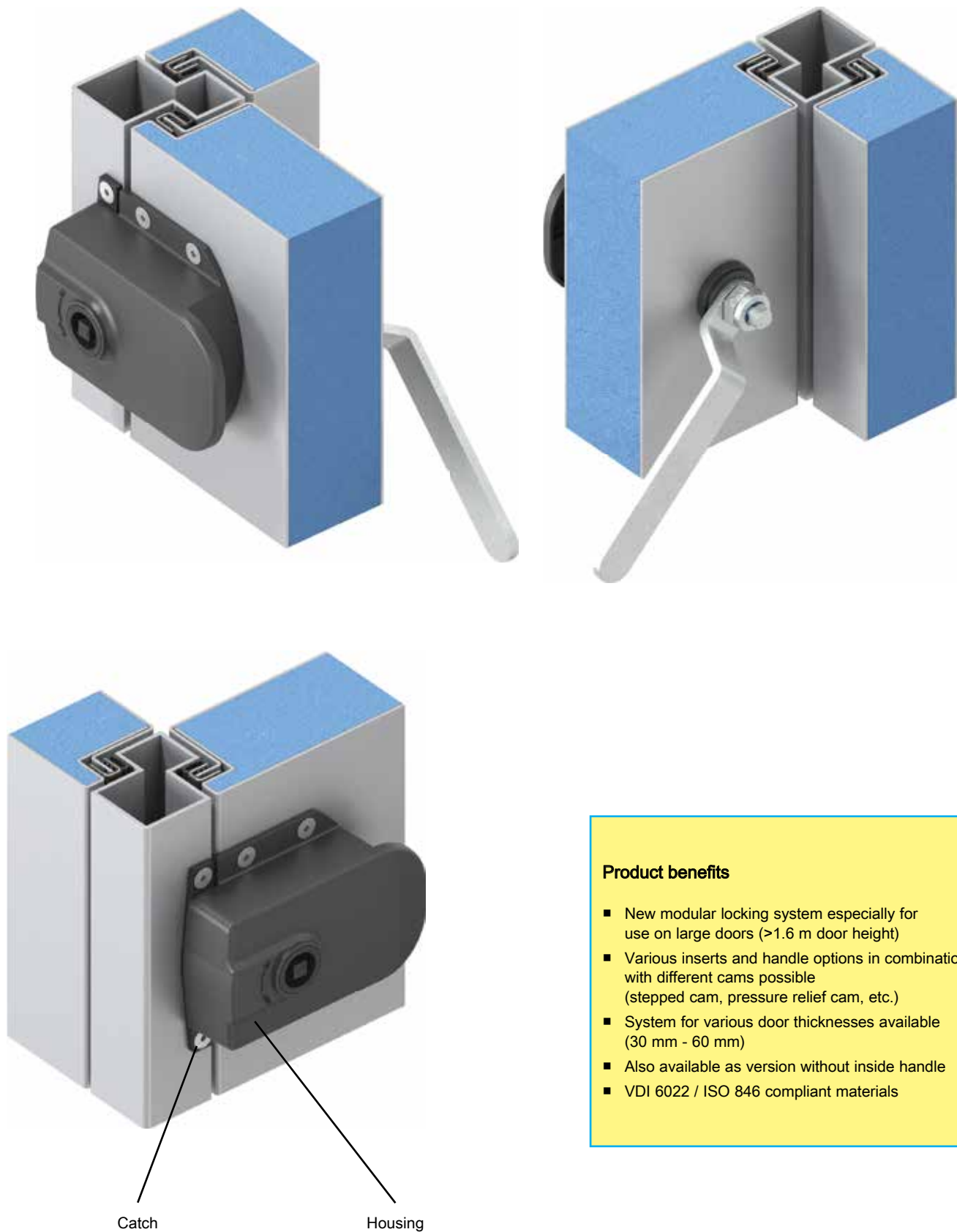
Catch to be ordered separately
90° Turn

8A-230 04/19

(12A-230)

Prominent door lock with inside handle

PROGRAM 1000

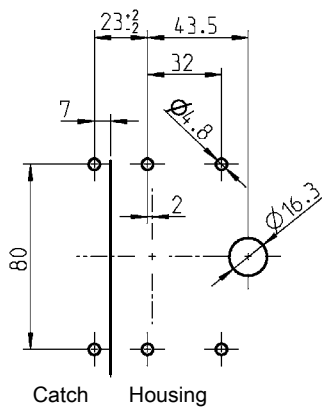
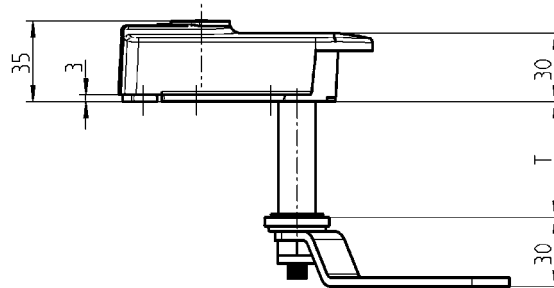


Product benefits

- New modular locking system especially for use on large doors (>1.6 m door height)
- Various inserts and handle options in combination with different cams possible (stepped cam, pressure relief cam, etc.)
- System for various door thicknesses available (30 mm - 60 mm)
- Also available as version without inside handle
- VDI 6022 / ISO 846 compliant materials

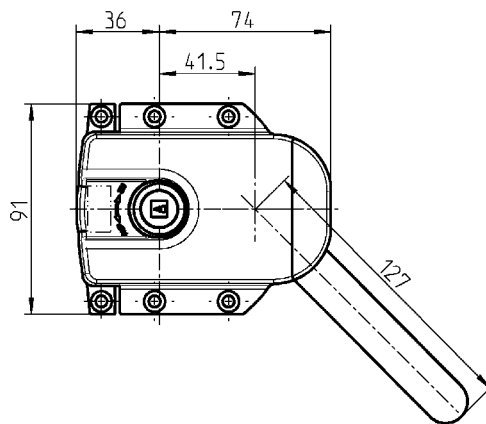


Countersinking for rivet
in housing and catch



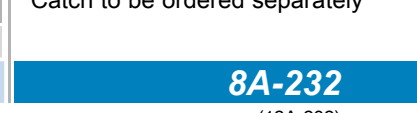
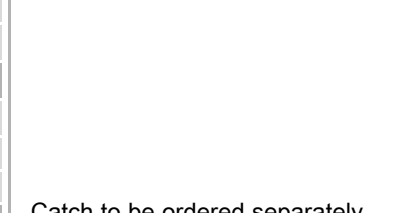
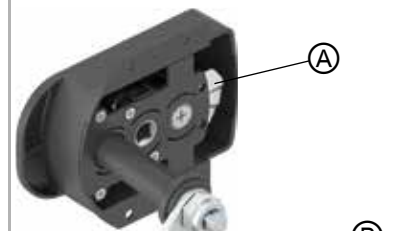
Cut out front

Bore hole Ø 16.3 continuous



Ⓐ = Door lock with stepped cam

Ⓑ = Door lock with pressure relief cam



Prominent door lock with inside handle:
Housing polyamide 66 GF 50 black,
bezel, bridge and coupling piece polyamide GF black,
adapter plate POM GF black; gearwheels zinc die zinc-plated,
insert zinc die black powder-coated,
Ⓐ stepped cam zinc die,
Ⓑ double cam m.s. zinc-plated,
square shaft, pin and inside handle m.s. zinc-plated,
washer and nut m.s. zinc-plated, with seal

Ⓐ = Door lock with stepped cam

Square 7, T = 50 mm	1000-U943
---------------------	-----------

Square 7, T = 60 mm	1000-U944
---------------------	-----------

Ⓑ = Door lock with pressure relief cam

Square 7, T = 50 mm	1000-U945
---------------------	-----------

Square 7, T = 60 mm	1000-U946
---------------------	-----------

other T-dimensions and inserts on request

Catch zinc die black powder-coated

	1000-488-AA
--	-------------

Catch

Catch to be ordered separately

8A-232

(12A-232)

IP₆₅

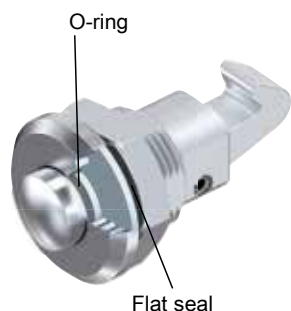
Small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

*** not included in the scope of delivery**

Further parts see page

– Key

8B-120



O-ring

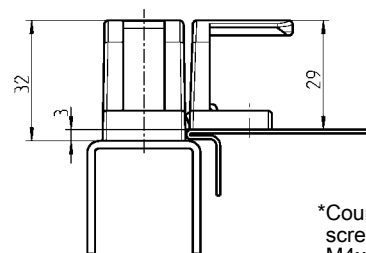
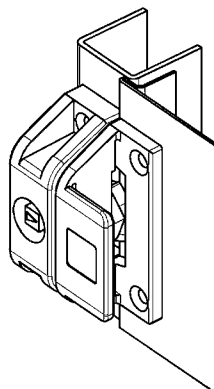
Flat seal

with seal IP 65

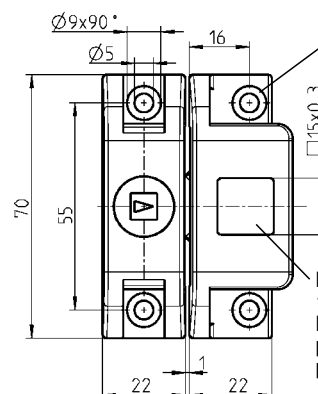
8A-240 06/07

(12A-240; 1B-360)

Cam lock



*Countersunk
screw small head
M4x...

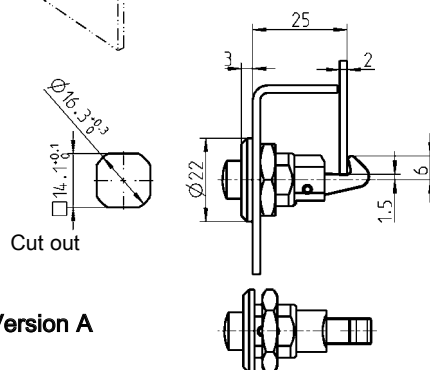
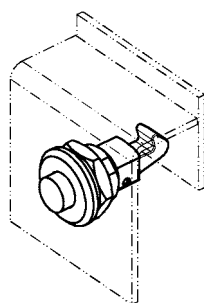


Logo recess
15 x 15 x 0.3
Multicolour
pad printing
possible.

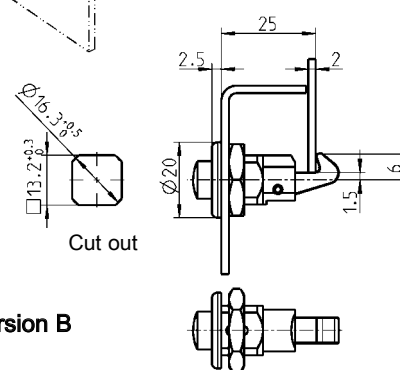
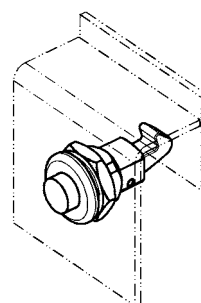
Cam lock polyamide black, insert zinc die chrome-plated.
cam, screw and spring washer m.s. zinc-plated

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, with or without seal

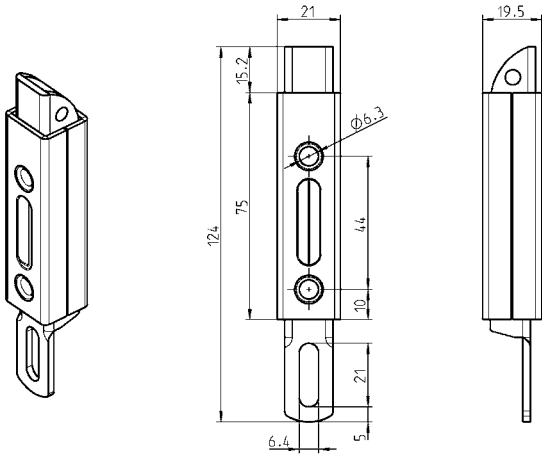
Version A		Version B	
without seal	1047-U3	without seal	1047-U2
with seal IP 65	1047-U5	with seal IP 65	1047-U4

Items printed in gray without stock

Slam-lock

PROGRAM 1034, 1085

Slam-lock

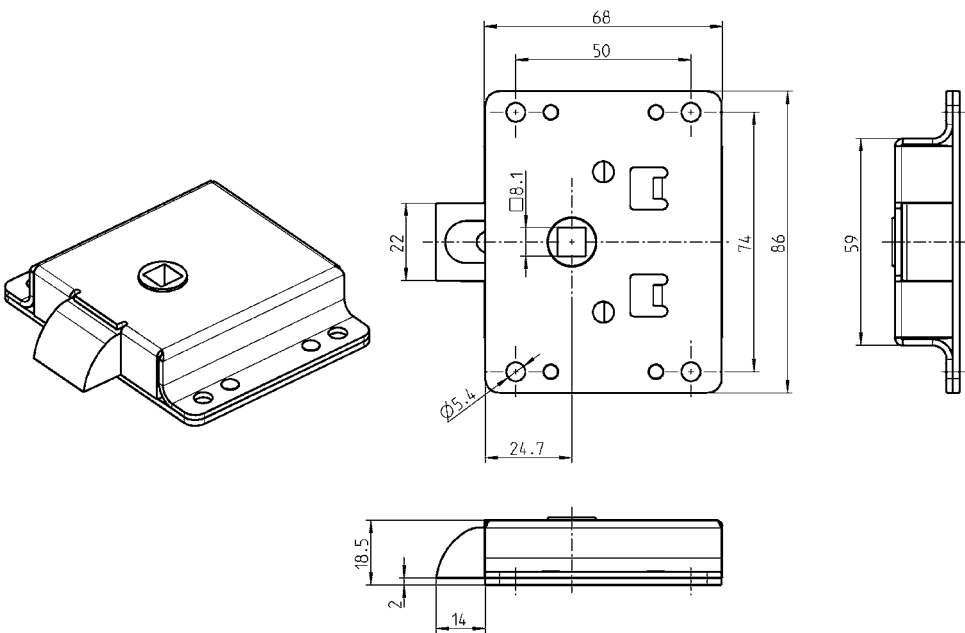


Rod connection can be bent for hand-operation on request

Slam-lock m.s. zinc-plated

1085-U1

Slam-lock



Slam-lock m.s. zinc-plated, lock and nut zinc die raw, compression spring material spring steel

1034-U1



Further parts see page
– Support and insert
1C-360

Info	
1 Quarter turns	
2 Rod controls	
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
9 Special catalogues	
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Slam-lock PROGRAM 1053

