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. Under www.EMKA.com in the download-sector you can find the submenu “CAD Files”. 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**

---

### Downloads of Solid Model files

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### Explanation 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: IP 40**
- **IP-rating: IP 50**
- **IP-rating: IP 54**
- **IP-rating: IP 65**
- **IP-rating: IP 66**
- **IP 65 tested according to protection class 2**
- **2D nut in use**
- **2D adjustable product**
- **3D adjustable product**
- **Assembly without tool**
- **ELM Electronic Locking & Monitoring System application**
- **With earthing or earthing possible**
- **PUR-foamed seal**
- **Compression specification of lock**
- **Clip-in assembling**
- **Shock and vibration test according to DIN EN 61373**
- **Inox AISI 303**
- **Inox AISI 304**
- **Inox AISI 316**
- **With earthing or earthing possible**
List of contents

**Quarter turns**
- Overview: 1-100
- 1A: Quarter turns, small and medium version (Program 1012, 1022)
- 1B: Quarter turns, standard version (Program 1000)
- 1C: Accessories: Cam, dust cap, rods, rod guides
- 1D: Quarter turn, plug-in type (Program 1500)
- 1E: Quarter turns, different versions

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

**Locking systems**
- Overview programs, matrix: 3-100
  - 3A up to 3L: 1107, 1125, 1150, 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

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

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

**Handles**
- 6A: Bow handles - different sizes, tube handles, recess handles (Program 1095)
- 6B: Recess handles, with leaf spring, with torsion spring (Program 6040)

**Aluminium windows**
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- 7C: Aluminium doors (Program 1300)

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

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

**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

**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

**Index**
- Part numbers / pages
Technical data:
- Motor voltage 12 - 24V
- Power consumption 0 - 2.4 Amper
- Stroke rate 10 mm / sec. (without load)
- Stroke approx. 22 mm (limited electronically)
- Nominal tensile / lifting force 850 N
  max. tensile / lifting force 1400 N
- Temperature range -10°C bis +60°C

Invisible locking system
Anti vandalism

PROGRAM 3000

Cabinet sample, shown cut away
Multiple point locking system

Lock housing active polyamide GF black, hooks and lock catch stainless steel, rod m.s., zinc plated, with motor drive and electronics

on request

Lock housing passive polyamide GF black, hooks and lock catch stainless steel, rod m.s., zinc plated

on request
Quarter turn radio controlled

Agent E
Description:

- electronic radio-controlled lock
- secures quarter turn locks (retrofitting possible)
- network-independent battery operation
- unlocked through personalised transmitter
- offers individual configuration options
- records event logs

RH and LH application

Mounting on the door with 4 screws

Material: polyamide GF
Swinghandle radio-controlled

**LOCKAGENT E**

**Description:**

- electronic swinghandle with radio-controlled identification
- retrofitting possible (cut out Ø22 mm)
- network-independent battery operation
- unlocked through personalised transmitter
- function indicator via LED
- offers individual configuration options
- records event logs

RH and LH application

Mounting on the door with 4 screws

Material: polyamide GF
Compression latch

PROGRAM 1000

Vibration proof

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

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

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

<table>
<thead>
<tr>
<th>Material</th>
<th>Black Powder Coated</th>
<th>Chrome Plated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square 6</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Square 7</td>
<td>1000-U796</td>
<td>on request</td>
</tr>
<tr>
<td>Square 8</td>
<td>1000-U755</td>
<td>on request</td>
</tr>
<tr>
<td>Square 8mm with arrow</td>
<td>1000-U798</td>
<td>on request</td>
</tr>
<tr>
<td>Square 8mm with M6 thread and wing knob</td>
<td>1000-U800</td>
<td>on request</td>
</tr>
<tr>
<td>Triangular 6,5 CNOMO</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Triangular 7</td>
<td>1000-U795</td>
<td>on request</td>
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<td>Triangular 8</td>
<td>1000-U783</td>
<td>on request</td>
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<td>Triangular 9</td>
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<tr>
<td>Triangular 10</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Double bit 3</td>
<td>1000-U749</td>
<td>on request</td>
</tr>
<tr>
<td>Double bit 5</td>
<td>1000-U748</td>
<td>on request</td>
</tr>
<tr>
<td>Male hexagon 11mm with indicator</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Hexagon female 8mm</td>
<td>1000-U807</td>
<td>on request</td>
</tr>
<tr>
<td>Hexagon female 8mm with pin</td>
<td>1000-U805</td>
<td>on request</td>
</tr>
<tr>
<td>Hexagon female 10mm</td>
<td>1000-U809</td>
<td>on request</td>
</tr>
<tr>
<td>Square female 6mm</td>
<td>on request</td>
<td>on request</td>
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<tr>
<td>Square female 7</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Square female 8</td>
<td>1000-U811</td>
<td>on request</td>
</tr>
<tr>
<td>Daimler Benz</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Slot 1,2 x 3</td>
<td>1000-U750</td>
<td>on request</td>
</tr>
<tr>
<td>Slot 2 x 4</td>
<td>1000-U777</td>
<td>on request</td>
</tr>
<tr>
<td>Slot 2 x 4 coinproof</td>
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<td>on request</td>
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<tr>
<td>Crown type</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Railway</td>
<td>1000-U831</td>
<td>1000-U831-IA</td>
</tr>
</tbody>
</table>

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Compression Latch with Adjustable Cam

**PROGRAM 1000**

**Vibration proof**

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

---

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

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Compression latch with handle

**PROGRAM 1000**

**Compression T handle**

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

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

*Compressed condition*
Key removable

*Unlock:*
Reversed rotation

**Compression latch with T-handle**

Cut out
Vibration proof

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

| Handle and housing: black powder coated zinc alloy, cylinder; zinc alloy with stainless steel cap and shutter, nut and screw; zinc plated m.s., Each cylinder has one silver steel key with black nylon. Key removable in both positions. |
|------------------|------------------|------------------|
| non locking | keyed | keyed different |
| Wing knob | 1000-U826 | 1000-U827 | 1000-U828 |
| T-Handle | 1000-U820 | 1000-U821 | 1000-U822 |
| L-Handle | 1000-U823 | 1000-U824 | 1000-U825 |

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Compression Handles with adjustable Cams

**PROGRAM 1000**

**Compression T-handle**

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

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

**Compressed condition**
Key removable

**Unlock:**
Reversed rotation

**Compression latch with T-handle**

Info
Vibration proof

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

<table>
<thead>
<tr>
<th>Handle and housing zinc die black powder coated, round cylinder zinc die with stainless steel cap and dustcap, washer and nut m.s. zinc plated, with spring and seal. Each cylinder has one silver steel key with black polyamide grip. Key removable in both directions.</th>
</tr>
</thead>
<tbody>
<tr>
<td>non locking</td>
</tr>
<tr>
<td>Wing knob</td>
</tr>
<tr>
<td>T-Handle</td>
</tr>
<tr>
<td>L-Handle</td>
</tr>
</tbody>
</table>

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Safety quarter turn without mask

**PROGRAM 1000**

**Safety quarter turn:**
This lock is of a vibration-proof design and corresponds to the requirements of the DIN EN 61373. This depends on the installation location and operational conditions. Specific checks are necessary and/or supplementary measures of fastening required.

**Note:**
Only cams without a stop can be used!
The H-dimension will be reduced by 2 mm with this finger pull installed (see catalogue page 1C-320).

**Further parts see page**
- Accessories  
  - Key up to 1C-320
  - Key 1C-380 Page 85

**Housing and insert material** on choice, mask zinc die raw, screw and earthnut m.s, zinc plated and/or screw and nut stainless steel, with spring and seal.

<table>
<thead>
<tr>
<th>Insert size/shape</th>
<th>Zinc Die Chrome Pl.</th>
<th>AISI 316</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square 6</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Square 7</td>
<td>1000-U817-02IA</td>
<td>on request</td>
</tr>
<tr>
<td>Square 8</td>
<td>1000-U817-03IA</td>
<td>1000-U817-03PH</td>
</tr>
<tr>
<td>Square 8 slotted</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Triangular 6,5 CNOMO</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Triangular 7</td>
<td>1000-U817-04IA</td>
<td>on request</td>
</tr>
<tr>
<td>Triangular 8</td>
<td>1000-U817-05IA</td>
<td>on request</td>
</tr>
<tr>
<td>Triangular 9</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Triangular 10</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Double bit 3</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Double bit 5</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Hexagon female 8mm</td>
<td>on request</td>
<td>1000-U817-24PH</td>
</tr>
<tr>
<td>Hexagon female 10mm</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Square female 6mm</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Square female 7</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Square female 8</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Daimler Benz</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Slot 1,2 x 3</td>
<td>1000-U817-16IA</td>
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</tr>
<tr>
<td>Slot 2 x 4</td>
<td>1000-U817-17IA</td>
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</tr>
<tr>
<td>Slot 2 x 4 coinproof</td>
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<td>on request</td>
</tr>
<tr>
<td>Crown type</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Eastern Europe Ø 13</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Hexagon female 8mm with pin</td>
<td>on request</td>
<td>on request</td>
</tr>
<tr>
<td>Railway version</td>
<td>1000-U817-23IA</td>
<td>on request</td>
</tr>
</tbody>
</table>

**Cam (without stopper)**

<table>
<thead>
<tr>
<th>Cam size/shape</th>
<th>M.s. Zinc Plated</th>
<th>AISI 304</th>
</tr>
</thead>
<tbody>
<tr>
<td>H = 8 ; L = 45</td>
<td>1000-392</td>
<td>on request</td>
</tr>
<tr>
<td>H = 18 ; L = 45</td>
<td>1000-203</td>
<td>on request</td>
</tr>
</tbody>
</table>

Cam with different H- and L dimensions on request.

