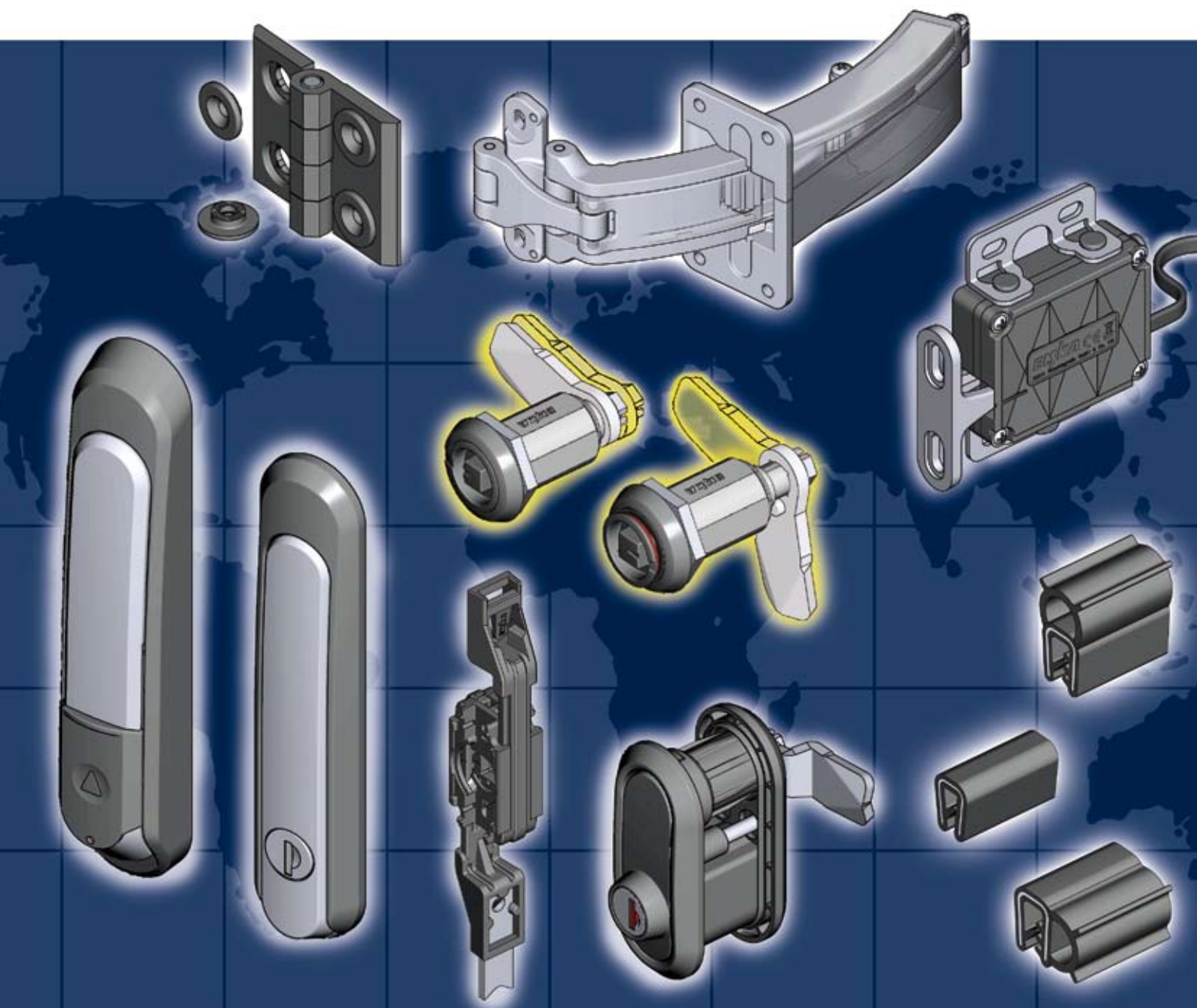


ECHO



LOCKS/LATCHES



HINGES



GASKETING



ACCESSORIES

www EMKA com

CAD Download



For design engineers EMKA provides a special, practice-oriented service: Design data is available on the internet in the internationally used interchange formats STEP and IGES. You can find the submenu "CAD Files" in the download-sector under www.EMKA.com. Search functions are available according to part numbers or product groups.

All 3D formats generated by Pro/Engineer can easily be taken over into any designer software. The EMKA Newsletter periodically informs about amendments and new products.

STEP

IGES

Explanations of pictograms



Inside the gasketing



Outside the gasketing



Concealed hinge



Prominent hinge



Lift-off version hinge



Hinge limited lift-off version



Hinge for single cabinets



Hinge for in-line cabinets with single door



Hinge for in-line cabinets with double door



Door RH-version



Door LH-version



Door RH- and LH-version



IP-rating, such as IP 65



PUR-foamed seal



Compression specification of lock



With earthing or earthing possible



ELM Electronic Locking & Monitoring System application



Resistance class 2 Testing acc. to DIN V ENV 1630



2D nut in use



2D adjustable product



3D adjustable product



Assembly without tool



Clip-in assembling



Product with anti-graffiti coating



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

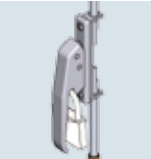
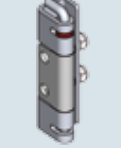
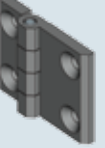
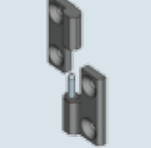
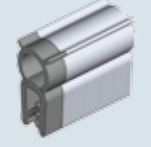
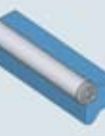
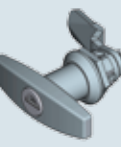
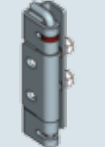
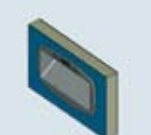
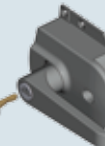


Plastic flame retardant according to standard UL94



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

List of contents

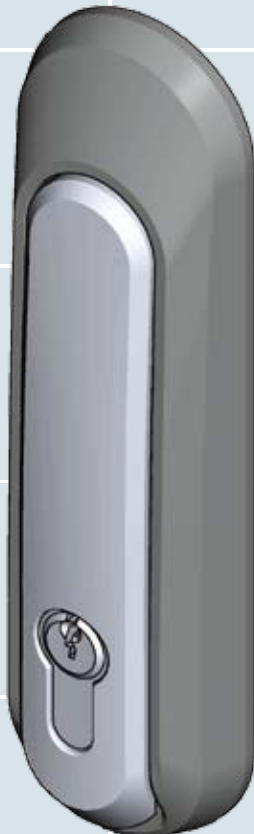
				Information	General notes Technical information	Info
				Quarter turns	Overview: 1-100 1A and 1B. Quarter turns, small up to standard version (Programs 1012, 1022; 1000) 1C. Accessories: cams, handles, rod control, dust cap, rotation prevention, rods 1D. Quarter turns, clip fix (Program 1500) 1E. Quarter turns, different versions 1F. Cylinder quarter turn, different versions	NEW
				Rod controls	2A. Latches for heavy duty, screw-on program 2B. Latches for heavy duty, weld-on program	
				Locking systems	Overview programs, matrix: 3-100 3A up to 3L. 1107, 1125, 1150, 1160, 1180, 1185, 1190, 1225, 2100, 2300, 2400, 2600 3XA up to 3XB . . . Locking sets: modular sets, profile half cylinders 3YA up to 3YC . . . Rod controls, bearing bush, cams 3ZA up to 3ZC . . . Rods for rod control and rod gear outside or inside the gasketing; rod guides	NEW
				Hinges	Overview, matrix: 4-100 4A. Hinges for prominent doors 4B. Hinges for flush doors and aluminium profiles 4C. Pin hinges	NEW
				Gasketing	5A. Gasketing, closed cell sponge rubber, edge protection, window rubber profiles 5B. Gasketing according to VDI 6022 5C. EMC gasketing material	
				Handles	6A. Bow-type handles, tube handles, hinged pattern handles (Prog. 1095) 6B. Hinged pattern handles, with leaf spring, bow-type handles (Program 6040)	
				Aluminium windows	7A. Aluminium windows with or without frame (Program 1200) 7B. EMKA PROflex: Aluminium window completely assembled or as kit for self assembly (Program 1210) 7C. Aluminium doors (Program 1300)	
				Stainless steel program	8A. Locks: quarter turns, escutcheons, swinghandles, rods 8B. Hinges for prominent or flush doors 8C. Miscellaneous: bow-type handles, cover stays, door stops	NEW
				Toggle latches	9A. Wire toggle latch, rigid wire toggle latch, spring loaded toggle latch, special toggle latch, adjustable toggle latch, catch plates (Program 6000)	
				Air conditioning applications	10A. Heavy duty latches, lift and turn latch, pull, pull with quarter turn, 180° hinge (Program 1091)	
				ELM Electronic Locking & Monitoring Systems	11A. ELM Security System: network solutions, 19" rack mount units, keypad, ELM combination handle with integrated keypad, sensors, accessories 11B. Stand-alone Solutions: Keypad, combination handle with integrated keypad, accessories	NEW
				Miscellaneous	12A. Locks/latches: Retractable handle, door lock, slam lock, snap lock 12B. Key 12C. Cover stays and door stops 12D/E. Accessories and fixing material 12F. Commercial-Vehicles: see also special catalogue	NEW
				Index	Part numbers / pages	

Highlights

Program
1307



Program
1325



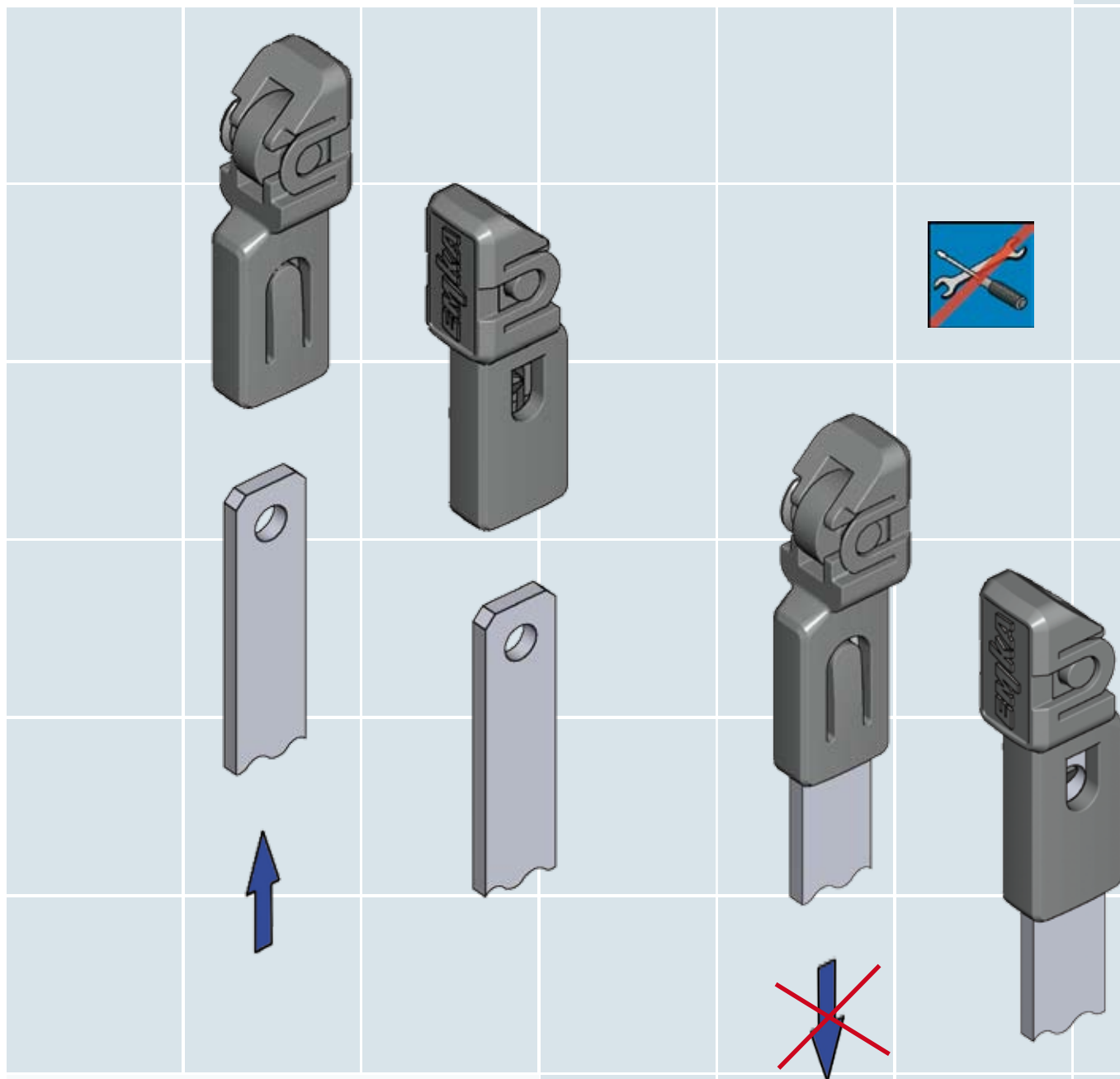
New defined standards

Design example

Program
1350



Guide shoe with roller

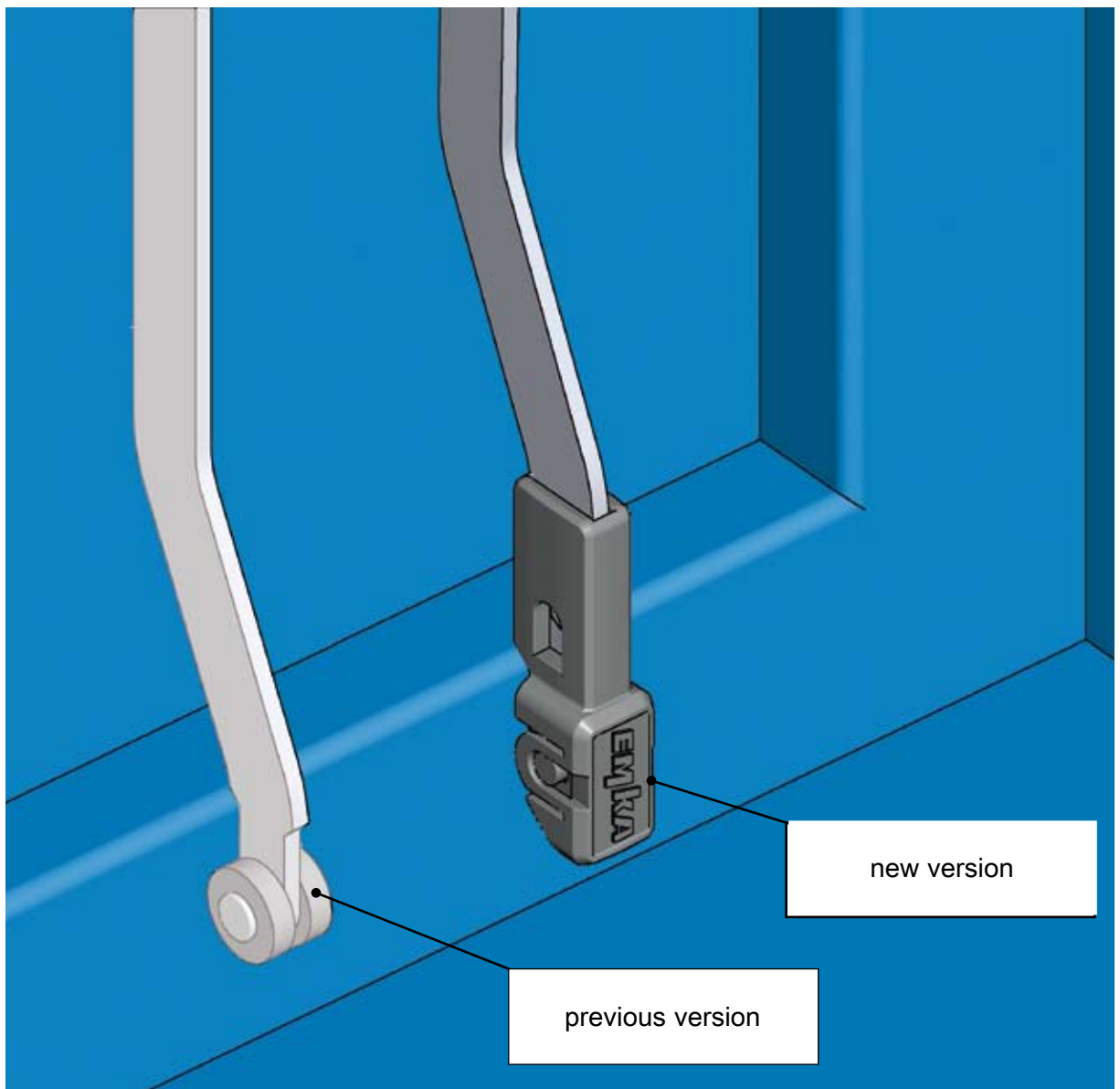


Fast installation on the rod

Comfortable
lock

combines
two
established
systems

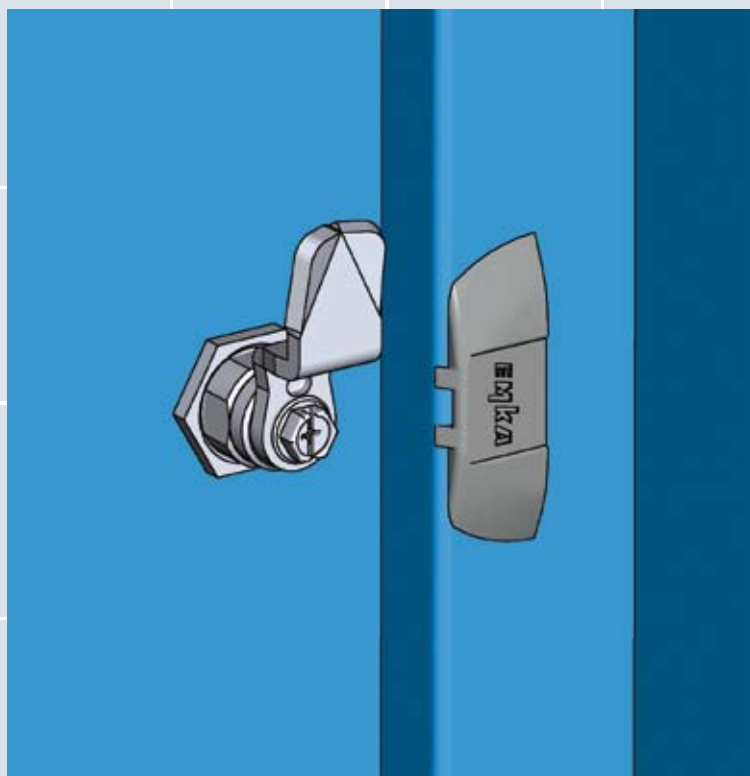
Design example



new version

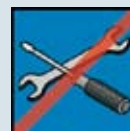
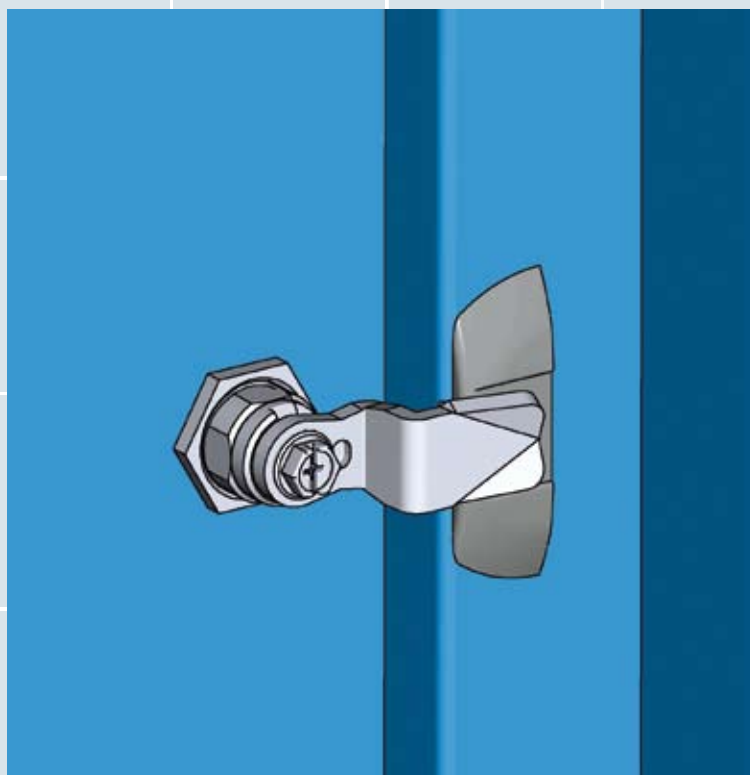
previous version

Frame-sided leading ramp for cams



Design example

Easy to install



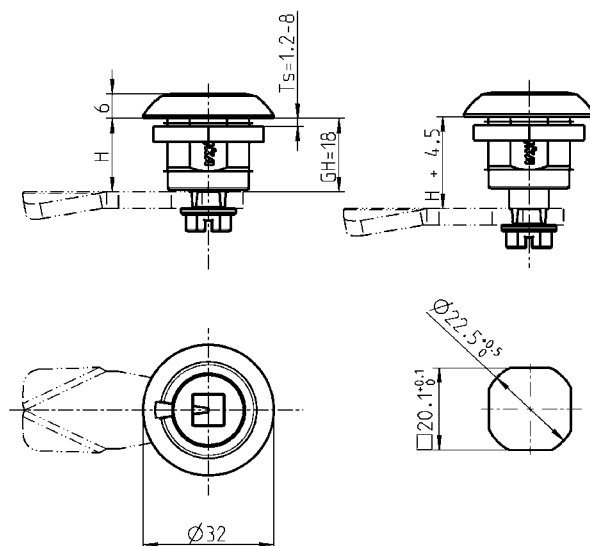
Higher
compression

Compression latch

PROGRAM 1000

Vibration proof

These latches are designed to be vibration resistant with a distinct "over-center" action. Applications with extreme vibration may require additional testing.



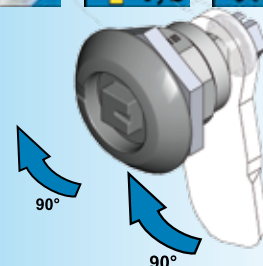
Housing and insert: black powder coated, zinc alloy, nut and screw: zinc plated m.s.

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

See general catalog 2011 for page references you can't find in the ECHO (e.g. 1B-105).

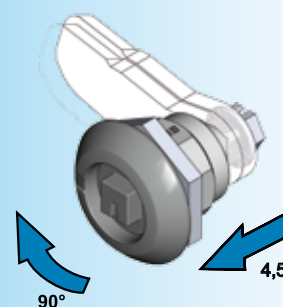
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Beschlagteile



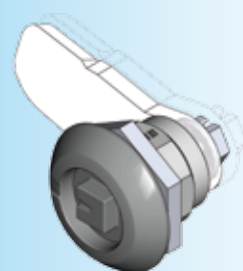
Open condition

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



Closed position

The second 90° of rotation of the insert draws the cam toward the door 4,5 mm axially.



Compressed condition

Unlock:
Reversed rotation

Note:

Only cams without a stop can be used.

Further parts see page

- Cam on request
- Accessories from 1C-320
- Escutcheon 3B-140
- Key 12B-120

SECURITY. VISIBLE.



Compression latch with visual indicator for open status

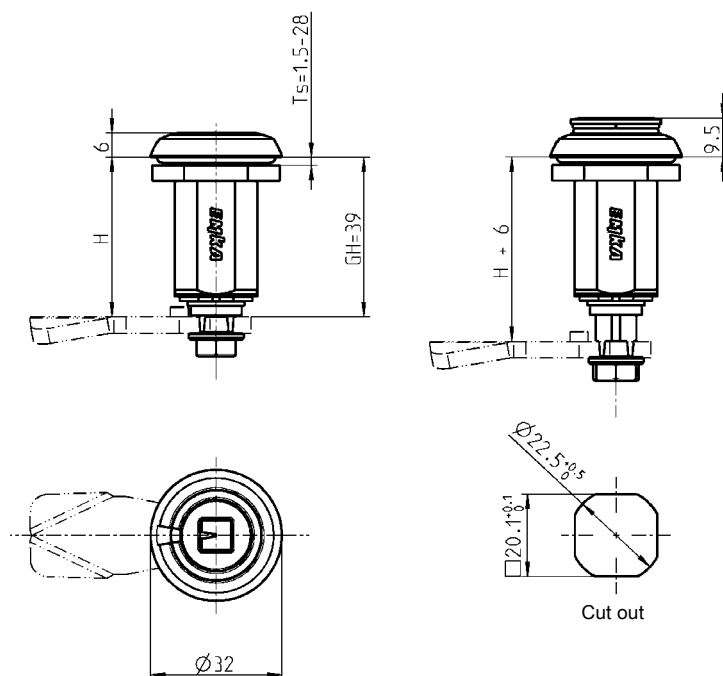
PROGRAM 1000

Vibration proof

These latches are designed to be vibration resistant with a distinct "over-center" action.

Using this compression latch in conjunction with the shown cap (art. no. 1000-97-02 / catalogue page 1C-330) offers a further safety aspect to indicate the open status of the latch:

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

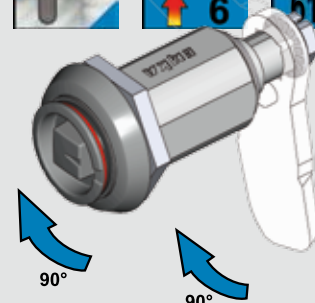


Housing and insert zinc die, surface with your choice, signal-ring red, nut and screw m.s. zinc plated, with spring and seal

	black powder coated	chrome plated
Square 8	1000-U846	1000-U846-IA
Double bit 5	1000-U847	1000-U847-IA
Railway	1000-U848	1000-U848-IA

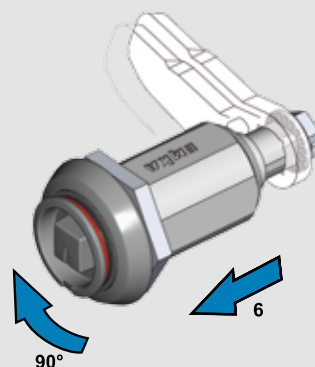
See general catalog 2011 for page references you can't find in the ECHO (e.g. 1B-105).

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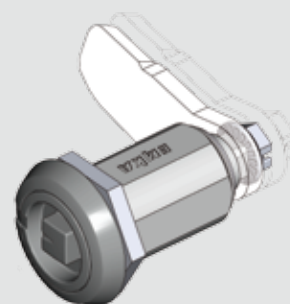
Open condition

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



Closed position

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



Compressed condition

Unlock:
Reversed rotation

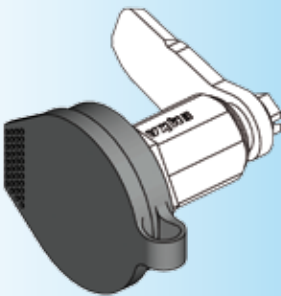
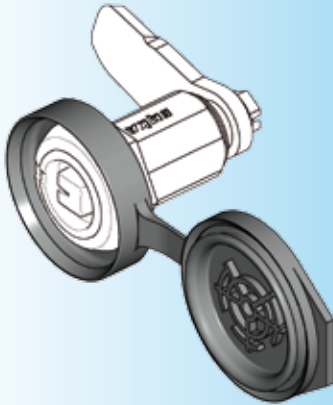
Further parts see page

- Cam (GH = 40) 1C-120
- Accessories from 1C-320
- Escutcheon 3B-140
- Key 12B-120

Attention: when using this cam the dimension H will be reduced by 1 mm



In case of combined dust cap and compression quarter turn with optical indication open (program 1000 / catalogue page 1B-237) additional safety aspect possible.



Note

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

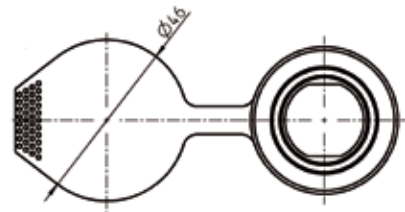
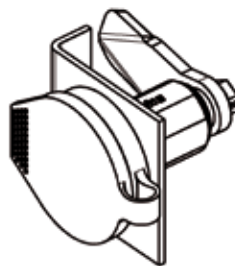
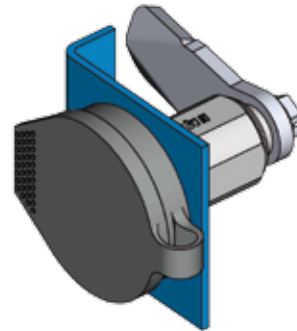
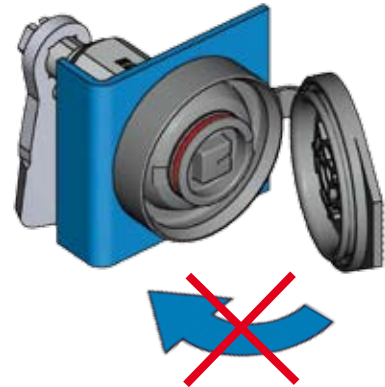
Attention:

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

Further parts see page

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

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



Dust cap TPE, UV resistant , black

1000-97-02

See general catalog 2011 for page references you can't find in the ECHO (e.g. 1B-105).