Version A



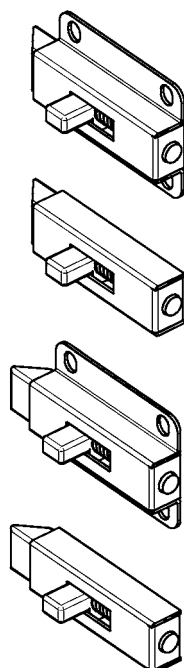
Version B



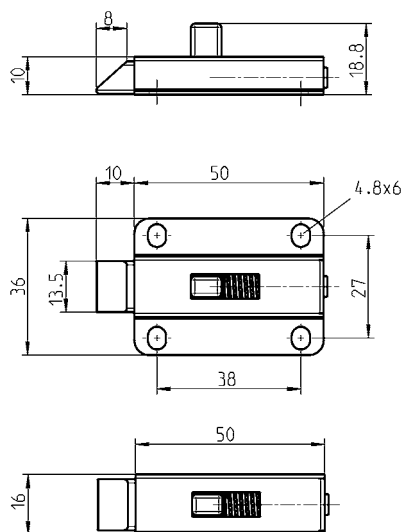
Version A



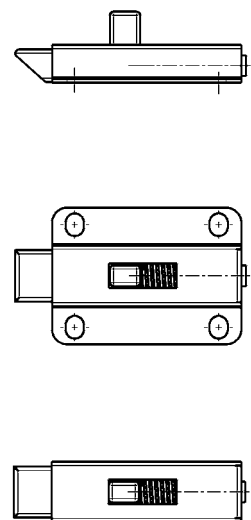
Version B



Version A



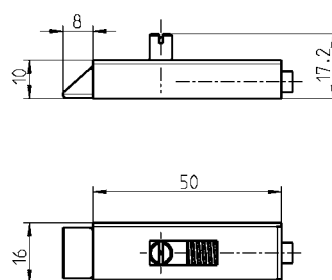
Version B



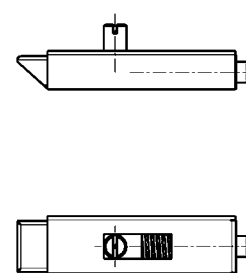
Slam-lock m.s. zinc-plated resp. m.s. raw, locking bolt zinc die zinc-plated

	Version A	Version B
screw-on, m.s. zinc-plated	1053-U1	1053-U2
weld-on, m.s. raw	1053-U3	1053-U4

Version A



Version B

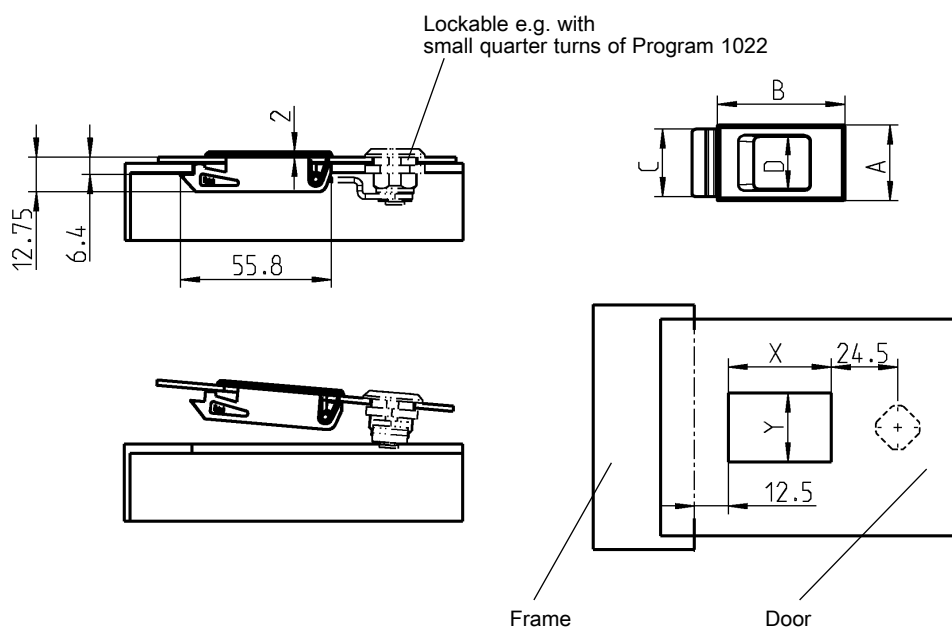
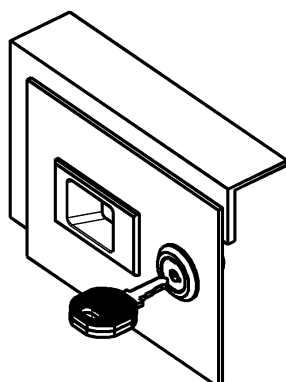


Dismountable for welding on!

Slam-lock m.s. raw, locking bolt zinc die zinc-plated

	Version A	Version B
weld-on	1053-U5	1053-U6

Snap lock, clip-in PROGRAM 1091



Snap lock 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

Suitable for door thicknesses from 1.2 to 2.2 mm

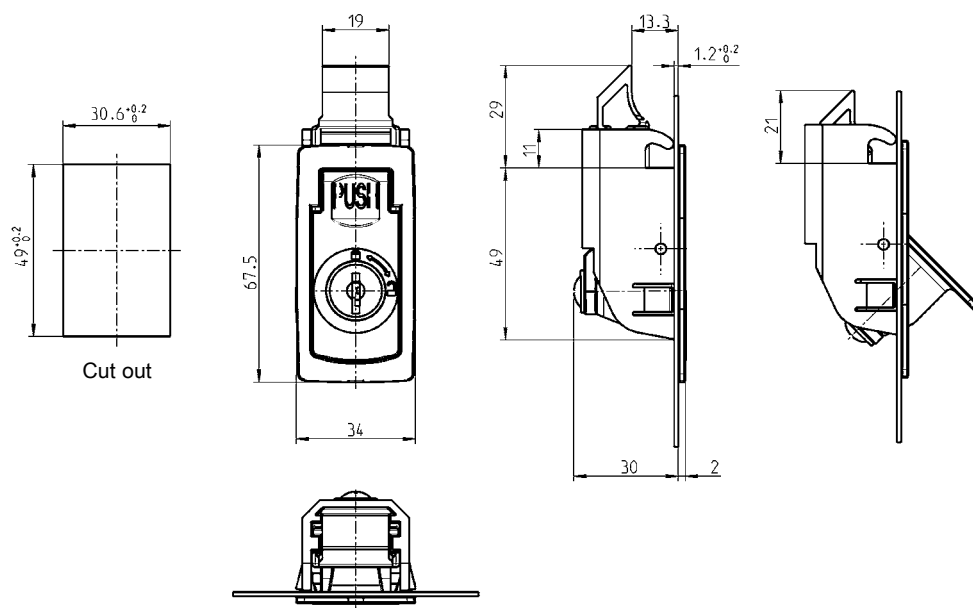
Further parts see page
– Quarter turn 1A-120 to 1A-160

8A-420 01/10

(12A-420; 6B-290)



Open condition



Further parts see page
– Spare key

8B-140

8A-440

(12A-440)

Side panel latch polyamide GF black, screw m.s. zinc-plated
Each round cylinder has one silver steel key with grip polyamide GF black.
Key removable in both positions

keyed EK 333

1091-U143

keyed different

1091-U143-01V

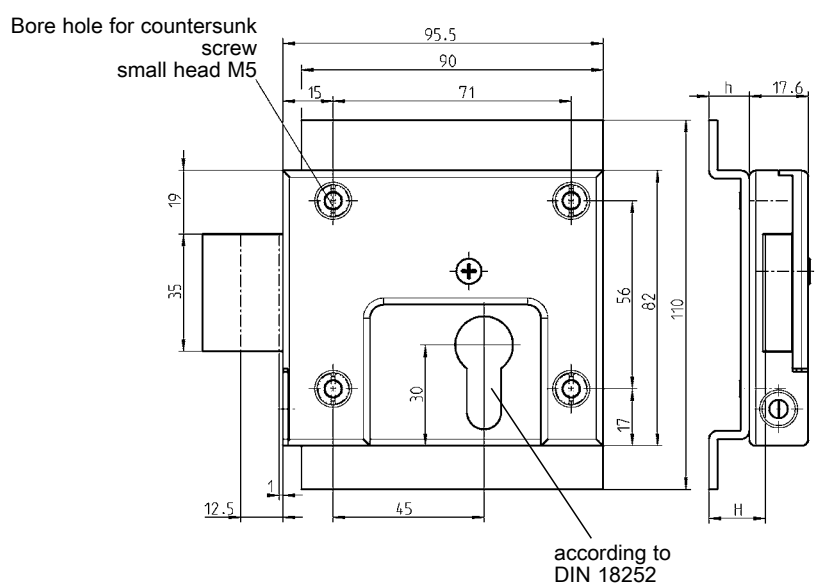
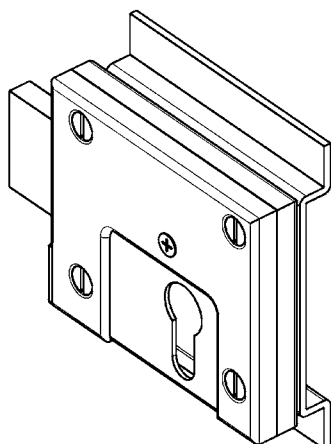
blank

1091-U143-02

Dead-bolt lock

PROGRAM 1080

Dead-bolt lock



Dead-bolt lock for LH and RH version

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	on request
26.5	22	50	on request

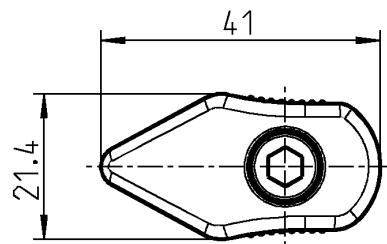
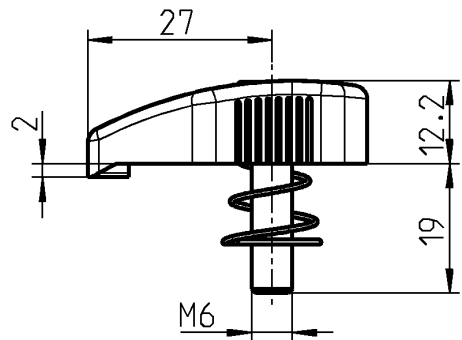
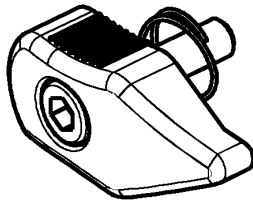
Further parts see page
– Profile half cylinder 2B-220

8A-520 08/16

(12A-520; 6A-310)

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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Bridge clamp
PROGRAM 1076



Bridge clamp polyamide black;
cylinder screw m.s. zinc-plated;
with spring

1076-U13

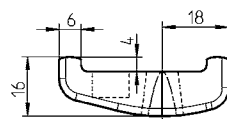
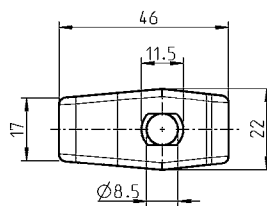
Version A



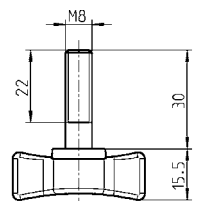
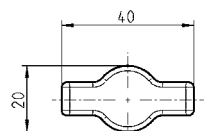
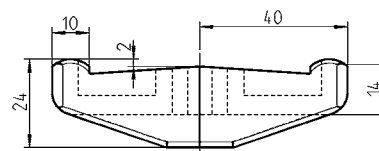
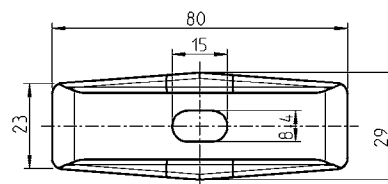
Version B



Version A



Version B



Bridge clamp polyamide GF black

Version A

Version B

1076-19

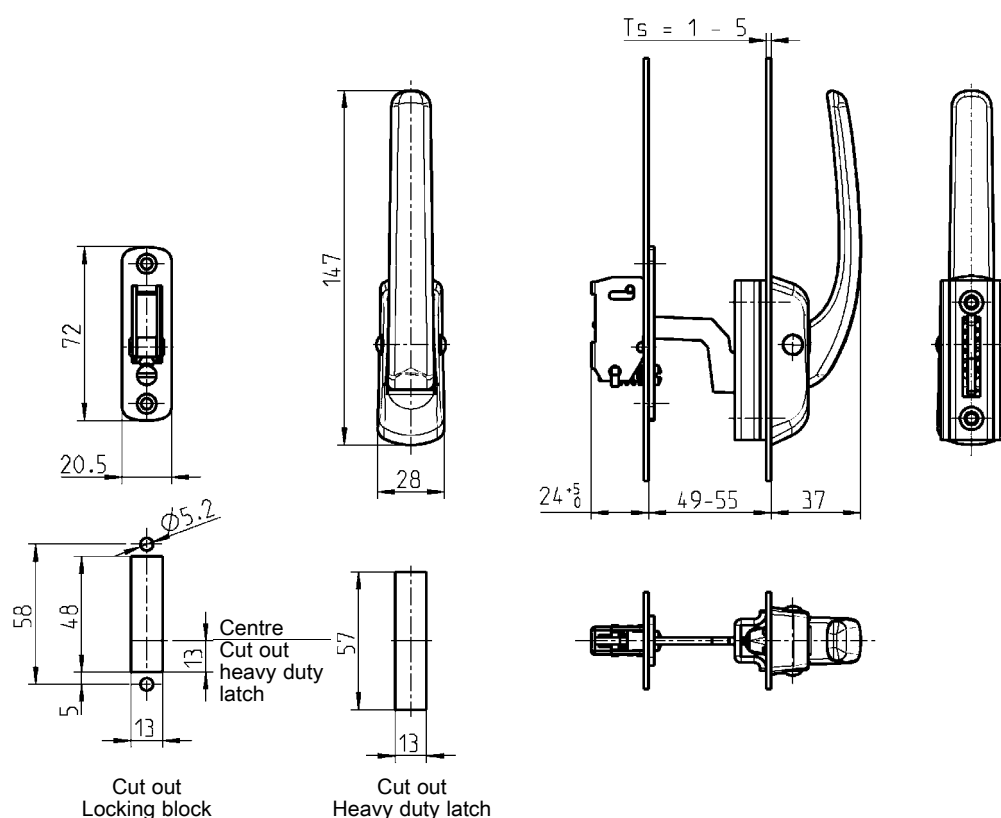
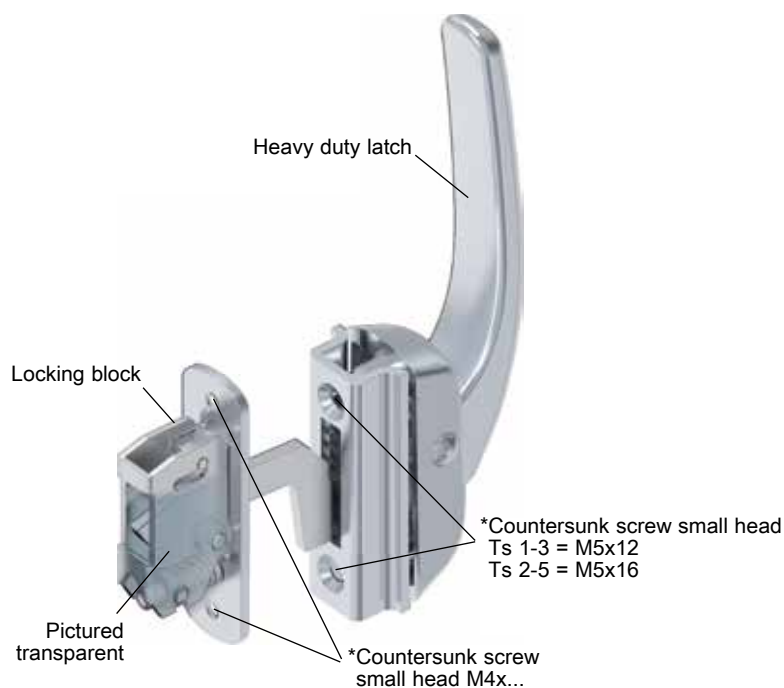
1076-20

Tommy screw m.s. zinc-plated; wing knob polyamide GF black

1076-15

Heavy duty latch with adjustable locking block

PROGRAM 2074



* not included in the scope of delivery

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 set screw AISI 303, with spring

2074-U372-156IK

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
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9 Special catalogues
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Application:
The lock can be mounted on refrigerators, for example.