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Safety quarter turn with mask

**PROGRAM 1000**

**Descrip**

- **Cam:**
  - Insert double bit
  - Press down insert turn quarter turn!

**Insert material**

- **Mask:** zinc die raw, screw and ear nut m.s. zinc plated and/or screw and nut stainless steel with spring and seal

**Housing and Insert material on choice, mask zinc die raw, screw and ear nut m.s. zinc plated and/or screw and nut stainless steel with spring and seal**

<table>
<thead>
<tr>
<th>Insert Material</th>
<th>Zinc Die</th>
<th>Chrome Plated</th>
<th>AISI 316</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square 6</td>
<td>on request</td>
<td>on request</td>
<td></td>
</tr>
<tr>
<td>Square 7</td>
<td>1000-U818-02IA</td>
<td>on request</td>
<td></td>
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<tr>
<td>Square 8</td>
<td>1000-U818-03IA</td>
<td>on request</td>
<td></td>
</tr>
<tr>
<td>Square 8 slotted</td>
<td>on request</td>
<td>on request</td>
<td></td>
</tr>
<tr>
<td>Triangular 6,5 CNOMO</td>
<td>on request</td>
<td>on request</td>
<td></td>
</tr>
<tr>
<td>Triangular 7</td>
<td>1000-U818-04IA</td>
<td>on request</td>
<td></td>
</tr>
<tr>
<td>Triangular 8</td>
<td>1000-U818-05IA</td>
<td>on request</td>
<td></td>
</tr>
<tr>
<td>Triangular 9</td>
<td>on request</td>
<td>on request</td>
<td></td>
</tr>
<tr>
<td>Triangular 10</td>
<td>on request</td>
<td>on request</td>
<td></td>
</tr>
</tbody>
</table>

**Cam (without stopper)**

<table>
<thead>
<tr>
<th>Insert Material</th>
<th>Zinc Die</th>
<th>Chrome Plated</th>
<th>AISI 304</th>
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</thead>
<tbody>
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<td>Double bit 3 mm RH version</td>
<td>1000-U819-01IA</td>
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</tr>
<tr>
<td>Double bit 3 mm LH version</td>
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<td>on request</td>
<td></td>
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<tr>
<td>Double bit 5 mm RH version</td>
<td>1000-U819-02IA</td>
<td>on request</td>
<td></td>
</tr>
<tr>
<td>Double bit 5 mm LH version</td>
<td>1000-U819-04IA</td>
<td>on request</td>
<td></td>
</tr>
<tr>
<td>H = 8 ; L = 45</td>
<td>1000-392</td>
<td>on request</td>
<td></td>
</tr>
<tr>
<td>H = 18 ; L = 45</td>
<td>1000-203</td>
<td>on request</td>
<td></td>
</tr>
</tbody>
</table>

**Further parts see page**

- **Accessories** up to 1C-380
- **Key** Page 85

**Note:**

- Only cams without a stop can be used!
- The H-dimension will be reduced by 2 mm with this finger pull installed (see catalogue page 1C-320).

**See general catalogue for parts without standard page numbers (e.g., 1B-105).**
Safety quarter turn:
This lock is of a vibration-proof design and corresponds to the requirements of the DIN EN 61373. This depends on the installation location and operational conditions. Specific checks are necessary and/or supplementary measures of fastening required.

The H-dimension will be reduced by 2 mm with this finger pull installed (see catalogue page 1C-320).

Further parts see page
- Cam (GH=18) 1C-120
  1C-140
  1C-160
- Accessories 1C-320 up to 1C-380
- Key Page 85

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

Triangular 8 mm RH/LH version 1000-U835

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Quarter turn, screw-on program

**PROGRAM 1000**

The H-dimension will be reduced by 2 mm with this finger pull installed (see catalogue page 1C-320).

**Further parts see page**
- Cam (GH=36) 1C-120
  1C-140
  1C-160
- Key Page 85

**Housing and Insert zinc die chrome plated, screw m.s. zinc plated**

<table>
<thead>
<tr>
<th>Housing and Insert zinc die chrome plated, screw m.s. zinc plated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square 8 slotted</td>
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</tbody>
</table>

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Cam m.s. for GH = 22, 28, 31, 32, 42 and 45

PROGRAM 1000

Cam

Cam m.s., zinc plated

<table>
<thead>
<tr>
<th>H</th>
<th>GH = 22</th>
<th>GH = 28</th>
<th>GH = 31</th>
<th>GH = 32</th>
<th>GH = 42</th>
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</table>

2-point rod control m.s., zinc plated

1000-U167
When considering a multi point latching system with a compression latch please evaluate the effects of the axial movement of the cam on the rods.

Further parts see page
- Rod 1C-620
- Quarter turns Page 8
- Swinghandle 1152 with clamping function Page 39

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Cam m.s. for GH = 31 and 45

Compression latch

PROGRAM 1000

Note:
Fitting of cranked cam can be either positive or negative

Further parts see page
– Compression latch with insert  page 9
– Compression latch with handle  page 12 - 13

Cam m.s. zinc plated

<table>
<thead>
<tr>
<th>for GH = 31</th>
<th>H</th>
<th>GH = 31</th>
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<tbody>
<tr>
<td>straight</td>
<td>38 - 58</td>
<td>1000-476</td>
</tr>
<tr>
<td>offset +/- 14 mm</td>
<td>24 - 44; 52 - 72</td>
<td>1000-478</td>
</tr>
<tr>
<td>offset +/- 26 mm</td>
<td>12 - 32; 64 - 84</td>
<td>1000-477</td>
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</tbody>
</table>

<table>
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<tr>
<th>for GH = 45</th>
<th>H</th>
<th>GH = 45</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight</td>
<td>52 - 72</td>
<td>1000-476</td>
</tr>
<tr>
<td>offset +/- 14 mm</td>
<td>38 - 58; 66 - 86</td>
<td>1000-478</td>
</tr>
<tr>
<td>offset +/- 26 mm</td>
<td>26 - 46; 78 - 98</td>
<td>1000-477</td>
</tr>
</tbody>
</table>

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Cylinder quarter turn clip fix

**PROGRAM 1500**

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

- keyed EK 333  
  1500-U18
- keyed different  
  1500-U19

**Locking clip polyamide GF colour according to article**

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

**Further parts see page**

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

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Quarter turn; three piece, clip fix

**PROGRAM 1500**

<table>
<thead>
<tr>
<th>Housing polyamide GF black</th>
<th>1500-01</th>
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<tbody>
<tr>
<td>without seal</td>
<td>1500-01</td>
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<tr>
<td>with seal</td>
<td>1500-01-G</td>
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<table>
<thead>
<tr>
<th>Locking clip polyamide GF colour according to article</th>
<th>1500-02-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ts = 1.0 - 1.5  pebble grey</td>
<td>1500-02-10</td>
</tr>
<tr>
<td>Ts = 1.5 - 2.0  black</td>
<td>1500-02-15</td>
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<td>Ts = . . .</td>
<td>1500-02-15</td>
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<table>
<thead>
<tr>
<th>Insert / Cam polyamide GF black, with and without O-ring, IP 65 is achieved by O-ring</th>
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<tbody>
<tr>
<td>without O-ring</td>
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<tr>
<td><strong>H = 18</strong></td>
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<tr>
<td>Square 6</td>
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<td>Square 8</td>
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<td>Square 8 slotted</td>
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<tr>
<td>Triangular 6,5 CNOmO</td>
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<td>Triangular 9</td>
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<td>Square female 8</td>
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<tr>
<td>Daimler Benz</td>
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<tr>
<td>Slot 1,2 x 3</td>
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<tr>
<td>Slot 2 x 4</td>
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<tr>
<td>Slot 2 x 4 coinproof</td>
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</table>
Note: Further insert cams with other inserts or other H- and L-dimensions on request.