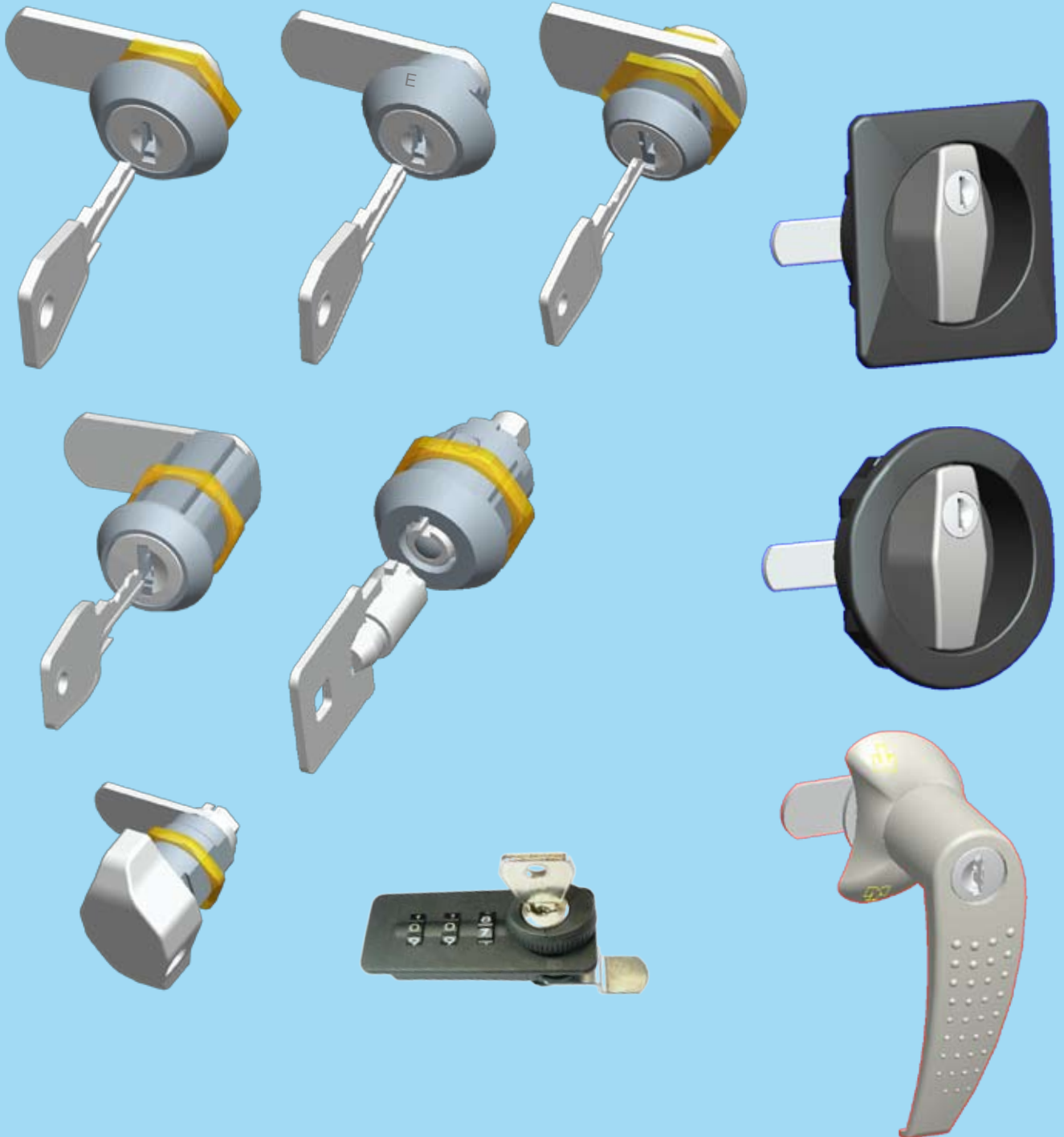
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Cylinder-lock

Program 7100, 7300, 7400, 7500

Handles 7600

Code locks 7700



- 7100= Cylinder-lock series 7150 to 7182
- 7300 = Cylinder-lock series 7302 to 7376
- 7400 = Cylinder-lock series 7401 to 7464
- 7800= Radial cylinder series 7820 to 7840
- 7500= Padlocks series 7504 to 7568
- 7600 = Handles
- 7700= Code locks
- Technical information

from 1F-200 to 1F-236
 from 1F-030 to 1F-110
 from 1F-120 to 1F-190
 from 1F-120 to 1F-270
 from 1F-280 to 1F-310
 from 1F-320 to 1F-370
 1F-380
 from 1F-020 to 1F-029

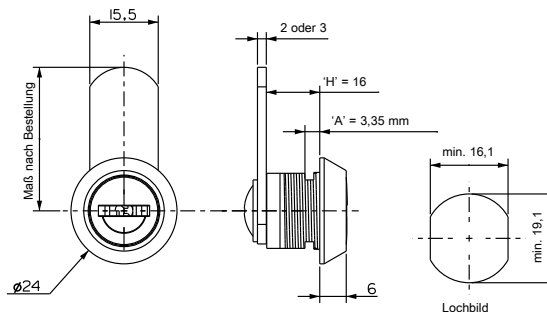
1F-010

7309 A 016¹ B

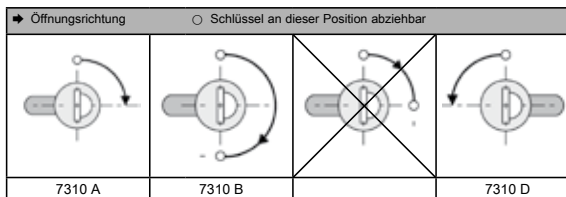
Example

Find part number for a cylinder quarter turn series 7309 of the program 7300
 – Direction of opening A
 – for the module housing and locking cylinder (locking cylinder = cylinder with small plates) the “B” before the part number is cancelled
 – Combination of surfaces B

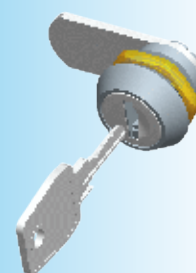
**Zylindervorreiber - Serie 7310
PROGRAMM 7300**



Gerade Zunge: 'H' = 16
 Gebogene Zunge: 'H' = 16 +/- Höhe der Biegung (siehe Tabelle Maß 'D' Katalogblatt 1F-026).



EMKA
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Mögliche Schlüsselprofile:
 – Serie 9000 (x 500)
 – Serie F5000 (x 500)
 – Serie 92000 (x 200)
 – Serie E (auf Anfrage)

Gehäuseoberfläche:
 – verchromt (Standard)
 – andere Oberflächen
 – schwarz gepulvert (auf Anfrage)
 1F-024

Hinweis:
 Bei der Schlossbefestigung mit Gabelfeder muß die Lage der Nut und das 'A' Maß für die Türstärke angegeben werden. (siehe Katalogblatt 1F-023)

Weitere Artikel siehe Katalogblatt
 – Zunge von 1F-025 bis 1F-028

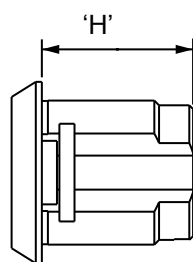
Verfügbare Varianten					
Gehäuse, Walze und Zunge			mögliche Schließungen		Schloss- befestigung
Schließzylinder	Zunge	Zungen- befestigung			
B016B	Edelstahl Kappe	72 oder 73	Schraube	9001-9500 oder F5001-F5500	mit Hauptschlüssel Gabelfeder oder Mutter
B057C	Edelstahl Kappe und Staubschutz	72 oder 73	Schraube	9001-9500 oder F5001-F5500	mit Hauptschlüssel Gabelfeder oder Mutter
B087B	Edelstahl Kappe	72 oder 73	Schraube	92001-92200	mit Hauptschlüssel Gabelfeder oder Mutter
B090B	Edelstahl Kappe	72 oder 73	Schraube	Serie E	ohne Hauptschlüssel Gabelfeder oder Mutter
B109H	verchromt achrolyte	72	E-Clips	9001-9500 oder F5001-9500	mit Hauptschlüssel Gabelfeder oder Mutter

Seitenverweise zu Katalogseiten (z.B. 1B-105) die nicht im ECHO stehen finden Sie im Gesamtkatalog 2011.

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1F-090

(1) = Other surface
 See page 1F-024



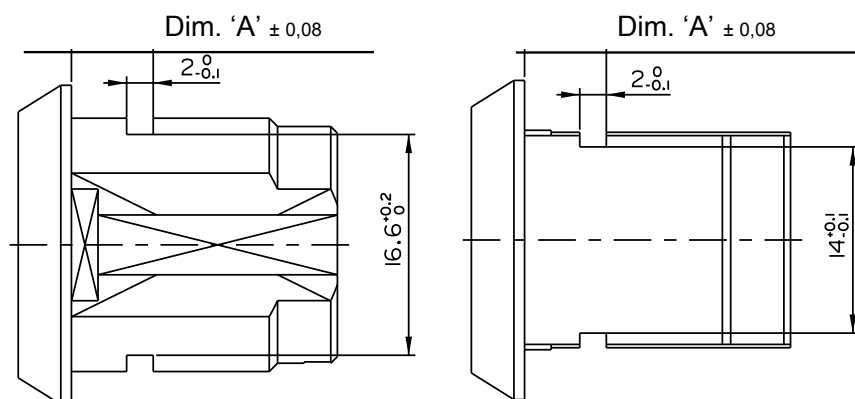
Number of possible closings
7100= Cylinder quarter turn with 200 closings
7300= Cylinder quarter turn with 200, 500 up to 1.000 closings
7400= Cylinder quarter turn with 2.000 closings
7500= Padlocks
7600= Handles with 500, 1.000 up to 2.000 closings
7700= Code locks with combination of numbers
7800= Radial cylinder with 10.000 closings

Ref. 7000	'H' mm							Page
7150	8	•						1F-200
7158	15	•						1F-210
7171	9,5					•		1F-220
7175	9,5					•		1F-230
7309	11		•					1F-030
7302	13				•			1F-040 - 1F-050
7303	18				•			1F-060 - 1F-070
7308	20			•				1F-080
7310	16		•					1F-090
7360	20			•				1F-100
7376	32				•			1F-110
7401	20		•					1F-120
7406	20			•				1F-130
7414	20						•	1F-140
7416	20			•				1F-150
7417	20						•	1F-160
7418	20		•					1F-170
7462	22,4					•		1F-180
7464	20		•					1F-190
7504	20			•				1F-280
7511	20		•					1F-290
7515	20						•	1F-300
7568	22					•		1F-310

Dimension "A" for fork spring-slot

Slot on thread TYPE 'Y'

* Slot on flat side TYPE 'X'



Note:

*Standard for every housing

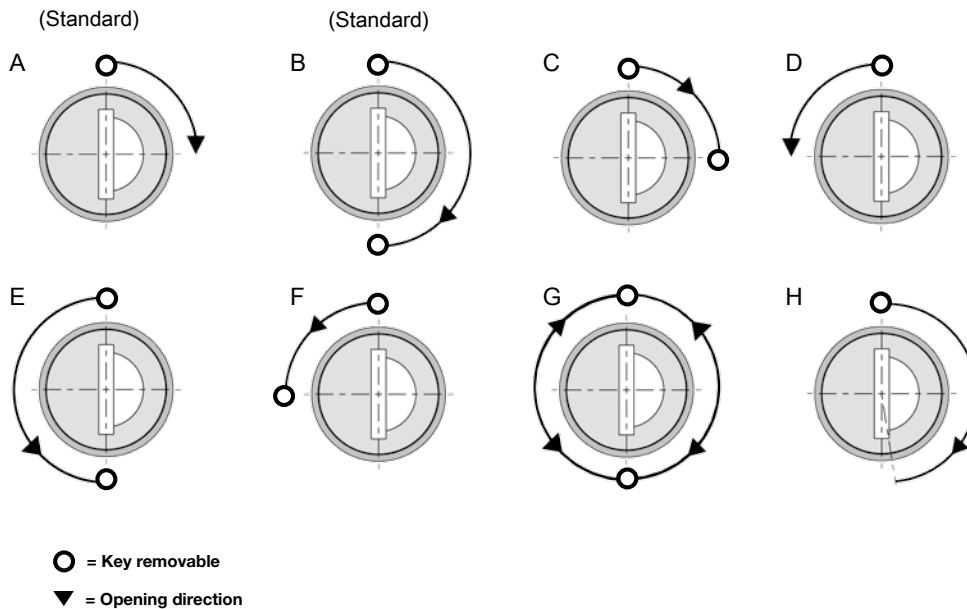
X = 02

Slot for fork spring on the flat housing side for door gauge
1 mm ± 0,2

– when fixing the cylinder quarter turn with the fork spring, the fixing condition on the door is determinant for the position of the fixing slot!

'Y' or 'X'	Door gauge (mm)	Dimension 'A' (mm)
01	0,56 - 0,82	3
* 02	0,82 - 1,22	3,35
03	1,22 - 1,63	3,71
04	1,63 - 2,05	4,12
05	2,34 - 2,64	4,83
06	2,95 - 3,25	5,44
07	3,66 - 4	6,15
08	4 - 4,4	6,35
09	4,4 - 4,75	6,7
10	4,75 - 5,1	7,04
11	5,1 - 5,5	7,45
12	5,5 - 6	7,88
13	6 - 6,5	8,25
14	6,5 - 7	8,76
15	7 - 7,5	9,27
16	11,8 - 12,2	14
17	9,5 - 10	11,8
18	8,2 - 8,7	10,5

Opening direction and position for removing the key



Additional combinations of surfaces for housing and cylinder

A	Housing nickel plated with raw cylinder
B	Housing chrome plated with raw cylinder
C	Housing chrome plated with passivated cylinder
D	Housing nickel plated with passivated cylinder
E	Row housing with cylinder chrome plated
F	Row housing with cylinder black powder coated
G	Row housing with cylinder achrolyte/nickel plated
H	Housing chrome plated with cylinder chrome plated/achrolyte
I	Housing of plastic with cylinder achrolyte/nickel plated
J	Housing powder coated with raw cylinder
K	Black housing chrome plated with raw cylinder

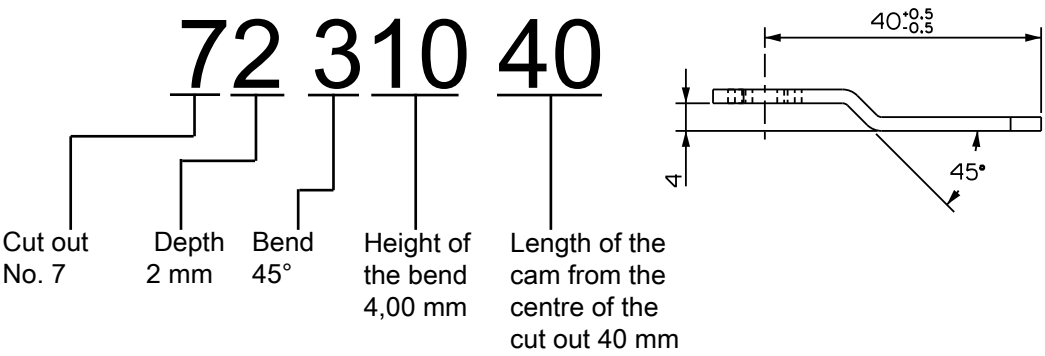
Other surfaces on request

Note:

– All components are produced according to the RoHS European Directive 2002/95/CE

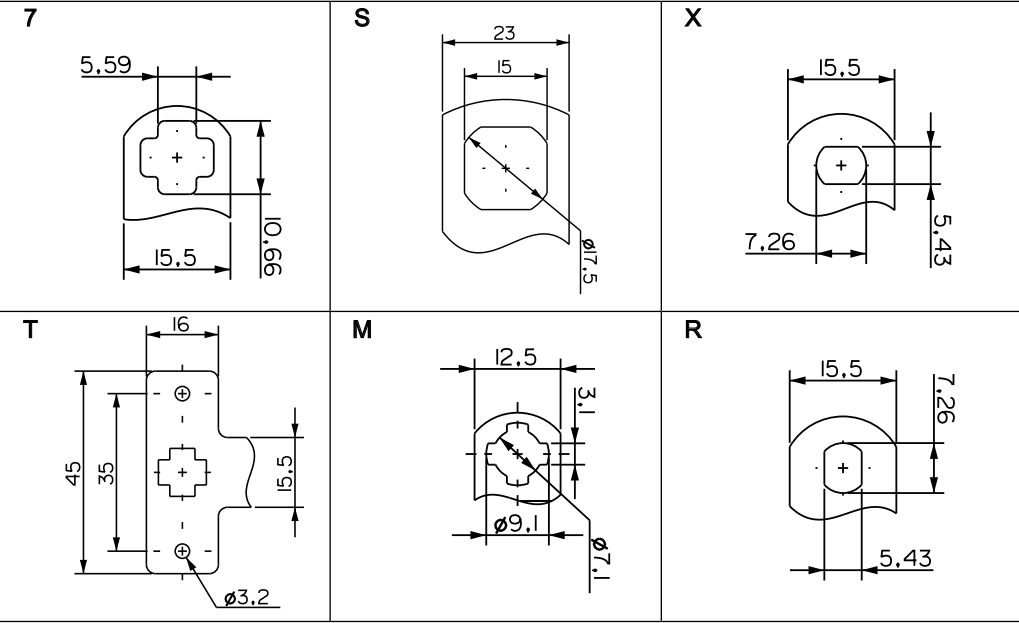
Cam determination

Example:



1st number:
cut out

Suitable cut outs extract from the table of products on the catalogue page in the column "cam"



2nd number:
Dimensions of the material

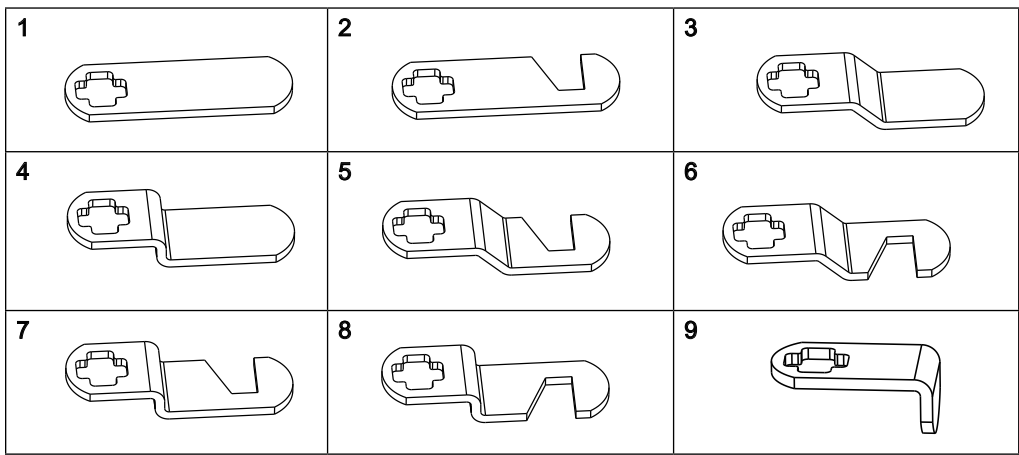
Take care of the combination between cut out end the depth of the material

Cut out	7	S	X	T	M	R
Depth/ Wide	2 x 15,5	3 x 23	-	2 x 15,5	2 x 12,5	-
	3 x 15,5	4 x 23	3 x 15,5	3 x 15,5	-	3 x 15,5

2 = 2 mm ; 3 = 3 mm ; 4 = 4 mm

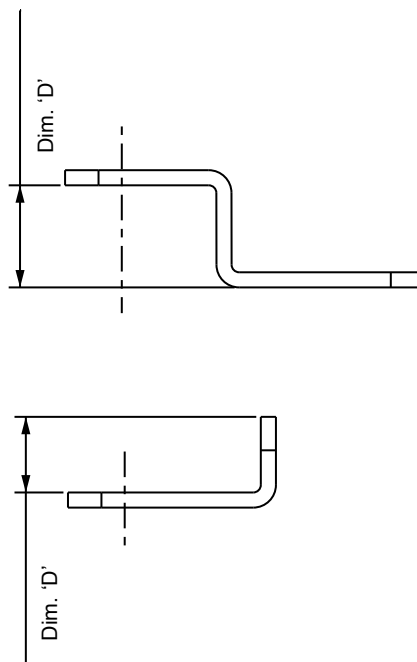
3rd number:
Cam form

Example:
1 = straight
3 = 45° bent
4 = 90° bent
9 = bent at the end 90°

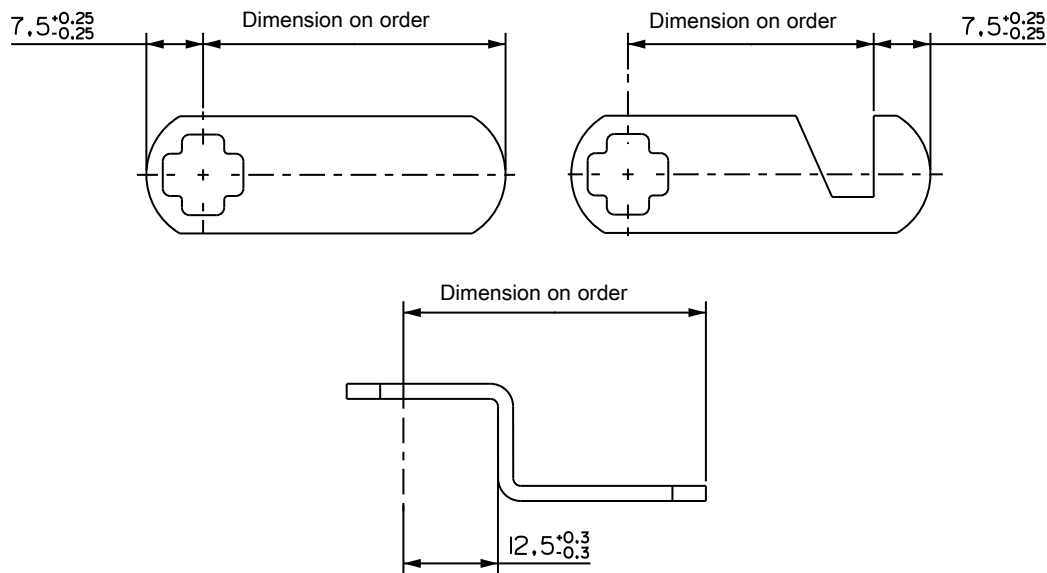


Purpose of a cam

Bend 45°		Bend 90°	
03	1,19 mm	12	4,80 mm
04	1,60 mm	14	5,60 mm
05	1,98 mm	16	6,40 mm
06	2,40 mm	20	7,94 mm
07	2,80 mm	25	9,90 mm
08	3,20 mm	28	11,10 mm
10	4,00 mm	32	12,70 mm
12	4,80 mm	34	13,50 mm
14	5,60 mm	38	15,00 mm
21	8,30 mm	40	15,88 mm
25	9,90 mm	44	17,50 mm
32	12,70 mm	48	19,05 mm
		50	19,85 mm
		64	25,40 mm
		72	28,60 mm



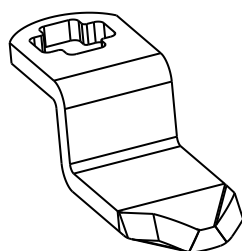
4th and 5th number:
Height of the bend / Dim. D



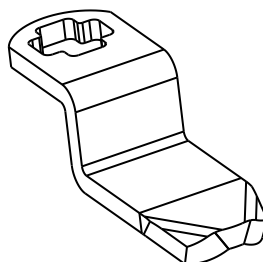
6th and 7th number:
Length of the cam

Note:
– max. length flat = 100 mm

DB



DX



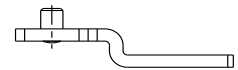
Version DB or DX

Note:
– Standard = straight cam end

3PT cams with or without tetons



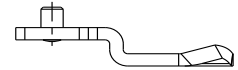
= T.....X



= T....



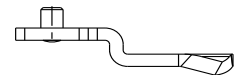
= T.....XB



= T....



= T.....XX



= T....

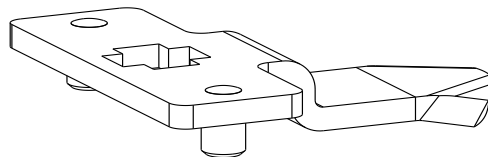
Attention cam without tetons!



= T.....DB



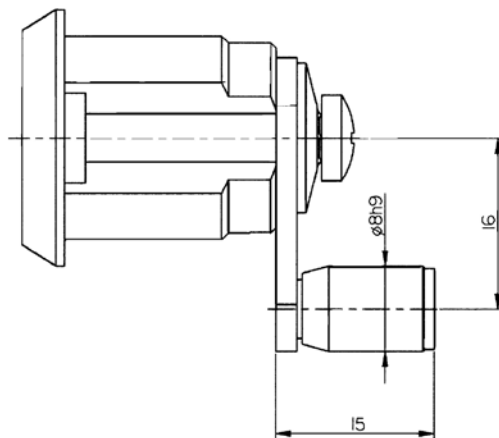
= T....



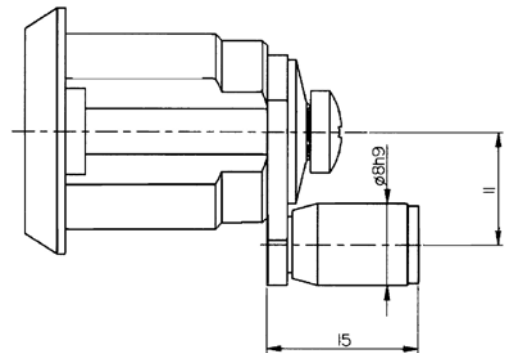
Example: T34I640XX

Multidrawer cams
– Further dimensions on request

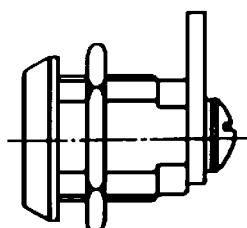
Cam CS006



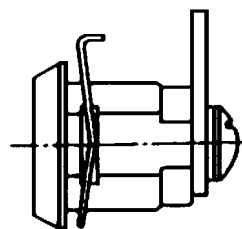
Cam CS008



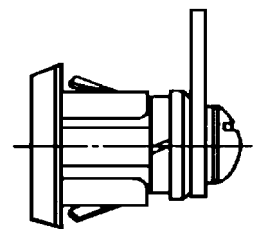
Lock Fixing



Nut fixing



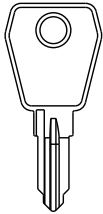
Clip Fixing



Clip-in

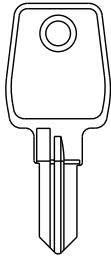
Key

Series 200
differs



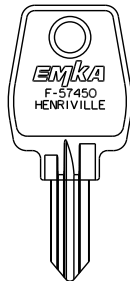
801-1000

Series 500
differs



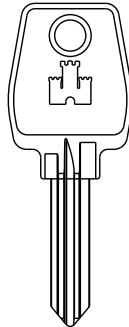
9001-9500
F5001-F5500

Series 2000
differs



25001-27000

Series 2000
differs

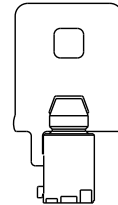


43001-45000
45001-47000

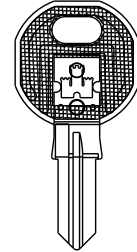
Serie E-A-LF
several differs



Serie 10000
differs RPT



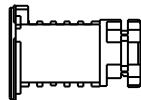
Serie 500 differs
Grip polyamid



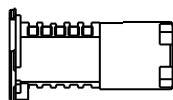
9001-9500
F5001-F5500

Cam assembly at standard barrels

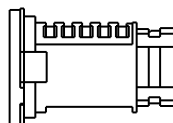
Barrel diameter 9 mm and
assembly with an e-clips.
Serie 200 differs.



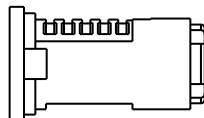
Barrel diameter 9 mm and
assembly with a screw.
Serie 200 differs.



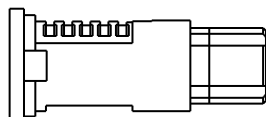
Barrel diameter 12 mm and
assembly with an e-clips.
Serie 500 differs.



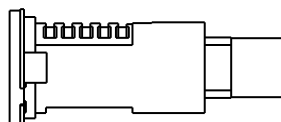
Barrel diameter 12 mm and
assembly with a screw.
Serie 500 differs.



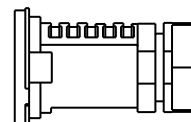
Barrel diameter 12 mm and
assembly with a nut.
Serie 500 differs.



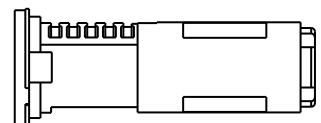
Barillet diamètre 12 mm and
assembly rivet.
Serie 500 differs.



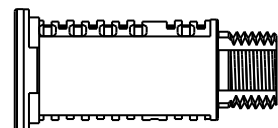
Barrel diameter 12 mm and
assembly with an e-clips.
Serie 500 differs.



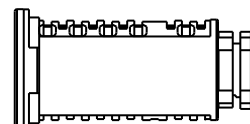
Barrel diameter 12 mm and
assembly with a screw.
Serie 500 differs.



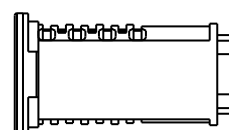
Barrel diameter 13.5 mm
assembly with a nut.
Serie 2000 differs.



Barrel diameter 13.5 mm and
assembly with an e-clips.
Serie 2000 differs.



Barrel diameter 13.5 mm and
assembly with an e-clips.
Serie 2000 differs.



Catalogue page 1F-160



Order example:

Part number classification of 250 cylinder quarter turns with cam and fork fixing for 1,5 mm door gauge

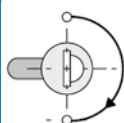
7417 B 003 C 73 6 06 40 43101-43351 Y 3

Part number

Cylinder quarter turn of the Program 7400 – Series 7417 1F-160

Cylinder form

Cam fixing with nut and washer



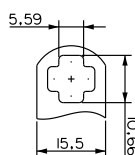
7417 B

003 C

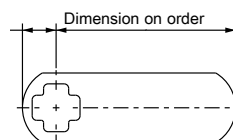
Direction of opening 180° clockwise

Combination of surfaces - Housing chrome plated with passivated cylinder 1F-024

Cam



7 = cut out
3 = depth + width
- 3 x 15,59
1F-025

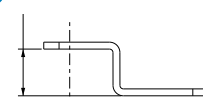


Length of the cam from the centre of the cut out
= 40 mm
1F-026

73

606

40



Height of the bending
- 2,4 mm
1F-026



Cam form
6 = Hooked cam right striking with 45° angle
1F-025

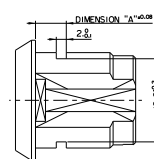
Series 43001

Key form, section of closing and number of closings
This ordered closing begins at the key number 43101 and ends at 43351 = 250 locks, a master key is included in the delivery.