Version A

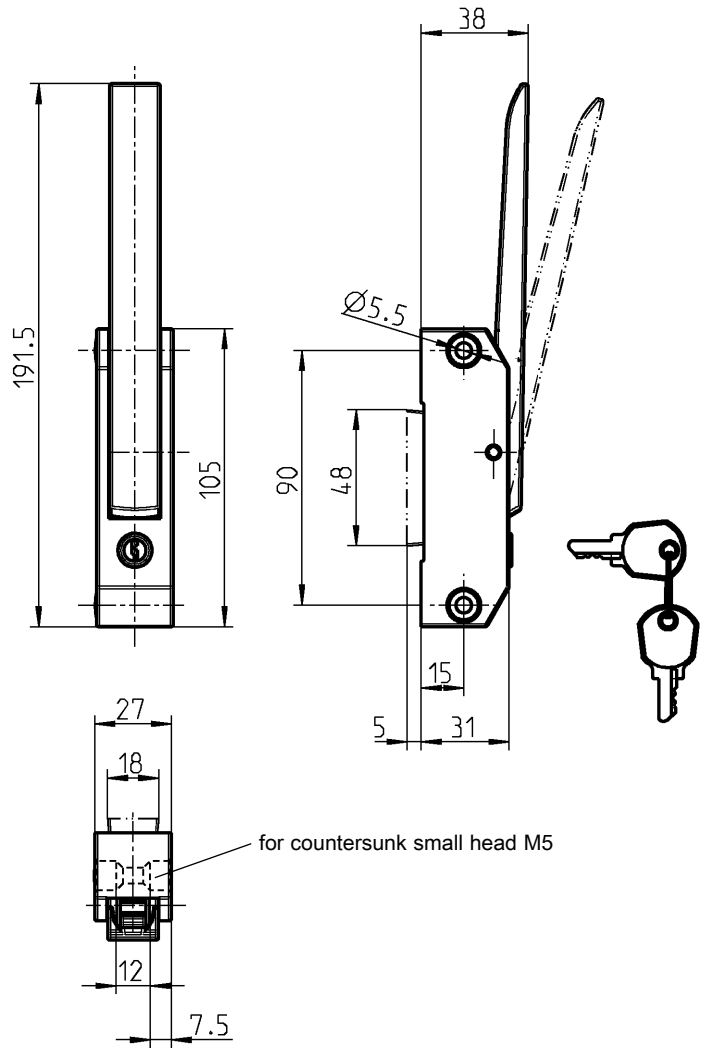
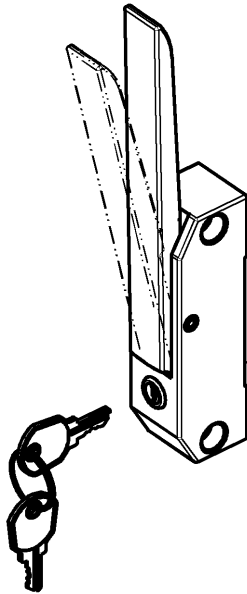


Version B

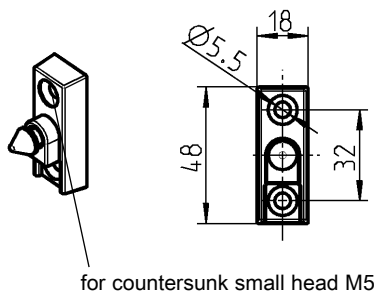


Small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

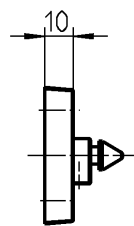
Lock



Clamps base with adjustable clamp

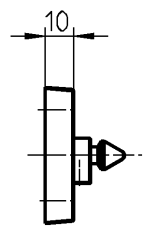


Version A



The door cannot be pushed open from inside.

Version B



The door can be pushed open from inside, if the round cylinder is not closed. (chamfered clamp)

Lock zinc die gloss chrome-plated, clamp and other components m.s. zinc-plated thick-film passivated plus top coat sealed, two plugs polyethylen grey, with spring. Each round cylinder has two silver steel nickel plated keys at a ring.

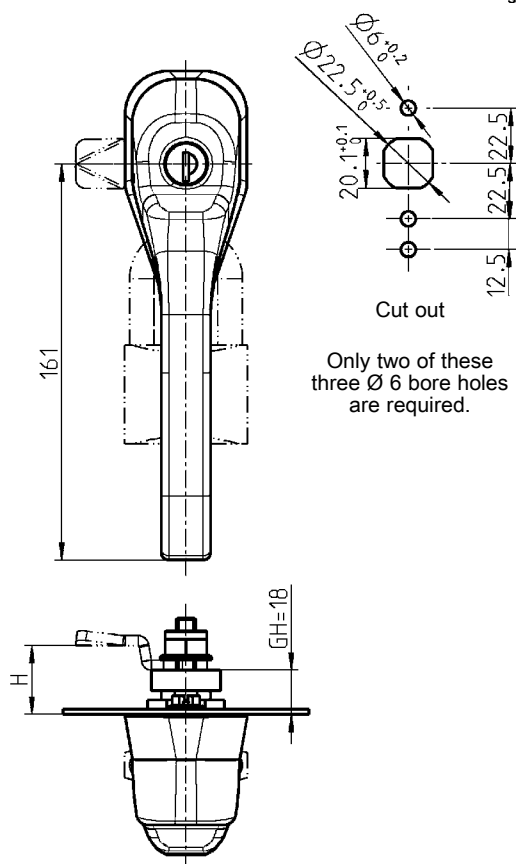
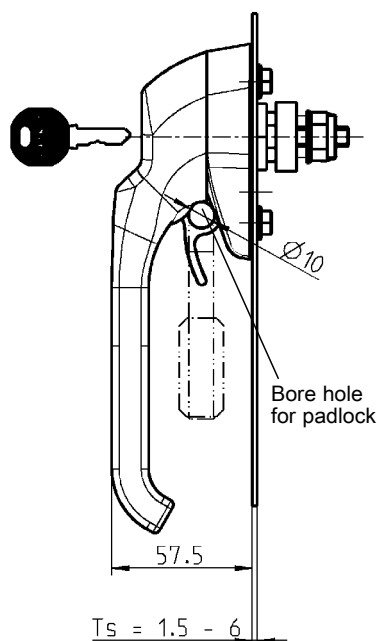
non locking	2074-U130-IK
keyed different	2074-U132-IK
keyed alike	on request

Clamp stainless steel, clamp base zinc die chrome-plated, threaded stud m.s. zinc-plated

Version A	2074-U111-IA
Version B	2074-U113-IA

Heavy duty latch

PROGRAM 1091



Handle zinc die black powder-coated;
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 grip polyamide GF black.

with spring-loaded return

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 SW 8	1091-U134
Square 7	1091-U126	Hexagon female SW 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 Ø 13 half-round	1091-U139

without spring-loaded return

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

with spring-loaded return

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 to 1C-160
- Ramp 1C-170
- Key 8B-120
- Spare key 8B-140

Info	
1 Quarter turns	Beschlagteile
2 Rod controls	Notes:
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
9 Special catalogues	
Index	

Keys

Program 1004, 1108



- | | | |
|---|-----------------------------|--------|
| 1 | Key large, e.g. with square | 8B-120 |
| 2 | Key double bit large | 8B-120 |
| 3 | Key small, e.g. with square | 8B-120 |
| 4 | Key small, e.g. with square | 8B-120 |
| 5 | Key double bit small | 8B-120 |
| 6 | Key FIAT | 8B-120 |
| 7 | Key square male 6.5 – 8.5 | 8B-120 |
| 8 | Universal key | 8B-120 |
| 9 | EMKA key, e.g. keyed EK 333 | 8B-140 |

8B-100

Key

PROGRAM 1004

Form A

Form B

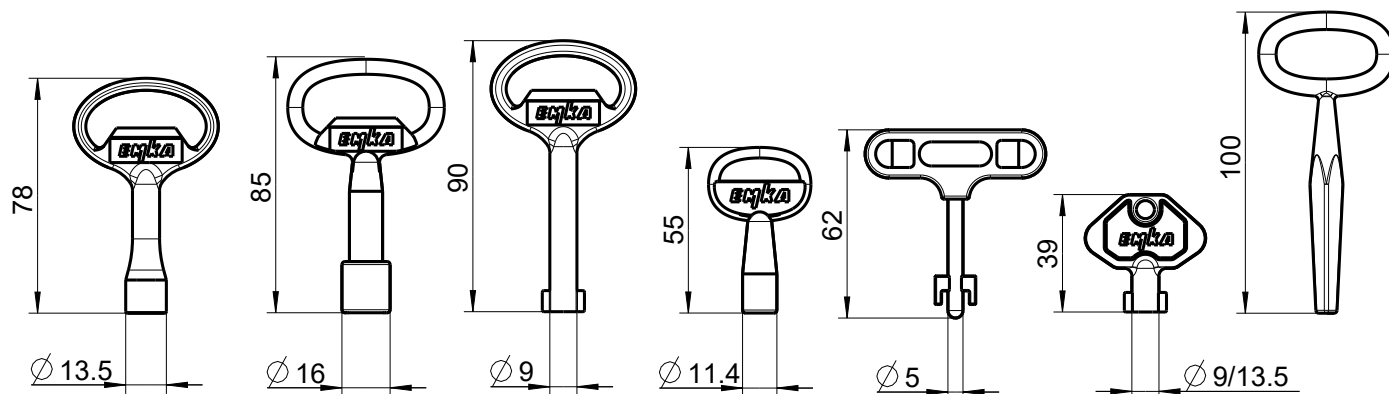
Form C

Form D

Form E

Form F

Form G



Keys can be supplied with customer logo on request

Minimum quantity: Form A, B, C, D

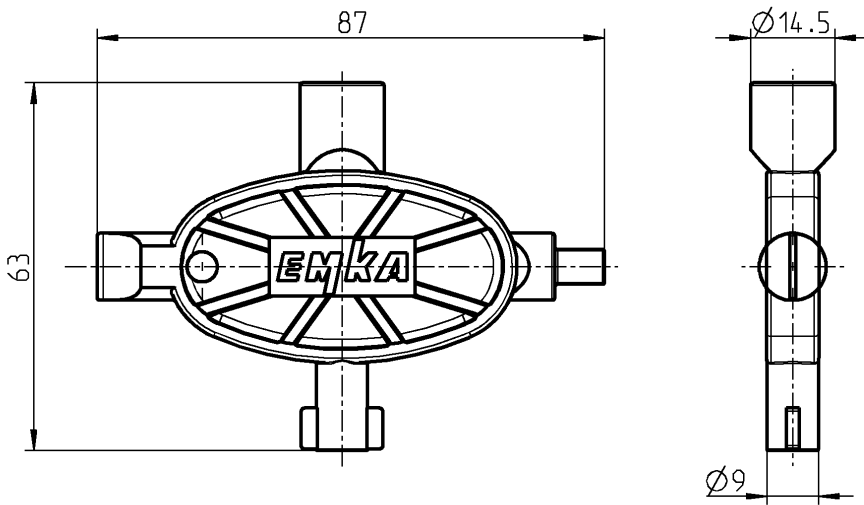
2,000 pieces

Minimum quantity: Form E, F, H

5,000 pieces

Key form	A	B	C	D	E	F	G
	Zinc die black p.c.	Zinc die black p.c.	Zinc die black p.c.	Zinc die black p.c.	Zinc die / Polyamide GF black	Polyamide GF 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 type 1	1004-26	—	—	—	—	—	—
Triangular 7	1004-03	—	—	—	—	1004-39	—
Triangular 8	1004-04	—	—	—	—	1004-38	—
Triangular 10	—	1004-24	—	—	—	—	—
Crown type	—	1004-31	—	—	—	—	—
Eastern Europe Ø 13 half-round	—	1004-42	—	—	—	—	—
Double bit 3	—	—	1004-05	—	—	1004-34	—
Double bit 5	—	—	1004-06	—	—	1004-33	—
Hexagon SW 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 male 8 with bore hole	1004-49	—	—	—	—	—	—
Tube	—	—	—	1004-51	—	—	—

Form H

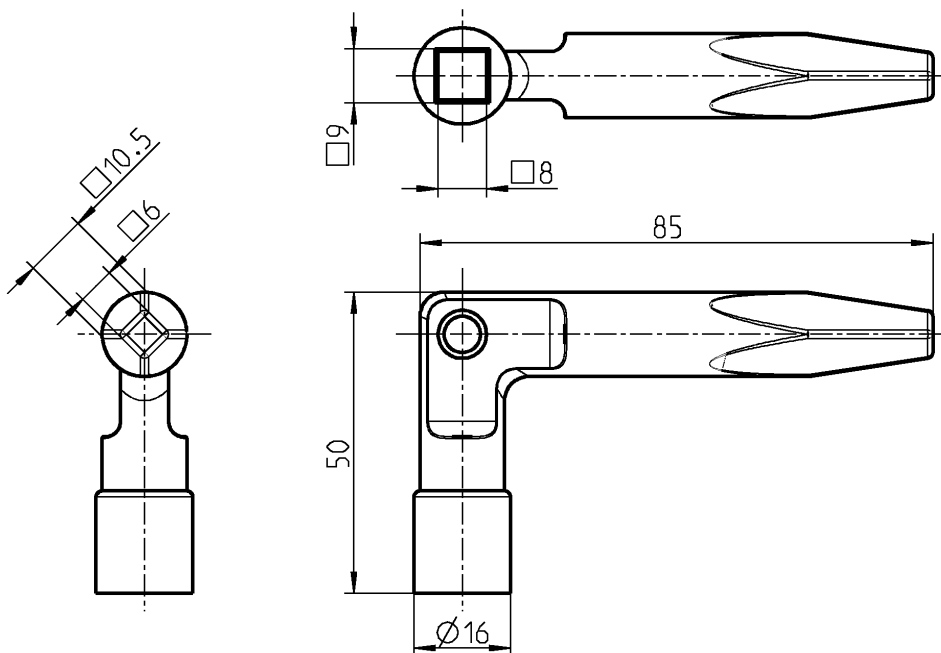


Form H, universal key, polyamide GF blue

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

1004-48

Form I



Form I, version railway, zinc die black powder-coated

Square 8 - 9, square male 6 - 10.5

1004-52



Attention:
Keys of form
A, B, C, E, F, G and I
not suitable for Program 1022

Stainless steel key on request

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

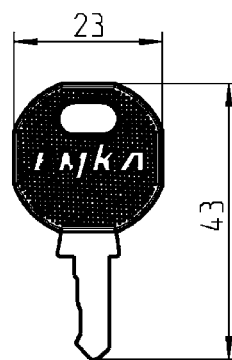
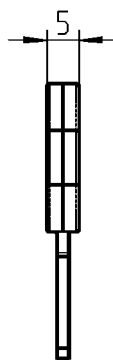
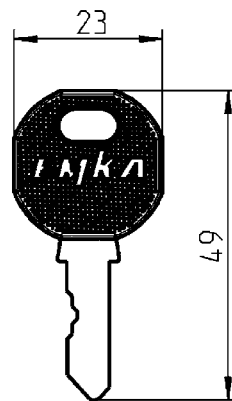
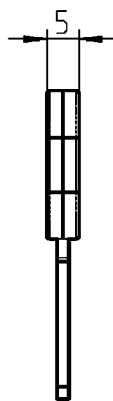
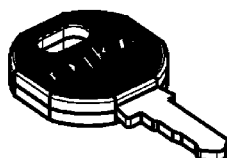
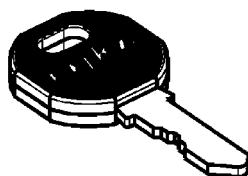
6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