Further parts see page — Keys
Page 35
Wingknob quarter turn clip fix

**PROGRAM 1500**

**Further parts see page**

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

**Handle polyamide GF black / zinc die, housing polyamide GF black, round cylinder zinc die with stainless steel cap and dust cap, screw m.s, zinc plated, with seal.**

- non locking 1500-U343
- keyed EK 333 1500-U345
- keyed different 1500-U347

**Locking clip polyamide GF colour according to article**

- Ts = 1,0 - 1,5 pebble grey 1500-05-10
- Ts = 1,5 - 2,0 black 1500-05-15

See general catalogue for parts without standard page numbers (e.g., 1B-105).
**T handle quarter turn, small, clip fix**

**PROGRAM 1500**

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
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<tbody>
<tr>
<td>Handle polyamide GF black / zinc die, housing polyamide GF black, round cylinder</td>
<td>1500-U775</td>
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<tr>
<td>zinc die with stainless steel cap</td>
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<tr>
<td>non locking (IP 40)</td>
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<tr>
<td>keyed EK 333 (IP 65)</td>
<td>1500-U773</td>
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<tr>
<td>keyed different (IP 65)</td>
<td>1500-U774</td>
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<tr>
<td>Locking clip polyamide GF colour according to article</td>
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</tr>
<tr>
<td>Ts = 1,0 - 1,5 pebble grey</td>
<td>1500-05-10</td>
</tr>
<tr>
<td>Ts = 1,5 - 2,0 black</td>
<td>1500-05-15</td>
</tr>
<tr>
<td>See general catalogue for parts without standard page numbers (e.g., 1B-105)</td>
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Further parts see page
- Cam (GH=18) 1C-120
- Cam (GH=14) 1C-140
- Cam (GH=16) 1C-160
- Spare key 12B-140
T-handle quarter turn clip fix

PROGRAM 1500

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

Handle polyamide GF black / zinc die, housing polyamide GF black, round cylinder zinc die with stainless steel cap and dust cap, screw m.s. zinc plated, with seal. Each round cylinder has one key made of silver steel with grip polyamide black.

<table>
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<tr>
<th>Feature</th>
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<td>non locking</td>
<td>1500-U546</td>
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<tr>
<td>keyed EK 333</td>
<td>1500-U548</td>
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<tr>
<td>keyed different</td>
<td>1500-U550</td>
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locking clip polyamide GF colour according to article

<table>
<thead>
<tr>
<th>Ts = 1,0 - 1,5</th>
<th>1500-05-10</th>
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</thead>
<tbody>
<tr>
<td>Ts = 1,5 - 2,0</td>
<td>1500-05-15</td>
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</table>

See general catalogue for parts without standard page numbers (e.g., 1B-105).
**L-handle quarter turn clip fix**

**PROGRAM 1500**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>Handle polyamide GF black / zinc die, housing polyamide GF black, round cylinder zinc die with stainless steel cap and dust cap, screw m.s. zinc plated, with seal. Each round cylinder has one key made of silver steel with grip polyamide black.</td>
<td>1500-U570</td>
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<td>non locking</td>
<td>1500-U570</td>
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<td>keyed EK 333</td>
<td>1500-U572</td>
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<td>keyed different</td>
<td>1500-U574</td>
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<tr>
<td>Locking clip polyamide GF colour according to article</td>
<td>1500-05-10</td>
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<tr>
<td>TS = 1.0 - 1.5 pebble grey</td>
<td>1500-05-10</td>
</tr>
<tr>
<td>TS = 1.5 - 2.0 black</td>
<td>1500-05-15</td>
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</table>

See general catalogue for parts without standard page numbers (e.g., 1B-105).

Further parts see page:
- Cam (GH=18) 1C-120 1C-140 1C-160 12B-140
Compression latch

PROGRAM 1022

Vibration proof

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

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

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

Compressed condition
Unlock: Reversed rotation

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

See general catalogue for parts without standard page numbers (e.g., 18-105).
Wingknob
PROGRAM 1000

Wingknob quarter turn zinc die silver, screw and spring m.s. zinc plated with two keys silver steel

1000-U836

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Lever locking system

**PROGRAM 1099**

**Lever, version on choice, guiding bracket m.s., zinc pl., guiding bushes brass nickel pl., screws m.s., zinc plated.**

- Lever zinc die silver powder coated: 1099-U1
- Lever polyamide black: 1099-U4
- Lever for padlock zinc die silver powder coated: 1099-U6

**Rod m.s., zinc plated**

- L = 1100 mm: 1099-03

Other lengths on request
Swinghandle for glass doors
Swinghandle small

**PROGRAM 1107**

**Included in delivery:**
Swinghandle without locking set

**Further parts see page**
- Locking set 3XA-120
- Locking set ELM Chapter 11
- Cam (GH=19) 3YC-120

**Attention:**
When using this cam the dimension H will be reduced by 1 mm.

Further cams on request

---

**Swinghandle polyamide black, handle zinc die black powder coated, shaft zinc die black powder coated, with spring**

1107-U247

---

**Swinghandle zinc die green powder coated, shaft stainless steel, with seal**

1107-U248

---

See general catalogue for parts without standard page numbers (e.g., 1B-105).
## Swinghandle polyamide, zinc die or AISI

### PROGRAM 1125

**Example:**

- (21/26 mm)

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

<table>
<thead>
<tr>
<th>Stuffing on cap</th>
<th>Screw on cap</th>
<th>Hook</th>
<th>Dust cap</th>
<th>Dust cap</th>
<th>Dust cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>65</td>
<td>40</td>
<td>40</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### For cylinder 40 mm

<table>
<thead>
<tr>
<th>Stuffing on cap</th>
<th>Screw on cap</th>
<th>Hook</th>
</tr>
</thead>
<tbody>
<tr>
<td>with</td>
<td>none</td>
<td>with</td>
</tr>
</tbody>
</table>

#### For cylinder 45 mm

<table>
<thead>
<tr>
<th>Stuffing on cap</th>
<th>Screw on cap</th>
<th>Hook</th>
</tr>
</thead>
<tbody>
<tr>
<td>with</td>
<td>none</td>
<td>with</td>
</tr>
</tbody>
</table>

#### Insert for padlock

- Only with swinghandle 1125-U191-A

#### For ASSA cylinder

- Only with swinghandle 1125-U191-A

### Swinghandle for profile half cylinder zinc die black powder coated, cap polyamide black, with seal

<table>
<thead>
<tr>
<th>Stuffing on cap</th>
<th>Screw on cap</th>
<th>Hook</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>65</td>
<td>40</td>
</tr>
</tbody>
</table>

### Swinghandle for profile half cylinder AISI 316, cap polyamide black, with seal

<table>
<thead>
<tr>
<th>Stuffing on cap</th>
<th>Screw on cap</th>
<th>Hook</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>65</td>
<td>40</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Stuffing on cap</th>
<th>Screw on cap</th>
<th>Hook</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>65</td>
<td>40</td>
</tr>
</tbody>
</table>

### Swinghandle polyamide GF black with round cylinder including stainless steel cap and shutter or insert, zinc die chrome pl., shaft zinc die zinc pl., fixing material m.s. zinc pl., with seal

<table>
<thead>
<tr>
<th>Stuffing on cap</th>
<th>Screw on cap</th>
<th>Hook</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>65</td>
<td>40</td>
</tr>
</tbody>
</table>

### Other types

- **Hexagon female 10 SW 10**
- **Female Square 6**
- **Female Square 8**
- **Daimler Benz**
- **Slot 1 x 2**
- **Slot 2 x 4**
- **Crown type**
- **Eastern Europe Ø 13**

---

1. **Note**: All dimensions are approximate and subject to manufacturing tolerances.
2. **Material**: Zinc die or AISI 316.
3. **Finish**: Various finishes are available, including powder coating and chrome plating.
4. **Sealing**: Seals are available for IP protection, ensuring durability and security.
5. **Request**: On request only, please check availability with the supplier.

---

**Legend:**
- (21/26 mm): Dimension for profile half cylinder 45 mm
- (21) 1125-U191-NA 1125-U190-NA 1125-U191-A 1125-U190-A 1125-U186-A 1125-U185-A
- (26) 1125-U196-NA 1125-U195-NA 1125-U196-A 1125-U195-A 1125-U193-A
- Insert for padlock (only with swinghandle 1125-U191-A)
- For ASSA cylinder (only with swinghandle 1125-U191-A)
- Dust cap: Available for IP protection.
- Snap on cap: Available for specific applications.
Swinghandle for profile half cylinder

- 1 Quarter turns
- 2 Rod controls
- 3 Locking systems

Further parts see page
- Key 12B-120
- Rod control 3YA-120
- Bearing bush 3YB-120
- Profile half cylinder 3XB-120

On request Insert In
1) Zinc die black p.c.
2) Polyamide black
- Cap without foamed seal for small bending area on request
- EMC-version

See general catalogue for parts without standard page numbers (e.g. 1B-105).
**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.