1F-160

43101-43351

Y3

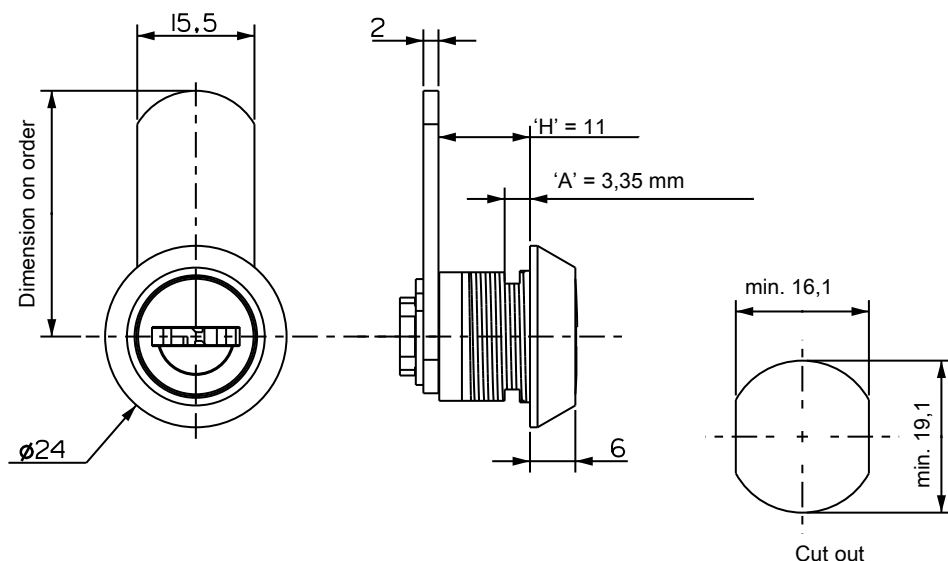


Slot

Fixing the lock with fork spring. Slot on the thread of the housing

– ATTENTION!
Take notice of the assembly option!
1F-025

Depth of the door panel 1,5 mm
1F-023



Straight cam: 'H' = 11

Bended cam: 'H' = 11 $\pm$ height of the bend (see table dimension 'D' catalogue page 1F-026).

➔ Direction of opening ○ Key removable at this position			
7309 A	7309 B		7309 D

Possible key profiles:

- Series 9000 (x 500)
- Series F5000 (x 500)
- Series 92000 (x 200)
- Series E (on request)

Surface of the housing:

- chrome plated (standard)
- other surfaces 1F-024
- black powder coated (on request)

Available options

Available options						
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B015B	Stainless steel cap	72	Circlips	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B055C	Stainless steel cap and dust protection	72	Circlips	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B061C	Stainless steel cap and dust protection	72 or 73	Nut and washer	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B053B	Stainless steel cap	72 or 73	Nut and washer	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B086B	Stainless steel cap	72	E-Clips	92001-92200	with master key	Fork spring or nut
B089B	Stainless steel cap	72	E-Clips	Series E	without master key	Fork spring or nut

Note:

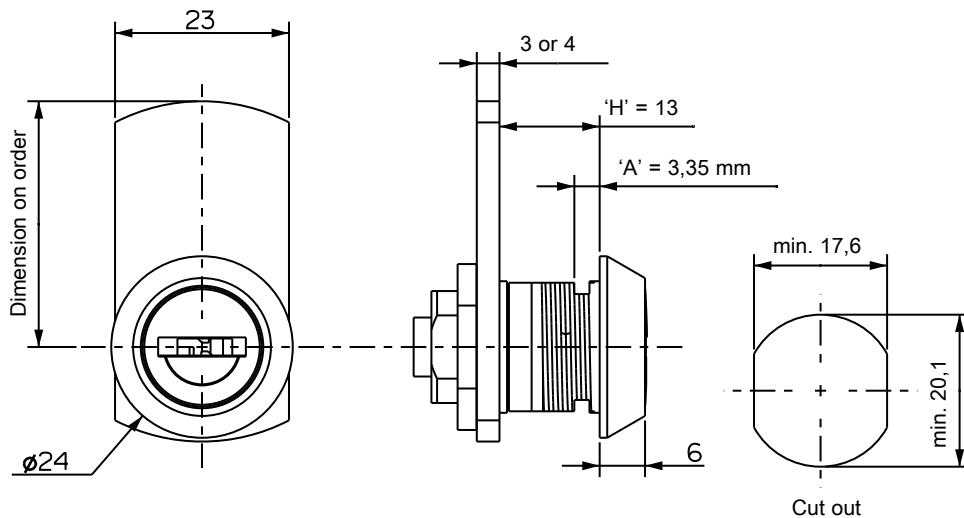
For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Further parts see page

- Cam from 1F-025 up to 1F-028

Cylinder quarter turn - Series 7302

PROGRAM 7300



Straight cam: 'H' = 13
Bended cam: 'H' = 13 ± height of the bend (see table dimension 'D' catalogue page 1F-026).

Possible key profiles:

- Series 9000 (x 500)
- Series F5000 (x 500)
- Series A (on request)
- Series E (on request)

Surface of the housing:

- chrome plated (standard)
- other surfaces 1F-024
- black powder coated (on request)

Note:

For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Further parts see page

- Cam from 1F-025 up to 1F-028

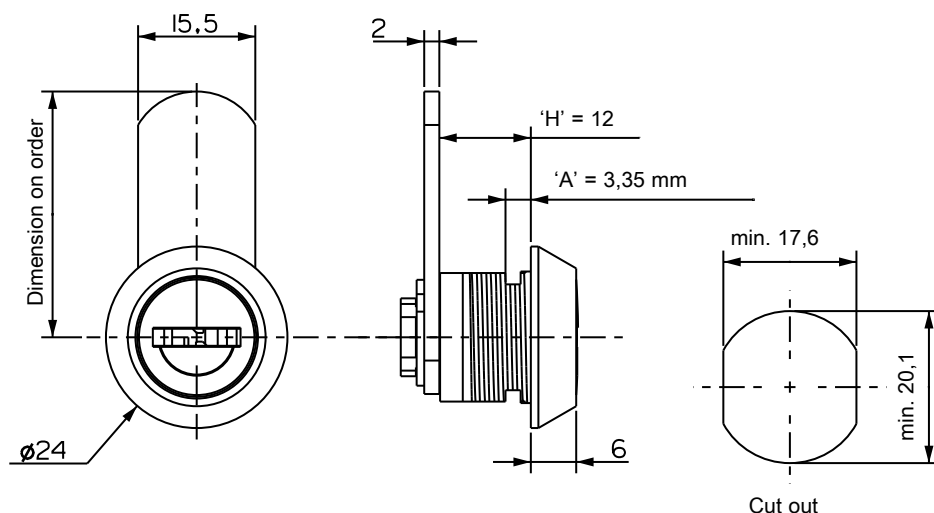
➔ Direction of opening		○ Key removable at this position	
7302 A	7302 B		7302 D

Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B007B	Stainless steel cap	S3 or S4	Nut	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B031C	Stainless steel cap and dust protection	S3 or S4	Nut	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B097B	Stainless steel cap	S3 or S4	Nut	Series A	without master key	Fork spring or nut
B105C	Stainless steel cap	S3 or S4	Nut	Series E	without master key	Fork spring or nut

Cylinder quarter turn - Series 7302

PROGRAM 7300



Straight cam: 'H' = 12
Bended cam: 'H' = 12 ± height of the bend (see table dimension 'D' catalogue page 1F-026).

➡ Direction of opening ○ Key removable at this position			
7302 A	7302 B		7302 D

Possible key profiles:
– Series 9000 (x 500)
– Series F5000 (x 500)

Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated (on request)

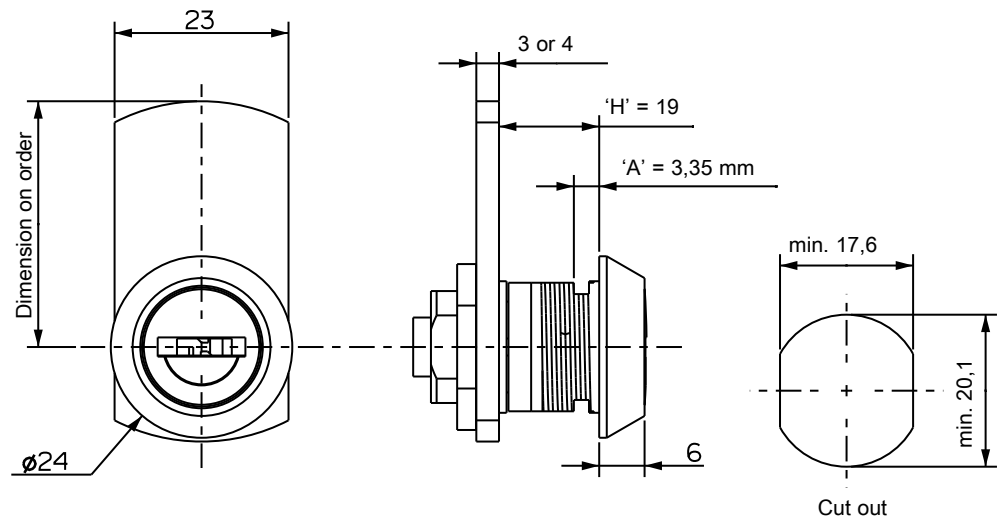
Note:
For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B144B	Stainless steel cap	72	E-Clips	9001-9500 or F5001-F5500	with master key	Fork spring or nut

Further parts see page
– Cam from 1F-025
up to 1F-028

Cylinder quarter turn - Series 7303
PROGRAM 7300



Straight cam: 'H' = 19
Bent cam: 'H' = 19 ± height of bending (see table measure 'D' catalogue page 1F-026).

Possible key profiles:

- Series 9000 (x 500)
- Series F5000 (x 500)
- Series A (on request)
- Series E (on request)

Surface of the housing:

- chrome plated (standard)
- other surfaces 1F-024
- black powder coated (on request)

Note:

For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Further parts see page

- Cam from 1F-025 up to 1F-028

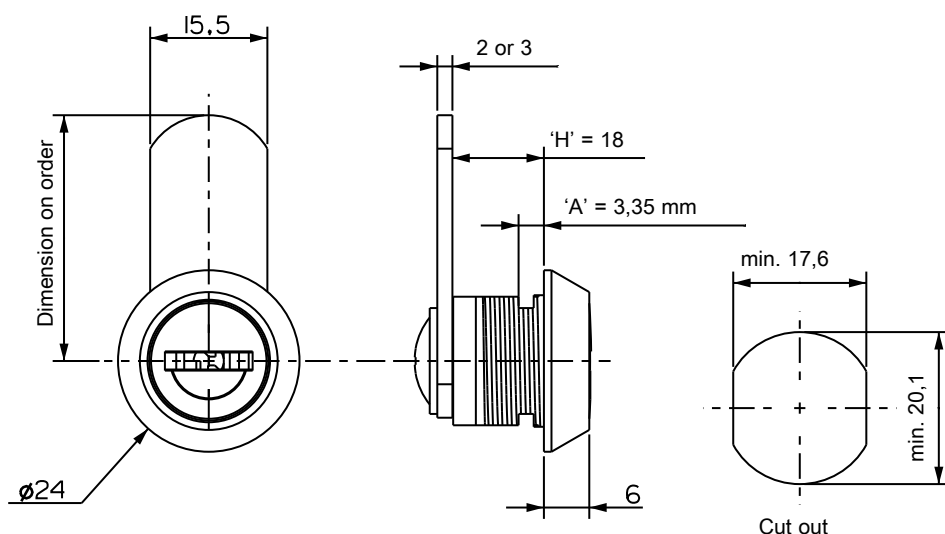
➔ Direction of opening ○ Key removable at this position			
7303 A	7303 B	7303 F	7303 D

Available options						
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder		Cam	Cam fixing			
B006B	Stainless steel cap	S3 or S4	Nut	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B032C	Stainless steel cap and dust protection	S3 or S4	Nut	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B096B	Stainless steel cap	S3 or S4	Nut	Series A	without master key	Fork spring or nut
B104B	Stainless steel cap	S3 or S4	Nut	Series E	without master key	Fork spring or nut

Cylinder quarter turn - Series 7303

PROGRAM 7300

Beschlagteile



Straight cam: 'H' = 18

Bent cam: 'H' = 18 ± height of bending (see table measure 'D' catalogue page 1F-026).



➡ Direction of opening ○ Key removable at this position			
7303 A	7303 B	7303 F	7303 D

Possible key profiles:

- Series 9000 (x 500)
- Series F5000 (x 500)
- Series 6000 (x 1000)
- Series 92000 (x 200)
- Series E (on request)
- Series A (on request)

Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B009B	Stainless steel cap	72 or 73	Screw	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B049C	Stainless steel cap and dust protection	72 or 73	Screw	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B051C	Stainless steel cap and dust protection	72 or 73	Nut and washer	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B085B	Stainless steel cap	72 or 73	Screw	92001-92200	with master key	Fork spring or nut
B088B	Stainless steel cap	72 or 73	Screw	Series E	without master key	Fork spring or nut
B113B	Stainless steel cap	72 or 73	Screw	Series A	without master key	Fork spring or nut
B150B	Stainless steel cap	72 or 73	Screw	6001-7000	with master key	Fork spring or nut
B123H	chrome plated achrolyte	72	E-Clips	9001-9500 or F5001-F5500	with master key	Fork spring or nut

Surface of the housing:

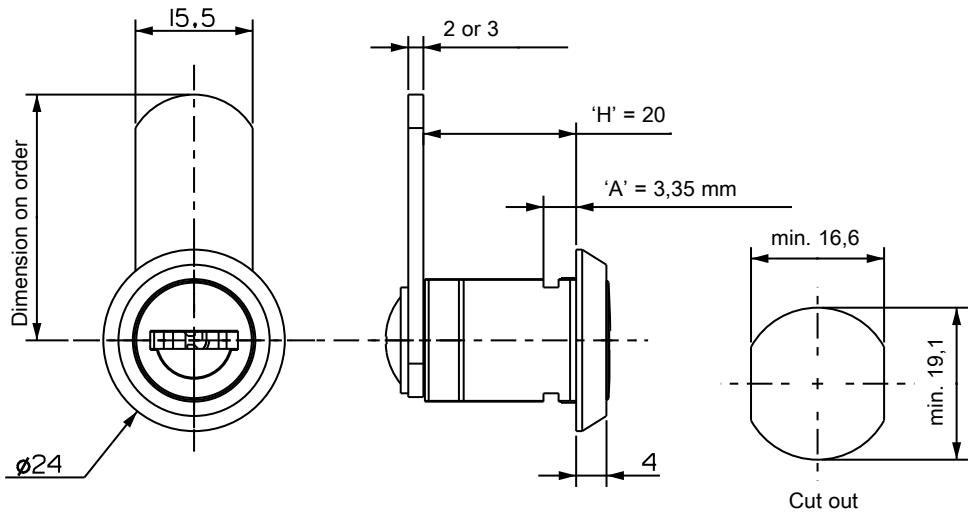
- chrome plated (standard)
- other surfaces 1F-024
- black powder coated (on request)

Note:

For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Further parts see page

- Cam from 1F-025 up to 1F-028



Straight cam: 'H' = 20
 Bent cam: 'H' = 20 $\pm$ height of bending (see table measure 'D' catalogue page 1F-026).

- Possible key profiles:**
- Series 9000 (x 500)
 - Series F5000 (x 500)
 - Series 6000 (x 1000)
 - Series 92000 (x 200)
 - Series E (on request)
 - Series A (on request)

- Surface of the housing:**
- chrome plated (standard)
 - other surfaces 1F-024
 - black powder coated (on request)

Note:
 For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Further parts see page
 – Cam from 1F-025 up to 1F-028

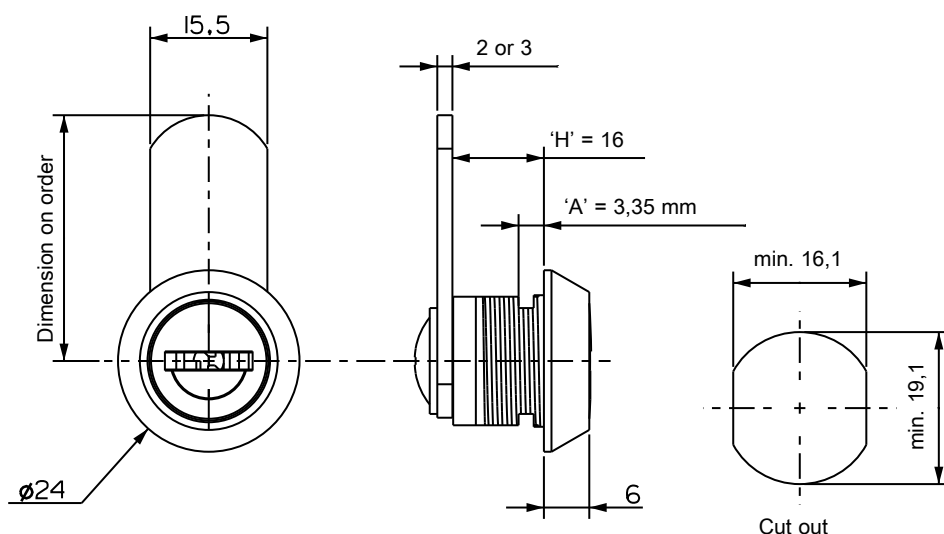
➔ Direction of opening ○ Key removable at this position			
7308 A	7308 B	7308 C	7308 D

Available options						
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder		Cam	Cam fixing			
B009C	Stainless steel cap	72 or 73	Screw	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B049C	Stainless steel cap and dust protection	72 or 73	Screw	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B051C	Stainless steel cap and dust protection	72 or 73	Nut and washer	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B085B	Stainless steel cap	72 or 73	Screw	92001-92200	with master key	Fork spring or nut
B088B	Stainless steel cap	72 or 73	Screw	Series E	without master key	Fork spring or nut
B113B	Stainless steel cap	72 or 73	Screw	Series A	without master key	Fork spring or nut
B150B	Stainless steel cap	72 or 73	Screw	6001-7000	with master key	Fork spring or nut
B123H	achrolyte chrome plated	72	E-Clips	9001-9500 or F5001-F5500	with master key	Fork spring or nut

Cylinder quarter turn - Series 7310

PROGRAM 7300

Beschlagteile



Straight cam: 'H' = 16

Bent cam: 'H' = 16 ± height of bending (see table measure 'D' catalogue page 1F-026).

➔ Direction of opening ○ Key removable at this position			
7310 A	7310 B		7310 D

Possible key profiles:

- Series 9000 (x 500)
- Series F5000 (x 500)
- Series 92000 (x 200)
- Series E (on request)

Surface of the housing:

- chrome plated (standard)
- other surfaces
- black powder coated (on request)

1F-024

Available options

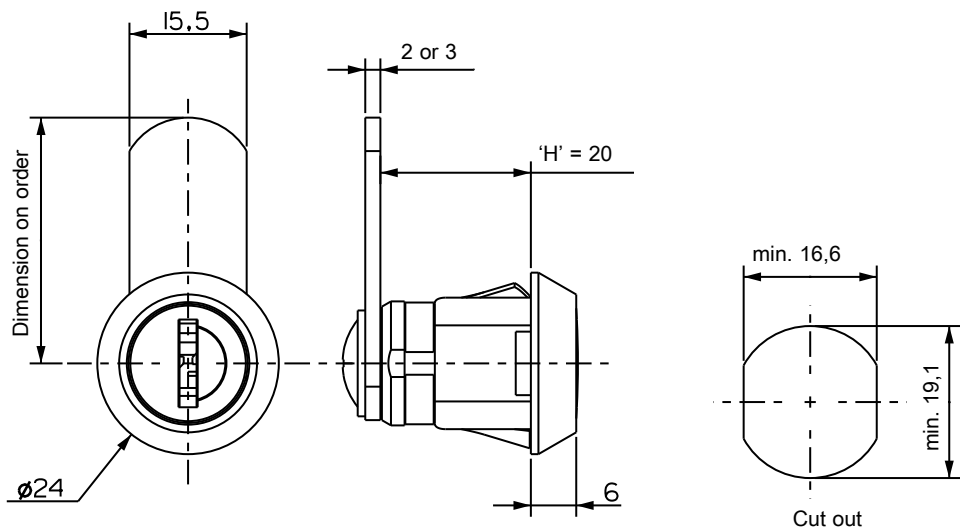
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B016B	Stainless steel cap	72 or 73	Screw	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B057C	Stainless steel cap and dust protection	72 or 73	Screw	9001-9500 or F5001-F5500	with master key	Fork spring or nut
B087B	Stainless steel cap	72 or 73	Screw	92001-92200	with master key	Fork spring or nut
B090B	Stainless steel cap	72 or 73	Screw	Series E	without master key	Fork spring or nut
B109H	chrome plated achrolyte	72	E-Clips	9001-9500 or F5001-F5500	with master key	Fork spring or nut

Note:

For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Further parts see page

- Cam from 1F-025 up to 1F-028



Straight cam: 'H' = 20
Bent cam: 'H' = 20 ± height of bending (see table measure 'D' catalogue page 1F-026).

Possible key profiles:

- Series 9000 (x 500)
- Series F5000 (x 500)
- Series 92000 (x 200)

Surface of the housing:

- chrome plated (standard)
- other surfaces 1F-024
- black powder coated (on request)

➔ Direction of opening ○ Key removable at this position			
7360 A	7360 B	7360 C	7360 D

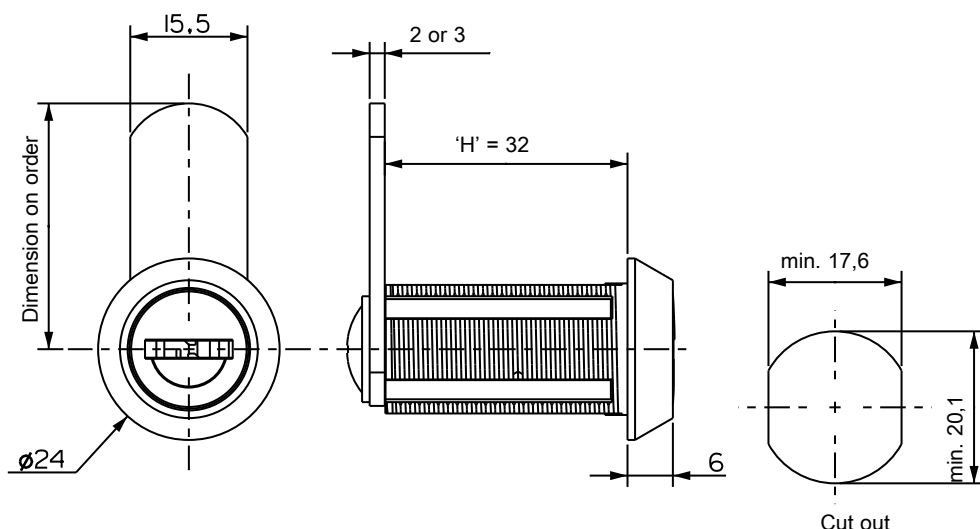
Further parts see page

- Cam from 1F-025 up to 1F-028

Available options						
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder		Cam	Cam fixing			
B076B	Stainless steel cap	72 or 73	Screw	9001-9500 or F5001-F5500	with master key	Quick fixing
B100B	Stainless steel cap	72 or 73	Screw	92001-92200	with master key	Quick fixing

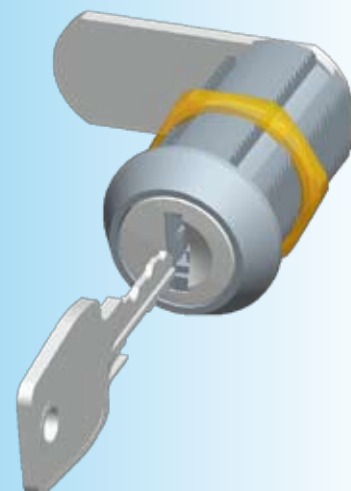
Cylinder quarter turn - Series 7376

PROGRAM 7300



Straight cam: 'H' = 32
Bent cam: 'H' = 32 ± height of bending (see table measure 'D' catalogue page 1F-026).

➡ Direction of opening		○ Key removable at this position	
	7376B		



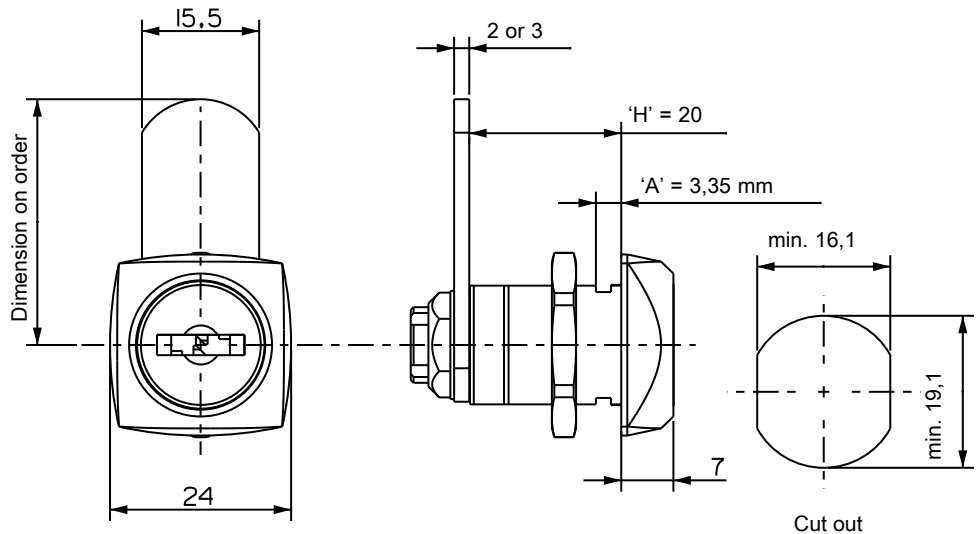
Possible key profiles:
– Series 9000 (x 500)
– Series F5000 (x 500)

Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated (on request)

Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B145B	Stainless steel cap	72 or 73	Screw	9001-9500 or F5001-F5500	with master key	Nut

Further parts see page
– Cam from 1F-025
up to 1F-028



Straight cam: 'H' = 20
Bent cam: 'H' = 20 ± height of bending (see table measure 'D' catalogue page 1F-026).

Possible key profiles:

- Series 43000 (x 2000)
- Series 45000 (x 2000)
- Series 25000 (x 2000)

Surface of the housing:

- chrome plated (standard)
- other surfaces 1F-024
- black powder coated (on request)

Note:

For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Further parts see page

- Cam from 1F-025 up to 1F-028

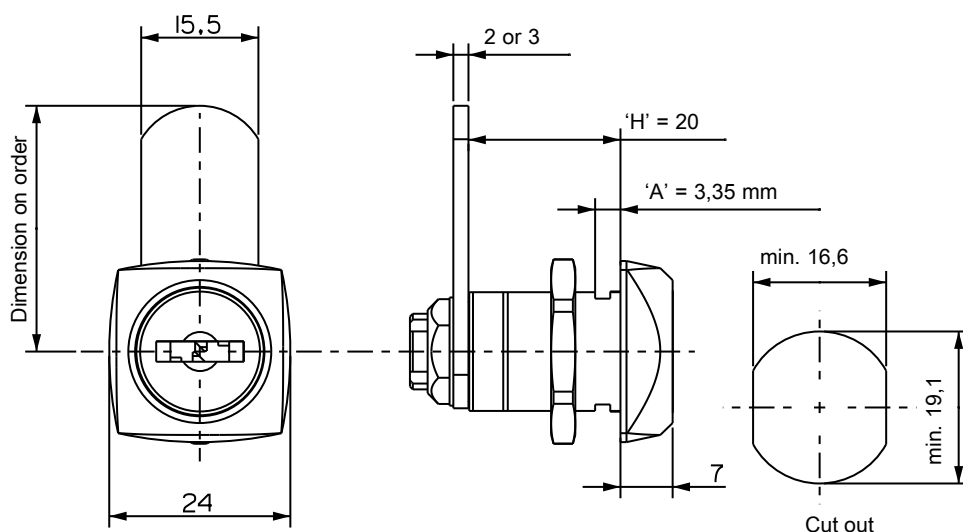
➔ Direction of opening ○ Key removable at this position			
7401 A	7401 B	7401 C	7401 D

Available options						
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder		Cam	Cam fixing			
B003B	Stainless steel cap	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B082B	Stainless steel cap	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B108C	Stainless steel cap and dust protection	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B122B	Stainless steel cap	72 or 73	Screw	25001-27000	with master key	Fork spring or nut
B124C	Stainless steel cap and dust protection	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B126H	chrome plated achrolyte	72 or 73	Screw	25001-27000	with master key	Fork spring or nut

Cylinder quarter turn - Series 7406

PROGRAM 7400

Beschlagteile



Straight cam: 'H' = 20

Bent cam: 'H' = 20 ± height of bending (see table measure 'D' catalogue page 1F-026).



➡ Direction of opening		○ Key removable at this position	
7406 A	7406 B		

Possible key profiles:

- Series 43000 (x 2000)
- Series 45000 (x 2000)
- Series 25000 (x 2000)

Surface of the housing:

- chrome plated (standard)
- other surfaces 1F-024
- black powder coated (on request)

Note:

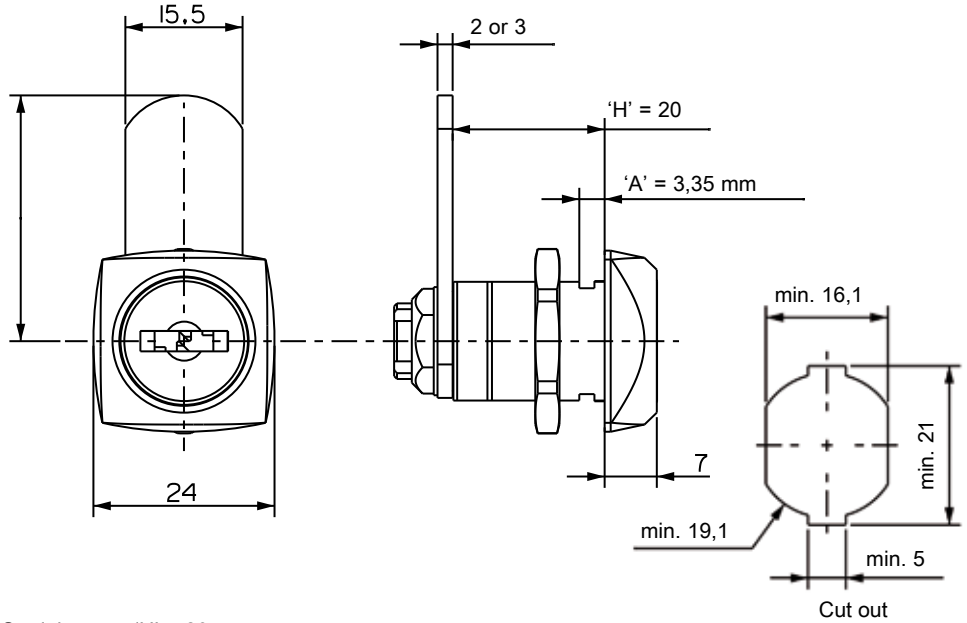
For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Further parts see page

- Cam from 1F-025
- up to 1F-028

Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B003B	Stainless steel cap	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B082B	Stainless steel cap	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B122B	Stainless steel cap	72 or 73	Screw	25001-27000	with master key	Fork spring or nut
B108C	Stainless steel cap and dust protection	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B124C	Stainless steel cap and dust protection	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B126H	chrome plated achrolyte	72 or 73	Screw	25001-27000	with master key	Fork spring or nut



Straight cam: 'H' = 20
Bent cam: 'H' = 20 ± height of bending (see table measure 'D' catalogue page 1F-026).