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Note:
Further keys on request

EMKA key silver steel with grip polyamide black for Program
1000, 1048, 1091, 1109, 1121, 1125, 1150, 1160, 1180, 1200, 1210, 1225, 2100, 2400,

Key EK 333

1108-U35

keyed different

1108-U36-key system

for Program 1022, 1109, 1200, 2100, 2400

Key 2233X

1108-U37

keyed different

1108-U38-key system

Cover stays and Door stops



1



2



3



4



5

- 1 Double stay, self-catching
- 2 Telescopic cover stay with push button, self-catching
- 3 Telescopic cover stay, self-catching
- 4 Cover stay with locking pawl
- 5 Door stopper

8C-120
8C-140
8C-160
8C-180
8C-220

8C-100

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

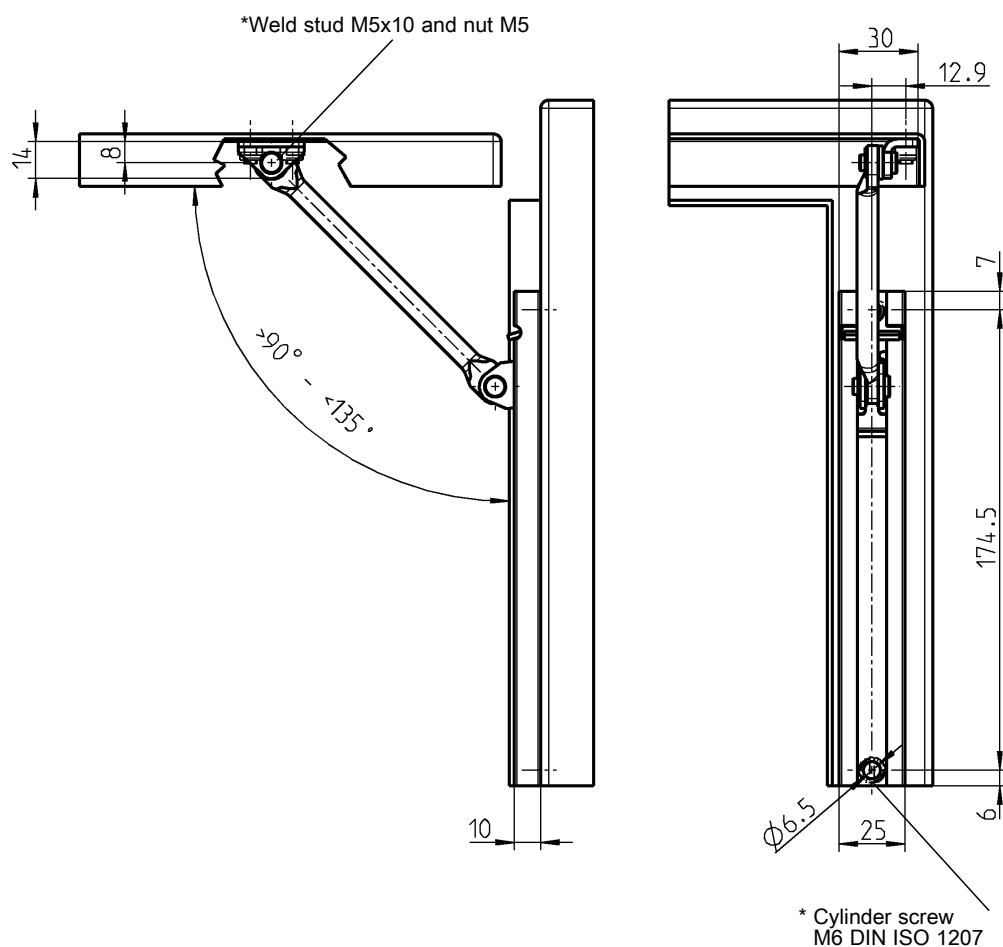
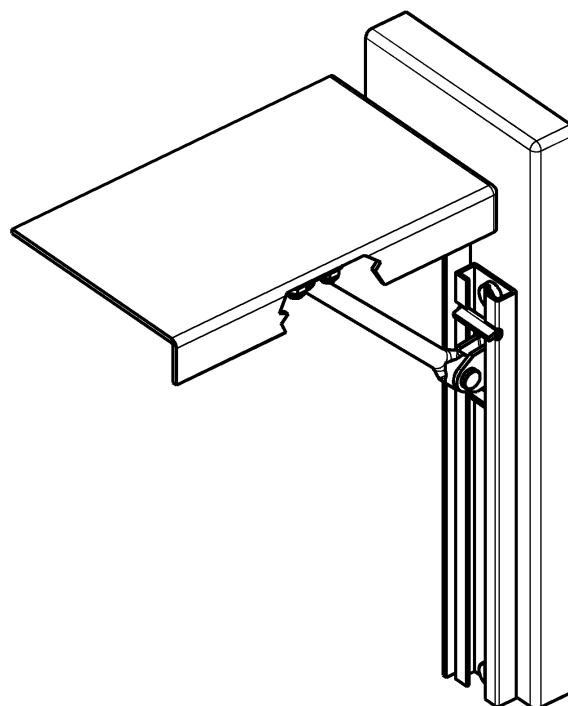
6 Handles

7 Aluminium windows

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*not included in the scope of delivery

The opening angle of 90°–135° depends on choice of hinge.

Further parts see page

– Hinge for prominent door Chapter 4

Cover stay m.s. zinc-plated

1050-U3

8C-120

(12C-120; 6A-170)

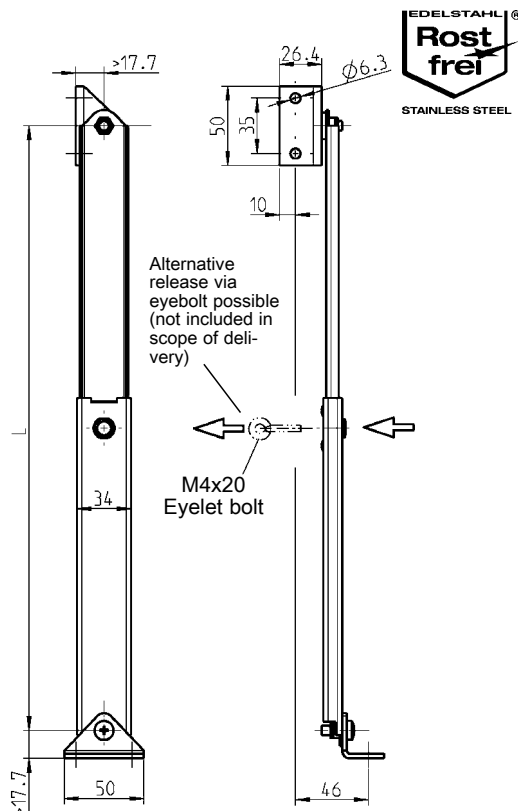
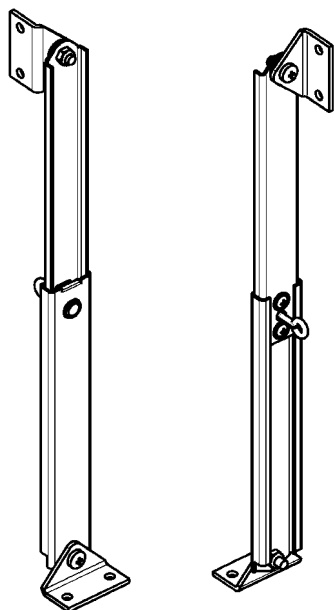
Telescopic cover stay with push button to release PROGRAM 1097

EMKA

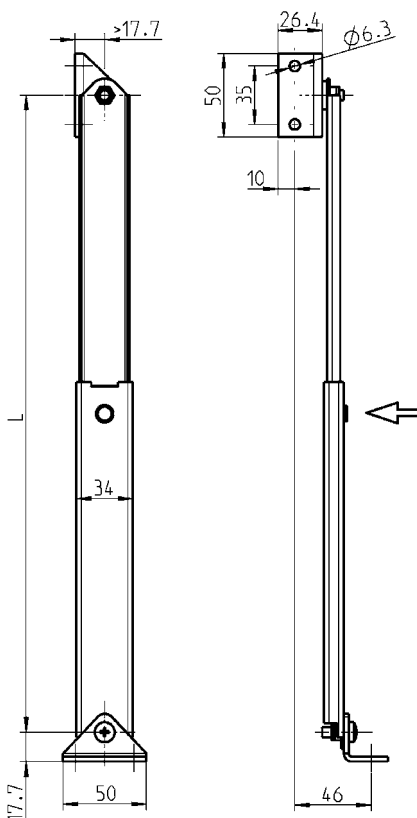
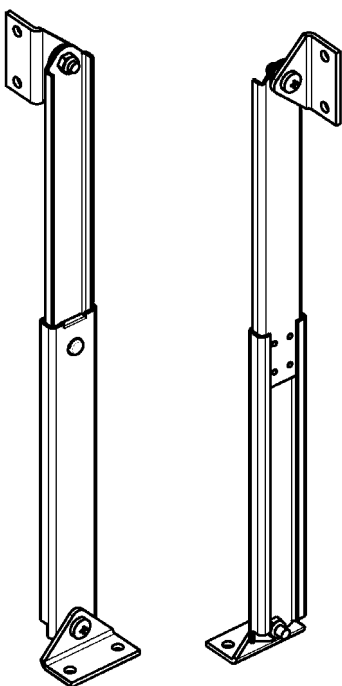
Info

Beschlagteile

Telescopic cover stay m.s. zinc-plated



Telescopic cover stay stainless steel



Telescopic cover stay m.s. zinc-plated, push button zinc die chrome-plated

	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
8E-120

8C-140 03/15

(12C-140; 6A-180)

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

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Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

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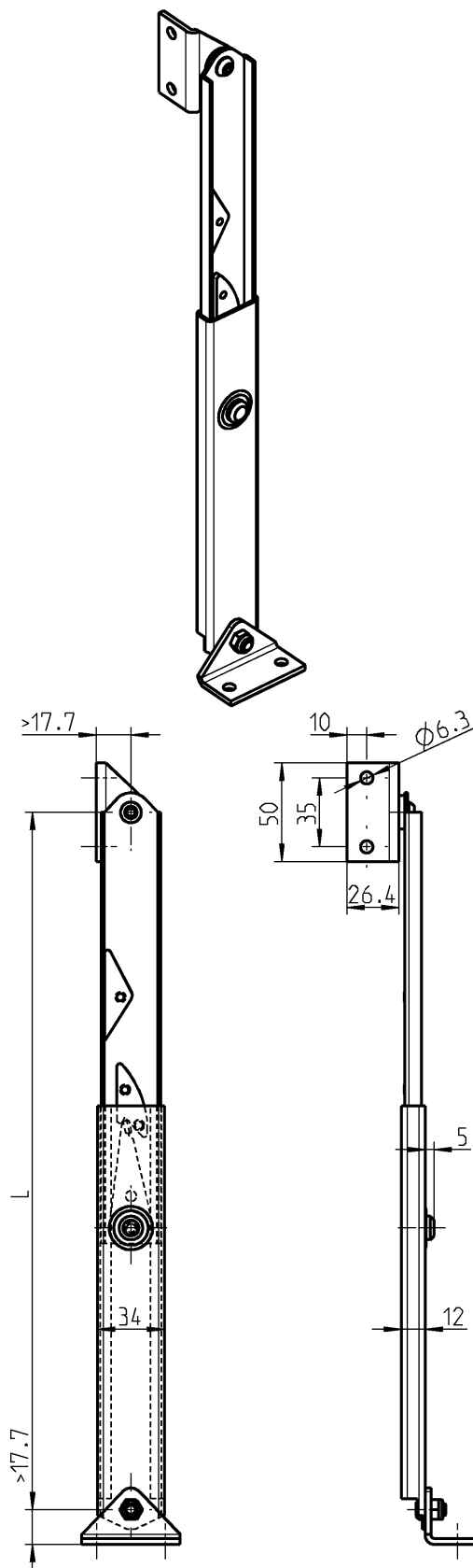
Index

EMKA

®

Beschlagteile

Telescopic cover stay PROGRAM 1097



Further parts see page

- Hinge for prominent door Chapter 4
- 2D Nut 8E-120

8C-160

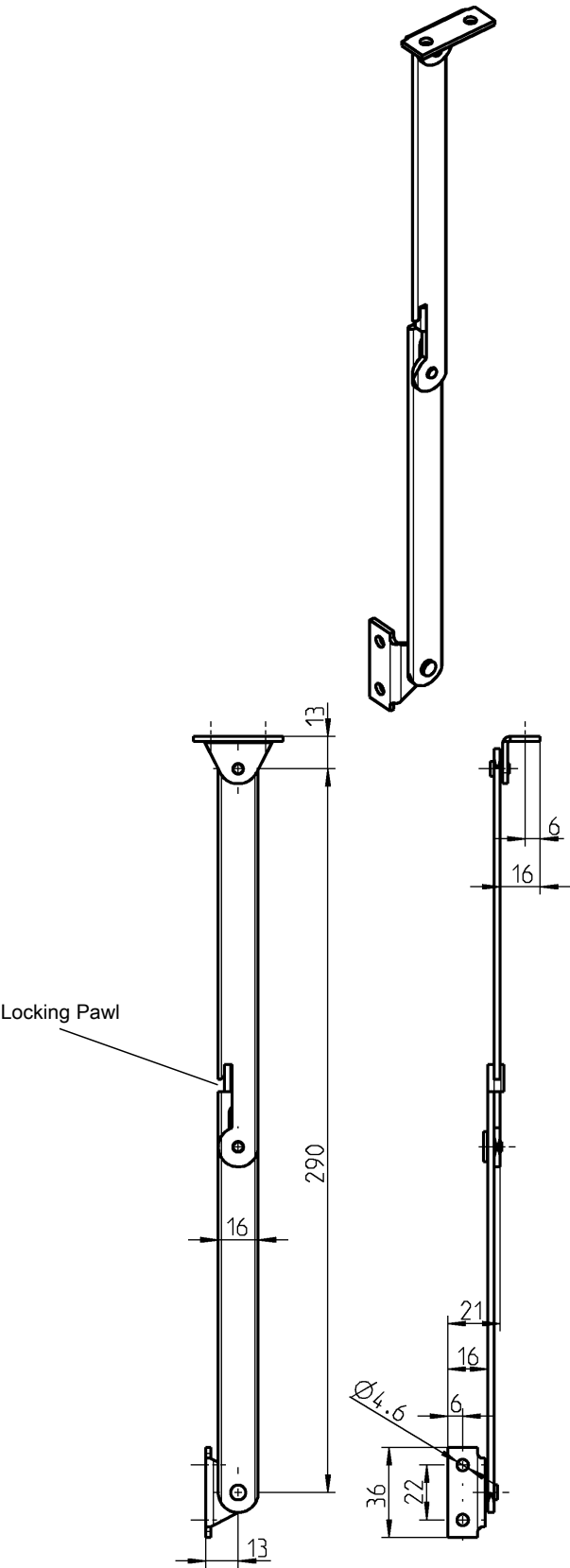
(12C-160; 6A-190)

Telescopic cover stay m.s. zinc-plated

	retracted	extended	
Dimension L	215	360	1097-U1
Dimension L	398	685	1097-U2

Cover stay

PROGRAM 1050



Cover stay material of choice		
	m.s. zinc plated	AISI 304
Right	1050-U1	1050-U1-PC
Left	1050-U2	1050-U2-PC