---

**Black GR nylon escutcheon, zinc plated zinc alloy shaft, key cylinder has stainless steel cap and shutter.** For each keyed handle one silver steel key with black nylon grip is included. Inserts are chrome plated zinc alloy.

<table>
<thead>
<tr>
<th>Handle: Black GR nylon</th>
<th>Handle: Black powder coated zinc alloy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round cylinder with stainless steel cap and shutter, keyed EK 333</td>
<td>1150-U2-11 1150-U2-12</td>
</tr>
<tr>
<td>Round cylinder with stainless steel cap and shutter, keyed different</td>
<td>1150-U4-11 1150-U4-12</td>
</tr>
</tbody>
</table>

**Inserts: Chrome plated zinc alloy**

| Square 6 mm | 1150-U9-11 1150-U9-12 |
| Square 7 mm | 1150-U10-11 1150-U10-12 |
| Square 8 mm | 1150-U11-11 1150-U11-12 |
| Triangular 6,5 Cnomo | 1150-U31-11 1150-U31-12 |
| Triangle 7 mm | 1150-U12-11 1150-U12-12 |
| Triangle 8 mm | 1150-U13-11 1150-U13-12 |
| Double bit 3 mm | 1150-U14-11 1150-U14-12 |
| Double bit 5 mm | 1150-U15-11 1150-U15-12 |
| Daimler Benz | 1150-U16-11 1150-U16-12 |
| Slot 2x4 | 1150-U17-11 1150-U17-12 |
| Hexagon 8 mm female with pin | 1150-U18-11 1150-U18-12 |
| Male hexagon 11 mm | 1150-U19-11 1150-U19-12 |
| Push button | 1150-U20-11 1150-U20-12 |

See general catalogue for parts without standard page numbers (e.g., 18-105).
1150 Swing handle with padlock for universal escutcheon

**PROGRAM 1150**

Black GR nylon escutcheon, black powder coated zinc alloy handle, zinc plated, zinc alloy shaft, key cylinder has stainless steel cap and shutter. For each keyed handle one silver steel key with nylon grip is included.

<table>
<thead>
<tr>
<th>Insert</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>South 6 mm</td>
<td>1150-U9-13</td>
<td></td>
</tr>
<tr>
<td>Square 7 mm</td>
<td>1150-U10-13</td>
<td></td>
</tr>
<tr>
<td>Square 8 mm</td>
<td>1150-U11-13</td>
<td></td>
</tr>
<tr>
<td>Triangular 6,5 Cnomo</td>
<td>1150-U31-13</td>
<td></td>
</tr>
<tr>
<td>Triangle 7 mm</td>
<td>1150-U12-13</td>
<td></td>
</tr>
<tr>
<td>Triangle 8 mm</td>
<td>1150-U13-13</td>
<td></td>
</tr>
<tr>
<td>Double bit 3 mm</td>
<td>1150-U14-13</td>
<td></td>
</tr>
<tr>
<td>Double bit 5 mm</td>
<td>1150-U15-13</td>
<td></td>
</tr>
<tr>
<td>Daimler Benz</td>
<td>1150-U16-13</td>
<td></td>
</tr>
<tr>
<td>Slot 2x4</td>
<td>1150-U17-13</td>
<td></td>
</tr>
<tr>
<td>Hexagon 8 mm female with pin</td>
<td>1150-U18-13</td>
<td></td>
</tr>
<tr>
<td>Male hexagon 11 mm</td>
<td>1150-U19-13</td>
<td></td>
</tr>
<tr>
<td>Push button</td>
<td>1150-U20-13</td>
<td></td>
</tr>
</tbody>
</table>

Attention:
Please order fixing material separately.

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

Further parts see page
- Cam (GH = 18) 3YC-120
- Rod control 3YA-120
- 3YA-140
- Key 12B-120
- Spare key 12B-140
- Fixing material see Page 38

On request:
- Key retained in the open position of the cylinder
- Other inserts
- Blank handle (no lock)

See general catalogue for parts without standard page numbers (e.g. 1B-105).
© 1150 Swinghandle with „Push to Lock“ function for universal escutcheon

**PROGRAM 1150**

**Swinghandle** powder coated zinc alloy, escutcheon GR nylon, shaft zinc alloy, zinc plated, with seal, key cylinder has a stainless steel cap and shutter. For each keyed handle one silver steel key with nylon black grip is included. Inserts are chrome plated zinc alloy.

<table>
<thead>
<tr>
<th>Insert chrome plated zinc alloy</th>
<th>Push to lock</th>
<th>Push to lock for padlock</th>
</tr>
</thead>
<tbody>
<tr>
<td>key EK 333</td>
<td>1150-U33-22</td>
<td>-</td>
</tr>
<tr>
<td>key different</td>
<td>1150-U34-22</td>
<td>-</td>
</tr>
</tbody>
</table>

Further parts see page
- Cam (GH = 18) 3YC-120 3YA-120 12B-120
- Rod control 3YA-140 12B-140
- Key 12B-140
- Spare key 12B-140
- Fixing material see Page 38

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

See general catalogue for parts without standard page numbers (e.g., 18-105).
1155 Swinghandle with combination lock for universal escutcheon

PROGRAM 1150

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

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

Option 2:
Open with the override or “master” key, knowledge of the combination is not necessary.

Cut out
Swinghandle and escutcheon polyamide GF black, shaft zinc plated zinc alloy, with seal, key cylinder with stainless steel cap and shutter.
One silver steel key with nylon grip with each handle.

See general catalogue for parts without standard page numbers (e.g. 1B-105).

Further parts see page
- Cam (GH = 18) 3YC-120
- Rod control 3YA-120 3YA-140
- Spare key 12B-140
- Fixing material see Page 38

On request;
- Key for round cylinder is not removable in open position
- Other inserts
Fixing material for swinghandle with universal escutcheon

**PROGRAM 1150**

Fixing material for swinghandle with cam

Hook and fastening module polyamide black, adapter zinc die zinc plated, fixing material m.s. zinc plated

<table>
<thead>
<tr>
<th>Ts</th>
<th>1150-U50-01</th>
<th>1150-U50-02</th>
<th>1150-U50-03</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fixing material for swinghandle with rod control

Hook polyamide GF black, fixing material m.s. zinc plated

<table>
<thead>
<tr>
<th>Ts</th>
<th>1150-U51-02</th>
<th>1150-U51-03</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fastening module polyamide GF black, adapter zinc die zinc plated, fixing material m.s. zinc plated

<table>
<thead>
<tr>
<th>Ts</th>
<th>1150-U52</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>2.0</td>
<td>-0.5</td>
</tr>
<tr>
<td>3.0</td>
<td></td>
</tr>
</tbody>
</table>

Fastening module polyamide GF black, fixing material m.s. zinc plated

<table>
<thead>
<tr>
<th>Ts</th>
<th>1150-U53</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>-0.5</td>
</tr>
</tbody>
</table>

Adapter zinc die zinc plated, fastening plate and fixing material m.s. zinc plated

<table>
<thead>
<tr>
<th>Ts</th>
<th>1150-U54</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>2.0</td>
<td></td>
</tr>
</tbody>
</table>

Further parts see page

- Swinghandle with universal escutcheon up to Page 34
- Cam (GH = 18) 3YC-120
- Rod control 3YA-120
- Other door thicknesses

On request:
- Other door thicknesses

See general catalogue for parts without standard page numbers (e.g., 18-105).
As the handle is pushed into the escutcheon (see fig 2) the cam moves 3 mm axially towards the door.

**Cut out**

Swinghandle and escutcheon polyamide GF black, fixing material zinc plated m.s., shaft and 90° stopper zinc alloy, push button nylon, cylinder with stainless steel cap and shutter. Each lockable handle has one silver steel key with polyamide GF black grip.