Possible key profiles:

- Series 43000 (x 2000)
- Series 45000 (x 2000)
- Series 25000 (x 2000)

Surface of the housing:

- chrome plated (standard)
- other surfaces 1F-024
- black powder coated (on request)

Note:

For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Further parts see page

- Cam from 1F-025 up to 1F-028

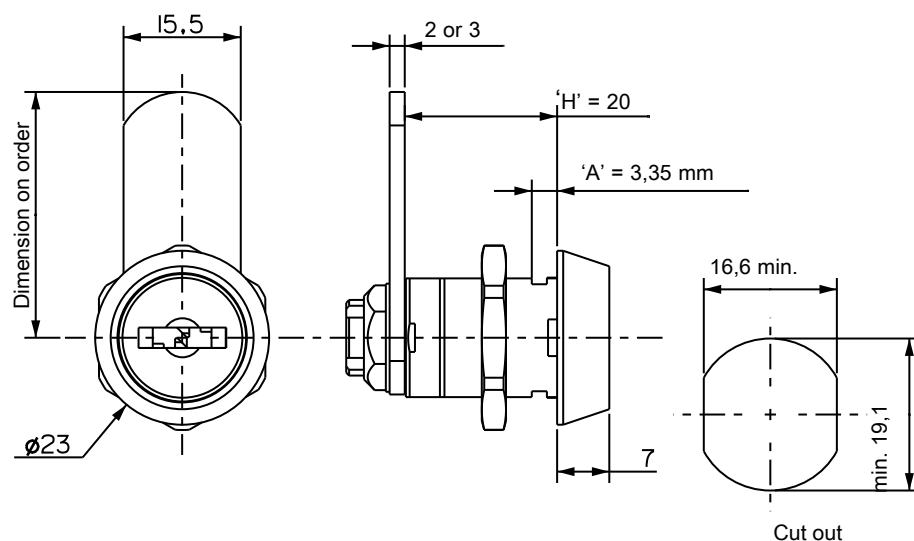
➔ Direction of opening ○ Key removable at this position			
7414 A	7414 B		

Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder		Cam	Cam fixing			
B003B	Stainless steel cap	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B082B	Stainless steel cap	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B108C	Stainless steel cap and dust protection	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B122B	Stainless steel cap	72 or 73	Screw	25001-27000	with master key	Fork spring or nut
B124C	Stainless steel cap and dust protection	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B126H	chrome plated achrolyte	72 or 73	Screw	25001-27000	with master key	Fork spring or nut

Cylinder quarter turn - Series 7416

PROGRAM 7400



Straight cam: 'H' = 20

Bent cam: 'H' = 20 ± height of bending (see table measure 'D' catalogue page 1F-026).

➔ Direction of opening		○ Key removable at this position	
7416 A	7416 B		



Possible key profiles:

- Series 43000 (x 2000)
- Series 45000 (x 2000)
- Series 25000 (x 2000)

Surface of the housing:

- chrome plated (standard)
- other surfaces 1F-024
- black powder coated (on request)

Note:

For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

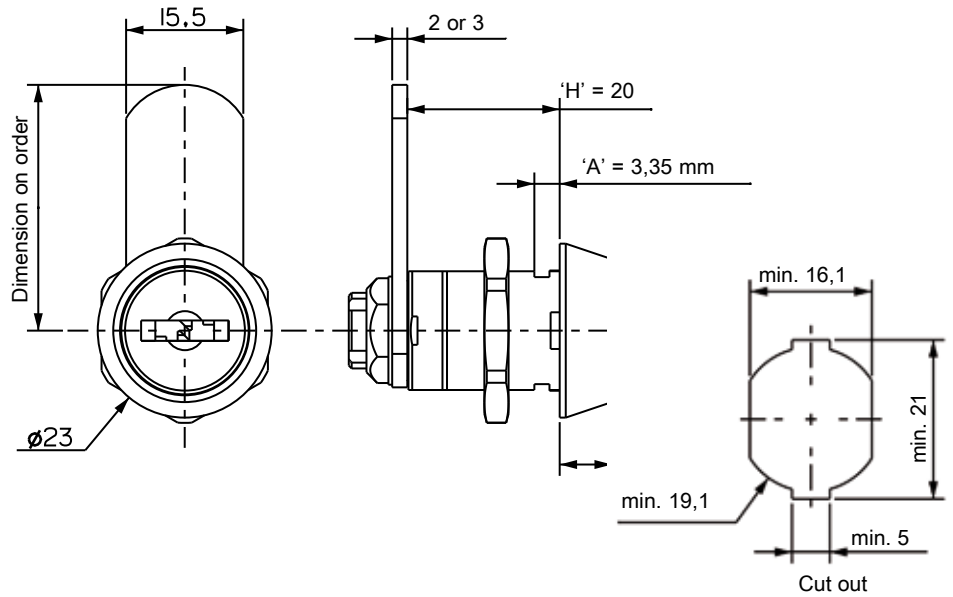
Further parts see page

- Cam from 1F-025
- up to 1F-028

Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B003B	Stainless steel cap	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B082B	Stainless steel cap	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B122B	Stainless steel cap	72 or 73	Screw	25001-27000	with master key	Fork spring or nut
B108C	Stainless steel cap and dust protection	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B124C	Stainless steel cap and dust protection	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B126H	chrome plated achrolyte	72 or 73	Screw	25001-27000	with master key	Fork spring or nut

Cylinder quarter turn - Series 7417
PROGRAM 7400



Straight cam: 'H' = 20
Bent cam: 'H' = 20 ± height of bending (see table measure 'D' catalogue page 1F-026).

Possible key profiles:
– Series 43000 (x 2000)
– Series 45000 (x 2000)
– Series 25000 (x 2000)

Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated
(on request)

Note:
For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

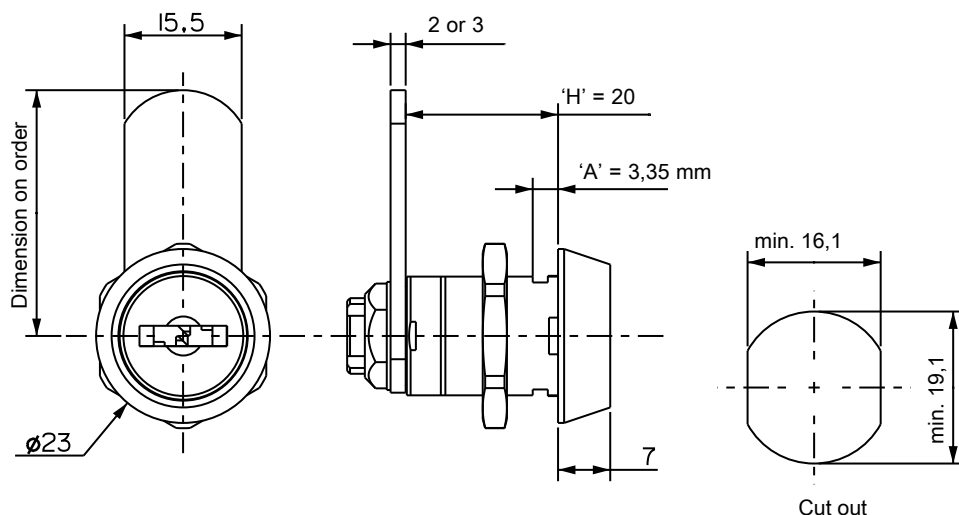
Further parts see page
– Cam from 1F-025
up to 1F-028

➔ Direction of opening ○ Key removable at this position			
7417 A	7417 B		

Available options						
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder		Cam	Cam fixing			
B003C	Stainless steel cap	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B082B	Stainless steel cap	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B108C	Stainless steel cap and dust protection	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B122B	Stainless steel cap	72 or 73	Screw	25001-27000	with master key	Fork spring or nut
B124C	Stainless steel cap and dust protection	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B126H	chrome plated achrolyte	72 or 73	Screw	25001-27000	with master key	Fork spring or nut

Cylinder quarter turn - Series 7418

PROGRAM 7400



Straight cam: 'H' = 20
Bent cam: 'H' = 20 $\pm$ height of bending (see table measure 'D' catalogue page 1F-026).

➔ Direction of opening ○ Key removable at this position			
7418 A	7418 B	7418 C	7418 D



Possible key profiles:
 – Series 43000 (x 2000)
 – Series 45000 (x 2000)
 – Series 25000 (x 2000)

Surface of the housing:
 – chrome plated (standard)
 – other surfaces 1F-024
 – black powder coated (on request)

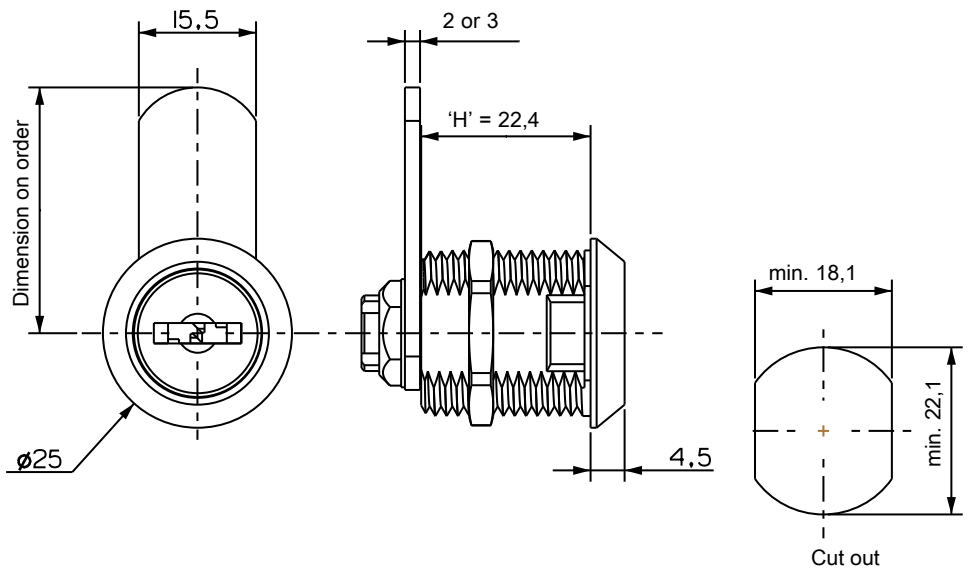
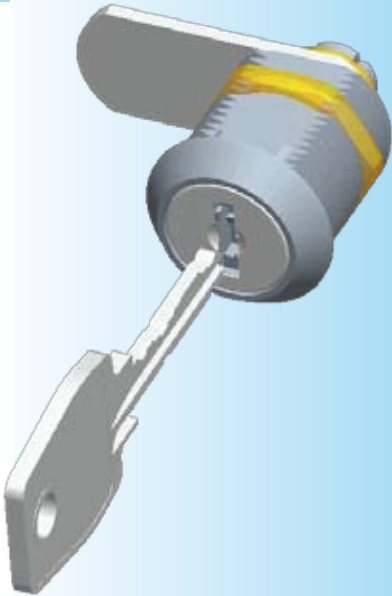
Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B003B	Stainless steel cap	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B082B	Stainless steel cap	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B122B	Stainless steel cap	72 or 73	Screw	25001-27000	with master key	Fork spring or nut
B108C	Stainless steel cap and dust protection	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B124C	Stainless steel cap and dust protection	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B126H	chrome plated achrolyte	72 or 73	Screw	25001-27000	with master key	Fork spring or nut

Note:
 For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Further parts see page
 – Cam from 1F-025
 up to 1F-028

Cylinder quarter turn - Series 7462
PROGRAM 7400



Straight cam: 'H' = 22,4
Bent cam: 'H' = 22,4 ± height of bending (see table measure 'D' catalogue page 1F-026).

- Possible key profiles:**
- Series 43000 (x 2000)
 - Series 45000 (x 2000)
 - Series 25000 (x 2000)

- Surface of the housing:**
- chrome plated (standard)
 - other surfaces 1F-024
 - black powder coated (on request)

➔ Direction of opening ○ Key removable at this position			
7462 A	7462 B		

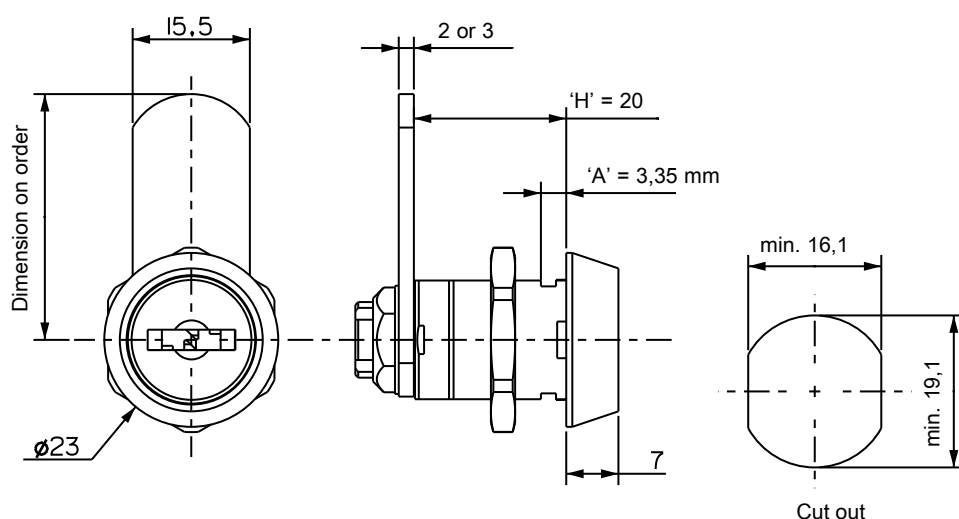
Further parts see page
– Cam from 1F-025
up to 1F-028

Available options						
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder		Cam	Cam fixing			
B003B	Stainless steel cap	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Nut
B082B	Stainless steel cap	72	E-Clips	43001-45000 or 45001-47000	with master key	Nut
B108C	Stainless steel cap and dust protection	72	E-Clips	43001-45000 or 45001-47000	with master key	Nut
B122B	Stainless steel cap	72 or 73	Screw	25001-27000	with master key	Nut
B124C	Stainless steel cap and dust protection	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Nut
B126H	chrome plated achrolyte	72 or 73	Screw	25001-27000	with master key	Nut

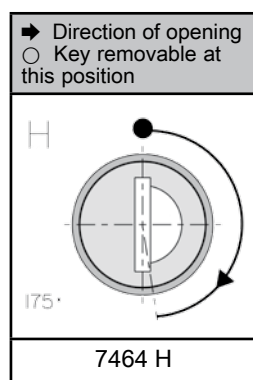
Cylinder quarter turn - Series 7464

PROGRAM 7400

Beschlagteile



Straight cam: 'H' = 20
Bent cam: 'H' = 20 $\pm$ height of bending (see table measure 'D' catalogue page 1F-026).



Possible key profiles:
– Series 43000 (x 2000)
– Series 45000 (x 2000)
– Series 25000 (x 2000)

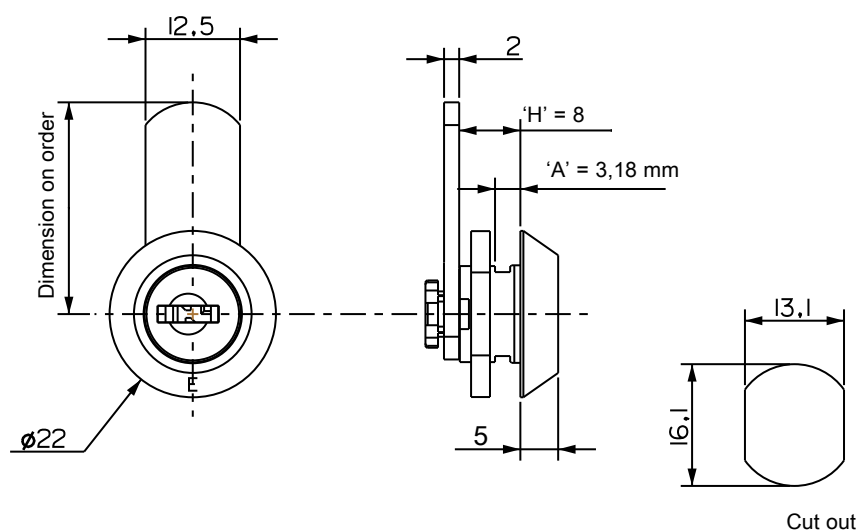
Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated (on request)

Note:
For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Further parts see page
– Cam from 1F-025
up to 1F-028

Available options

Available options						
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B003B	Stainless steel cap	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B082B	Stainless steel cap	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B122B	Stainless steel cap	72 or 73	Screw	25001-27000	with master key	Fork spring or nut
B108C	Stainless steel cap and dust protection	72	E-Clips	43001-45000 or 45001-47000	with master key	Fork spring or nut
B124C	Stainless steel cap and dust protection	72 or 73	Nut and washer	43001-45000 or 45001-47000	with master key	Fork spring or nut
B126H	chrome plated achrolyte	72 or 73	Screw	25001-27000	with master key	Fork spring or nut



Straight cam: 'H' = 8
Bended cam: 'H' = 8 $\pm$ height of the bend (see table dimension 'D' catalogue page 1F-026).

Possible key profiles:
– Mini-Series 800 (x 200)

Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated (on request)

➔ Direction of opening ○ Key removable at this position			
7150 A	7150 B	7150 C	7150 D

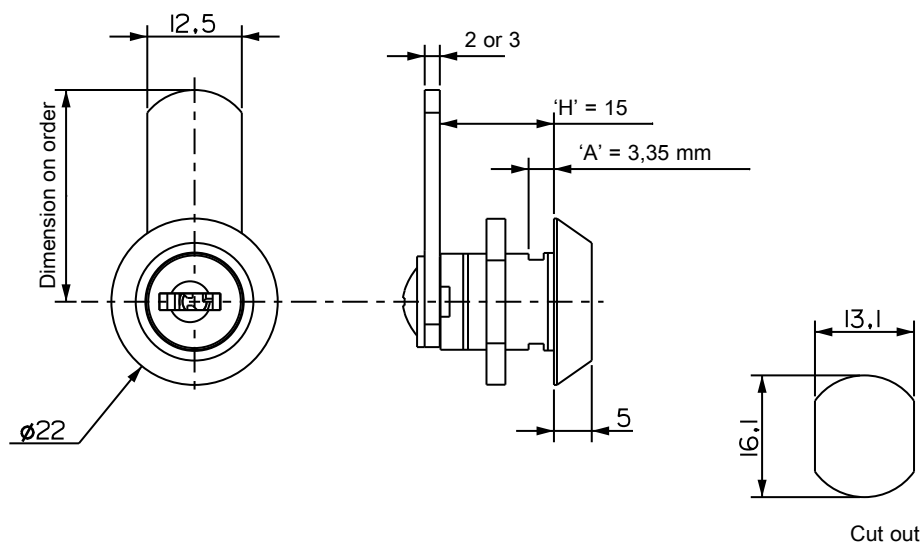
Further parts see page
– Cam from 1F-025 up to 1F-028

Available options						
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder		Cam	Cam fixing			
B068B	Stainless steel cap	M2	E-Clips	801-1000	without master key	Fork spring or nut
B110H	chrome plated achrolyte	M2	E-Clips	801-1000	without master key	Fork spring or nut

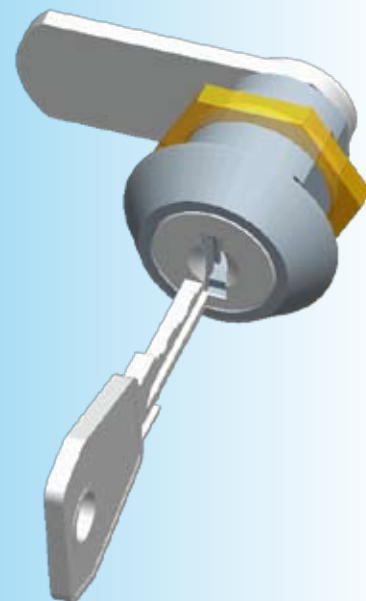
Cylinder quarter turn - Series 7158

PROGRAM 7100

Beschlagteile



Straight cam: 'H' = 15
Bended cam: 'H' = 15 ± height of the bend (see table dimension 'D' catalogue page 1F-026).



➔ Direction of opening ○ Key removable at this position			
7158 A	7158 A	7158 C	7158 D

Possible key profiles:
– Mini-Series 800 (x 200)

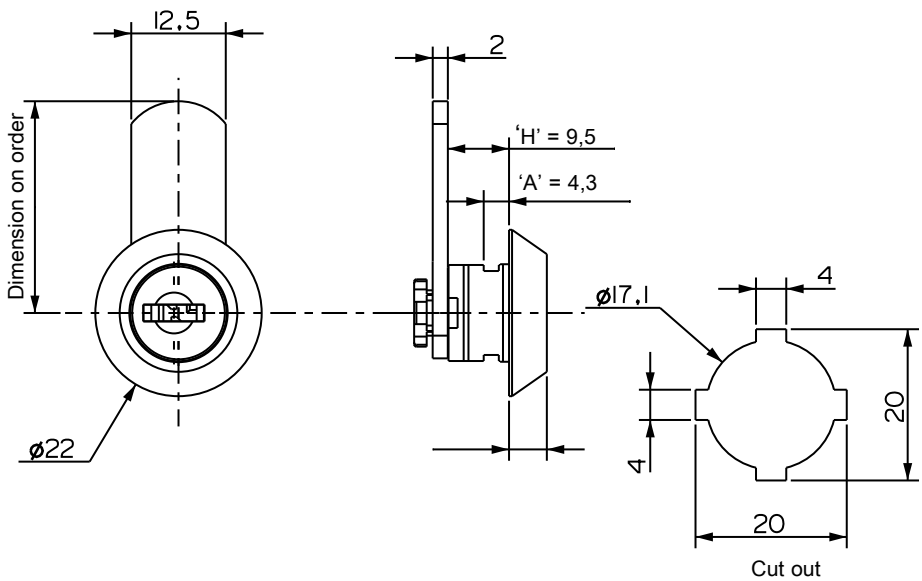
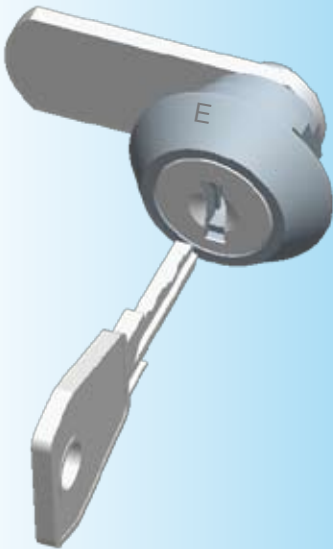
Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated (on request)

Note:
For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B058B	Stainless steel cap	M2	Screw and washer	801-1000	without master key	Fork spring or nut
B116H	chrome plated achrolyte	M2	Screw and washer	801-1000	without master key	Fork spring or nut

Further parts see page
– Cam from 1F-025
up to 1F-028



Straight cam: 'H' = 9,5
 Bended cam: 'H' = 9,5 ± height of the bend (see table dimension 'D' catalogue page 1F-026).

Possible key profiles:
 – Mini-Series 800 (x 200)

Surface of the housing:
 – chrome plated (standard)
 – other surfaces
 – black powder coated (on request)

➔ Direction of opening ○ Key removable at this position			
		7171 C	

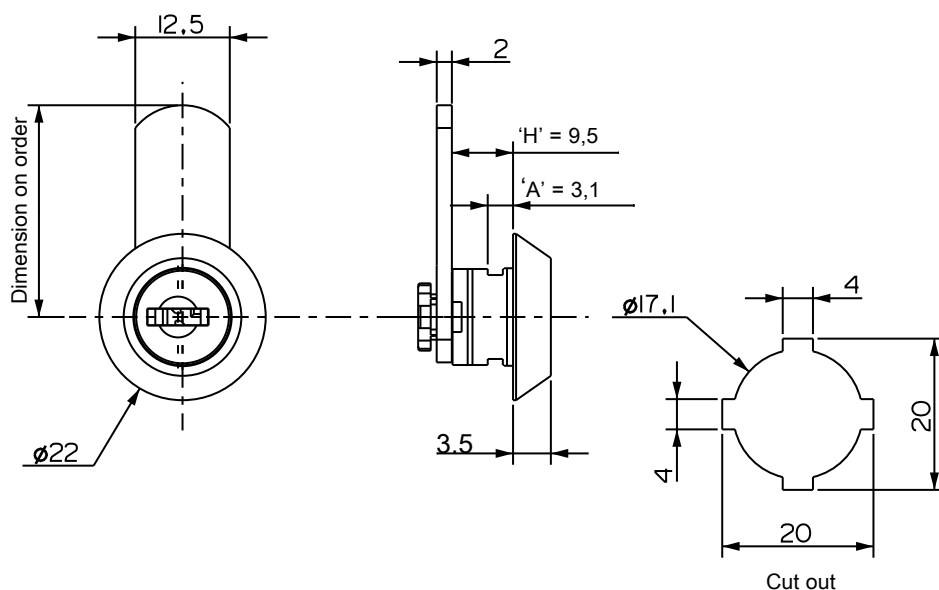
Further parts see page
 – Cam from 1F-025 up to 1F-028

Available options						
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B068B	Stainless steel cap	M2	E-Clips	801-1000	without master key	Fork spring
B110H	chrome plated achrolyte	M2	E-Clips	801-1000	without master key	Fork spring

Cylinder quarter turn - Series 7175

PROGRAM 7100

Beschlagteile



Straight cam: 'H' = 9,5

Bended cam: 'H' = 9,5 ± height of the bend (see table dimension 'D' catalogue page 1F-026).

➔ Direction of opening ○ Key removable at this position			
		7175 C	

Possible key profiles:
– Mini-Series 800 (x 200)

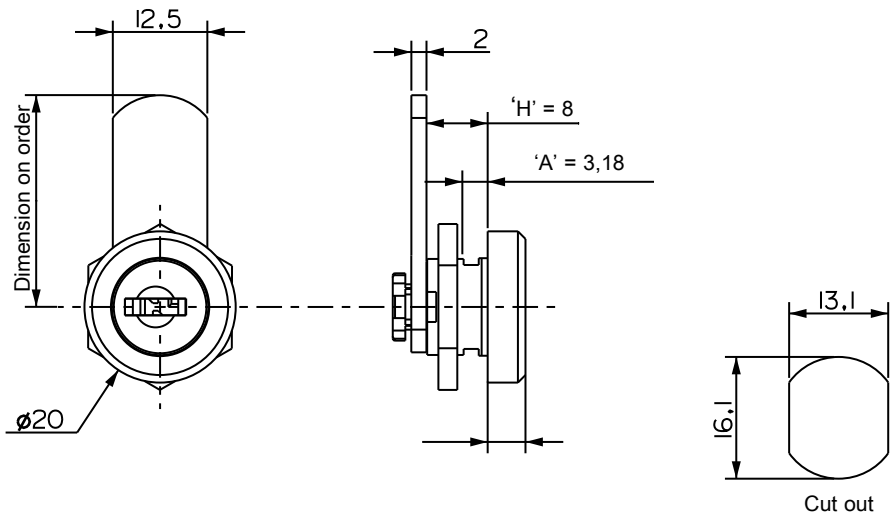
Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated (on request)

Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B068B	Stainless steel cap	M2	E-Clips	801-1000	without master key	Fork spring
B110H	chrome plated achrolyte	M2	E-Clips	801-1000	without master key	Fork spring

Further parts see page
– Cam from 1F-025
up to 1F-028

Cylinder quarter turn - Series 7178
PROGRAM 7100



Straight cam: 'H' = 8
Bended cam: 'H' = 11 ± height of the bend (see table dimension 'D' catalogue page 1F-026).

Possible key profiles:
– Mini-Series 800 (x 200)

Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated
(on request)

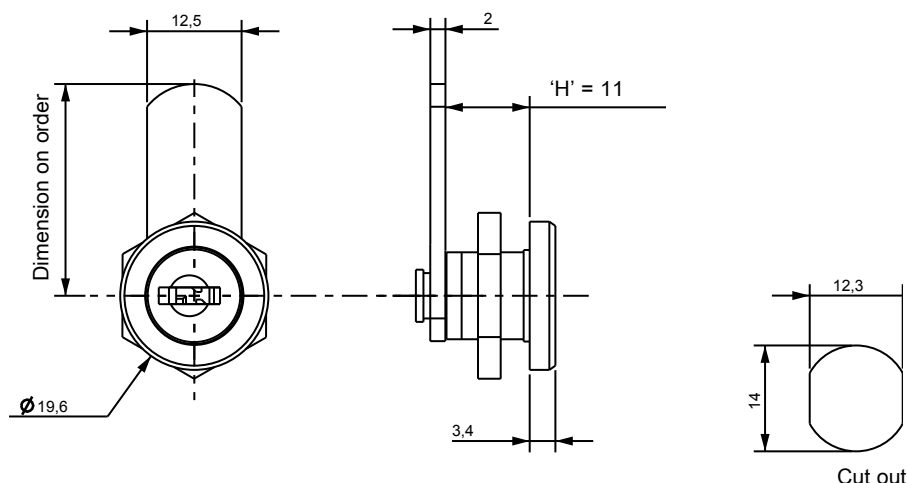
➔ Direction of opening ○ Key removable at this position			
7178 A	7178 B	7178 C	7178 D

Further parts see page
– Cam from 1F-025
up to 1F-028

Available options						
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder		Cam	Cam fixing			
B068B	Stainless steel cap	M2	E-Clips	801-1000	without master key	Fork spring or nut
B110H	chrome plated achrolyte	M2	E-Clips	801-1000	without master key	Fork spring or nut

Cylinder quarter turn - Series 7182

PROGRAM 7100



Straight cam: 'H' = 11

Bended cam: 'H' = 11 ± height of the bend (see table dimension 'D' catalogue page 1F-026).