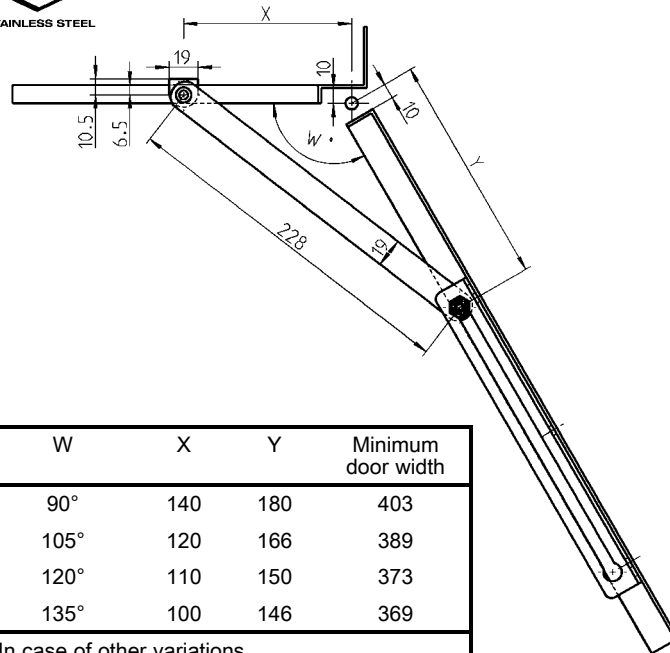
Further parts see page
 – Hinge Chapter 4

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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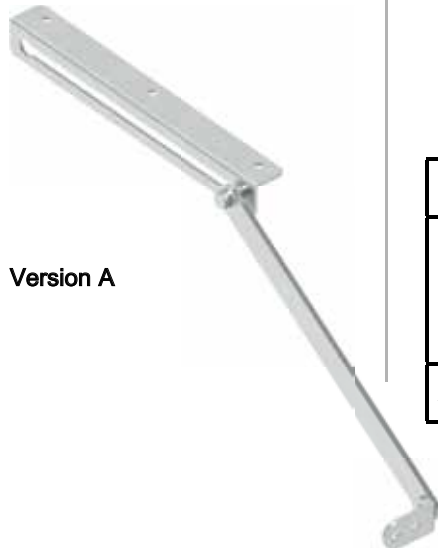
Door stopper PROGRAM 1087



STAINLESS STEEL



W	X	Y	Minimum door width
90°	140	180	403
105°	120	166	389
120°	110	150	373
135°	100	146	369
In case of other variations $y = x + >40$			

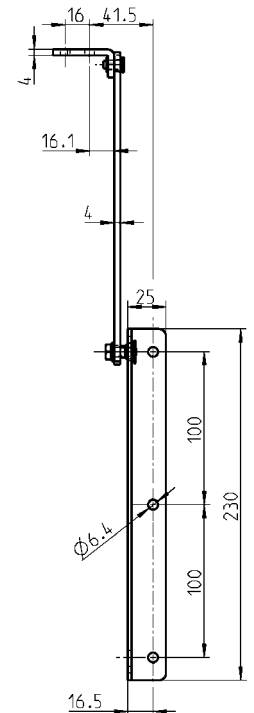


Version A

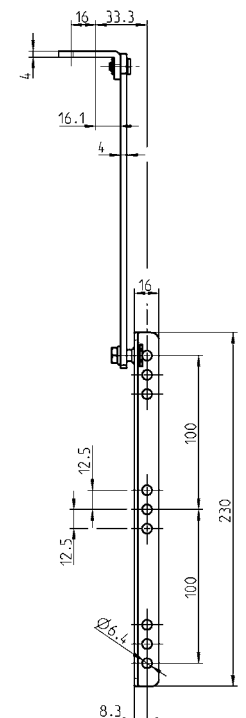
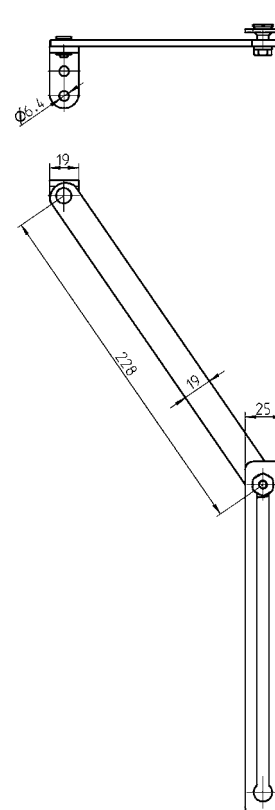


Version B

Version A



Version B



Further parts see page

- Hinge for prominent door
- 2D Nut

Chapter 4
8E-120

8C-220 10/18

(12C-220; 6A-220)

Door stop m.s. zinc-plated

Version A (2D nut possible)

1087-U1

Version B (2D nut possible)

1087-U4

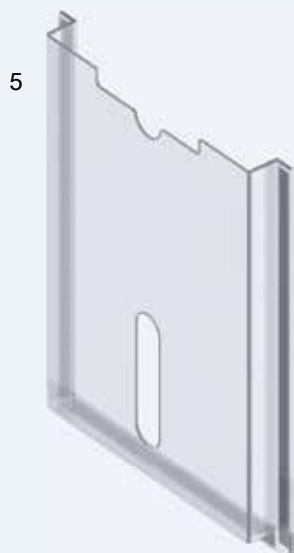
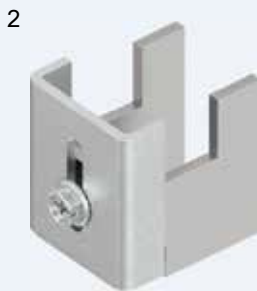
Door stop AISI 304, locking bush and rivet AISI 303

Version A (2D nut possible)

1087-U1-PC

Accessories

Escutcheon, Panel mounting device, Cable shunting ring, Drawing pocket, Window

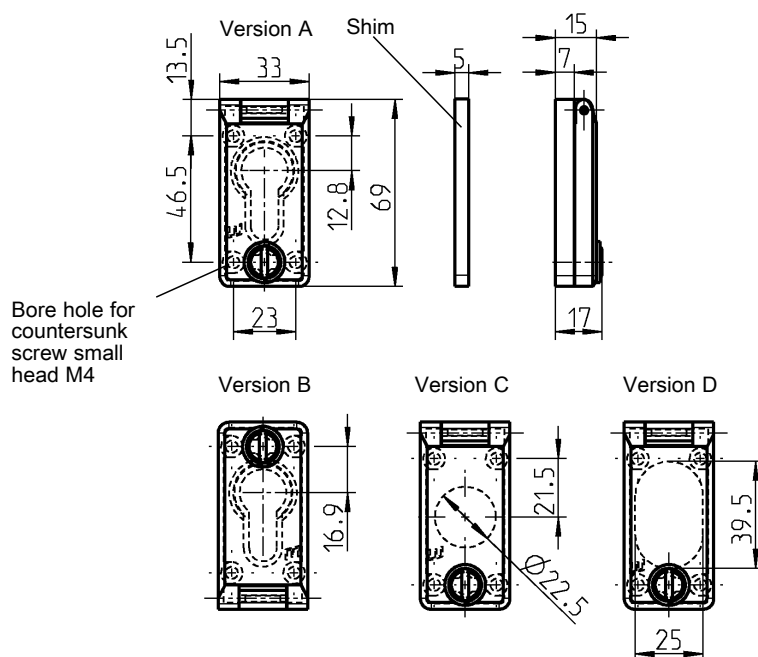
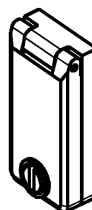
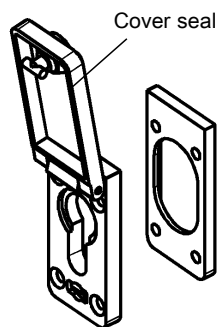


- | | | |
|---|---|------------------|
| 1 | Escutcheon, e.g. for profile half cylinder | 8D-120 |
| 2 | Panel mounting device for mounting plates, back panels etc. | 8D-220 |
| 3 | Cable shunting ring | 8D-320 |
| 4 | Cable grommet | 8D-320 |
| 5 | Drawing pocket glass clear | 8D-420 |
| 6 | Drawing pocket, e.g. for size DIN A4 | 8D-420 |
| 7 | Window | 8D-520 to 8D-620 |

8D-100

Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
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Escutcheon PROGRAM 1018, 1072



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

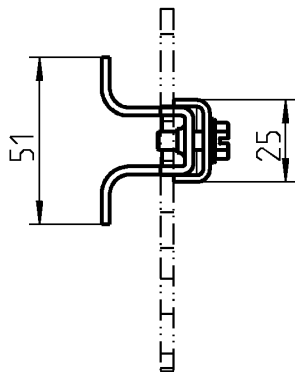
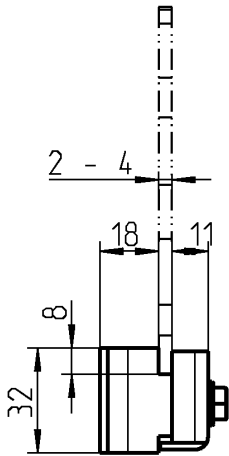
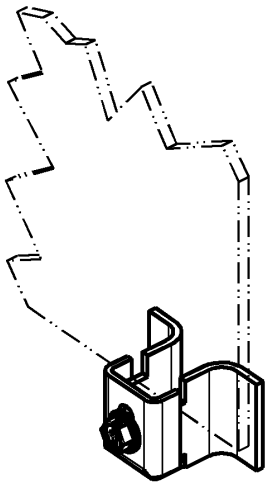
Further parts see page
– Suitable for rod control 2A-120
2B-140

Escutcheon polyamide grey, RAL 7032

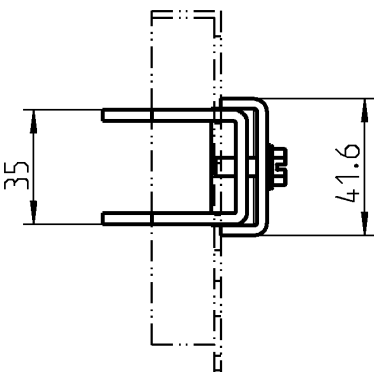
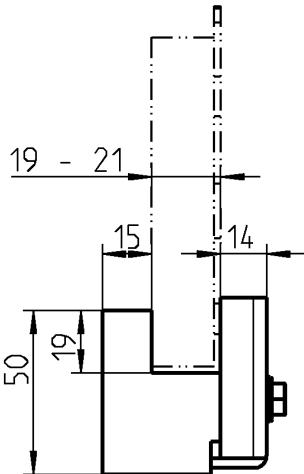
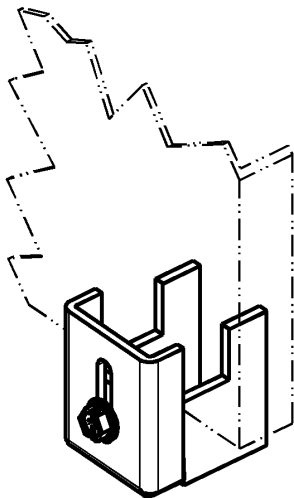
Version A for profile half cylinder	1072-U1	Version A for profile half cylinder, sealable	1072-U11
Version B for profile half cylinder	1072-U13	Version B for profile half cylinder, sealable	1072-U12
Version C with round hole Ø 22.5	1072-U15	Version C with round hole Ø 22.5, sealable	1072-U14
Version D with universal hole	1072-U16	Version D with universal hole, sealable	1072-U17
Shim polyamide grey		1072-01	
Bottom seal cell sponge rubber		1072-02	
Cover seal		1072-03	



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

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

6 Handles

7 Aluminium windows

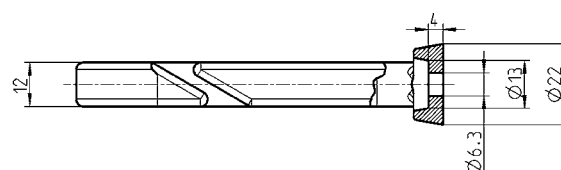
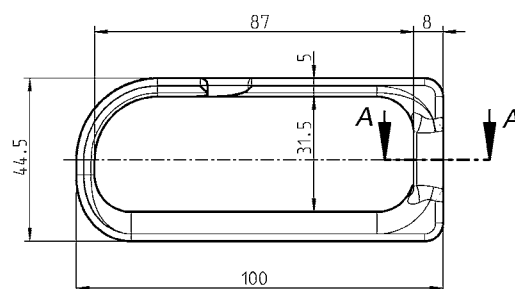
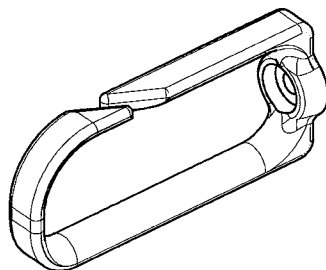
8 Miscellaneous

9 Special catalogues

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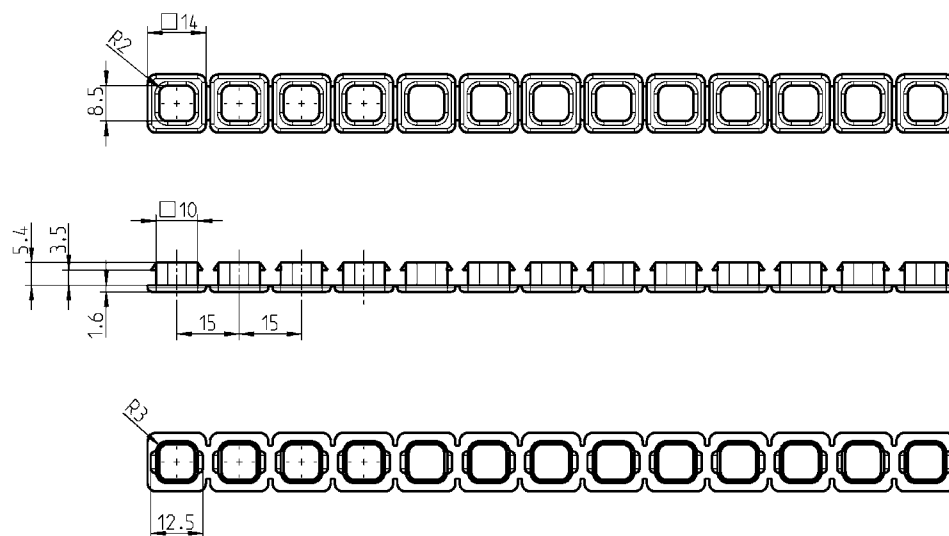
EMKA**Beschlagteile**

® Cable shunting ring,
Cable grommet
PROGRAM 1071



Cable shunting ring PC+ABS-FR(40) black
for fixing screw M6

1071-01



Further parts see page
– Electronic locking systems
Special catalogue Electronics