<table>
<thead>
<tr>
<th></th>
<th>without seal (IP 40)</th>
<th>with seal (IP 65)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Push button</td>
<td>1152-U9</td>
<td>1152-U9-01</td>
</tr>
<tr>
<td>keyed EK 333</td>
<td>1152-U10</td>
<td>1152-U10-01</td>
</tr>
<tr>
<td>keyed different</td>
<td>1152-U12</td>
<td>1152-U12-01</td>
</tr>
<tr>
<td>Blank</td>
<td>1152-U11</td>
<td>1152-U11-01</td>
</tr>
</tbody>
</table>

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

Further versions on request
- Company logos may be printed or embossed
- This handle has an “over-center” action and so is vibration resistant

Further parts see page
- Cam Page 18-19
- Spare key 12B-140

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Swinghandle with rods

**PROGRAM 1160**

- **Quarter turns**: 1
- **Rod controls**: 2
- **Locking systems**: 3

**Further parts see page**

- **Rod**
  - Outside: 3ZA-120, 3ZA-320
  - Inside: 3ZB-120, 3ZB-220

**Supplement to**

3D-120

**Swinghandle**
- Zinc die black powder coated, shaft zinc die zinc plated, escutcheon material on choice, fixing material m.s. zinc pl., with seal, push button housing polyamide black, push button polyamide grey

**Escutcheon**
- Polyamide: 1160-U35
- Zinc die: 1160-U36

See general catalogue for parts without standard page numbers (e.g., 18-105).
Swinghandle with rods

**PROGRAM 1160**

![Diagram of swinghandle with rods]

**Swinghandle for assembled rod control**

- **PU foam seal**
- **Push button**

**Turn stroke = Stroke**
- **135° = 23.5 mm**
- **90° = 16 mm**

**Further parts see page**
- Rod
  - outside 3ZA-120
  - inside 3ZB-120

**Supplement to 3D-140**

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Polyamide</th>
<th>Zinc die</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rod control</td>
<td>1160-U235</td>
<td>1160-U236</td>
</tr>
<tr>
<td>Rod</td>
<td>RH version 1160-U200-RE</td>
<td>LH version 1160-U200-LI</td>
</tr>
<tr>
<td>Push button</td>
<td>Polyamide black</td>
<td>Polyamide grey</td>
</tr>
</tbody>
</table>

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Swinghandle for rods

Further parts see page

- Rod
  - outside 3ZA-420

supplement to

3D-220

Info

1 Quarter turns

2 Rod controls

3 Locking systems

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Swinghandle for cam or rod control

**PROGRAM 1185**

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

**Swinghandle and escutcheon polyamide GF black, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>for cam</td>
<td>1185-U1</td>
</tr>
<tr>
<td>for rod control</td>
<td>1185-U2</td>
</tr>
</tbody>
</table>

See general catalogue for parts without standard page numbers (e.g., 1B-105).

**Further parts see page**
- Locking set (dim.36) 3XA-120
- Locking set ELM Chapter 11
- cam (stroke = 26) 3YC-120
- Rod control Page 48

Note:
Swinghandle without locking set
Lifthandle

PROGRAM 1190

1 Quarter turns

2 Rod controls

3 Locking systems

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

Further parts see page
- Locking set
  3XA-120
  3XA-240
- Rod
  3ZA-120
  3ZA-320

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

Frame-cover polyamide GF black, screws m.s., zinc pl.,
for door LH and RH version, with seal

See general catalogue for parts without standard page numbers (e.g., 1B-105).

Frame-cover suitable for use outside the seal

Offset from the centre line

1.5 mm Covercap
Escutcheon

**PROGRAM 1190**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Quarter turns</td>
<td>3F-220</td>
</tr>
<tr>
<td>2</td>
<td>Rod controls</td>
<td>3ZA-120</td>
</tr>
<tr>
<td>3</td>
<td>Locking systems</td>
<td>1B-140</td>
</tr>
</tbody>
</table>

**Info**

See general catalogue for parts without standard page numbers (e.g. 1B-105).

---

**Escutcheon**

Polyamide GF black, fixing material m.s. zinc plated

1190-U3

**Rod control**

Polyamide GF black, rods m.s. zinc plated

1190-U4

**Adapter for cam m.s.**

1190-U5

---

**Cut out**

- Door centre
- Rod control

**Stroke of rod one direction**

Stroke 23,5 mm

**Further parts see page**

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

Note:

When using an adapter for cam the H-dimension is 1.5 mm larger
**Swinghandle**

*PROGRAM 1225*

Example:

*(22/24 mm)*

- Dimension with dust cap
- Dimension without dust cap

<table>
<thead>
<tr>
<th>Swinghandle for profile half cylinder, polyamide GF black, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>screw on cap</td>
</tr>
<tr>
<td>with</td>
</tr>
<tr>
<td>with dust cap</td>
</tr>
<tr>
<td>for 40 mm half cylinder <em>(22/24 mm)</em></td>
</tr>
<tr>
<td>for 40 mm half cylinder *(22/24 mm) lead-sealable</td>
</tr>
<tr>
<td>for 45 mm half cylinder <em>(28/30 mm)</em></td>
</tr>
<tr>
<td>with cylinder (Berlin version)</td>
</tr>
</tbody>
</table>

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

for 40 mm half cylinder *(22/24 mm) lead-sealable | - | 1225-U190-01 | - | 1225-U185-01 |

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

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

Swinghandle with round cylinder incl. stainless steel cap and dust cap or insert, polyamide GF black, shaft zinc die zinc plated, fixing material m.s. zinc plated, with seal

| Round cylinder keyed EK 333 | 1225-U206 | 1225-U207 | 1225-U202 | 1225-U203 | 1225-U208 | 1225-U209 |
| Round cylinder keyed different | 1225-U242 | 1225-U210 | on request | on request | 1225-U211 | on request |
| Square 6 1) | 1225-U243 | 1225-U212 | on request | on request |
| Square 7 1),2) | 1225-U244 | 1225-U213 | on request | on request |
| Square 8 1),2) | 1225-U245 | 1225-U214 | on request | on request |
| Square slotted | 1225-U246 | 1225-U215 | 1225-U201 | 1225-U202 |
| Triangular 6,5 CNOMO | 1225-U247 | 1225-U216 | on request | on request |
| Triangular 7 1) | 1225-U248 | 1225-U217 | on request | on request |
| Triangular 8 1),2) | 1225-U249 | 1225-U218 | on request | on request |
| Double bit 3 | 1225-U250 | 1225-U219 | on request | on request |
| Double bit 5 | 1225-U251 | 1225-U220 | on request | on request |
| Hexagon female 10 | 1225-U252 | 1225-U221 | on request | on request |
| Female Square 6 | 1225-U253 | 1225-U222 | on request | on request |
| Female Square 8 | 1225-U254 | 1225-U223 | on request | on request |
| Daimler Benz | 1225-U255 | 1225-U224 | on request | on request |
| Slot 1,2 3 | 1225-U256 | 1225-U225 | on request | on request |
| Slot 2 x 4 1),2) | 1225-U257 | 1225-U226 | on request | on request |
| Crown type | 1225-U258 | 1225-U227 | on request | on request |
| Eastern Europe Ø13 half round | 1225-U282 | 1225-U283 | on request | on request |
| Prepared for padlock and profile cylinder | - | 1225-U184 | - | on request |
Swinghandle for profile half cylinder

- PUR-foamed seal
- Rod control
- Door centre
- Cut out
- Screw on cap

Swinghandle with sliding dust cover

- PUR-foamed seal
- Rod control
- Door centre
- Cut out
- Screw on cap

Swinghandle with round cylinder or insert

- PUR-foamed seal
- Rod control
- Door centre
- Cut out
- Screw on cap

Further parts see page
- Key 11B-120
- Rod control 3YA-120
- Bearing bush 3YA-140
- Profile half cylinder 3XB-120

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

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Rod control for flat rods

**PROGRAM 1185**

1. Quarter turns

2. Rod controls

3. Locking systems

**Further parts see page**
- Rods
  - Outside: 3ZA-120, 3ZA-320
  - Inside: 3ZB-120, 3ZB-220
- Cam: 3YA-820

**Program 1185**
- Swinghandle: Page 43

**3YA-320**

**Rod control zinc die, rods m.s. zinc plated**

See general catalogue for parts without standard page numbers (e.g., 18-105).
Rod control for steel cams

PROGRAM 1107, 1125, 1225, 2100

Attention:
when using the rod control the
H-dimension increases by 2 mm

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

Program 1107
– Rod
  – inside 3ZB-120
  – Swinghandle 3A-120, 3A-140, 3A-320, 3A-360

Program 1125
Double cylinder
– Rod on request
– Swinghandle (Version B) 3B-320

Program 1125, 1225, 2100
– Rod
  – inside 3ZB-120
  – Bearing bush 3YB-120, 3YB-140

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Catches

PROGRAM 1125 - 2600

4 different fixing possibilities


Further parts see page
- 2D-nut 12E-120
Program 1125, 1150, 1160, 1180, 1185, 1190, 1225, 2100
- Rods 3ZA-120
Program 1160
- Lock rods 3ZA-420
Program 1180
- Lock rods 3ZA-520
Program 1185
- Rods Page 42
Program 2300
- Rods 3ZA-620
Program 2400
- Rods 3ZA-720 3ZA-820
Program 2600
- Rods 3ZA-920