➡ Direction of opening ○ Key removable at this position			
			7182 D

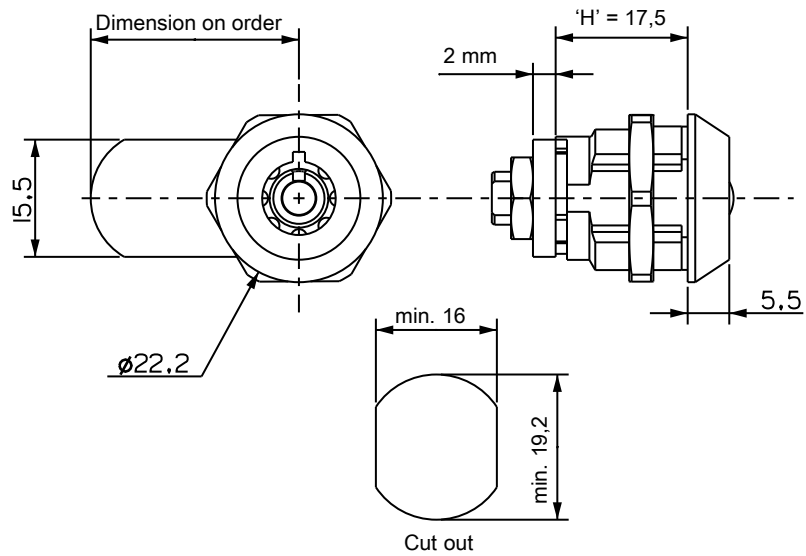
Possible key profiles:
– Mini-Series 800 (x 200)

Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated (on request)

Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B166B	Stainless steel cap	M2	E-Clips	801-1000	without master key	Nut

Further parts see page
– Cam from 1F-025
up to 1F-028



Straight cam: 'H' = 17,5
Bended cam: 'H' = 17,5 ± height of the bend (see table dimension 'D' catalogue page 1F-026).

Possible closings:
– 10.000

Shaft and pins:
– Brass

Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated
 (on request)

➔ Direction of opening ○ Key removable at this position other movements on request		
A	C	D

All standard part numbers:

-7820 A 303
-7820 D 303
-7821 C 303

-7820 A 306
-7820 D 306
-7821 C 306

Further parts see page
– Cam from 1F-025
 up to 1F-028

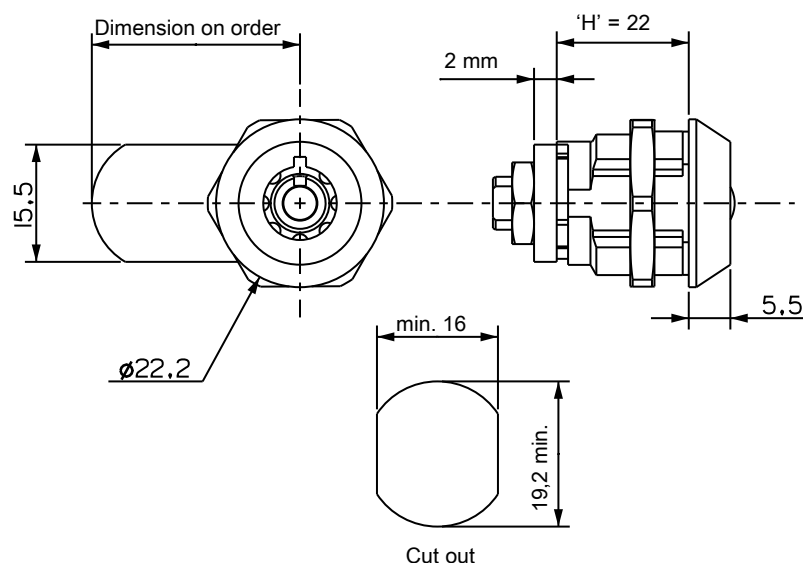
Available options

Shaft	Applications	Cams	Cam fixing	Lock fixing
303	Standard lock	R or X	Nut	Nut
306	For electronic controls	Switch MS or CK	-	Nut

Radial cylinder - Series 7840 Standard

PROGRAM 7800

Beschlagteile



Straight cam: 'H' = 22
Bended cam: 'H' = 22 $\pm$ height of the bend (see table dimension 'D' catalogue page 1F-026).

➔ Direction of opening ○ Key removable at this position other movements on request		
A	C	D

All standard part numbers:

-7840 A 304
-7840 D 304
-7811 C 304

-7840 A 307
-7840 D 307
-7841 C 307



Possible closings:
– 10.000

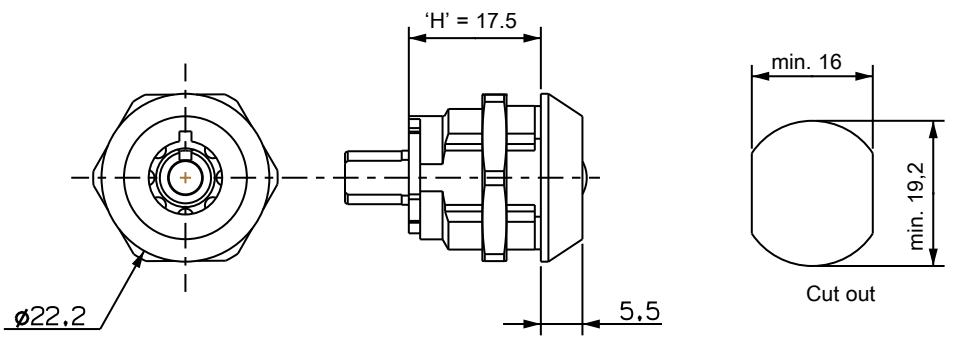
Shaft and pins:
– Brass

Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated (on request)

Available options

Shaft	Applications	Cams	Cam fixing	Lock fixing
304	Standard lock	R or X	Nut	Nut
307	For electronic controls	Switch MS or CK	-	Nut

Further parts see page
– Cam from 1F-025
up to 1F-028

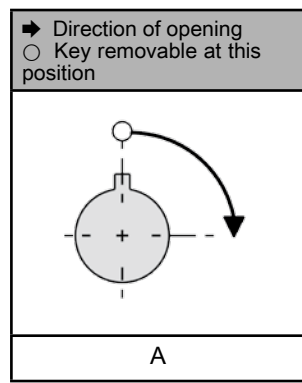


Possible closings:
– 10.000

Shaft and pins:
– Brass

Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated (on request)

Note:
Switch not included in the delivery



All standard part numbers:
-7840 A 307 I

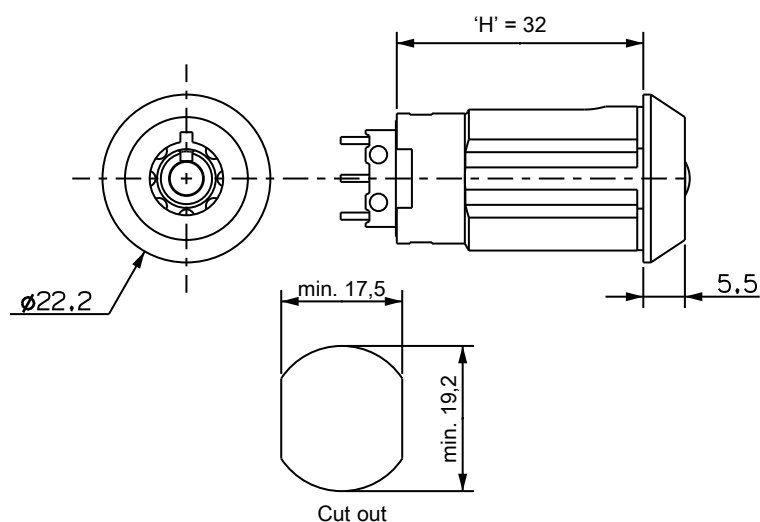
Available options

Rotor	Applications	Switch	Lock fixing
307	for electronic controls	MS or CK	Nut

Radial cylinder - Series 7830 switch

PROGRAM 7800

Beschlagteile



➡ Direction of opening ○ Key removable at this position other movements on request		
A	C	D

All standard part numbers:

-7830 A 356
-7830 D 356
-7831 C 356

Available options

Rotor	Applications	Switch	Lock fixing
356	for electronic controls	MS or CK	Nut

➡ Direction of opening ○ Key removable at this position
A

All standard part numbers:
-7830 A 356 I

Series 7830 Pulse switch

Available options

Rotor	Applications	Switch	Lock fixing
356	for electronic controls	MS or CK	Nut

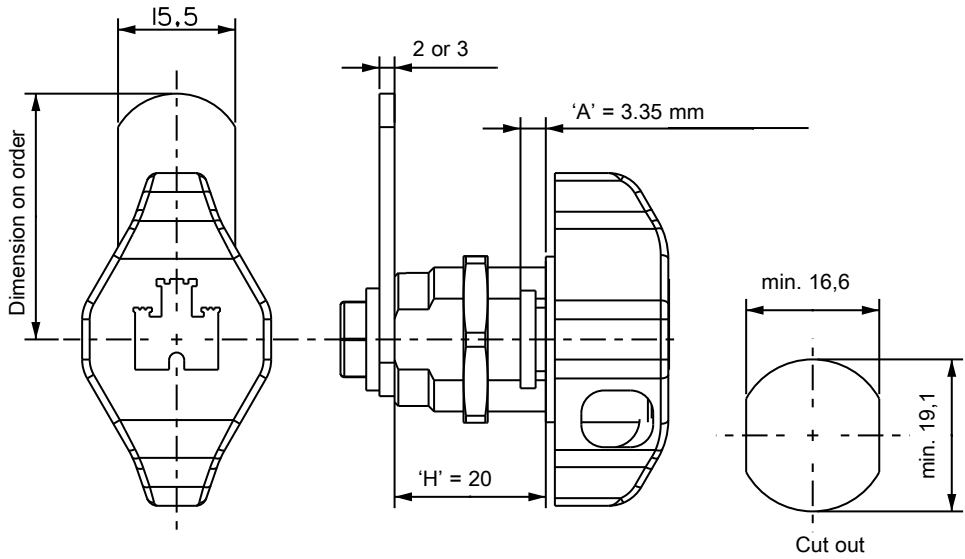
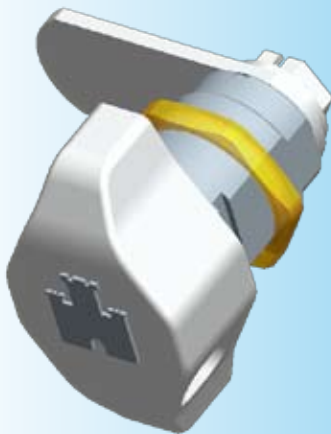


Possible closings:
- 10.000

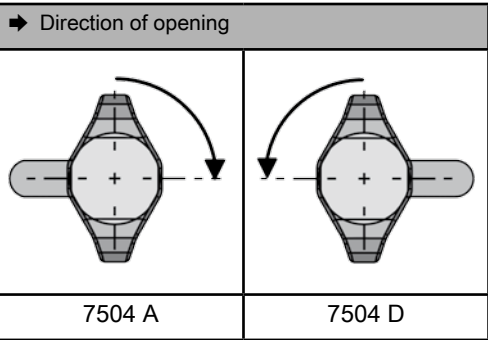
Shaft and pins:
- Brass

Surface of the housing:
- chrome plated (standard)
- other surfaces 1F-024
- black powder coated (on request)

Note:
Switch not included in the delivery



Straight cam: 'H' = 20
Bent cam: 'H' = 20 ± height of bending (see table measure 'D' catalogue page 1F-026).



Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated (on request)

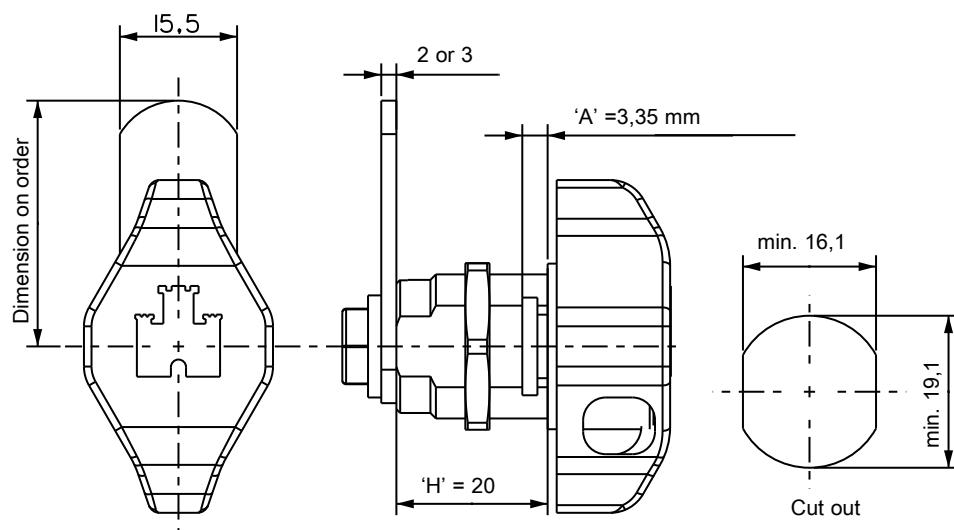
Note:
For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Further parts see page
– Cam from 1F-025 up to 1F-028

Available options				
Wing knob	Castle-relief	Cams	Cam fixing	Lock fixing
B008	yes	72 or 73	Screw	Fork spring or nut
B010	no	72 or 73	Screw	Fork spring or nut

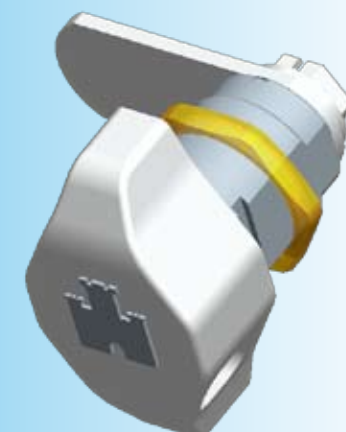
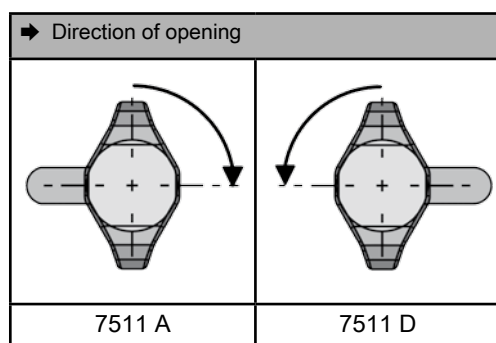
Quarter turn for padlock - Series 7511

PROGRAM 7500



Straight cam: 'H' = 20

Bent cam: 'H' = 20 ± height of bending (see table measure 'D' catalogue page 1F-026).



Surface of the housing:

- chrome plated (standard)
- other surfaces 1F-024
- black powder coated (on request)

Note:

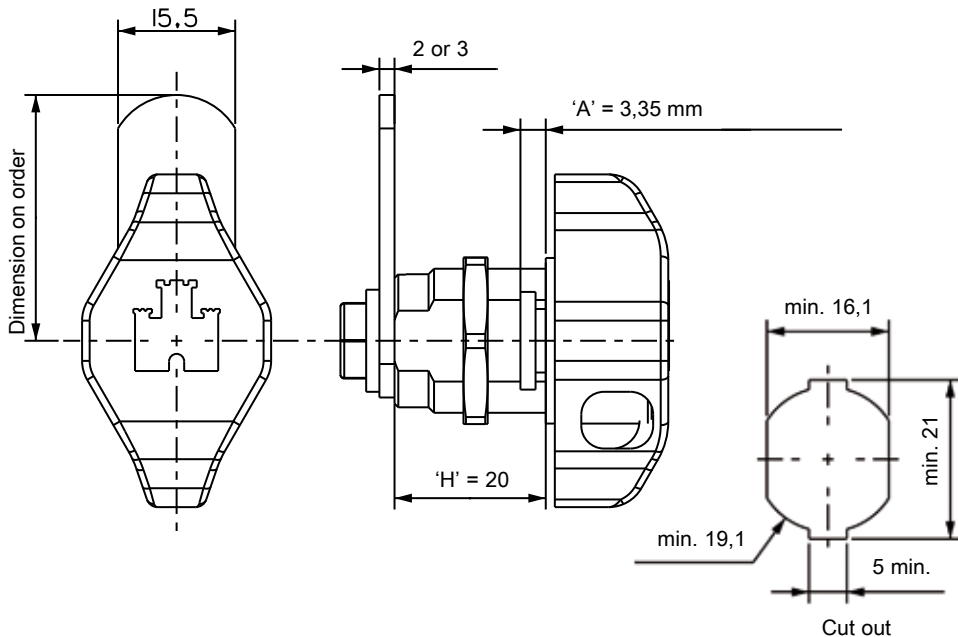
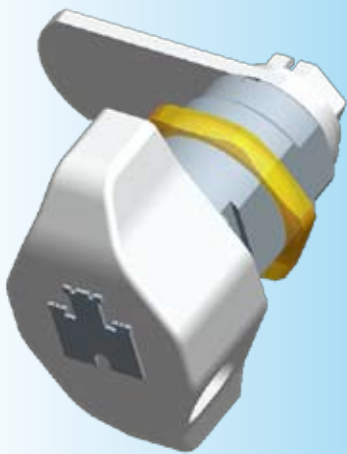
For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated. (see catalogue page 1F-023)

Available options

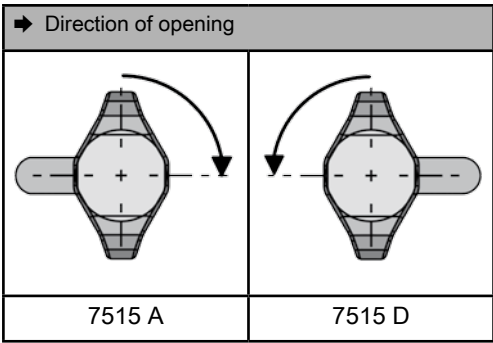
Wing knob	Castle-relief	Cams	Cam fixing	Lock fixing
B008	yes	72 or 73	Screw	Fork spring or nut
B010	no	72 or 73	Screw	Fork spring or nut

Further parts see page

- Cam from 1F-025 up to 1F-028



Straight cam: 'H' = 20
Bended cam: 'H' = 20 ± height of the bend (see table dimension 'D' catalogue page 1F-026).



Surface of the housing:
– chrome plated (standard)
– other surfaces 1F-024
– black powder coated
(on request)

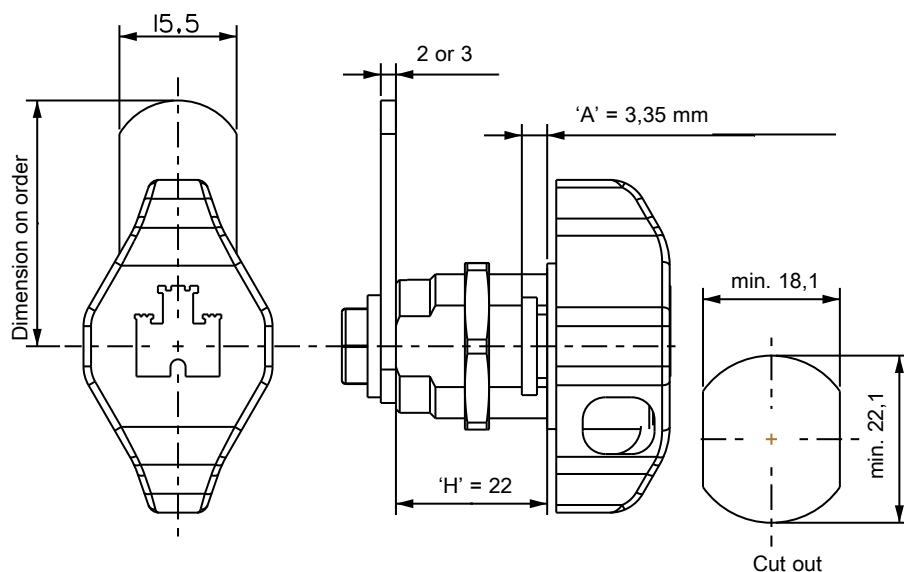
Note:
For fixing of the lock with the fork spring the position of the slot and the dimension 'A' for the door gauge have to be indicated.
(see catalogue page 1F-023)

Further parts see page
– Cam from 1F-025
up to 1F-028

Available options				
Wing knob	Castle-relief	Cams	Cam fixing	Lock fixing
B008	yes	72 or 73	Screw	Fork spring or nut
B010	no	72 or 73	Screw	Fork spring or nut

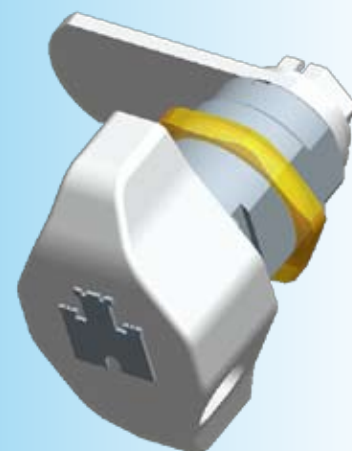
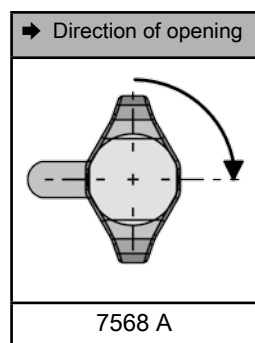
Quarter turn for padlock - Series 7568

PROGRAM 7500



Straight cam: 'H' = 22

Bended cam: 'H' = 22 ± height of the bend (see table dimension 'D' catalogue page 1F-026).



Surface of the housing:

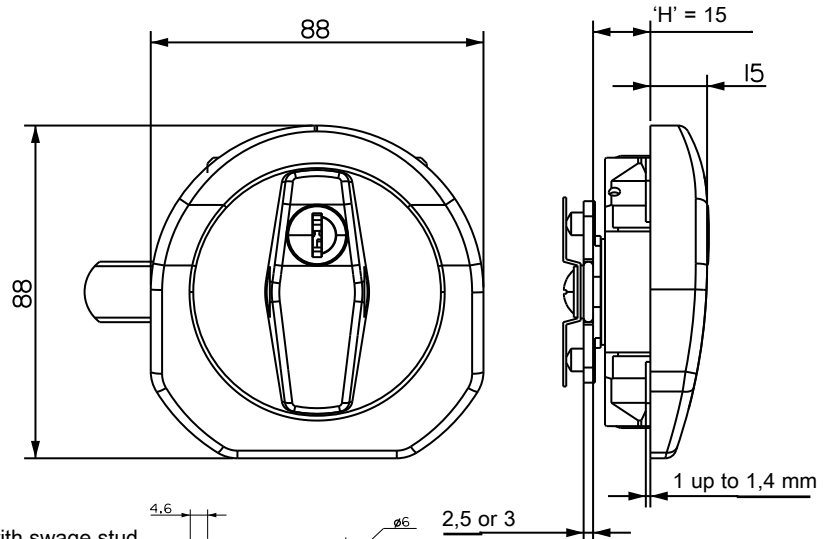
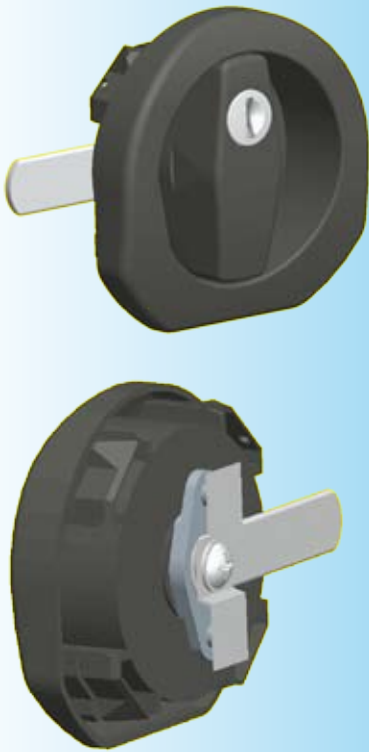
- chrome plated (standard)
- other surfaces 1F-024
- black powder coated (on request)

Available options

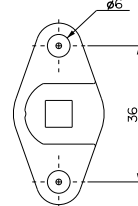
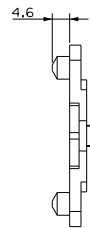
Wing knob	Castle-relief	Cams	Cam fixing	Lock fixing
B008	yes	72 or 73	Screw	Nut
B010	no	72 or 73	Screw	Nut

Further parts see page

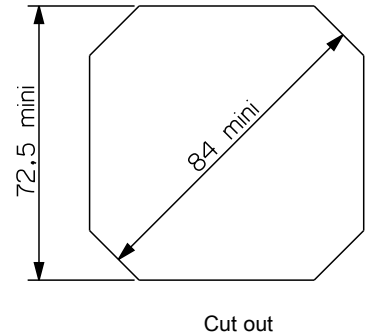
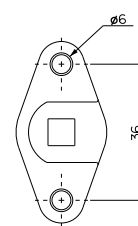
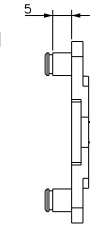
- Cam from 1F-025 up to 1F-028



Cam with swage stud
for rod control
Suitable cams
Part no.: 72
s. catalogue page
1F-025 up to 1F-026



Cam for circlip for rod
control.
Suitable cams
Part no.: 72
s. catalogue page
1F-025 up to 1F-026



Cut out

Flat cam: 'H' = 15

Bended cam: 'H' = 15 ± height of the bend (see table dimension 'D' catalogue page 1F-026).

Possible key profiles:

- Series 9000 (x 500)
- Series F5000 (x 500)
- Series 6000 (x 1000)

Housing:

- PA 6.6 30% GF black

Versions of handles:

- 7683 Zamak dull chrome plated
- 7681 Zamak black powder coated
- 7667 polyamide black

3-PT cam

➔ Direction of opening ○ Key removable at this position			
		7667 C	7667 F

Further parts see page

- Cam from 1F-025 up to 1F-026

Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder		Cam	Cam fixing			
B054B	Stainless steel cap	2 or 3 PT-cam	Screw and washer	9001-9500 or F5001-F5500	with master key	Quick fixing
B146B	Stainless steel cap	2 or 3 PT-cam	Screw and washer	6001-7000	with master key	Quick fixing

Shell-shaped handles - round - Series 7683

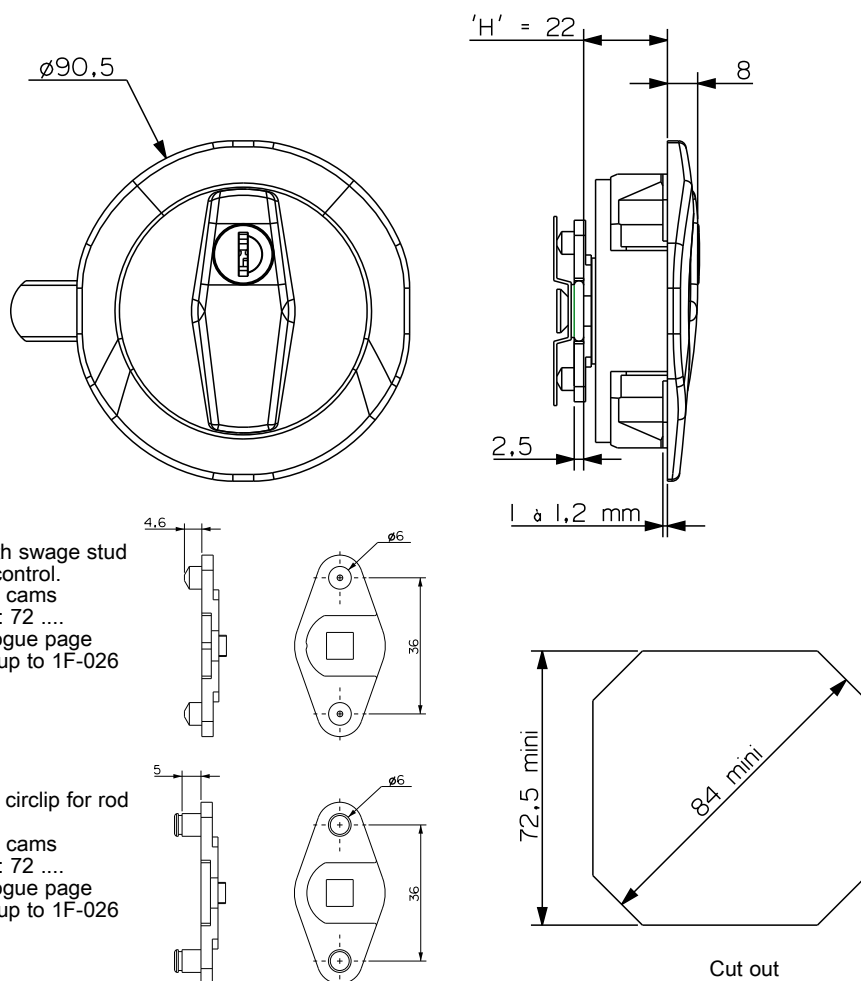
Version of handle 7667, 7681, 7683

PROGRAM 7600

EMKA

Info
1 Quarter turns

Beschlagteile



Flat cam: 'H' = 22
Bended cam: 'H' = 22 ± height of the bend (see table dimension 'D' catalogue page 1F-026).