Cable grommet polyethylene PE-LD black

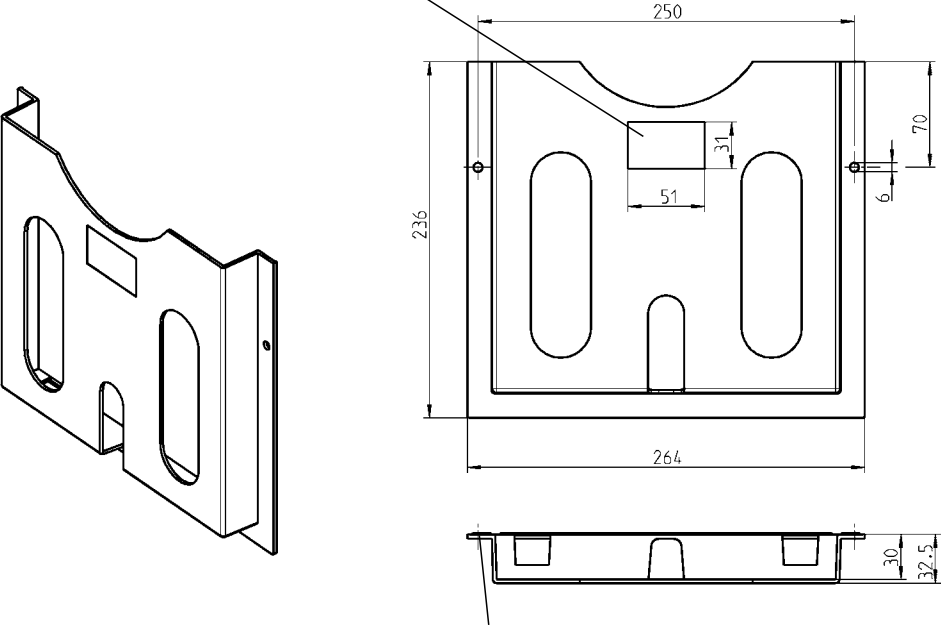
Strip with 13 pieces

1071-U1

8D-320 03/13

(12D-320; 6A-240)

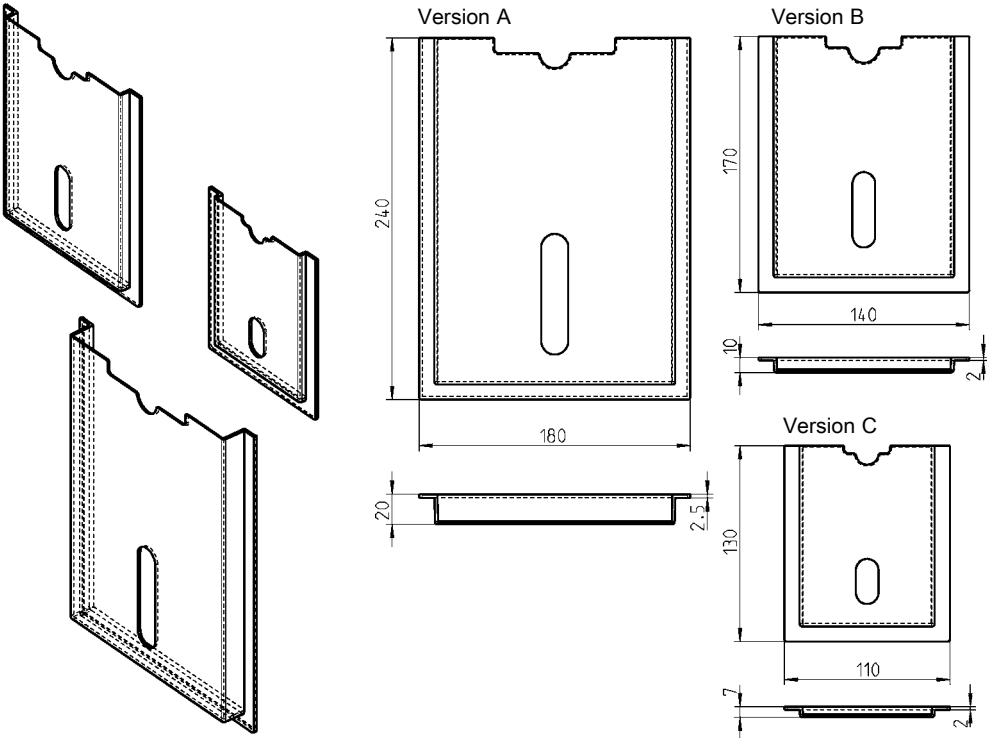
Logo recess: 51 x 31 x 0.2
Multicolour pad print possible



Self-adhesive, screw fixing possible.
Size corresponds to DIN A4

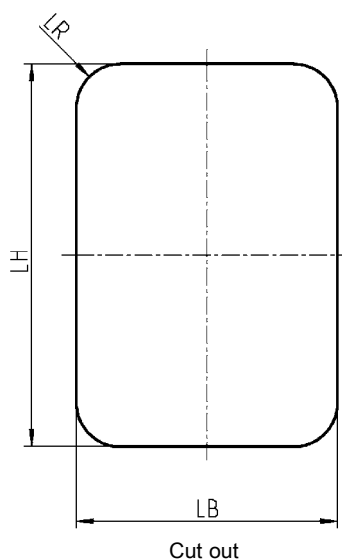
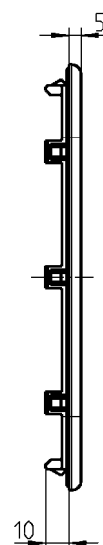
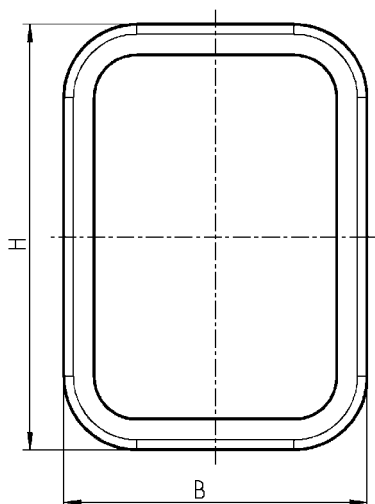
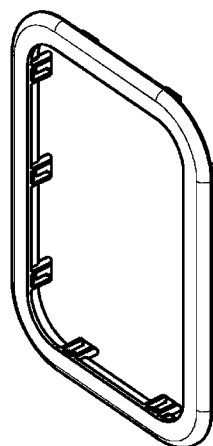


Drawing pocket polystyrene impact-resistant, self-adhesive	
grey	1013-U1
orange	1013-U2



Drawing pocket SAN glass clear, self-adhesive	
Version A	1013-U5
Version B	1013-U4
Version C	1013-U3





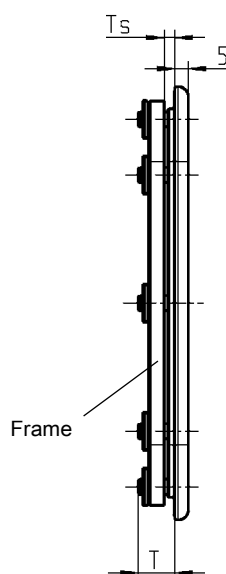
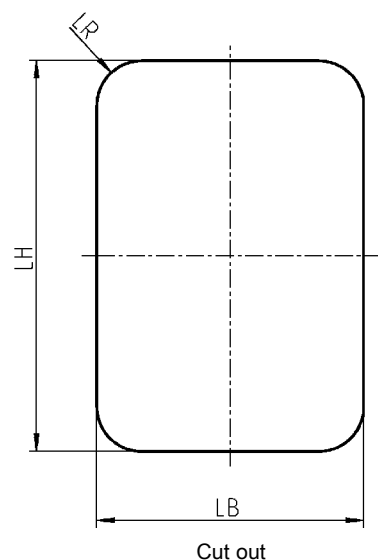
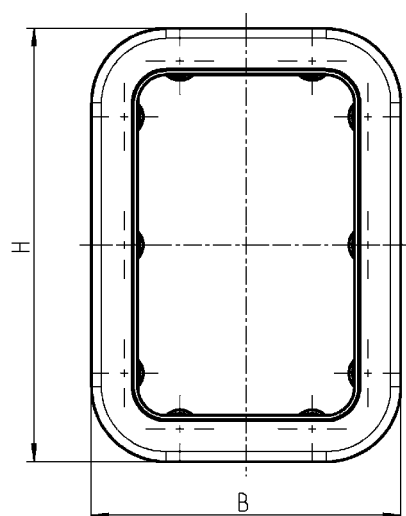
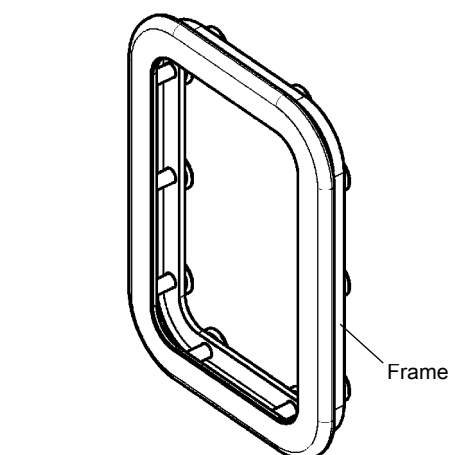
Cut out

Other sizes on request

Clip-in window angular polycarbonate glass clear, with seal

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

Angular window PROGRAM 1250

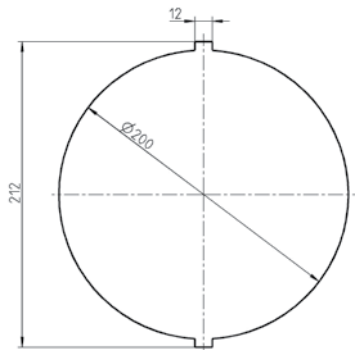
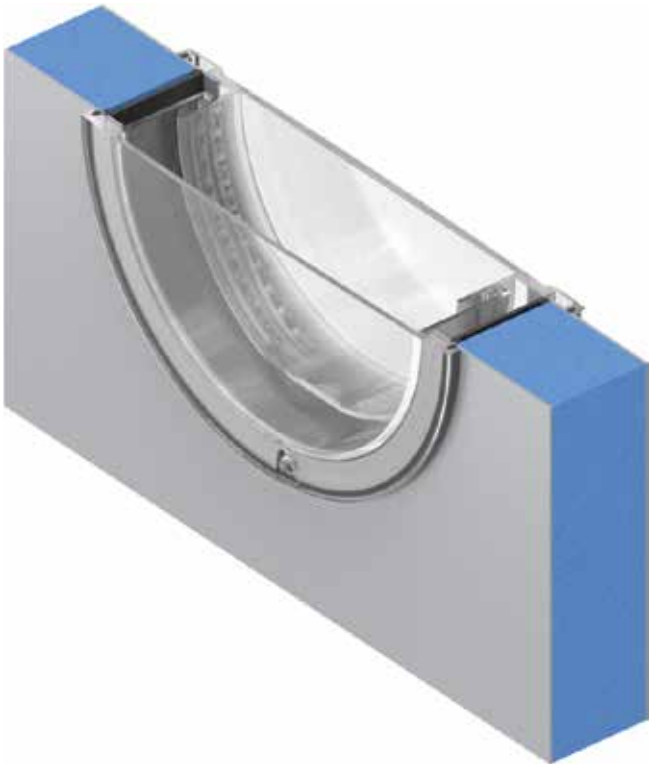


Angular window polycarbonate glass clear, shaft clamping rings m.s. zinc-plated, with seal

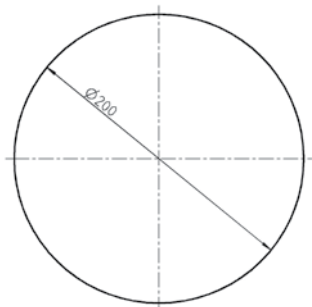
H	B	T	LH	LB	LR	Ts	
Angular window without frame							
110	110	17	95.5	95.5	6	3 - 13	1250-U4
175	125	15	156.5	107	20	3 - 12	1250-U6
Angular window with frame polycarbonate							
110	110	17	95.5	95.5	6	< 5	1250-U5
175	125	15	156.5	107	20	< 6	1250-U7

Other sizes on request

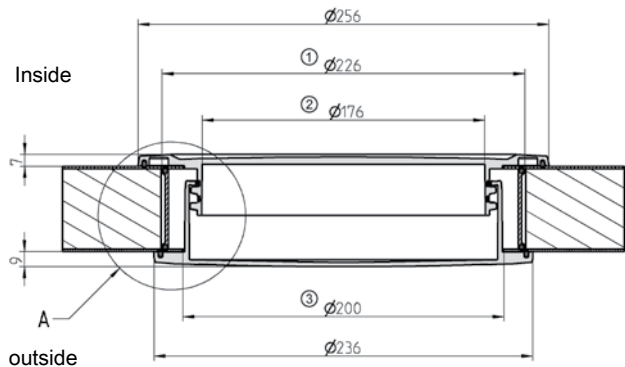
Info
1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Seals
6 Handles
7 Aluminium windows
8 Miscellaneous
9 Special catalogues
Index



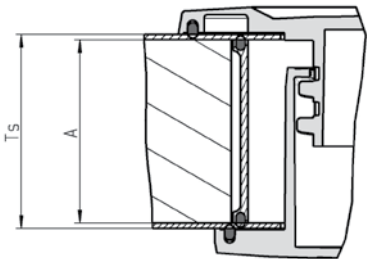
Cut out inside ③



Cut out outside ③



② = visible area



Round window polycarbonate glass clear, with seal		
Ts = 30 - 40		1091-U172-30
Ts = 50 - 60		1091-U172-50
Support ring for round window polyamide black, with seal		
① A = 30		1091-152-30G
① A = 40		1091-152-40G
① A = 50		1091-152-50G
① A = 60		1091-152-60G

Info

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Seals

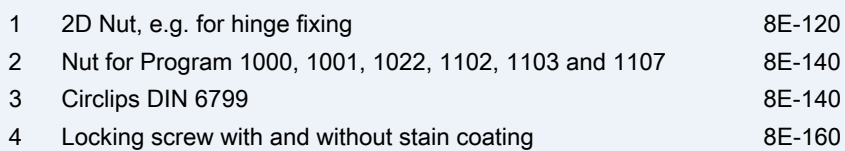
6 Handles

7 Aluminium windows

8 Miscellaneous

9 Special catalogues

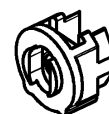
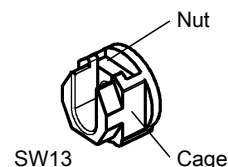
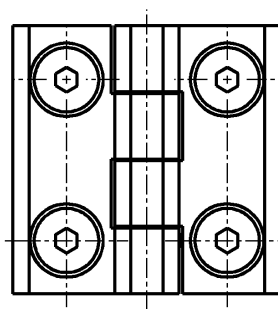
Index



8E-100

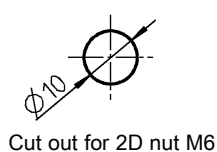
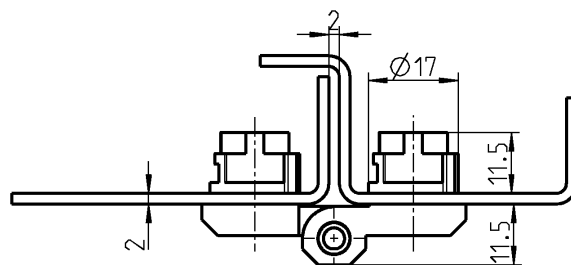
Cut out
Ø 10Mounting example:
CatchMounting example:
Hinge for flush door

Attention:
Each 2D nut is
adjustable ± 2 mm
in any direction.



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 flush door	4B-200 4B-210 4B-212 4B-215 4B-245 4B-320
– Cover stay	8C-140 8C-160 8C-220



Cut out for 2D nut M6

Advantage:
1. No adjustability can
be seen from the outside.

2. With the 2D nut,
you can convert any hinge or
catch that attaches from
front to back into a
2D hinge or 2D catch.

Other thread sizes
on request

2D Nut cage zinc die zinc-plated; nut m.s. zinc-plated

M6 with SW 13

1056-U51

Nut, Circlip

PROGRAM UNIVERSAL

Nut



**AISI
INOX**

Earth-safe screw-in quarter turn program

When using the illustrated earthing nut, the screw-in sash fastener complies with **VDE regulation 0660/Part 5**.