Supplement to

3ZA-1220 02/09

Catch interchangeable with hinge 120° catalogue page 4A-190

Cut out

**Catch PA 6,6 G F 50 black for twisted rod**
- for counter sunk screw M6 (2D-nut applicable) (2) 1121-70-04SK
- Catch zinc die black powder coated for twisted rod
  - with M6 female thread (1) 1121-70-01
  - for counter sunk screw M6 (2D-nut applicable) (2) 1121-70
  - with clamping pin, polyamide black, Ts = 2,0 (3) 1121-U137
  - with M10 outside threat, nut m.s. zinc plated (3) 1121-U152

See general catalogue for parts without standard page numbers (e.g., 18-105).
Rod guide clip-in type for flat rod 3x14

**PROGRAM 1107 - 2600**

Pull-out force: \( F_{\text{min}} = 350 \, \text{N} \)
Application force: Typical factor \( F = 135 \, \text{N} \)

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

---

1. Assembling of rod guide on weld stud
2. Assembling of flat rod into rod guide
3. Rod guide pre-assembled

Flat rod and weld stud shown transparent

---

Further parts see page

**Program 1107**
- Rods
  - 3ZB-320

**Program 1125**
- Rod control
  - 3YA-140
  - Rods
    - up to 3ZA-120
    - 3ZA-340
    - 3ZB-120
    - 3ZB-220
    - 3ZB-420
    - 3ZB-440

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

**Program 1180**
- Rods
  - up to 3ZA-120
  - 3ZA-320
  - 3ZA-420
  - 3ZB-120
  - 3ZB-220

**Program 1185**
- Rods
  - up to 3ZA-120
  - 3ZA-240
  - 3ZA-340
  - 3ZB-120
  - 3ZB-220
  - 3ZB-520
  - 3ZB-540

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

**Program 1225**
- Rod control
  - 3YA-140
  - Rods
    - up to 3ZA-120
    - 3ZA-340
    - 3ZB-120
    - 3ZB-220
    - 3ZB-420
    - 3ZB-440

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

**Program 2300**
- Rods
  - 3ZA-420
  - 3ZB-120
  - 3ZB-220

**Program 2400**
- Rods
  - 3ZA-720
  - 3ZB-220

**Program 2600**
- Rods
  - 3ZA-920

---

See general catalogue for parts without standard page numbers (e.g., 1B-105).
**125° hinge with captive pin**

**PROGRAM 1031**

125° hinge for single cabinets for 25 mm door return

---

**125° hinge m.s zinc plated, door part m.s. raw, pin clamping ring POM red**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1031-U12</td>
<td>125° hinge material on choice, pin clamping ring ROM red</td>
</tr>
</tbody>
</table>

---

*not included*


---

See general catalogue for parts without standard page numbers (e.g., 1B-105).
180° screw-on hinge

PROGRAM 1056

Screw-on hinge zinc die or stainless steel, pin stainless steel, for countersunk screw M6 (2D-nut possible)

- Zinc die black p.c.: 1056-U59
- AISI 316: 1056-U59-PH

Further parts see page 12E-120

Supplement to

4B-210

See general catalogue for parts without standard page numbers (e.g., 1B-105).
180° screw-on hinge

Program 1056

Further parts see page 4B-212

See general catalogue for parts without standard page numbers (e.g., 1B-105).
180° screw-on hinge

PROGRAM 1056

<table>
<thead>
<tr>
<th>Screw-on hinge</th>
<th>Zinc die</th>
<th>AISI 316</th>
</tr>
</thead>
<tbody>
<tr>
<td>for countersunk screw studs M8</td>
<td>Zinc die</td>
<td>AISI 316</td>
</tr>
<tr>
<td>LH version</td>
<td>1056-U58</td>
<td>1056-U58-PH</td>
</tr>
<tr>
<td>RH version</td>
<td>1056-U57</td>
<td>1056-U57-PH</td>
</tr>
</tbody>
</table>

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

See general catalogue for parts without standard page numbers (e.g., 1B-105).
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

Stainless steel compression latch
PROGRAM 1000

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

Compression latch with arrow and red - green mark AISI 316, with spring and flat seal
- Square 8 right-hand version 1000-U834-REPH
- Square 8 left-hand version 1000-U834-LIPH

Compression latch AISI 316, with spring and gasket
- Square 8 with mark 1000-U755-01
- Double bit 3 1000-U749-01
- Double bit 5 1000-U748-01
- Slot 2 x 4 1000-U777-01

Cam AISI 304

<table>
<thead>
<tr>
<th>H</th>
<th>GH = 31</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>1000-221</td>
</tr>
<tr>
<td>23</td>
<td>1000-223</td>
</tr>
<tr>
<td>27</td>
<td>1000-225</td>
</tr>
<tr>
<td>31</td>
<td>1000-227</td>
</tr>
<tr>
<td>33</td>
<td>1000-228</td>
</tr>
<tr>
<td>35</td>
<td>1000-179</td>
</tr>
<tr>
<td>37</td>
<td>1000-229</td>
</tr>
<tr>
<td>39</td>
<td>1000-230</td>
</tr>
<tr>
<td>41</td>
<td>1000-180</td>
</tr>
</tbody>
</table>

Note:
Further inserts on request

Further parts see page
- Accessories 1C-320
- Escutcheon 3B-140
- Key Page 72

See general catalogue for parts without standard page numbers (e.g., 1B-105).
**Handle stainless steel**

**PROGRAM 1000**

### Wingknob quarter turn AISI 316, with seal

<table>
<thead>
<tr>
<th></th>
<th>non locking</th>
<th>keyed EK 333</th>
<th>keyed different</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1000-U665</td>
<td>1000-U150-PH</td>
<td>1000-U151-PH</td>
</tr>
</tbody>
</table>

### T-handle quarter turn AISI 316, with seal

<table>
<thead>
<tr>
<th></th>
<th>non locking</th>
<th>keyed EK 333</th>
<th>keyed different</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1000-U664</td>
<td>1000-U10-PH</td>
<td>1000-U11-PH</td>
</tr>
</tbody>
</table>

### L-handle quarter turn AISI 316, with seal

<table>
<thead>
<tr>
<th></th>
<th>non locking</th>
<th>keyed EK 333</th>
<th>keyed different</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1000-U658</td>
<td>1000-U15-PH</td>
<td>1000-U16-PH</td>
</tr>
</tbody>
</table>

Each cylinder with one key
silver steel with polyamide grip
black

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Stainless quarter turn for padlock; Stainless quarter turn ring handle

PROGRAM 1000, 1098

Further parts see page
– Cam 8A-320

Ring-handle quarter turn AISI 316
1098-U2

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Stainless steel 2-point rod control

**PROGRAM 1000**

2-point rod control for cams program 1000 AISI 316

See general catalogue for parts without standard page numbers (e.g., 1B-105).

Further parts see page
- Cam 8A-320
- Rod 8A-360

1000-U776-PH
Stainless steel escutcheon with insert

**PROGRAM 1125**

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

**Further parts see page**
- Key
  - Page 72
- Rod control for long version
  - Page 65
- Version short
  - Page 64
- Bearing bush
  - Page 61

<table>
<thead>
<tr>
<th>Escutcheon AISI 316, cap polyamide GF black (only for escutcheon long version)</th>
<th>Escutcheon long</th>
<th>Escutcheon short</th>
</tr>
</thead>
<tbody>
<tr>
<td>for square, triangular, double bit, Daimler-Benz, slot</td>
<td>1121-U133-6PH</td>
<td>1121-U22-6PH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Insert AISI 316, fixing material stainless steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square 6</td>
</tr>
<tr>
<td>Square 7</td>
</tr>
<tr>
<td>Square 8</td>
</tr>
<tr>
<td>Triangular 6,5 CNOMO</td>
</tr>
<tr>
<td>Triangular 7</td>
</tr>
<tr>
<td>Triangular 8</td>
</tr>
</tbody>
</table>

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Stainless steel bearing bush, stainless steel rod guide

**PROGRAM 1121, 1125**

- **1 Quarter turns**
- **2 Rod controls**
- **3 Locking systems**
- **4 Hinges**
- **5 Gasketing**
- **6 Handles**
- **7 Aluminium windows**
- **8 Stainl. steel**

**Further parts see page**
- Rod control for cam
- Rods
- Program 1125
- Escutcheon
- Swinghandle

**Bearing bush AISI 316**
for Ts 2,0
1125-81-020PH

**Order separately:**
Adapter AISI 316, fixing material stainless steel
for swinghandle
1125-U284-PH
for escutcheon
1125-U286-PH

**Rod guide AISI 316 for weld studs or countersunk screw**
1121-U71-PH

See general catalogue for parts without standard page numbers (e.g. 1B-105).
**Stainless steel rod control**