Direction of opening		Key removable at this position	
		7683 C	7683 F

Possible key profiles:

- Series 9000 (x 500)
- Series F5000 (x 500)
- Series 6000 (x 1000)

Housing

- PA 6.6 30% GF black

Handle:

7683 Zamak dull chrome plated
7681 Zamak black powder coated
7667 polyamide black

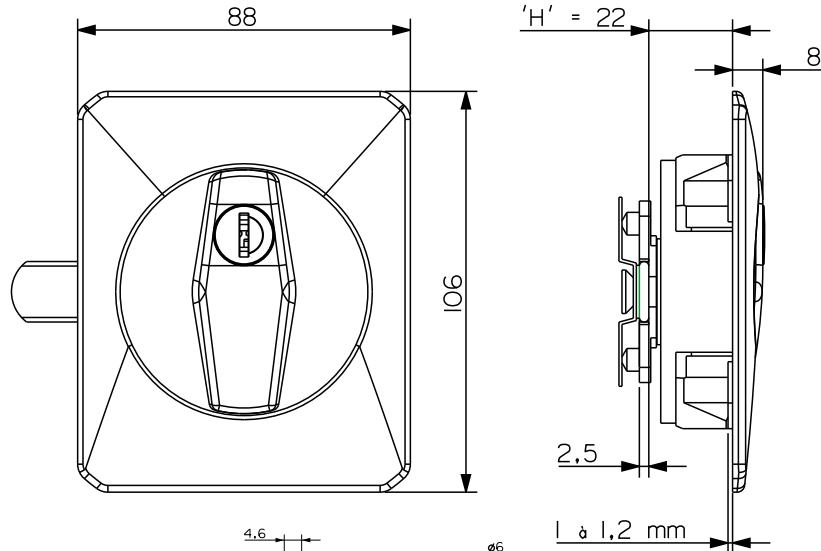
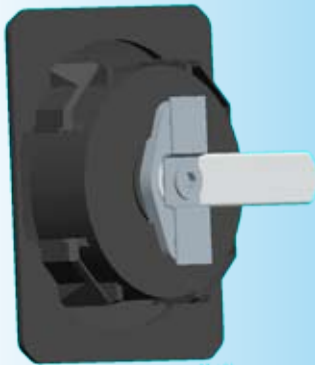
3-PT cam

Available options

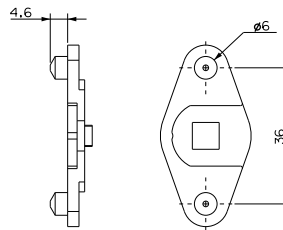
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B054B	Stainless steel cap	2 or 3 PT-cam	Screw and washer	9001-9500 or F5001-F5500	with master key	Quick fixing
B146B	Stainless steel cap	2 or 3 PT-cam	Screw and washer	6001-7000	with master key	Quick fixing

Further parts see page

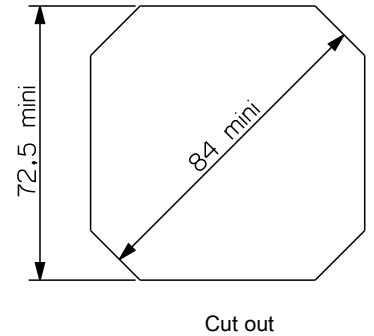
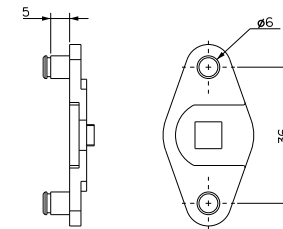
- Cam from 1F-025 up to 1F-026



Cam with swage stud for rod control.
Suitable cams
Part no.: 72
s. catalogue page
1F-025 up to 1F-026



Cam for circlip for rod control.
Suitable cams
Part no.: 72
s. catalogue page
1F-025 up to 1F-026



Flat cam: 'H' = 22

Bended cam: 'H' = 22 ± height of the bend (see table dimension 'D' catalogue page 1F-026).

Possible key profiles:

- Series 9000 (x 500)
- Series F5000 (x 500)
- Series 6000 (x 1000)

Housing:

- PA 6.6 30% GF black

Version of handle:

- 7683 Zamak dull chrome plated
- 7681 Zamak black powder coated
- 7667 polyamide black

3-PT cam

➔ Direction of opening ○ Key removable at this position			
		7683 C	7683 F

Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder		Cam	Cam fixing			
B054B	Stainless steel cap	2 or 3 PT-cam	Screw and washer	9001-9500 or F5001-F5500	with master key	Quick fixing
B146B	Stainless steel cap	2 or 3 PT-cam	Screw and washer	6001-7000	with master key	Quick fixing

Further parts see page

- Cam from 1F-025 up to 1F-026

Shell-shaped handles - quadratic - Series 7683

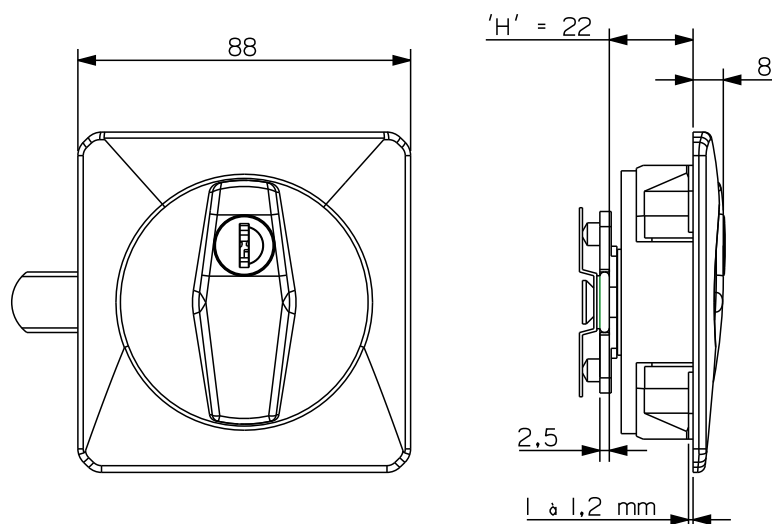
Version of handle 7667, 7681, 7683

PROGRAM 7600

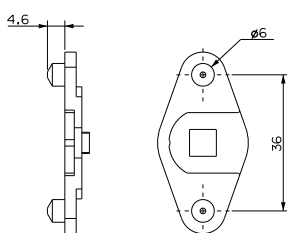
EMKA

Info
1 Quarter turns

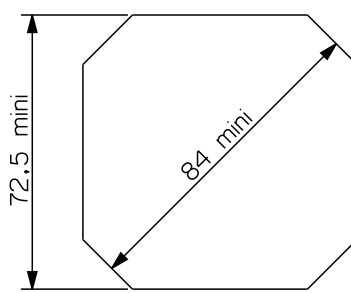
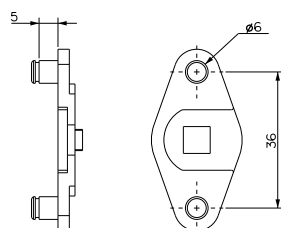
Beschlagteile



Cam with swage stud for rod control.
Suitable cams
Part no.: 72
s. catalogue page 1F-025 up to 1F-026



Cam for circlip for rod control.
Suitable cams
Part no.: 72
s. catalogue page 1F-025 up to 1F-026



Cut out

Flat cam: 'H' = 22

Bended cam: 'H' = 22 ± height of the bend (see table dimension 'D' catalogue page 1F-026).

Direction of opening		Key removable at this position	
		7683 C	7683 F

Possible key profiles:

- Series 9000 (x 500)
- Series F5000 (x 500)
- Series 6000 (x 1000)

Housing:

- PA 6.6 30% GF black

Version of handle:

- 7683 Zamak dull chrome plated
- 7681 Zamak black powder coated
- 7667 polyamide black

3-PT cam

Available options

Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing				
B054B	Stainless steel cap	2 or 3 PT-cam	Screw and washer	9001-9500 or F5001-F5500	with master key	Quick fixing
B146B	Stainless steel cap	2 or 3 PT-cam	Screw and washer	6001-7000	with master key	Quick fixing

Further parts see page

- Cam from 1F-025 up to 1F-026

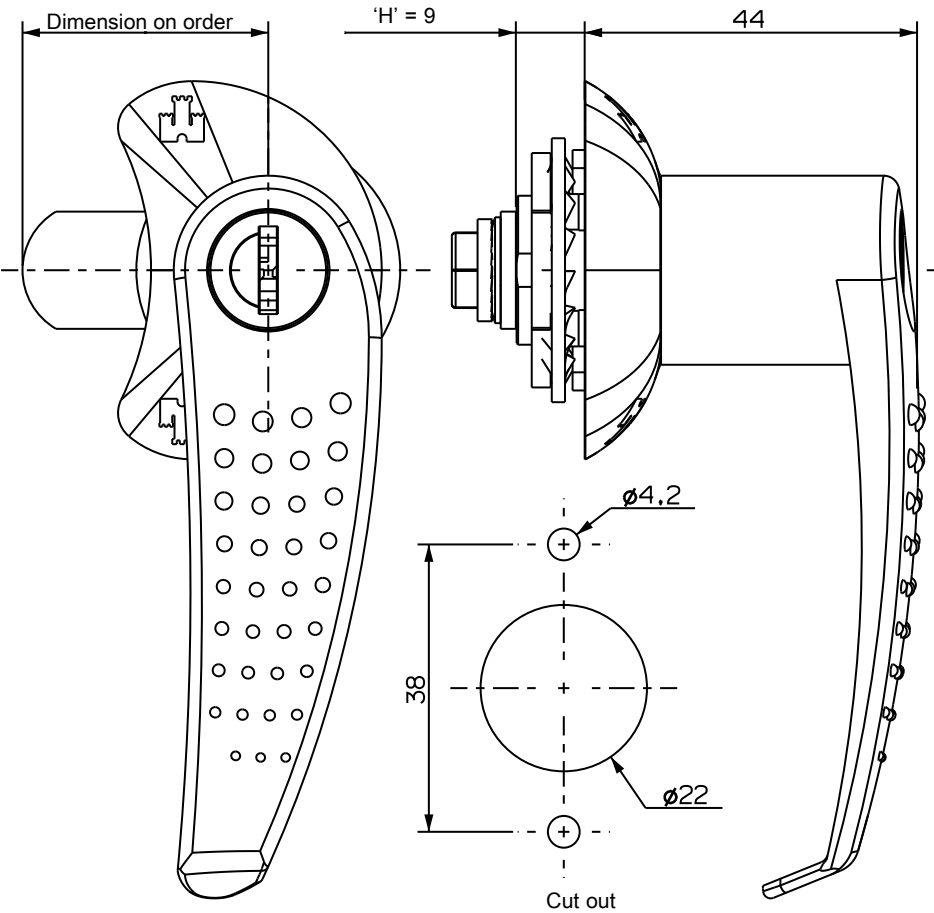
1F-350



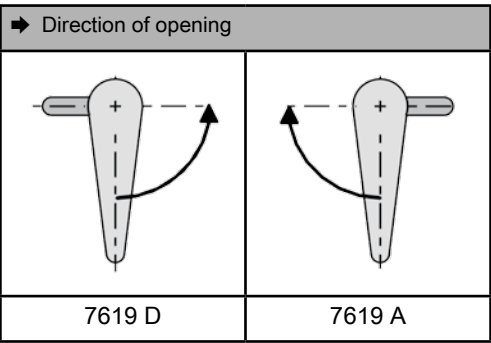
- Possible key profiles:**
- Series 9000 (x 500)
 - Series F5000 (x 500)
 - Series 43000 (x 2000)
 - Series 45000 (x 2000)

Surface:
- chrome plated

Further parts see page
- Cam from 1F-025
up to 1F-028

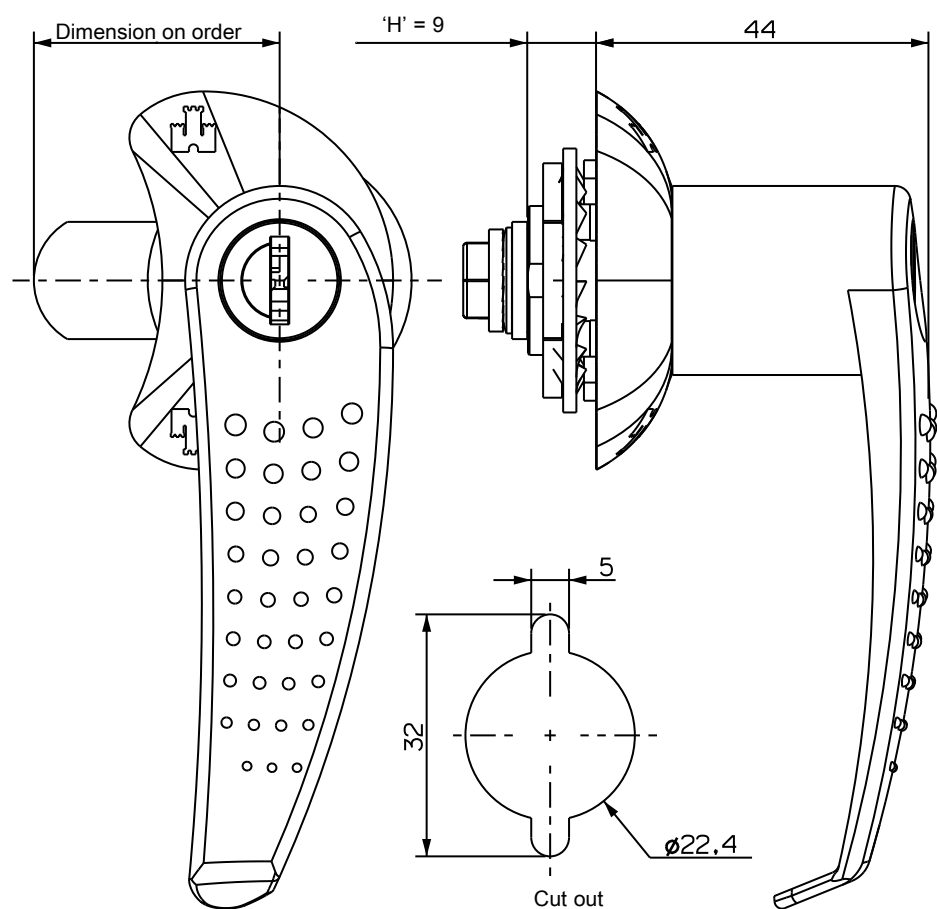


Straight cam: 'H' = 9
Bended cam: 'H' = 9 ± height of the bend (see table dimension 'D' catalogue page 1F-026).



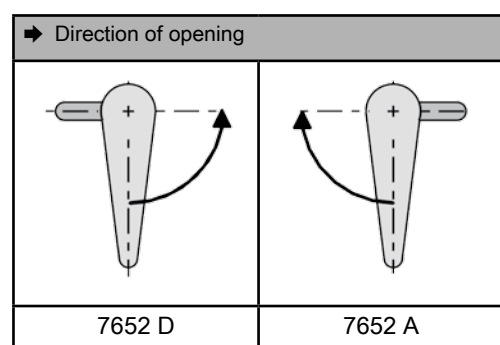
Available options

Available options						
Housing, cylinder and cam				possible closings		Lock fixing
Locking cylinder		Cam	Cam fixing			
B062B	Stainless steel cap	2 or 3	Screw	43001-45000 or 45001-47000	with master key	Nut
B075B	Stainless steel cap	2 or 3	Screw	9001-9500 or F5001-F5500	with master key	Nut



Straight cam: 'H' = 9

Bended cam: 'H' = 9 ± height of the bend (see table dimension 'D' catalogue page 1F-026).



Possible key profiles:

- Series 9000 (x 500)
- Series F5000 (x 500)
- Series 43000 (x 2000)
- Series 45000 (x 2000)

Surface:

- chrome plated

Available options

Housing, cylinder and cam			possible closings		Lock fixing
Locking cylinder	Cam	Cam fixing			
B062B	Stainless steel cap	72 or 73	Screw	43001-45000 or 45001-47000 with master key	Nut
B075B	Stainless steel cap	72 or 73	Screw	9001-9500 or F5001-F5500 with master key	Nut

Further parts see page

- Cam from 1F-025 up to 1F-028

Code locks **PROGRAM 7700**

7700-1147 Codierschloss

In the open state a new code can be set.
After closing the digits have to be shifted manually.

Cam type 72,
exclusively mountable for a panel gauge of 0,8 mm up to 1,2 mm,
fastening trough fork spring,
right and left closing.



7700-1157 Codierschloss

In the open state a new code can be set.
After closing, the digits are automatically jumping at 0 0 0.

Cam type 72,
the fastening is taking place with a back plate on sheet metal up to max. 8 mm,
the fastening is taking place with a back plate on wood up to max. 20 mm,
screw fixing (not included in the delivery),
right and left closing.



7700-1153 CCC Codierschloss mit Hauptschlüsselsystem

In the open state a new code can be set.
After closing the digits have to be shifted manually.
By insertion of the master key the actual code will be displayed.

Cam type 72,
the fastening is taking place with a back plate on sheet metal up to max. 8 mm,
the fastening is taking place with a back plate on wood up to max. 20 mm,
screw fixing (not included in the delivery),
right and left closing.



7700-1153 CCV Codierschloss mit Hauptschlüsselsystem

In the open state a new code can be set.
After closing, the digits are automatically jumping at 0 0 0.
By insertion of the master key the lock will be opened.

Cam type 72,
the fastening is taking place with a back plate on sheet metal up to max. 8 mm,
the fastening is taking place with a back plate on wood up to max. 20 mm,
screw fixing (not included in the delivery),
right and left closing.



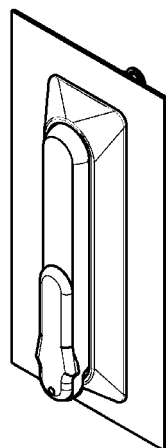
7700-SCS Codierschloss

Preset code. The code will be set through right and left rotation.
1.000 different closings are possible.

different cams are deliverable,
nut or fork spring fixing on sheet metal or wood
possible for gauge of material of 0,8 up to max. 20 mm

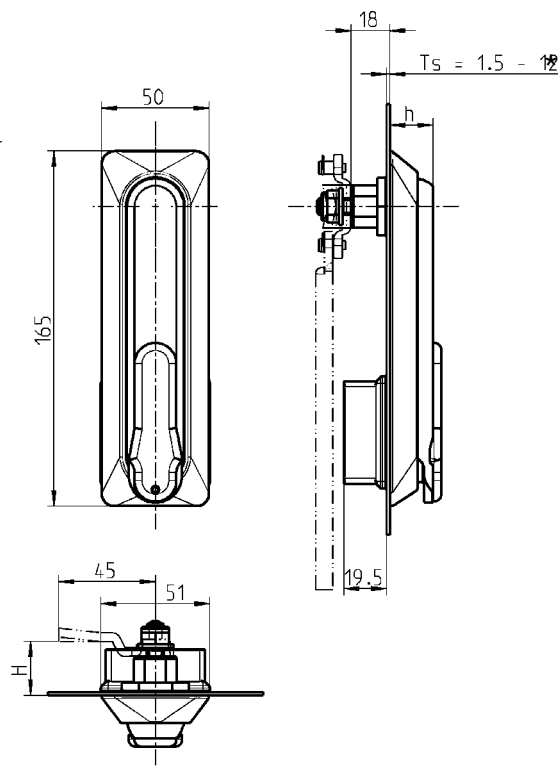
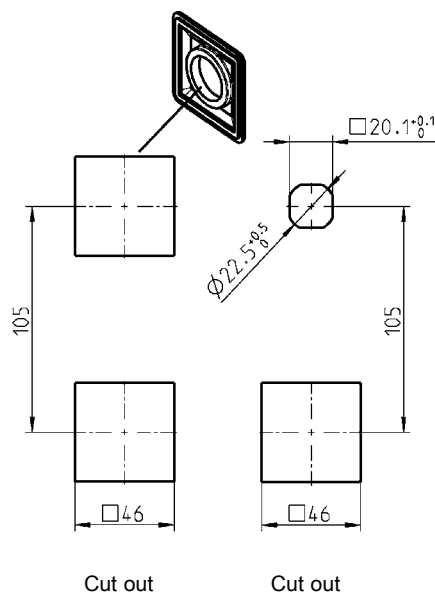


Swinghandle PROGRAM 1107



Version A

Version B

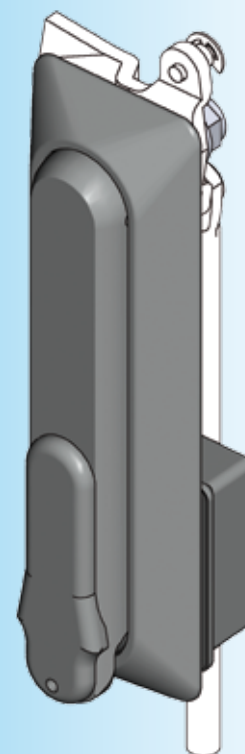


Attention:

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

Note:

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



Swinghandle with cylinder cover polyamide GF VO black, shaft Ms, fixing material m.s. zinc plated, with seal

for profile half cylinder 40 (h = 20)

1107-U249-G

for profile half cylinder 45 (h = 25)

1107-U250-G

Adapter polyamide GF black required for cut out version A

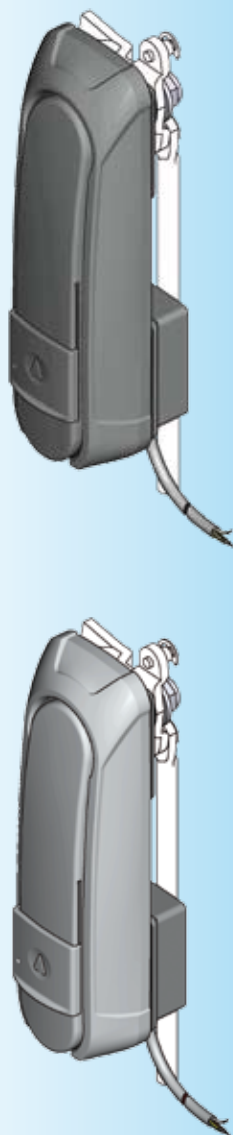
1107-53-01AA

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

1107-U170

Further parts see page

– Cam 3YC-120
– 3-point cam 3YC-180
– Profile half cylinder 3XB-120



Mechanical version:

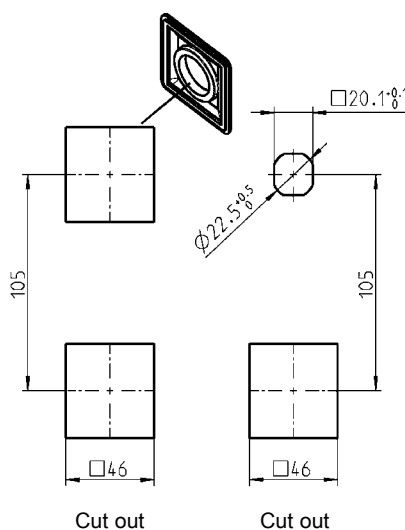
Swinghandle for profile half cylinder 40 and 45.
Sealable.

Electromagnetic version (ELM):

This handle is suitable for indoor and outdoor applications from -30°C to +80°C.
It is released by applying a 48 V DC signal. Max. release time is 1 minute. On request the handle can be equipped with a LED that will be switched when applying the DC signal. The remote monitoring of the handle status is performed through the built-in reed contact. Additionally the handle can be opened in case of emergency via a mechanical opening.

Version A

Version B

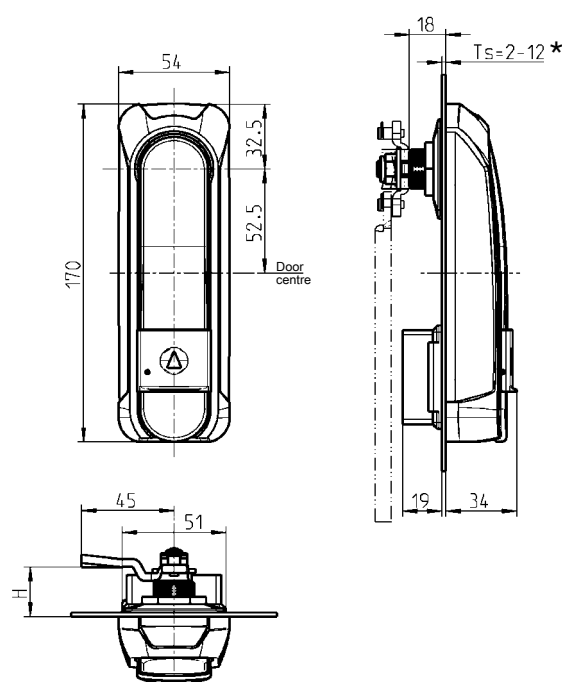


Attention:

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

Note:

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



* Ts > 6-12 on request

Further parts see page

– Cam	3YC-120
– 3-point cam	3YC-180
– Profile half cylinder	3XB-120

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

for 40 mm profile half cylinder with additional position of the thumb 30° without ELM	1317-U102
for 45 mm profile half cylinder without ELM	1317-U103
for type KABA 1514 without ELM	1317-U131
ELM without LED and without profile half cylinder	1317-U151

Swinghandle zinc die grey powder coated (RAL 7038) and anti-graffiti coated, cap zinc die, black powder coated, shaft brass, fixing material m.s. zinc pl., with seal.

for 40 mm profile half cylinder with additional position of the thumb 30° without ELM	1317-U102-HJ
for 45 mm profile half cylinder without ELM	1317-U103-HJ
for type KABA 1514 without ELM	1317-U131-HJ
ELM without LED and without profile half cylinder	1317-U151-HJ

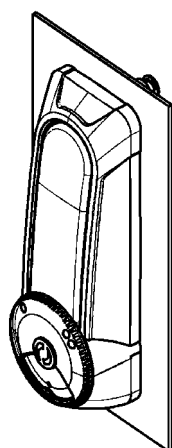
Adapter polyamide GF black required for cut out version A

1107-53-01AA

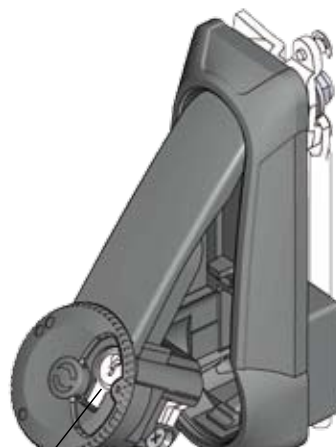
Double cylinder swinghandle with RC2

PROGRAM 1317

Double cylinder swinghandle for profile half cylinder 40 and 45.

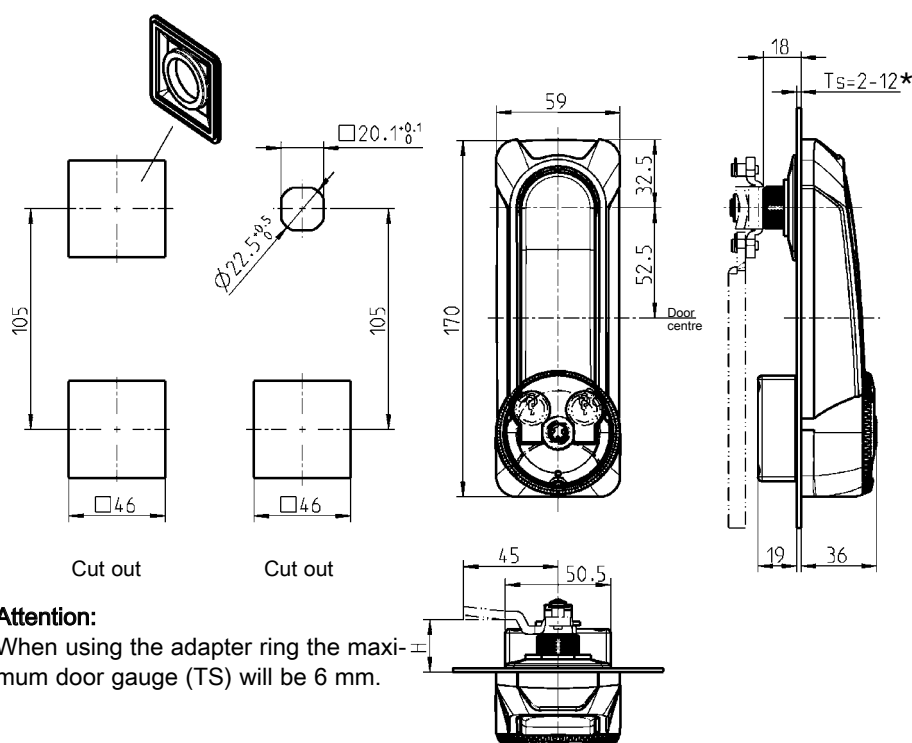


Version A



Version B

**



Attention:

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

Note:

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

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

for profile half cylinder length 40 and 45, key removable in open condition

1317-U201

for profile half cylinder length 40 and 45, key not removable in Open condition

1317-U202

Swinghandle zinc die grey powder coated (RAL 7038) and anti-graffiti coated, cap zinc die, black powder coated, shaft brass, fixing material m.s. zinc pl., with seal.

for profile half cylinder length 40 and 45, key removable in open condition

1317-U201-HJ

for profile half cylinder length 40 and 45, key not removable in Open condition

1317-U202-HJ

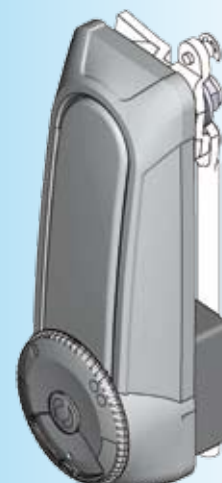
Adapter polyamide GF black required for cut out version A

1107-53-01AA

See general catalog 2011 for page references you can't find in the ECHO (e.g. 1B-105).

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Beschlagteile



Note:

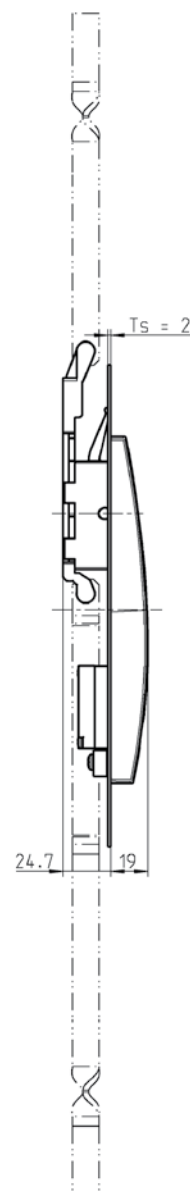
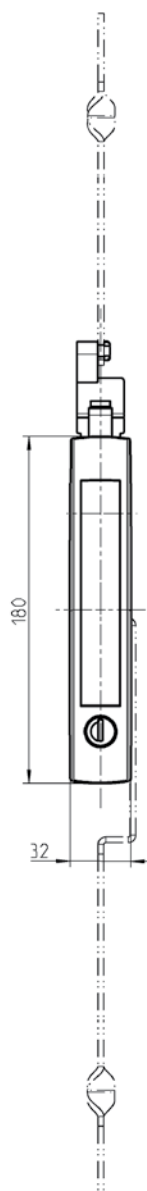
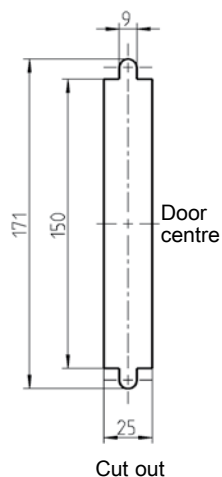
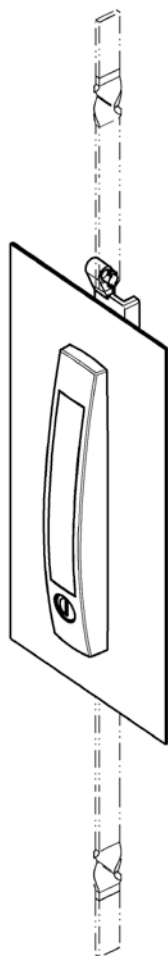
Separate authorisation of access required, as the handle is released by one profile half cylinder, only.