The earthing nut is provided with teeth and removes the lacquer coating in a limited area when tightened, thus ensuring metallic bonding.

Underlaid serrated washers are no longer sufficient for the paint qualities used today.

Earthing must be checked by a qualified electrician at the cabinet.



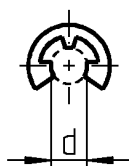
Nut M16x1 for Program 1022

	Zinc die	m.s. zinc-plated
Nut	–	1022-05-JB
Earthing nut	1022-11-01KA	1022-11-JB

Nut M22x1.5 for Program 1000

	m.s. zinc-plated	AISI 303	Polyamide GF
Nut	1000-02-JB	1000-02-PF	1000-02-SI
Earthing nut	1000-111-JB	–	–

Circlip



Circlip DIN 6799

d	m.s. zinc-plated	AISI 303
4	000039	–
5	000042	000041
6	000048	–
8	000154	–

8E-140

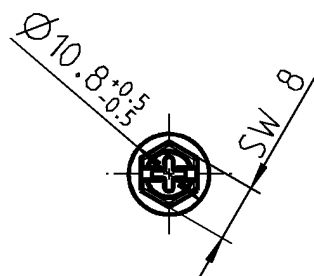
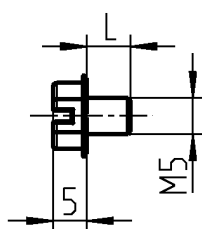
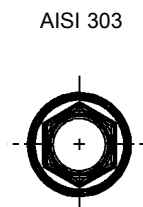
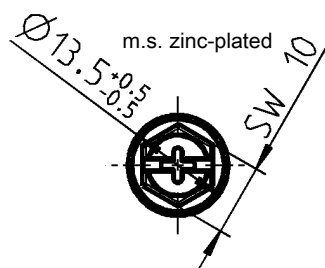
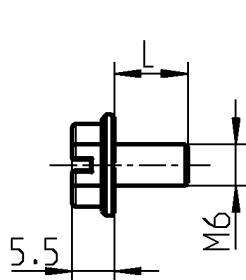
Info	
1 Quarter turns	Beschlagteile
2 Rod controls	Notes:
3 Locking systems	
4 Hinges	
5 Seals	
6 Handles	
7 Aluminium windows	
8 Miscellaneous	
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Locking screw

PROGRAM UNIVERSAL



AISI
INOX



Locking screw with Philips head, slot and hexagon (not for AISI 303)

M6xL	m.s. zinc-plated	m.s. zinc-plated spot-coated	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		

Special catalogue

EMKA Electronics



You will find all electronic locking solutions in our 52-page special catalogue:

**Electronic Locking Systems
for Cabinets and Housings**



Download



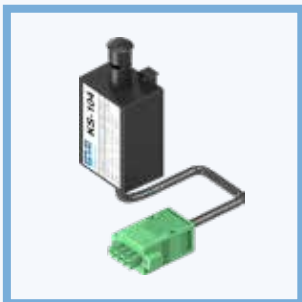
Content



1 Electronic locks



2 Units / Control units



3 Sensors



4 Accessories



5 Software

Electronic locking solutions

Extract from the special catalogue

Agent E Wireless

- Swinghandle with wireless communication
- Unique authentication via RFID cards
- Remote opening is always possible in addition
- Complete recording of results
- Installation in cabinets from different manufacturers via adapter
- Simplest installation without wiring
- For new systems and for retrofitting
- Extremely energy-efficient battery operation (battery life min. 3 years)



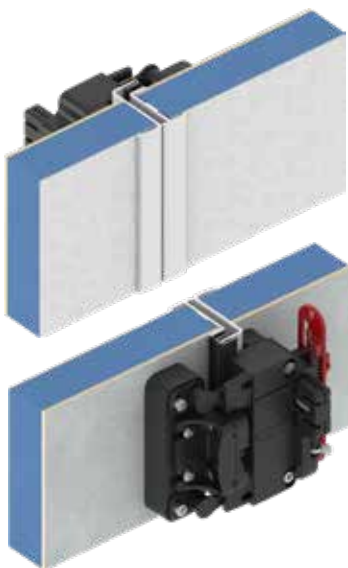
Low power outdoor handle

- Securing passive enclosures (without own power supply)
- Extremely low power consumption (150 mA, standby 0 mA)
- Ideally suited for access control systems with battery operation or inductive power supply
- Integrated push button to activate the access control system
- Signalling of the handle status (OPEN / CLOSED)
- Resistance class RC2
- Optional locking cylinder for mechanical emergency opening

Software EMKA Control Cockpit

- User Management
- System administration
- Real-time monitoring
- Configurable screen views
- Measured value storage
- Logging and analysis
- Remote access
- Integration into third party systems





ePush Lock / Electromechanical flap lock

- Locking solution without visible components on the outside
- Opening and closing by pressing the flap / door
- No interruption of the outer sealing due to mounting on the inside
- Integrated emergency opening on the locking element
- Optional connection to the central locking system
- Usable as a building block for the alarm monitoring of the flap
- Distance adapter & protective cover (optionally available)
- German Innovation Award winner 2019
- Patented

eCam / Electromechanical cam lock

- Universally usable electromechanical lock for all type of locks with cam
- Easy installation in new and existing systems
- Emergency opening via bowden cable (optional)
- Locking / Unlocking via Stand-Alone solution with keypad or RFID card reader
- Integrable into access controls or machine controls
- Certified as position switch according to EN ISO 14119 (machinery directive)
- Performance level d according to EN 13849



Single-point latch

- Usable in various applications as a concealed lock
- Available in 4 different versions:
 - Direct closing
 - Delayed closing
 - Opening in case of power failure
 - Opening by control pulse
- Wide supply voltage range (9 ... 32 V)
- Switch for remote monitoring of status / door status
- Emergency opening via bowden cable (optional)
- Protection class up to IP 55
- Variant with approval UL508 Ex (UL HazLoc) available

i

You will find all electronic locking solutions in our 52-page special catalogue:

**Electronic Locking Systems
for Cabinets and Housings**

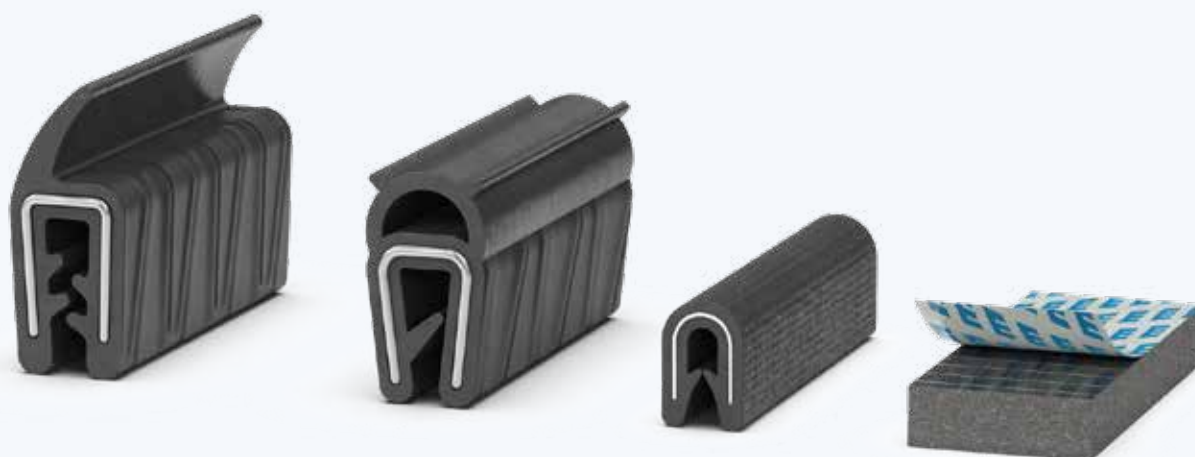


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Special catalogue

Seals



All standard profiles as well as further information on the subject of seals can be found in our 108-page special catalogue:

Sealing Technology made to measure - Profiles and Frames from In-House Production



Download



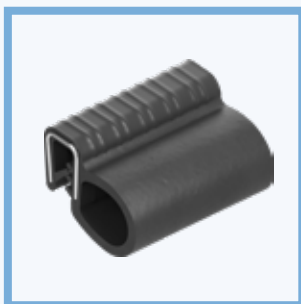
Content



1 Profiles for industrial applications



2 Profiles made of fire protection material



3 Profiles according to VDI guideline 6022



4 Profiles for the food industry

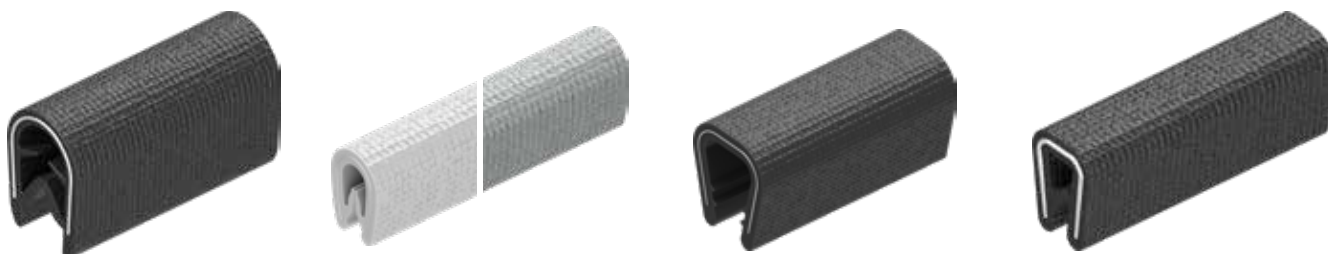
Medium	Naturkautschuk (NR, SBR)	Polysulfid-Kautschuke (PSI)	Butylkautschuk (BR)	Acrylnitril-Propylen-Kautschuke (EPDM, EPDM)
Acetaldehyd	3	2	1	2
Aceton	3	-	1	1
Acetylaceton	4	4	1	1
Acetylen gas	1	1	1	1
Acrylnitril	2	4	1	1
Acrylsäureethylester: s. Acrylnitril				
Adipinsäure	1	-	1	1
Adipinsäurediäthylester	3	-	1	1
Äthanol (gas)	4	1	-	4
Äthanol: s. Äthylalkohol				

5 Resistance list

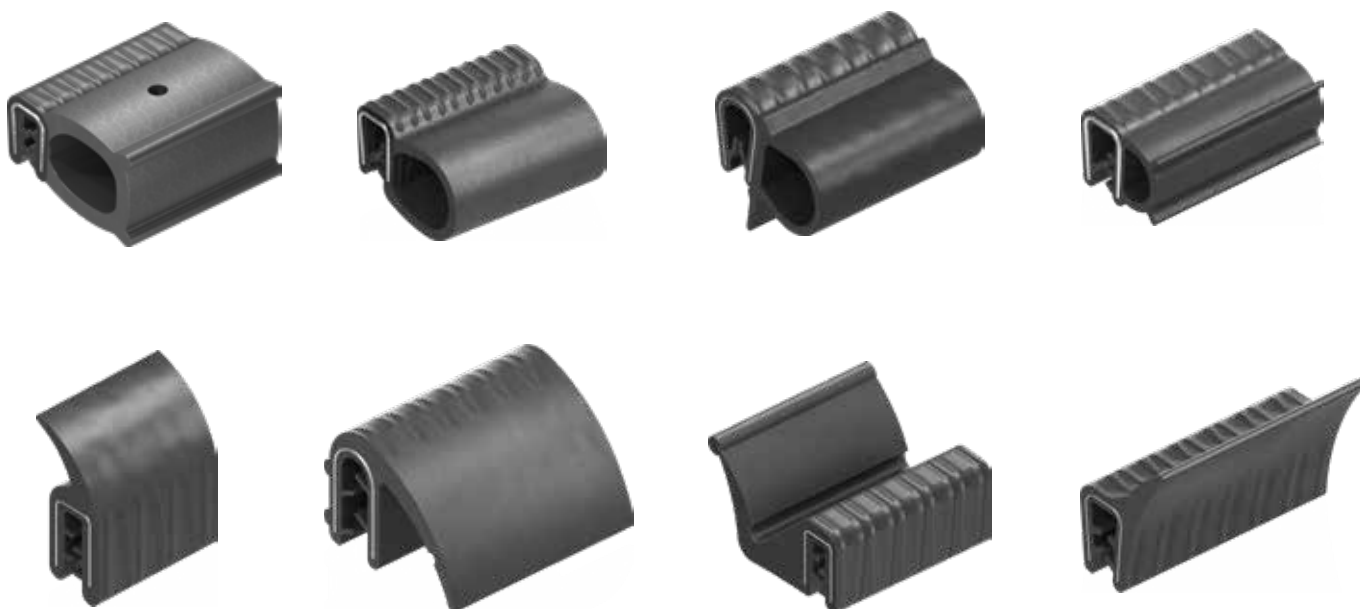
Seals

Extract from the special catalogue

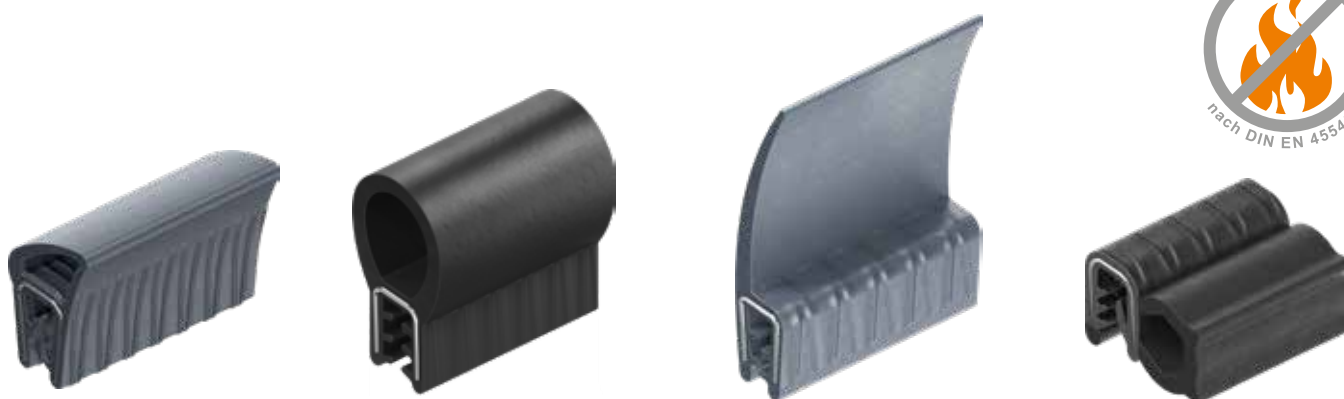
Edge protection profiles



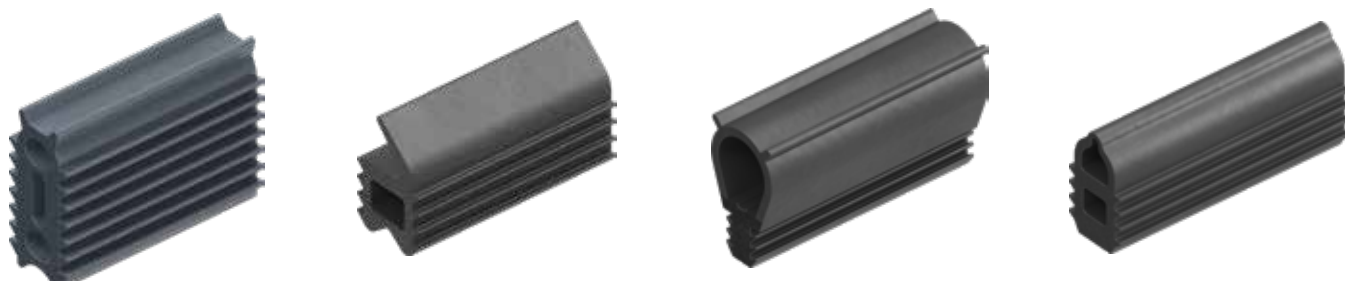
Self-clamping sealing profiles



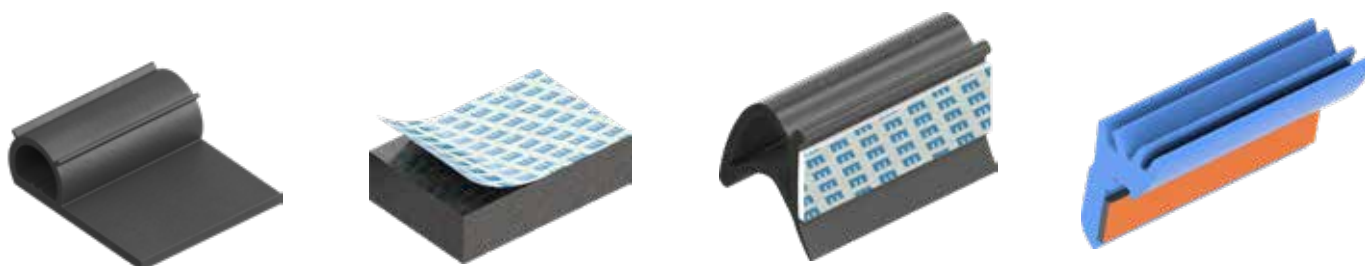
Self-clamping sealing profiles made of fire protection material



U-section profiles



Profiles with adhesive tape



Clamping and holding profiles



i

All standard profiles as well as further information on the subject of seals can be found in our 108-page special catalogue:

Sealing Technology made to measure - Profiles and Frames from In-House Production



Download



Special catalogue

Toggle latches / Cylinder quarter turns



i

All toggle latches and cylinder quarter turns as well as other products can be found in the special catalogs of STRENGER GmbH:



STRENGER
Cylinder quarter turns



STRENGER
Toggle latches and handles

[Download](#)


STRENGER

A member of the EMKA Group

STRENGER is the reliable partner when it comes to progressive locking solutions for buildings.