**PROGRAM 1125, 1150**

**Attention:**
By using the rod control the H-dimension of the cam increases by 2 mm

**Attention:**
Use only rod with eye!

**Further parts see page**
- Cam 8A-320
- Rod 8A-360
  (not for swinghandle 1154 with WK2)

**Program 1091**
- Heavy duty latch Page 66

**Program 1125**
- Bearing bush Page 61
- Swinghandle 1154 8A-620
- Swinghandle 1154 with WK2 Page 63

**Note:**
Rod for rod control combined with swinghandle 1154 with WK 2 on request only!

**Stainless steel rod control AISI 316**

**1107-U246-PH**

**Stroke 18 mm**

**Attention:**
By using the rod control the H-dimension of the cam increases by 2 mm

**Note:**
Rod for rod control combined with swinghandle 1154 with WK 2 on request only!

**Stroke 35 mm**

**Note:**
Rod for rod control combined with swinghandle 1154 with WK 2 on request only!

**Rod control AISI 316**

**1150-U57**

See general catalogue for parts without standard page numbers (e.g., 18-105).
Stainless steel swinghandle 1154 with WK2

**PROGRAM 1150**

Suitable for profile half cylinder (Length A=30) DIN 18252 (EN1303)

The swinghandle meets the demands of WK 2 resistance classification according to DIN EN 1627 - 1630

The swinghandle meets the demands of WK 2 resistance classification according to DIN EN 1627 - 1630

**Further parts see page**
- Cam (GH=18) 3YC-120
- Rod control for cam
- Profile half cylinder 3XB-120

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Stainless steel rod control

**PROGRAM 1125, 1225**

Further parts see page
- Rods
  - inside 3ZB-120
  - inside 3ZB-220
- Earthing device 3YA-720

**Program 1125**
- Escutcheon short Page 60
  - 8A-520
  - 3B-120
  - 3B-180

**Program 1225**
- Escutcheon short 3G-120
  - 3G-180

**Rod control box and rods AISI 316**

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Stainless steel rod control

PROGRAM 1125, 1150, 1225

Further parts see page
- Rods
  - outside 3ZA-120
  - inside 3ZB-120
- Earthing device 3YA-720

Program 1125
- Escutcheon long 8A-520
  - Swinging 3B-120
  - Swinging 3B-180
  - Swinghandle 8A-660
  - Swinghandle 3B-220
  - Swinghandle 3B-420

Program 1150
- Swinging handle 1150 with universal escutcheon 3C-320
- Swinging handle 1153 3C-320

Program 1225
- Escutcheon long 3G-120
  - Swinging 3G-180
  - Swinghandle 3G-220
  - Swinghandle 3G-420

See general catalogue for parts without standard page numbers (e.g. 1B-105).
Stainless steel heavy duty latch

PROGRAM 1091

Further parts see page
- Cam 8A-320
- Rod control for cam Page 62

Heavy duty latch AISI 316

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Stainless steel hinge with captive pin

**PROGRAM 1031**

125° hinge for single cabinets with 16 mm door return

125° hinge AISI 304, pin clamping ring POM red

1031-U13

115° hinge for single cabinets with 25 mm door return

115° hinge AISI 304

1031-U14

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Stainless steel - 180° Screw-on hinge

**PROGRAM 1056**

**Screw-on hinge AISI 316, washer and pin stainless steel**

for countersunk screw M5

<table>
<thead>
<tr>
<th>Version</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH version</td>
<td>1056-U54-PH</td>
</tr>
<tr>
<td>RH version</td>
<td>1056-U53-PH</td>
</tr>
</tbody>
</table>

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

**Screw-on hinge AISI 316, washer and pin stainless steel**

for countersunk screw M6 (2D-nut possible)

<table>
<thead>
<tr>
<th>Version</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH version</td>
<td>1056-U56-PH</td>
</tr>
<tr>
<td>RH version</td>
<td>1056-U55-PH</td>
</tr>
</tbody>
</table>

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

See general catalogue for parts without standard page numbers (e.g., 18-105).
Stainless steel - 180° Screw-on hinge

**PROGRAM 1056**

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel - 180° Screw-on hinge AISI 316, washer and pin stainless steel</td>
<td>1056-U58-PH</td>
</tr>
<tr>
<td>for countersunk screw M8</td>
<td></td>
</tr>
<tr>
<td><strong>LH version</strong></td>
<td></td>
</tr>
<tr>
<td><strong>RH version</strong></td>
<td></td>
</tr>
<tr>
<td>Screw-on hinge AISI 316, pin stainless steel, for</td>
<td>1056-U59-PH</td>
</tr>
<tr>
<td>countersunk screw M6</td>
<td></td>
</tr>
<tr>
<td>(2D-nut possible)</td>
<td></td>
</tr>
</tbody>
</table>

Further parts see page 12E-120

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Stainless steel - 180° 2D-Screw-on hinge

**PROGRAM 1054**

- **2D-Screw on hinge AISI 316, washer and pin stainless steel**
- **Small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047**
- **Countersunk screw small head M6x...**
- **Height adjustment ±4 mm**

* not included

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Stainless steel - 180° Screw-on hinge
Stainless steel hinge

**PROGRAM 1033, 1054**

**Screw on hinge AISI 316, bushes polyamide**

1054-U5-PH

* not included

**not included**

**see general catalogue for parts without standard page numbers (e.g., 1B-105).**
Stainless steel key
Stainless steel bow-type handle

PROGRAM 1004, 1095

**Key AISI 304**

<table>
<thead>
<tr>
<th>Key</th>
<th>Form</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>G</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square 7</td>
<td>1004-01-PC</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Square 8</td>
<td>1004-02-PC</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Triangular 6,5 CNOMO</td>
<td>1004-26-PC</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Triangular 7</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Triangular 8</td>
<td>1004-04-PC</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Triangular 10</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Double bit 3</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Double bit 5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Square male 8</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Square male 6 – 9,5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Railroad</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Square 8 - 9,</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Square male 6 - 10,5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Bow-type handle AISI 316**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>D</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>116</td>
<td>26</td>
<td>17</td>
<td>51</td>
</tr>
</tbody>
</table>

1095-28-116PH

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Stainless steel telescopic cover stay with push button

**PROGRAM 1097**

**Further parts see page**

- Hinge for example 4A-210

<table>
<thead>
<tr>
<th>Telescopic cover stay AISI 304, push button AISI 303</th>
<th>retracted</th>
<th>extended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension L</td>
<td>213</td>
<td>382</td>
</tr>
</tbody>
</table>

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Stainless steel door stop

PROGRAM 1087

Further parts see page
– Hinge for prominent door
– 2D-nut

Chapter 4
12E-120

Further parts see page

<table>
<thead>
<tr>
<th>W</th>
<th>X</th>
<th>Y</th>
<th>minimal door width</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°</td>
<td>140</td>
<td>180</td>
<td>403</td>
</tr>
<tr>
<td>105°</td>
<td>120</td>
<td>166</td>
<td>389</td>
</tr>
<tr>
<td>120°</td>
<td>110</td>
<td>150</td>
<td>373</td>
</tr>
<tr>
<td>135°</td>
<td>100</td>
<td>146</td>
<td>369</td>
</tr>
</tbody>
</table>

in case of other variations
y = x + 40

Door stop AISI 304, locking bush and rivet AISI 303

1087-U1-PC

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Assembling:
The pull is fitted with clips that automatically snap in behind the door part.

Pull Polyamide GF Black

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ts 0.8 - 1.2 mm</td>
<td>1091-103-01</td>
</tr>
<tr>
<td>Ts 1.2 - 1.6 mm</td>
<td>1091-103-02</td>
</tr>
<tr>
<td>Ts 1.75 - 2.2 mm</td>
<td>1091-103-03</td>
</tr>
</tbody>
</table>

Pulls for other door thickness on request

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Swinghandle 1150 with electromechanical release and emergency opening

**PROGRAM 1150**

This handle is suitable for locking interior cabinets. The release takes place by applying a positive signal of 12 V or 24 V DC. After the handle has been pressed briefly into the dish, it can be opened. The integrated reed contact serves as remote monitoring of the handle condition. To lock the handle it must be pressed into the dish until the closing mechanism clicks into place. The key provided serves to open the handle in case of power failure. For this the cover over the lock cylinder must be removed. The cylinder cover is destroyed therefore it must be replaced.