* Ts > 6-12 on request

** not included

Further parts see page

– Cam 3YC-120
– 3-point cam 3YC-180
– Profile half cylinder 3XB-220



Stroke of rod one direction

Stroke 18 mm

Further parts see page

outside Page 68; 3ZA-560

Lifthandle polyamide GF black, rod control zinc die, screw m.s. zinc plated, round cylinder with stainless steel cap and dust protection.

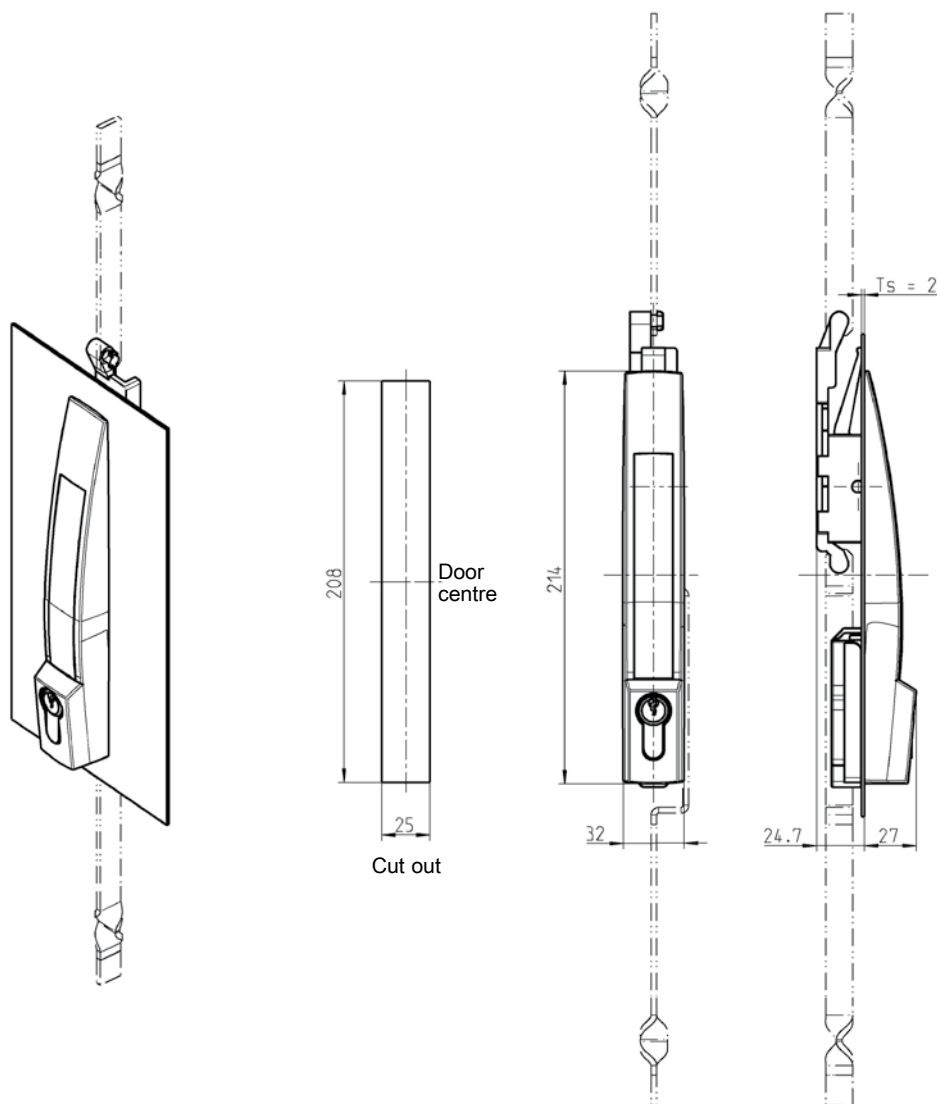
Each round cylinder has one silver steel key with polyamide grip GF black.

keyed EK 333	1190-U206
keyed different	1190-U206-V

Inserts: Chrome plated zinc alloy

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 8 mm female with pin	1190-U218
Male hexagon 11 mm	1190-U219

Lift-handle PROGRAM 1190



Stroke of rod one direction

Stroke 18 mm

Further parts see page



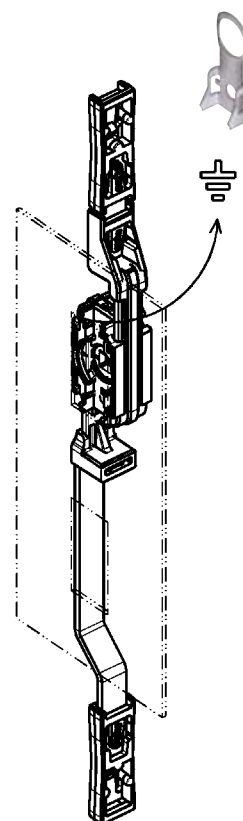
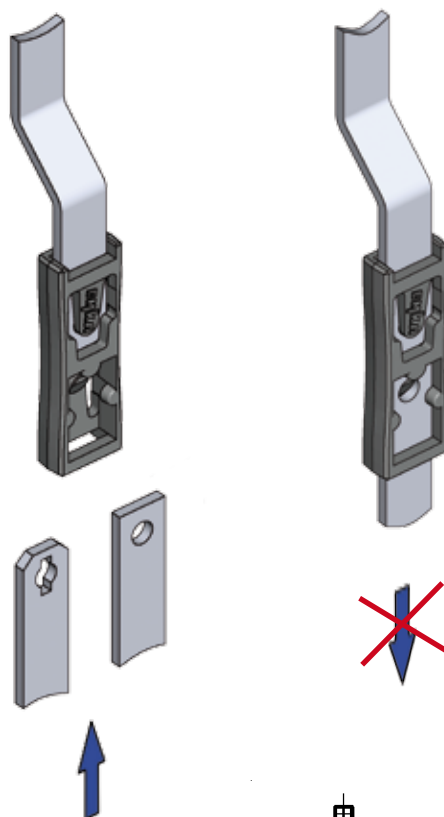
outside Page 65; 3ZA-560
– Profile half cylinder 3XB-320

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

1190-U306



Quick assembly of the rod



Further parts see page

– Rods

outside 3ZA-120

inside 3ZB-120
(only flat rods possible)

3ZB-220

– Earthing device 3YA-720

– Cam 3YA-820

Program 1125

– Escutcheon long 3B-120

3B-180

– Swinghandle 3B-220

3B-420

Program 1150

– Swinghandle 1150 3C-160

3C-720

up to 3C-750

– Swinghandle 1153 3C-320

Program 1225

– Escutcheon long 3G-120

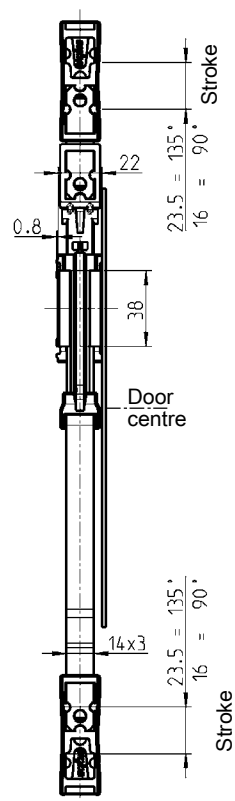
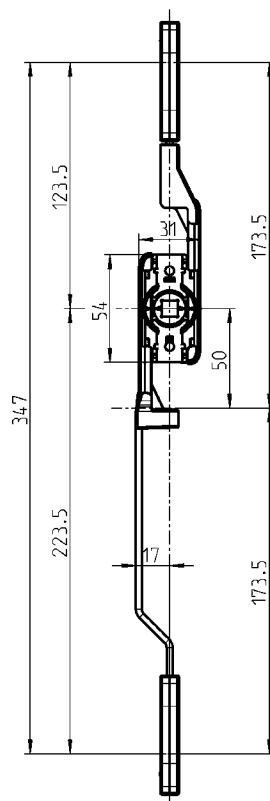
3G-180

– Swinghandle 3G-220

3G-420

Program 3000

– Swinghandle 3N-120



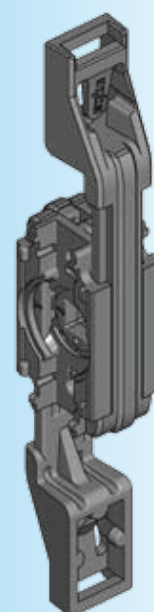
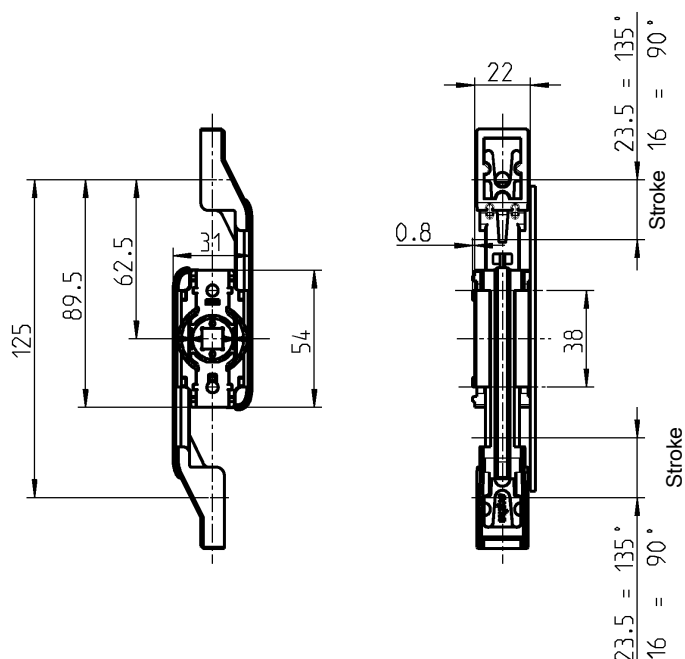
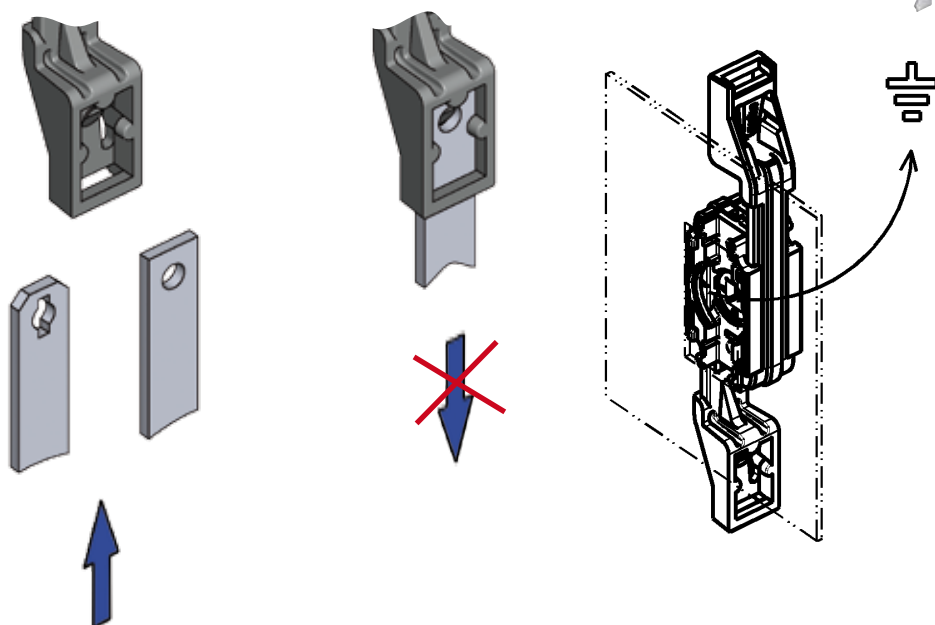
Rod control made of high performance plastics

1121-U26-K

Rod control

PROGRAM 1125, 1225

Quick assembly of the rod



Further parts see page

- Rods
- inside 3ZB-120
(only flat rods possible)
- Earthing device 3ZB-220
- Cam 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 made of high performance plastics

1121-U1-K

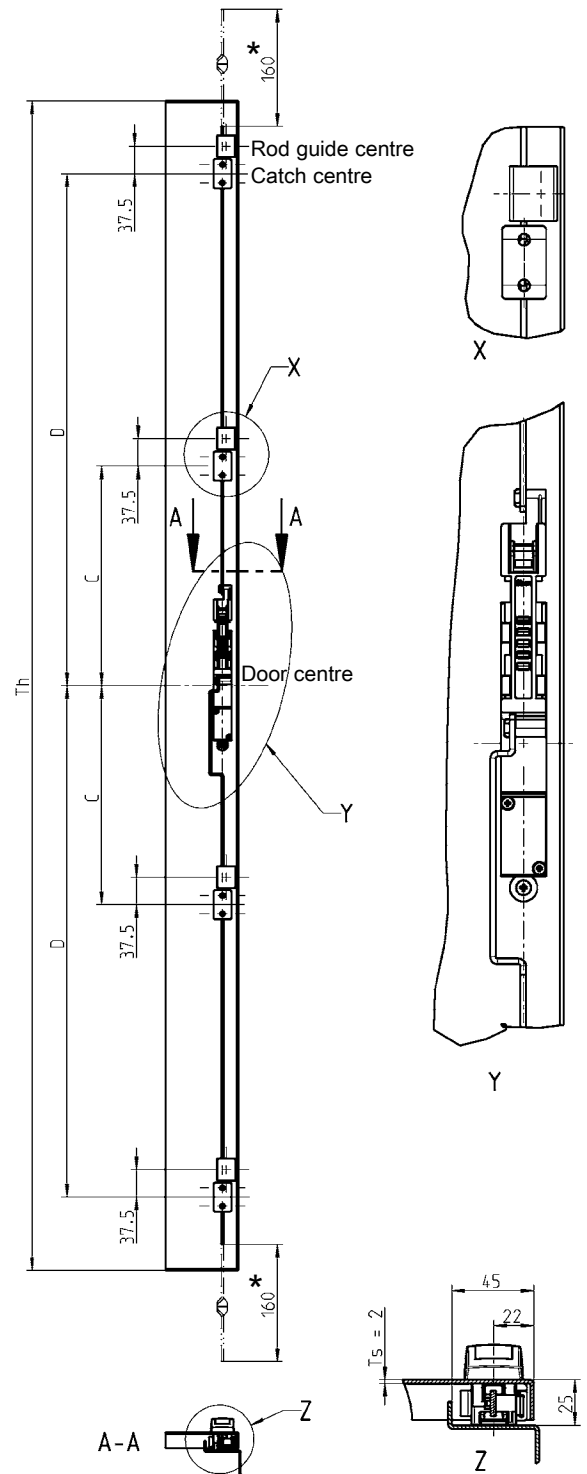
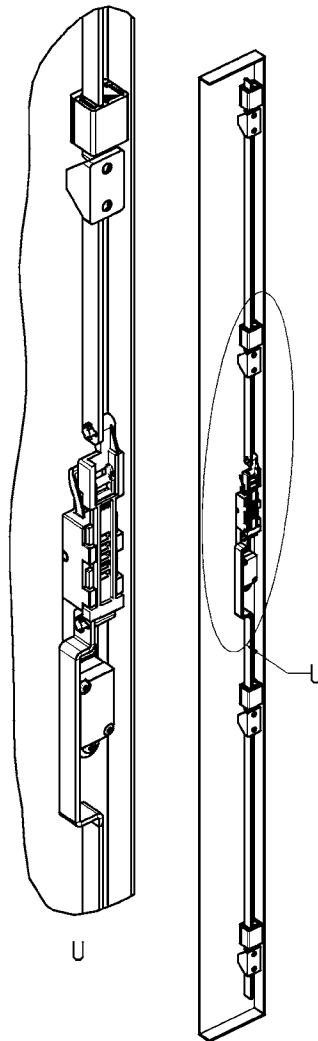
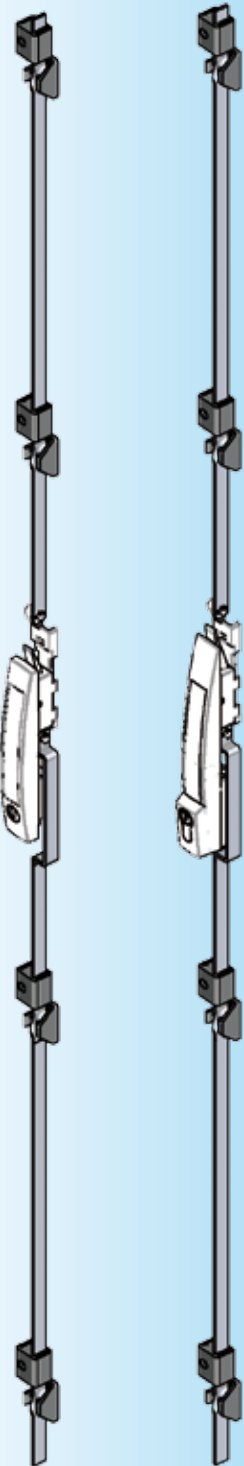
See general catalog 2011 for page references you can't find in the ECHO (e.g. 1B-105).

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3YA-115 03/12

67

Twisted rod
PROGRAM 1190



Door from inside Th = 1600-1900
illustrated as example

Bending area

* Flat rod has to be shortened

Further parts see page

- Catches 3ZA-1220
 - Rod guide 3ZC-120
 - 3ZC-140
- Page 69

Program 1190

- Swinghandle Page 64; 3F-320
- Page 65; 3F-330

Door height Th	Locking points (door centre)		Part No. Rods Upper rod		Part no. Rods Lower rod	
	Dim. C	Dim. D	m.s. zinc plated	alum.	m.s. zinc plated	alum.
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

See general catalog 2011 for page references you can't find in the ECHO (e.g. 1B-105).

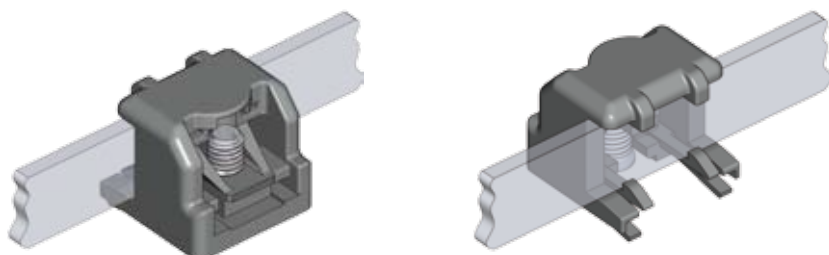
© EMKA Beschlagteile GmbH & Co. KG 2012

Rod guide clip-in type for flat rods 3x14

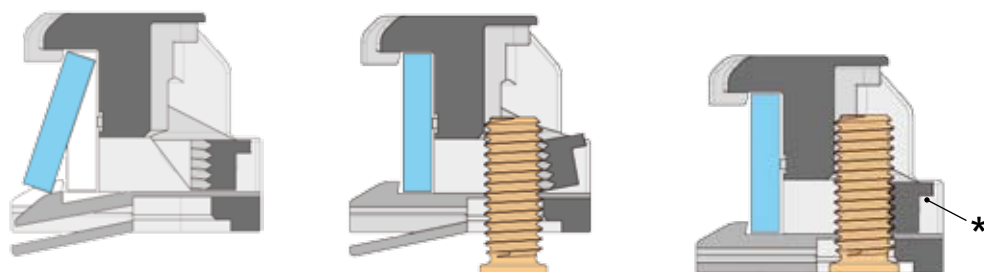
PROGRAM 1107 - 3000

Pull-out force: $F_{min} = > 1000 \text{ N}$ (calculated)
 Application force: Typical factor F = very low (Basic Prototype)

These values refer to threads with degreased surface.



Flat rod and weld stud pictured transparent

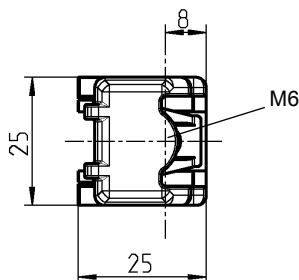
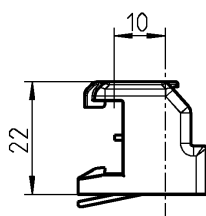
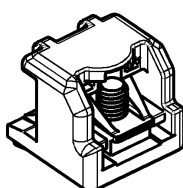


1. Assembling of flat rod into rod guide

2. Rod guide can be pre-assembled on rod

3. Rod guide pre-assembled

* Strap has to be elevated at disassembly

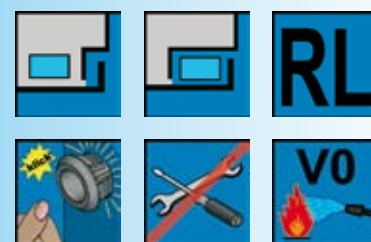


Rod guide clip-in type polyamide VO black for weld stud M6x16 or M6x20

1121-135

See general catalog 2011 for page references you can't find in the ECHO (e.g. 1B-105).

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Further parts see page

Program 1107
 – Rods 3ZB-320

Program 1125
 – Rods 3ZA-120
 up to 3ZA-340
 3ZB-120
 3ZB-220
 3ZB-420
 3ZB-440

Program 1150
 – Rods 3ZA-120
 up to 3ZA-340
 3ZB-120
 3ZB-220
 3ZB-520
 3ZB-540

Program 1160
 – Rods 3ZA-120
 up to 3ZA-420
 3ZB-120
 3ZB-220

Program 1180
 – Rods 3ZA-120
 up to 3ZA-340
 3ZA-520
 3ZB-120
 3ZB-220
 3ZB-620

Program 1190
 – Rods 3ZA-120
 up to 3ZA-340

Program 1225
 – Rods 3ZA-120
 up to 3ZA-340
 3ZB-120
 3ZB-220
 3ZB-420
 3ZB-720

Program 2100
 – Rods 3ZA-120
 up to 3ZA-340
 3ZB-120
 3ZB-220
 3ZB-820

Program 2300
 – Rods 3ZA-620
 3ZB-120
 3ZB-220

Program 2400
 – Rods 3ZA-720
 3ZA-820

Program 2600
 – Rods 3ZA-920

Program 3000
 – Rods 3ZA-120
 up to 3ZA-340
 3ZB-120
 3ZB-220

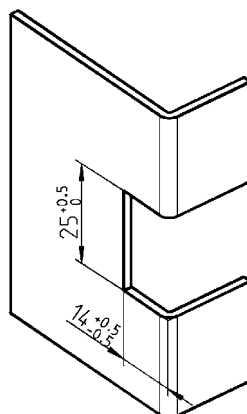
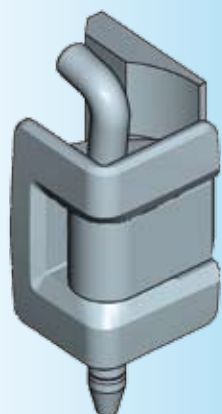
180° hinge PROGRAM 1110

Beschlagteile

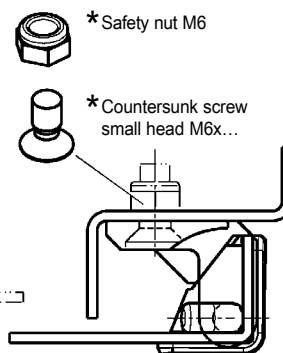
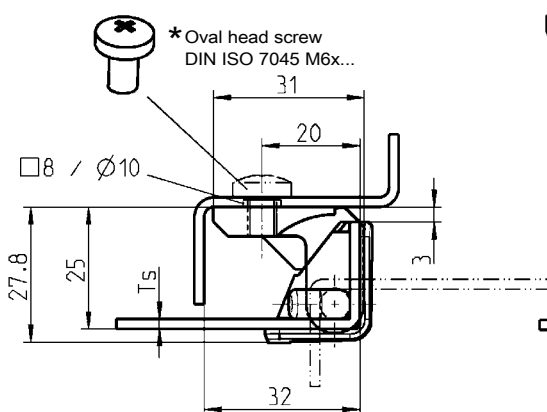
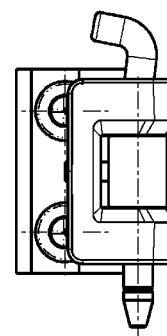
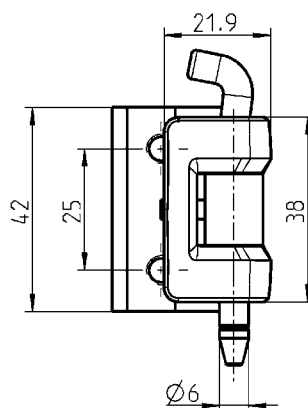
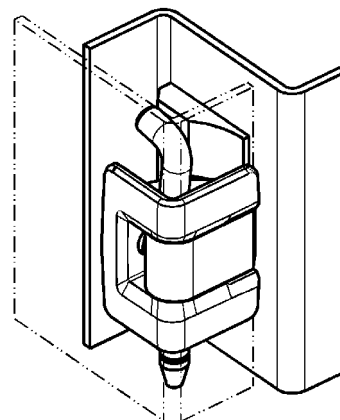


180° hinge for single cabinets
for 25 mm door return

STAINLESS STEEL



Cut out



* Oval head screw
DIN ISO 7045 M6x...

* Safety nut M6

* Countersunk screw
small head M6x...

* not included

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

Further parts see page
– 2D-nut 12E-120

180° hinge AISI 316, pin AISI 303

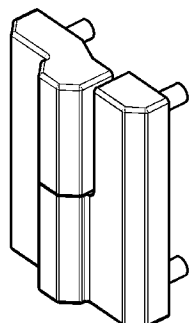
	Ts 0.8 - 1.0	Ts 1.5 - 2.0
Locking screw M6	1110-U134	1110-U135
Countersunk screw M6 (2D-nut possible)	1110-U136	1110-U137

See general catalog 2011 for page references you can't find in the ECHO (e.g. 1B-105).

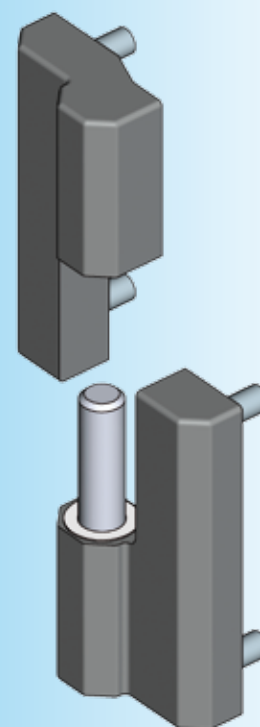
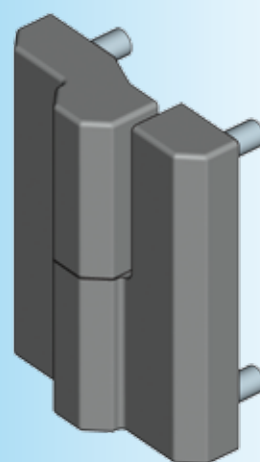
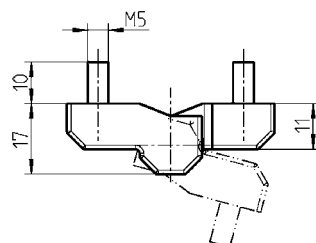
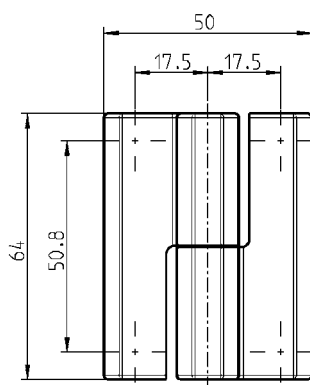
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160° screw-on hinge

PROGRAM 1056



Right-hand version shown
Left-hand version is a mirror image



Screw-on hinge zinc die black powder coated or chrome plated, washer teflon white, pin m.s. zinc plated

	black powder coated	chrome plated
LH version	1056-U62	1056-U64
RH version	1056-U63	1056-U65

See general catalog 2011 for page references you can't find in the ECHO (e.g. 1B-105).