STRENGER develops and manufactures products for a wide range of plastic, wood, metal and glass applications, from simple latches to complex locking mechanisms.

Whatever project has to be realized; from STRENGER there is the right product for every demand. As one of the leading manufacturer of latches in Europe with meanwhile 175 years of experience, STRENGER offers an extensive standard program as well as custom-made products for many fields of application.

The technical know-how and the quality of "Made in Europe" also makes STRENGER an internationally sought-after specialist.



Toggle latches / Cylinder quarter turns

Extract from the special catalogue

Toggle latches



Hook



Cylinder quarter turns



i

All toggle latches and cylinder quarter turns as well as other products can be found in the special catalogs of STRENGER GmbH:



STRENGER
Cylinder quarter turns



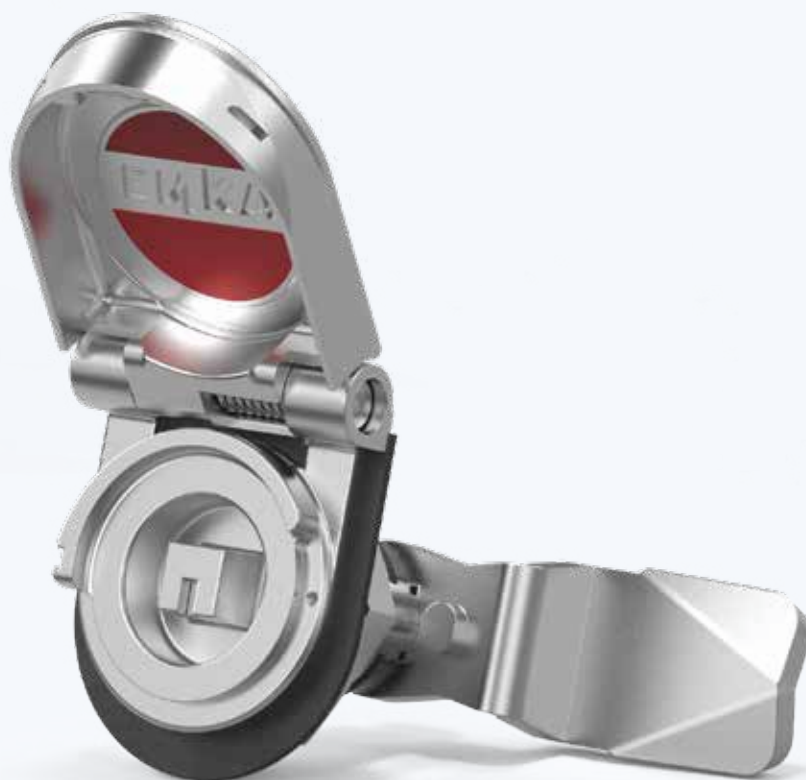
STRENGER
Toggle latches and handles

Download



Special catalogue

Railway vehicles



All products for railway vehicles can be found in our 140-page special catalogue:

Ingenious Locking Technology for the Railway Industry



Download



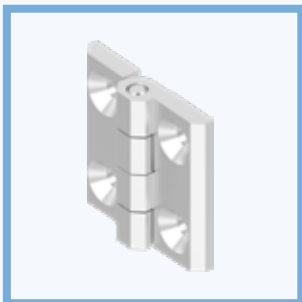
Content



1 Locks and Latches



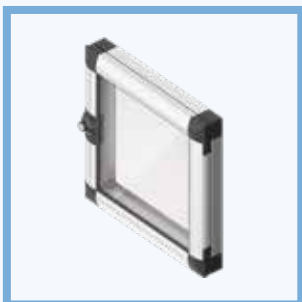
2 Locking systems



3 Hinges



4 Sealing Profiles and Edge Protection



5 Accessories

Products for railway vehicles

Extract from the special catalogue

Compression latch with optical opening indicator

- Opening indicator through upright cover, optionally with red pad printing
- When the compression latch is open, the cover stops at approx. 90°
- Cover can be opened up to 180° if required
- Compression distance: 6 mm
- Fire protection tested acc. to DIN EN 45545-2, E30
- Tamper and vibration proof acc. to DIN EN 61373
- Protection class IP 69K



Hybrid compression latch

- Combination of stainless steel and aluminum
- Weight savings approx. 30%
- Attractive price advantages
- Fire protection tested acc. to DIN EN 45545-03, E20
- Designed to be vibration-proof acc. to DIN EN 61373
- Protection class IP 65
- Various inserts available (square, triangular, railway, etc.)



Stainless steel compression latch with red - green marking

- Insert and head sharpened and high polished available
- Tamper and vibration-proof
- Right-hand and left-hand version available
- Red - green marking
- Can be combined with dust cap



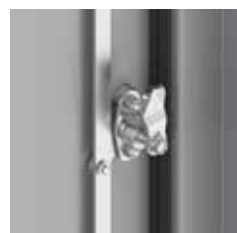
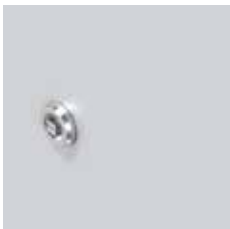
Flat swinghandle with locking set

- Flat design
- Easy exchangeable locking unit inserts (locking sets)
- Suitable for standard cut out
- Pre-assembled swinghandle and dish
- Permanent magnet holds the cylinder cover
- Integrated scratch protection prevents surface damage (handle / dish)
- Swinghandle, locking sets and adapter for cam made of zinc die
- Patent submitted



Compression latch system for swinghandles and quarter turns

- Compression function
- Latch and cut out independent for compression latch system
- Corner guide can be used for additional latches in transverse installation
- High closing comfort
- Patented



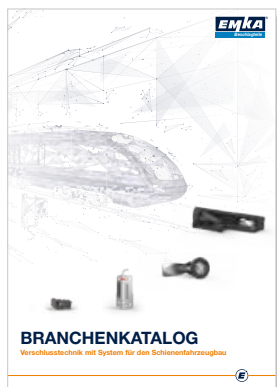
Fire protection seals - also as ring, corner, frame

- Flame retardant for more safety
- Profile geometry also individually according to customer requirements
- Readily customized frames and rings according to customer specifications possible
- Reliable top quality from in-house production in Europe

i

All products for railway vehicles can be found in our 140-page special catalogue:

Ingenious Locking Technology for the Railway Industry



Download



Special catalogue

HVACR



You can find all products for the HVACR industry in our 120-page special catalogue:

Ingenious Locking Technology for HVACR systems according to VDI 6022



Download



Content



1 Locks and Latches



2 Hinges



3 Seals



4 Accessories

Products for the HVACR sector

Extract from the special catalogue

Modular locking system

- New modular handle with ergonomic design
- Suitable for doors opening inwards and outwards
- Suitable for various door thicknesses (25 - 110 mm)
- Fits 2 standard cut outs (13 mm, 19 mm)
- Interchangeable locking sets for external or internal locking (blind plug, round cylinder, square, other inserts on request)
- Adjustable roller cam
- Adjustable eccentric roller
- Removable handle, e.g. for transport
- Meets the industry-specific national and international standards
- Conforms with the entire EMKA program
- Material: Polyamide with glass fibre (VDI 6022 / ISO 846 compliant materials)
- Air Tightness class L1-L3 possible
- Protected design



Modular door lock with inside handle

- New modular locking system especially for use on large doors (>1.6 m door height)
- Various inserts and handle options in combination with different cams possible (stepped cam, pressure relief cam, etc.)
- System for various door thicknesses available (50 mm - 60 mm)
- Also available as a version without inside handle
- VDI 6022 / ISO 846 compliant materials on the inside of the door

3D Unit connector

- 3D positioning through spherical shaping with max.
 - X-axis 7 mm
 - Y-axis 3 mm
 - Z-axis 5 mm
- Fixing by M6 cylinder screws or riveted bolts possible
- Cylinder screw included
- Industry standard mounting dimensions
- Covering cap optionally available
- VDI 6022 / ISO 846 compliant materials



Latch-Hinge

- When the door is closed, the latch is adjustable (3 mm) to achieve perfect alignment
- The favourable pivot point of the handle makes a seal compression of 5 mm possible using low actuation forces
- Door or panel can be removed by unlatching the handles on both sides
- 3D adjustable (tolerance compensation)
- Latch hinge can be mounted as one piece with the door / flap in place
- Right or left hinged
- Hinge 180° opening angle
- Optional available with safety function "pressure relief"



Compression Latch-Hinge small



Compression Latch-Hinge medium



Compression Latch-Hinge large



Seals according to VDI 6022 - also as ring, corner, frame

- Higher functionality when sealed with sponge rubber in the hose area
- Do not provide any breeding ground for microorganisms
- Easy to clean
- Moisture resistant
- Odourless



You can find all products for the HVACR industry in our 120-page special catalogue:

Ingenious Locking Technology for HVACR systems according to VDI 6022



Download



Special catalogue

Commercial vehicles / Caravan



All products for commercial vehicles / caravan can be found in our 164-page special catalogue:

**Ingenious Locking Technology
for Mobile Homes, Buses and Trailers**



Download



Content



1 Locks and Latches



2 Hinges



3 Seals



4 Accessories

Products for Commercial vehicles / Caravan

Extract from the special catalogue

Compression latch 'Double Red'

- Compression latch with two visual opening indicators in red
- Two new, cost-optimized variants of the well-known compression latch 'Double-Red' by omitting of the opening indicators
 - Variant in white for a special look
 - Variant in black made of ECO material
- Rotary handle can only be locked in the closed position
- Robust solution for many years of use
- Tamper and vibration-proof acc. to DIN EN 61373
- Patented



Basic
ECO black



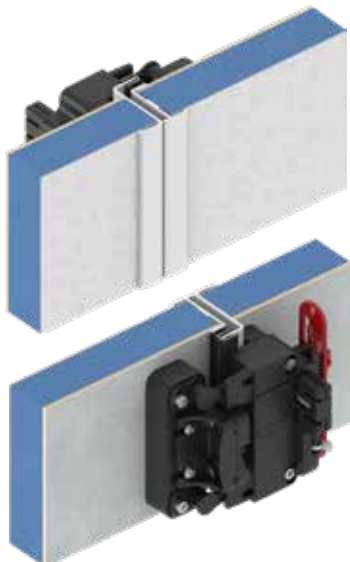
Basic white
(UV-stabilised)



'Double Red'
with visual opening indicators

Retractable T-handle

- Flush lock with modern design
- Ergonomic haptics and comfortable handle size (can also be operated with gloves)
- Optical opening indicator by handle position
- Wide range of locking sets (standard cam, roller cam, hook cam, rotary latch, etc.)
- Numerous, easily exchangeable inserts (round cylinder, square, double bit, slot, etc.)
- Compression function
- Suitable for all common door thicknesses
- Protection class IP 65 and optional dust cap for round cylinder



ePush Lock / Electromechanical flap lock

- Locking solution without visible components on the outside
- Opening and closing by pressing the flap / door
- No interruption of the outer sealing due to mounting on the inside
- Integrated emergency opening on the locking element
- Optional connection to the central locking system
- Usable as a building block for the alarm monitoring of the flap
- Distance adapter & protective cover (optionally available)
- German Innovation Award winner 2019
- Patented



180° Gear hinge

- High quality gear hinge
- Economic structure and design
- Compact construction
- Concealed, not visible
- Opening angle 180°
- Right and left usable
- For doors / flaps up to 40 kg (when using 4 hinges)
- System related, small clearance
- Fixing function optional
- Maintenance-free
- Patented

Emergency hammer

- Emergency hammer in three variants:
 - Emergency hammer Basic
 - Emergency hammer with hand protection
 - Emergency hammer with hand protection and belt cutter
- Holder in two versions:
 - Basic
 - Holder with hidden anti-theft protection
- Uniform cut out of the holders (Basic and with integrated anti-theft protection)
- Glass fibre reinforced plastic
- Hardened steel tip, destroys tempered and laminated glass as well as insulating glass



Seals - also as ring, corner, frame

- More than 1,500 standard sealing profiles
- Profile geometry also individually according to customer requirements
- Readily customized frames and rings according to customer specifications possible
- Reliable top quality from in-house production in Europe

i

All products for commercial vehicles / caravan can be found in our 164-page special catalogue:

**Ingenious Locking Technology
for Mobile Homes, Buses and Trailers**



Download



Beschlagteile

Part no.	Catalogue page	Part no.	Catalogue page	Part no.	Catalogue page	Part no.	Catalogue page
000039	8E-140	1000-22	1B-820	1000-53	3YB-440	1000-277-01JB	1C-125
000041	8E-140	1000-22	1C-120	1000-53	3ZD-240	1000-277-01JC	8E-160
000042	8E-140	1000-22	3ZD-240	1000-54	1B-820	1000-277-01PI	8E-160
000048	8E-140	1000-23	1B-140	1000-54	1C-120	1000-277-02JB	8E-160
000104	3ZA-340	1000-23	1B-160	1000-54	3YA-820	1000-277-02JC	8E-160
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	1500-140-H18HW	1D-140	2100-U31	3C-440	2225-U50-LI	3J-160	6042-69-JQ	6B-320
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	1500-152-H22	1D-140	2100-U32	3XA-140	2225-U54-01	3J-140		
	1500-152-H24	1D-140	2100-U33	3H-420	2225-U54-LI	3J-160		
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	1500-160-H16	1D-140	2100-U41	3XA-140				
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