Further parts see page
- Cams (GH = 18) 3YC-120
- Rod control 3YA-120
- Spare key 12B-140

<table>
<thead>
<tr>
<th>Swinghandle zinc die black, cap and cylinder cover polyamide GF black, shaft AISI 303, round cylinder EK with stainless steel cap and shutter, solenoid with electronics, reed contact and LED, cable (4 m), fixing material m.s. zinc plated, each cylinder EK with one key silver steel with grip polyamide GF black</th>
<th>keyed</th>
<th>keyed different</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solenoid 12V, for rod control</td>
<td>1150-U56</td>
<td>1150-U56-V</td>
</tr>
<tr>
<td>Solenoid 24V, for rod control</td>
<td>1150-U56-01</td>
<td>1150-U56-01V</td>
</tr>
<tr>
<td>Solenoid 12V, for cam</td>
<td>1150-U58</td>
<td>1150-U58-V</td>
</tr>
<tr>
<td>Solenoid 24V, for cam</td>
<td>1150-U58-01</td>
<td>1150-U58-01V</td>
</tr>
<tr>
<td>Cylinder cover polyamide GF black</td>
<td>(spare part)</td>
<td></td>
</tr>
</tbody>
</table>

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Swinghandle 1154 with electromechanical release and emergency opening

PROGRAM 1150

This handle is suitable to lock cabinets in outdoor installation. The release takes place by applying a 48 V DC signal. When the handle has been pressed briefly into the dish, it can be opened. The integrated reed contact serves as remote monitoring of the handle condition. To lock the handle, press it into the dish until the closing mechanism clicks into place. The key provided serves to open the handle in case of power failure. Remove screw M3 to open the cylinder cover. The unlock by round and/or bolt cylinder is now possible.

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

Further parts see page
- Cam (stroke 26) 3YC-120
- Rod on request
- Spare key EK 12B-140
- KABA on request

Swinghandle shown transparent

On release of handle the LED is illuminated.

max. power-on time: 1 minute

See general catalogue for parts without standard page numbers (e.g., 1B-105).
**Recess T-Handle**

**PROGRAM 1130**

- Cam (GH=36) 1C-120
- Attention: When selecting this cam the H-dimension is reduced by 1 mm.

- Spare key 12B-140

**Further parts see page**

**Note:**

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

See picture on the right.

**Recess T-Handle** polyamide GF black, fixing material m.s zinc plated, key m.s nickel plated.

- keyed EK 333 1130-U3
- keyed different 1130-U4

See general catalogue for parts without standard page numbers (e.g., 18-105).
Recess T-Handle with compression function with adjustable Cams

**PROGRAM 1130**

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

See picture on the right.

<table>
<thead>
<tr>
<th>Recess T-Handle polyamide GF black, Housing zinc die, fixing material m.s. zinc plated, with seal, key m.s. nickel plated.</th>
</tr>
</thead>
<tbody>
<tr>
<td>keyed EK 333</td>
</tr>
<tr>
<td>keyed different</td>
</tr>
</tbody>
</table>

Further parts see page on request
- Cam 12B-140
- Spare key 12B-140

See general catalogue for parts without standard page numbers (e.g. 1B-105).
Compression lever latch

Comprision lever latch zinc die black powder coated, locking pin m.s. zinc plated / TP-V, fixing material m.s. zinc plated, round cylinder with stainless steel cap and shutter, with seal. Each cylinder one key silver steel with grip polyamide GF black.

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

Adjustable locking pin

Cut out

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Surface mounted door lock

PROGRAM 1000

1 Quarter turns
2 Rod controls
3 Locking systems
4 Hinges
5 Gaskets
6 Handles
7 Aluminium windows
8 Stainless steel
9 Latches
10 Air-conditioning
11 ELM Security Systems
12 Miscellaneous

Attention:
Insert not included

Catch to be ordered separately

Housing and catch with long slots on request!

Related parts see page 1B-140
– Insert
– Door lock with internal handle or press relief on request

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface mounted door lock black powder coated zinc die, stepped cam zinc die</td>
<td>1000-U779</td>
</tr>
<tr>
<td>for insert</td>
<td></td>
</tr>
<tr>
<td>Catch zinc die black powder coated</td>
<td>1000-488</td>
</tr>
</tbody>
</table>

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Surface mounted door lock

**PROGRAM 1000**

1. Quarter turns
2. Rod controls
3. Locking systems
4. Hinges
5. Gasketing
6. Handles
7. Aluminium windows
8. Stainl. steel
9. Latches
10. Air-conditioning
11. ELM Security Systems
12. Miscellaneous

---

**Catch to be ordered separately**

90° locking stroke with lockable handles

Housing and catches with long slots on request!

Suitable lockable or non lockable T-handles on request!

Further parts see page

Door lock with internal handle or pressure relief on request

---

**Surface mounted door lock** black powder coated zinc die, L-Handle polyamide GF black, stepped cam zinc die, screw zinc plated m.s.,

- non locking: 1000-U780
- keyed EK 333: 1000-U781
- keyed different: 1000-U781-V
- Catch zinc die black powder coated: 1000-488

See general catalogue for parts without standard page numbers (e.g., 1B-105).
Side panel latch

PROGRAM 1091

Further parts see page

- Spare key 12B-140

See general catalogue for parts without standard page numbers (e.g., 1B-105).

Side panel latch polyamide GF black, screw m.s. zinc plated, each cylinder with one key silver steel with grip polyamide GF black.
Key removable in both positions

keyed EK 333 1091-U143
keyed different 1091-U143-01V
Blank 1091-U143-02
Key PROGRAM 1004

<table>
<thead>
<tr>
<th>Key &amp; Form</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<tbody>
<tr>
<td>Square 6</td>
<td>1004-18</td>
<td></td>
<td></td>
<td>1004-20</td>
<td></td>
<td>1004-37</td>
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<tr>
<td>Square 7</td>
<td>1004-01</td>
<td></td>
<td></td>
<td></td>
<td>1004-36</td>
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<td></td>
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<tr>
<td>Square 8</td>
<td>1004-02</td>
<td></td>
<td></td>
<td></td>
<td>1004-35</td>
<td></td>
<td></td>
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<tr>
<td>Triangular 6,5</td>
<td></td>
<td></td>
<td></td>
<td>1004-21</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Triangular 6,5 CNOMO</td>
<td>1004-26</td>
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<td></td>
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<tr>
<td>Triangular 7</td>
<td>1004-03</td>
<td></td>
<td></td>
<td>1004-39</td>
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<tr>
<td>Triangular 8</td>
<td>1004-04</td>
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<td>1004-38</td>
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<td>Triangular 10</td>
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<tr>
<td>Eastern Europe</td>
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<td>1004-42</td>
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<td>Ø13 half round</td>
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<td>1004-42</td>
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<tr>
<td>Double bit 3</td>
<td></td>
<td>1004-05</td>
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<td></td>
<td>1004-34</td>
<td></td>
<td></td>
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<tr>
<td>Double bit 5</td>
<td></td>
<td>1004-06</td>
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<td></td>
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<td>Daimler Benz</td>
<td>1004-17</td>
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<td>1004-41</td>
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<td>FIAT</td>
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<td>1004-41</td>
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<tr>
<td>Square male 6</td>
<td>1004-29</td>
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<td></td>
<td>1004-41</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Square male 8</td>
<td>1004-30</td>
<td></td>
<td></td>
<td>1004-41</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Square male 6 - 9,5</td>
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<td></td>
<td></td>
<td>1004-41</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Hexagon head 8</td>
<td>1004-49</td>
<td></td>
<td></td>
<td>1004-41</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Form H, universal key, polyamide blue**
Square 6, Square male 8, Double bit 5 and Slot insert 1004-48

**Form I, railway version, zinc die black**
Square 8 - 9, square male 6 - 10,5 1004-52

See general catalogue for parts without standard page numbers (e.g., 1B-105).
The EMKA Group: manufacturing expertise

- Development, engineering
- Tool and mould making
- Processing of all Thermoplastics
- Cutting technology
- Bending, punching, and stamping machines
- Die casting technology
- Aluminum forging technology
- Seal technology (foam-in-place)
- Surface coating
- Window manufacturing
- Laboratories
- Assembly
## Mechanical and Electronic Locking Systems for indoor and outdoor enclosures

- Multi-point locking systems
- Keyed alike, keyed different and master key systems
- Swinghandles with combination locking
- polyamide, zinc die, steel or stainless steel
- Swinghandle according to "WK 2" Vandal resistance to DIN ENV 1627-1630
- Latch or bearing bush with cam
- IP 65, NEMA 4 etc. sealing by Foam in Place gasket
- 90° - 270° opening angle
- Rods, rod guides, catches and more

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

## Hinges for surface mounted and flush doors

- Adjacent Lift-off or rapid door removal
- Weld-on, mechanical attachment or quick assembly
- Concealed or exposed hinges
- Polyamide, zinc die, steel or stainless steel
- 90° - 270° opening angle

Refer to EMKA main catalog, chapter 4 and 8

## Wide product range of gasketing and edge protection:

- Latch or bearing bush with cam
- Adjacent Lift-off or rapid door removal
- Weld-on, mechanical attachment or quick assembly
- Concealed or exposed hinges
- Polyamide, zinc die, steel or stainless steel
- 90° - 270° opening angle
- Rods, rod guides, catches and more

Refer to EMKA main catalogue, chapter 5

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

Refer to EMKA main catalog, chapter 7

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