Notes:

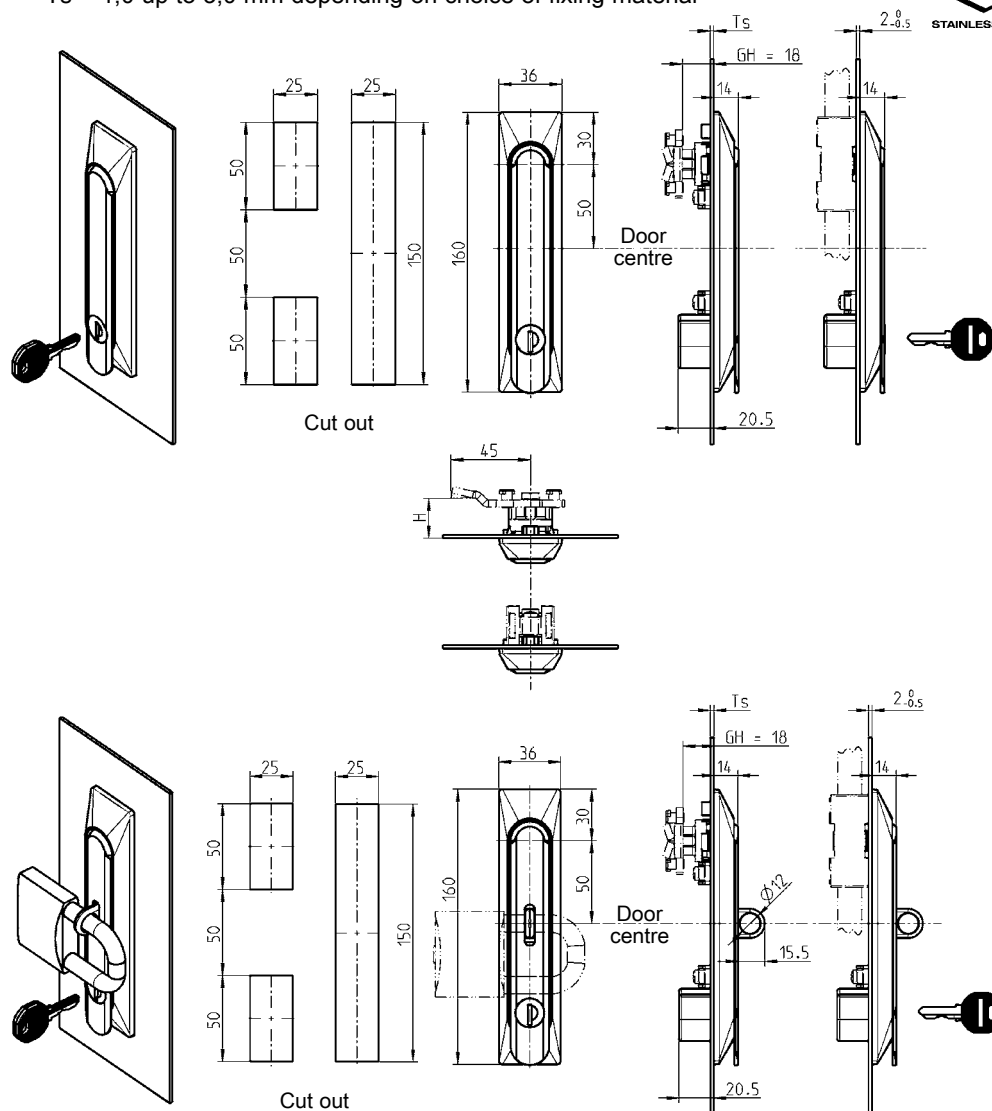
Stainless steel swinghandle* 1150 with universal escutcheon

PROGRAM 1150

Attention:

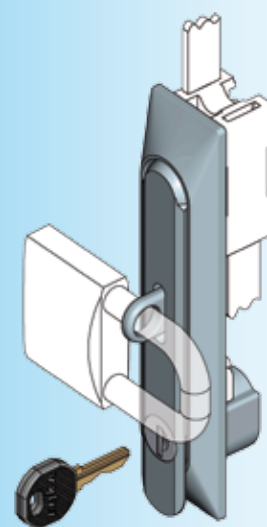
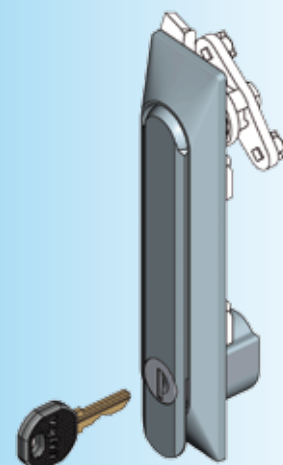
Please order fixing material separately.

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



Info

Beschlagteile



Swinghandle and escutcheon AISI 316, shaft AISI 303, with seal, round cylinder AISI 316 with stainless steel cap and shutter
Each round cylinder has one silver steel key with polyamide grip GF black.

keyed EK 333	1150-U33-22PH
keyed EK 333 and for padlock	1150-U33-13PH
keyed different	1150-U34-22PH
Insert AISI 316	
Square 6	on request
Square 7	1150-U37-22PH
Square 8	1150-U38-22PH
Triangular 6,5 CNOMO	on request
Triangular 7	1150-U40-22PH
Triangular 8	1150-U41-22PH
Double bit 3	1150-U42-22PH
Double bit 5	1150-U43-22PH
Daimler Benz	on request
Slot 2x4	1150-U35-22PH
Hexagon 8 mm female with pin	on request
Male hexagon 11 mm	on request

* can be assembled in cut out of 1125/1225

Further parts see page

– Fixing material	8A-634
– Cam (GH = 18)	3YC-120
– Rod control	
for cam	8A-790
– Rod control	8A-740
– Key	12B-120
– Spare key	12B-140

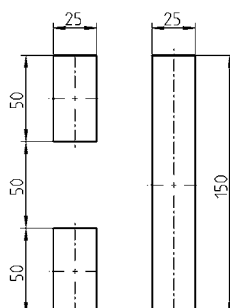
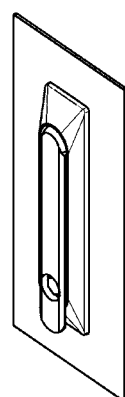
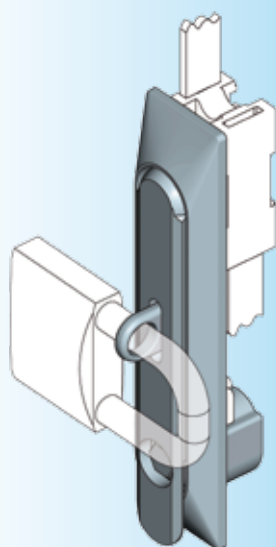
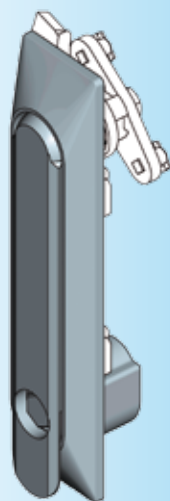
On request:

- Key retained in the unlocked position
- Other inserts

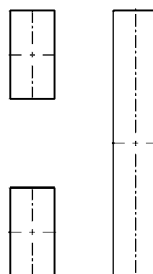
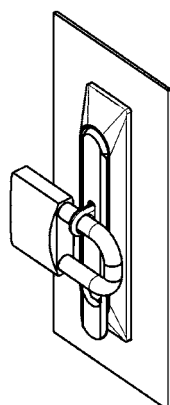
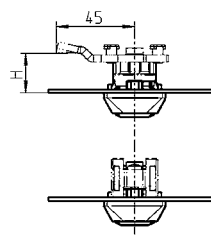
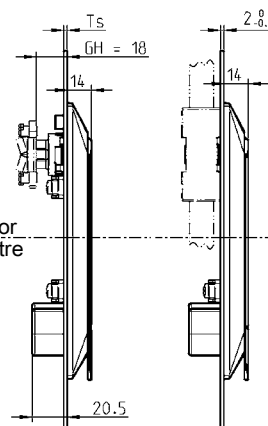
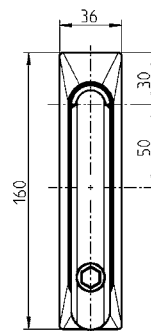
Attention:

Please order fixing material separately.

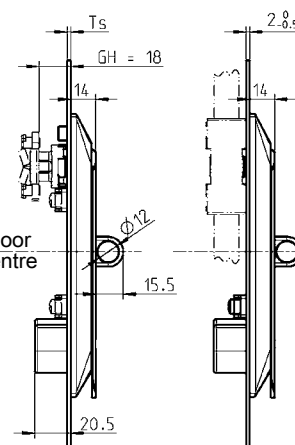
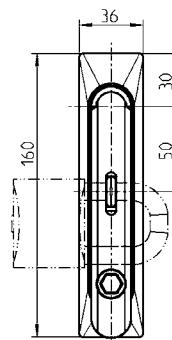
Ts = 1,0 up to 3,0 mm depending on choice of fixing material



Cut out



Cut out



- * can be assembled in cut out of 1125/1225

Further parts see page

- Fixing material 8A-834
- Cam (GH = 18) 3YC-120
- Rod control
for cam 8A-790
- Rod control 8A-740
- Key 12B-120
- Spare key 12B-140

On request:

- Other inserts

Swinghandle and escutcheon AISI 316, shaft AISI 303, with seal

Insert AISI 316	Push to lock	Push to lock for padlock
Square 6	on request	on request
Square 7	on request	on request
Square 8	on request	on request
Triangular 6,5 CNOMO	on request	on request
Triangular 7	on request	on request
Triangular 8	on request	on request
Double bit 3	on request	on request
Double bit 5	on request	on request
Daimler Benz	on request	on request
Slot 2x4	on request	on request
Hexagon 8 mm female with pin	on request	on request
Male hexagon 11 mm	1150-U46-30PH	1150-U46-31PH

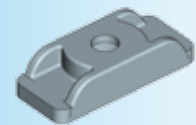
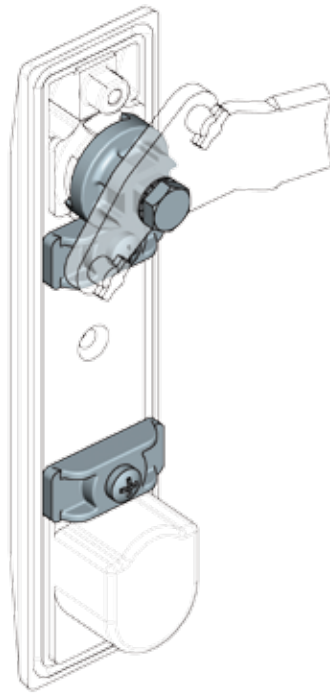
See general catalog 2011 for page references you can't find in the ECHO (e.g. 1B-105).

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Fixing material for stainless steel swinghandle with universal escutcheon

PROGRAM 1150

Fixing material for stainless steel swinghandle with cam

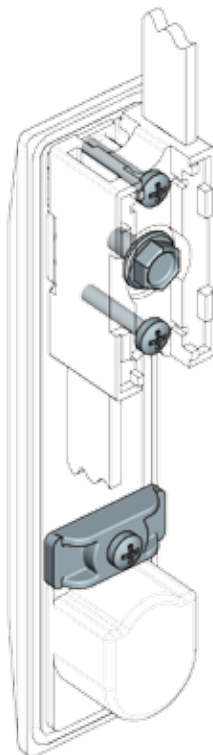


Bridge and adapter AISI 316, stainless steel fixing material

Ts = 2,0 - 0,5

1150-U53-PH

Fixing material for stainless steel swinghandle with rod control



Bridge AISI 316, stainless steel fixing material

Ts = 1,0 to 3,0

1150-U52-PH

See general catalog 2011 for page references you can't find in the ECHO (e.g. 1B-105).

Further parts see page

- Stainless steel swinghandle with universal escutcheon 8A-630 8A-632
- Cam (GH = 18) 3YC-120
- Rod control for cam 8A-790
- Rod control 8A-740

On request:

- Other door thicknesses

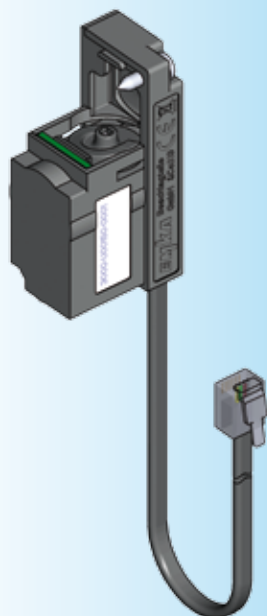
8A-634



Locking System Unit with Reed Contact Switch

This unit is intended for an electronic opening of spring-loaded handle systems. The unit indicates the current status of the handle (open/closed).

This unit can be installed in the following swing handle programs:



Program 1150



Program 1180



Program 2100

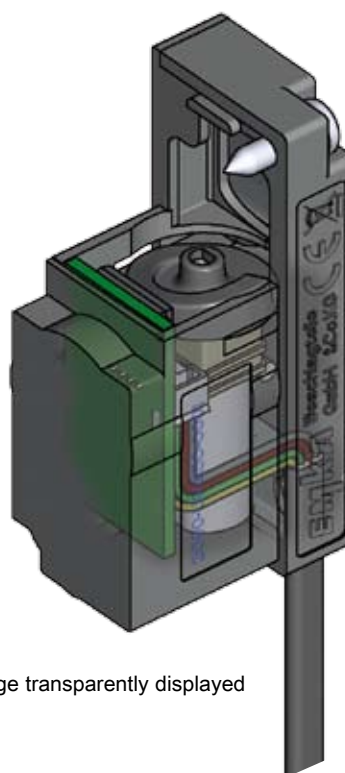


Image transparently displayed

Further parts see page

Program 1150

– Swinghandle 1151 3C-420
3C-440

Program 1180

– Swinghandle 3E-120
up to 3E-520

Program 2100

– Swinghandle 3H-320

Program 2400

– Swinghandle 3K-220

Locking sets with reed contact PC+ABS-FR(40) black;
cam POM black; geared motor; electronic; RJ cable 4 m;
fixing material m.s. zinc plated

Without reed contact

3000-U150

With reed contact

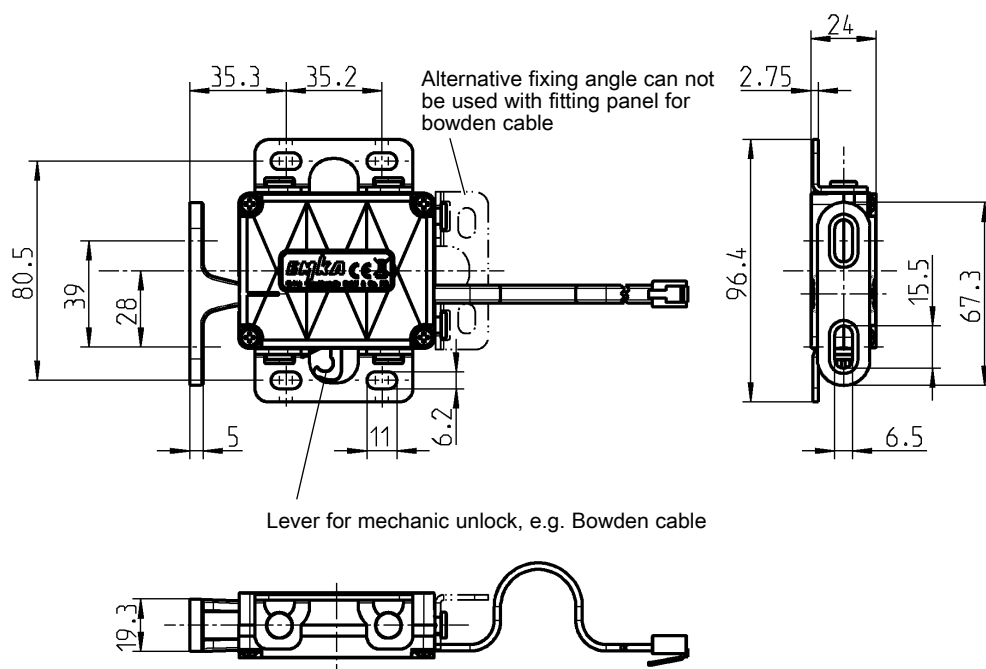
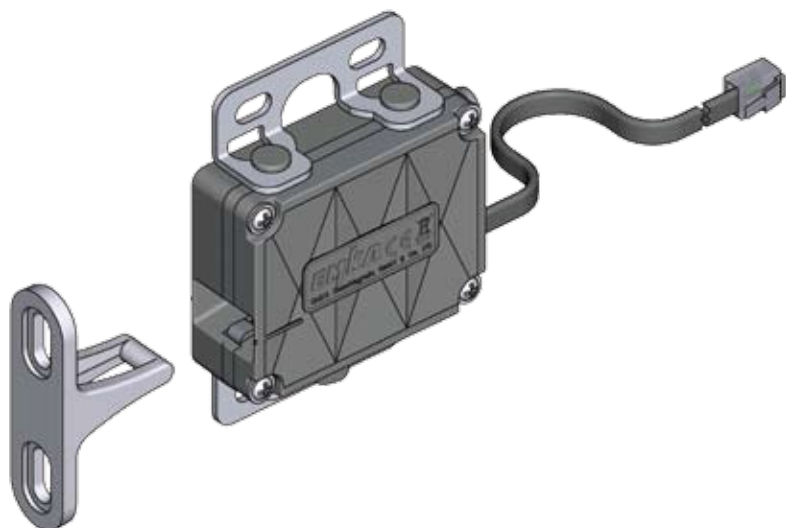
3000-U150-01

Electronic Locking System

PROGRAM 3000

Single point latch with integrated status contact

The single point latch can be used as universal electromechanical lock. It can be released by applying a 12 V DC signal or be connected to ELM control modules 3000-U32-0x and 3000-U33-0x.

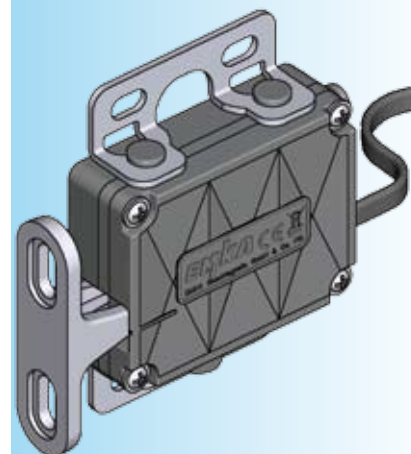


Single point latch with integrated status contact, housing Polyamide 66+PA6i GF 40 V0 black; rotary latch and ratchet are bonded coated; catch bracket AISI 316; gear motor; electronic; RJ cable 150 mm; fastening angle m.s. zinc plated; screw m.s. zinc plated; with springs; with assembly instruction and user manual

Basic	3000-U300-01
Basic delayed Re-Lock; with delayed re-lock	3000-U300-02
Energy-store; automatic unlock in case of power failure	3000-U300-03
Adapter cable for RJ-box to	
open cable end for modular construction form KIT	3000-U15
Plug for modules of type Box and 19" rack mount unit	3000-U15-01

See general catalog 2011 for page references you can't find in the ECHO (e.g. 1B-105).

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On request:
– Fitting panel for Bowden cable
– Bowden cable

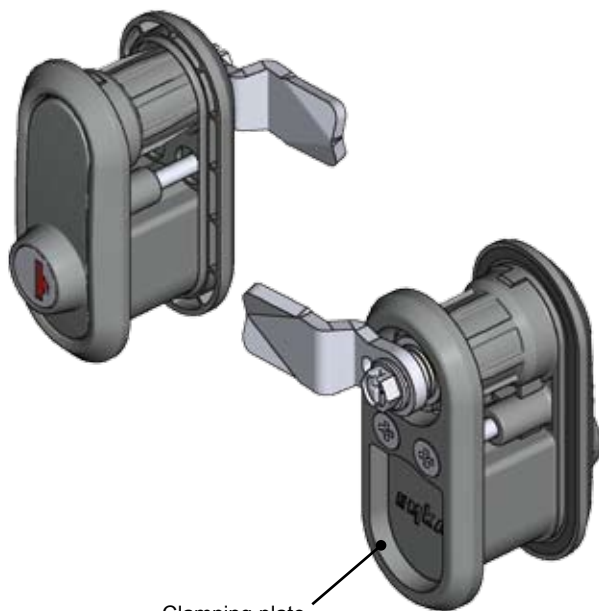
Compression swinghandle for storage box

PROGRAM 1342

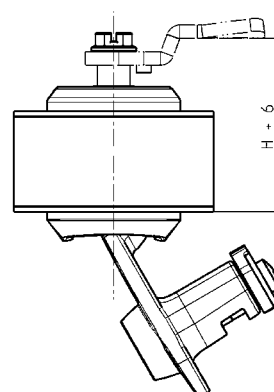
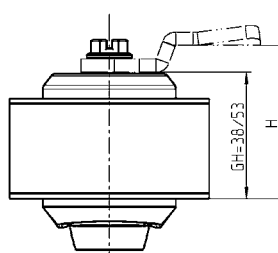
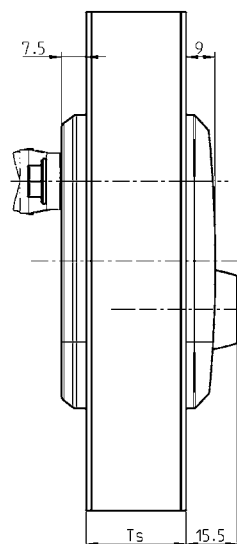
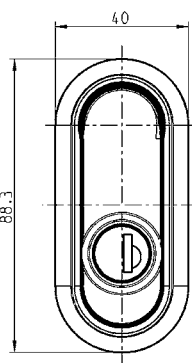
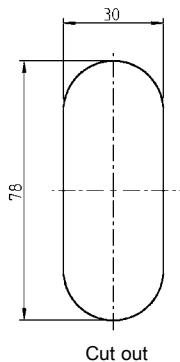
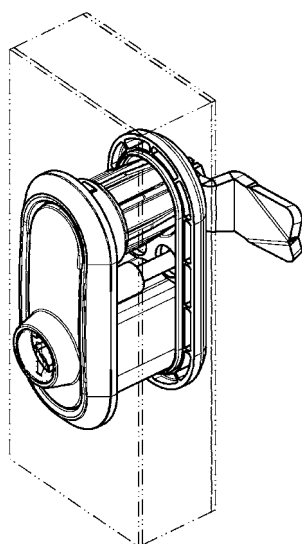
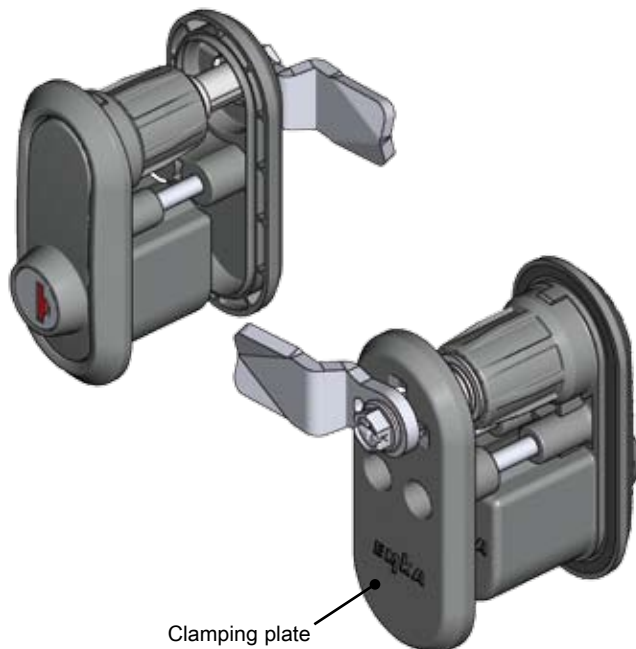
Vibration proof

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

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



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



- provided for clip-in cylinder, compatible with POS-clip-in cylinder 9850 (see Commercial-Vehicles-Catalogue page 12F-225)
- Compression swinghandles compatible with other commercial clip-in cylinder on request!
- Door thickness of 15 up to 45 mm

Compression swinghandle polyamide GF black, adapter for clip-in cylinder, screw m.s. zinc plated with spring and gasket.

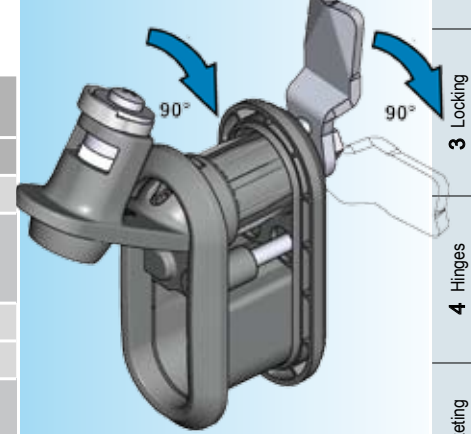
	GH = 38 mm		GH = 53 mm
Ts = 15 - 30	1342-U1-03	Ts = 30 - 45	1342-U2-03

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

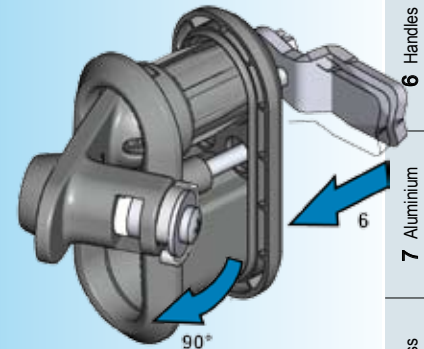
Ts = 15 - 21	1342-U3	Ts = 30 - 36	1342-U5
Ts = 21 - 30	1342-U4	Ts = 36 - 45	1342-U6

To be ordered separately:
cam m.s. zinc plated

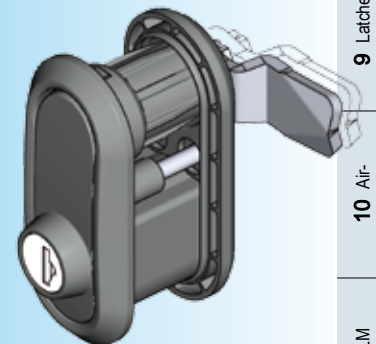
H	GH = 38 mm	H	GH = 53 mm
38	1000-17	38	-
40	1000-16	40	-
42	1000-15	42	-
44	1000-14	44	-
45	1000-27	45	-
46	1000-50	46	-
48	1000-13	48	-
50	1000-28	50	-
52	1000-26	52	-
53	-	53	1000-17
54	1000-12	54	-
55	1000-11	55	1000-16
56	1000-51	56	-
57	-	57	1000-15
58	1000-52	58	-
59	-	59	1000-14
60	1000-25	60	1000-27
61	-	61	1000-50
62	1000-53	62	-
63	-	63	1000-13
64	1000-54	64	-
65	1000-10	65	1000-28
67	1000-55	67	1000-26
69	-	69	1000-12
70	1000-56	70	1000-11
71	-	71	1000-51
73	-	73	1000-52
75	-	75	1000-25
77	-	77	1000-53
79	-	79	1000-54
80	-	80	1000-10
82	-	82	1000-55
85	-	85	1000-56



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



Closed position
Further 90° rotation of the handle draws the cam toward 6 mm axially.



Compressed condition

Unlock:
Reversed rotation

Further parts see page
– Clip-in cylinder (Commercial-Vehicles-Catalogue) 12F-225

1 Quarter turns

2 Rod controls

3 Locking systems

4 Hinges

5 Gasketing

6 Handles

7 Aluminium windows

8 Stainless steel

9 Latches

10 Air-conditioning

11 ELM Security Systems

12 Miscellaneous

All from one source



EMKA Beschlagteile GmbH & Co. KG supplies worldwide systems technology and vendor parts:

Mechanical and electronic locking systems, hinges, gaskets, aluminium windows and various accessories.

The vertical range of manufacture enables EMKA the manufacturing of the high-quality products. Benefit from the competence and flexibility of our international manufacturing

plants in Europe and China.

The spectrum ranges from the development to the series supply of a completely new series product.

Furthermore, EMKA offers the construction, production, repair and maintenance of forming, punching and bending tools.

Manufacturing expertise



Development engineering

- CAD based product development
- 3D interference control and function control
- design models and functional prototypes

Tool and mould making

- highly qualified staff
- ultra modern EDM machinery
- engineering and production are adjacent

Zinc die casting technology

- more than 50 die casting machines (20 t – 315 t)
- Production of different elements with a weight up to 2.500 g

Aluminium die casting technology

- 9 die casting machines (200 t - 1,100 t)
- Making various parts up to 15 kg (33 lbs).

Aluminium forging technology

- Screw press (800 t pressing force)
- Production of different elements with a weight up to 1.000 g
- Machining technology
- 30 CNC milling machines, lathes, and transfer machines

- capability to produce cross-holes, hexagons etc.

Friction welding

- Friction welding machine KUKA RS 20
- Connecting of homogeneous and different materials for a rotational symmetry of the welding sections

Bending, punching, and stamping machines

- more than 40 bending, punching, and stamping machines (up to 250 t)
- Processing of steel, stainless steel, aluminium or brass

Processing of all Thermoplastics

- approx. 50 injection moulding machines (30 t - 550 t)
- Usage of all types of thermoplastics
- Extrusion of rubber and thermoplastics
- 4 lines for salt bath extrusion, 4 lines for UHF and 3 lines for extrusion of thermoplastics
- Production of various profiles and materials
- All types of processing

Seal technology (foam-in-place)

- Automatic montage of captive seals
- protection class up to IP 66

Surface coating

- 4 zones for preprocessing, pulverising and branding in a single manufacturing line
- Capacity of approx. 1.000.000 pieces/month

Window manufacturing

- Custom-made production of window elements and door elements
- Complete mounted or made-up

Assembly

- Automatic assembly
- Component manufacturing

Manufacturing plants international



The EMKA Group:
design, engineering, manufacturing

Headquarters: Velbert, D;
other manufacturing plants Wuppertal, D • Bourré, Henriville, F •
Gorazde, BIH • Arnedo, SP • Birmingham, GB • Tianjin, CN
The various production processes are spread across EMKA's manufacturing centres in line with economic and logistic considerations. With 8 manufacturing plants, producing more than 18,000 modular components, the ability to address specific needs is unmatched.



The EMKA group is present in more than 60 countries worldwide:

- 8 production facilities
- ca. 43 subsidiaries / agencies
- approx. 1.350 employees worldwide (2012)

Certifications for quality and environmental management:

- DIN EN ISO 9001
- DIN EN ISO 14001
- VDA 6 Teil 1 (ILS)
- ISO/TS 16949 (Sealing Systems)



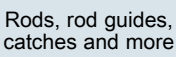
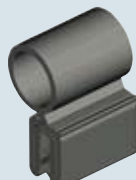
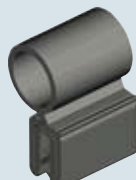
Further parts see General Catalog

Mechanical and Electronic Locking Systems for indoor and outdoor enclosures

refer to EMKA main catalogue, chapter 2, 3, 8 and 11

Hinges for prominent doors

refer to EMKA main catalog, chapter 4 and 8

	Multi-point locking systems		Latch or bearing bush with cam		adjacent Lift-off or rapid door removal		concealed or exposed hinges
	Swinghandles with combination locking		Keyed alike, keyed different and master key systems		Weld-on, mechanical attachment or quick assembly		polyamide, zinc die, steel or stainless steel
	polyamide, zinc die, steel or stainless steel		IP 65, NEMA 4 etc. sealing by Foam in Place gasket		90° - 270° opening angle		Wide product range of gasketing and edge protection:
	Swinghandle according to "WK 2" Vandal resistance to DIN ENV 1627-1630		Rods, rod guides, catches and more		refer to EMKA main catalogue, chapter 5		EMKA catalogues
							

Aluminium window with and without frame, pre-assembled or kit for self assembly

refer to EMKA main catalog, chapter 7



EMKA catalogues

www.EMKA.com

Velbert, Germany



Wuppertal, Germany



Bourré, France



Henriville, France



Birmingham, UK



Arnedo, Spain



Goražde, Bosnia-Herzegovina



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