Multifunctional Accessories

Every small detail has a big impact on the entire system, especially when countless accessories fill hundreds of catalog pages. Developing an accessory for every new application fundamentally contradicts our concept of a World-Class product range.

Our accessories are multifunctional and fit not only to an exactly defined component, but to all other components in the entire Modular Automation System.

Cover or fasten
- universally usable Cover or Insert Extrusion
- fits 40 mm and 50 mm extrusions
- suitable for mounting 4 mm to 6 mm thick panels
- covers T-slots and protects against dust and water spray
- suitable for cable routing
- easy to assemble: snap in and go

Everything is possible with a single hinge
- universal hinge fits all applications
- one hinge for all doors
- attachment of non-Robotunits components possible

Fine-tuning and fastening element
- multifunctional Fine-Tuning and Fastening Element
- form-located positioning
- infinitely adjustable
- post-assembly insertion possible

Unique clamping device allows easy attachment of parts
- facilitates mounting of 3 mm-10 mm thick panels without drilling
- clamping device is quickly mounted by inserting it into the slot
- no drilling of panels required
- parts can be reused
- fits 40 mm and 50 mm extrusions

Safety interlocks: quick and secure installation
- quick and safe installation without the need for additional parts
- fits 40 mm and 50 mm extrusions
- easy to install and adjust
- no drilling or preparing of extrusions needed
- IP65 protection class in accordance with TEC 529

Save time, cut cost
- multifunctional accessories reduces your cost of ordering and your inventory overhead
- standard labeling saves even more time in assembly and storage
Multifunctional Accessories

Belt Conveyor Accessories

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<td>Timing Belt Clamp LIN 3221</td>
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<td>Carriage Plate LIN 1501/LIN 2001</td>
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<td>Limit Stop LIL 5191</td>
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<td>Flexible Energy Chain LIL 620_</td>
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<td>Encoder LIN 7501</td>
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<td>Proximity Switch Bracket LIL 8021</td>
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<td>Expanding Coupling LIN 5246</td>
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<td>Coupling LIN 523_</td>
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<tr>
<td>Driveshaft/Encoder Shaft LIN 52_</td>
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<tr>
<td>Expansion Coupling LIN 5246</td>
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<td>Angle Plug with Cable LIN 8312</td>
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<td>Encoder LIN 750_</td>
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<tr>
<td>Connection Shaft with Coupling COL 5240</td>
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<tr>
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<tr>
<td>Encoder LIN 750_</td>
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<tr>
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<tr>
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<td>Encoder LIN 750_</td>
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<tr>
<td>Encoder LIN 750_</td>
<td>156</td>
</tr>
<tr>
<td>Connection Shaft with Couplings COL 52</td>
<td>157</td>
</tr>
</tbody>
</table>
**PIN 4532**

**Roller Retainers**

**Application**
Used for gravity roller conveyors; rollers can be easily integrated into frame or guarding structure.

**Technical Data**
Material: PA composite, fiberglass-reinforced

**Scope of Delivery**

<table>
<thead>
<tr>
<th>Description</th>
<th>PIN 4532</th>
<th>TIN 4506</th>
<th>IBS M06x018</th>
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<tbody>
<tr>
<td>Roller Retainer Kit</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Roller Retainer, 100 pcs.</td>
<td>100</td>
<td>-</td>
<td>-</td>
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**Order Code**

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIN 4533</td>
<td>0.025 kg</td>
</tr>
<tr>
<td>PIN 4532 PAC 0100</td>
<td>2.500 kg</td>
</tr>
</tbody>
</table>

**CCN 0004**

**Speed Controller**

**Application**
Variable frequency drive for controlling motor speed.

**Technical Data**
- Input voltage: 1 x AC 200 - 240 V
- Input frequency: 50/60 Hz
- Output voltage: 3 x 20 - 250 V
- Output frequency: 0 - 500 Hz
- Power output: 0.75 kW
- IP rating: IP66
- Delivery: un-wired

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Weight</th>
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<tbody>
<tr>
<td>CCN 0004</td>
<td>2.300 kg</td>
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</table>
COP 4501
Connection Hub Kit

Application
For connecting adjustable timing belt conveyors

Technical Data
Max. torque: 60 Nm

Scope of Delivery
1 C8T Splined Shaft Clamping Ring
1 C8T Connection Hub
1 Expanding Coupling LIN 5246
3 Screws IBM M05x016

Adjustable Drive Dimensions

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
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<td>Connection Hub Kit</td>
<td>COP 4501</td>
<td>0.550 kg</td>
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</table>

COL 8500
Splined Shaft

Application
For connecting adjustable timing belt conveyors

Technical Data
Max. torque: 60 Nm

Scope of Delivery
1 Splined Shaft, DIN-ISO 14 - 6x16x20

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Length</th>
<th>Weight</th>
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<tr>
<td>Splined Shaft</td>
<td>COL 8500 SNN</td>
<td>-</td>
<td>1.930 kg/m</td>
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</table>

1) Please complete the order code by adding the desired length
Diagram dimensions in mm
PAN _ _ _ _ Weld Mesh

Application
Used for Safety Fencing

Fastening:
• Weld Mesh Clip SSP 4520
• Safety Fence Mesh Retainer SSP 4515

Technical Data
Material: galvanized steel

Design tip:
Standard widths and lengths offer an outstanding price/performance ratio and quick delivery.

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code1)</th>
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<tbody>
<tr>
<td>Weld Mesh, 40x40x4 mm standard</td>
<td>PAN 0461 S4N 1966 3.952 kg</td>
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<tr>
<td>Weld Mesh, 40x40x4 mm standard</td>
<td>PAN 0719 S4N 1966 6.163 kg</td>
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<tr>
<td>Weld Mesh, 40x40x4 mm standard</td>
<td>PAN 0977 S4N 1966 8.375 kg</td>
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<tr>
<td>Weld Mesh, 40x40x4 mm standard</td>
<td>PAN 1450 S4N 1966 12.429 kg</td>
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<tr>
<td>Weld Mesh, 40x40x4 mm</td>
<td>PAN _ _ S4N _ _ 4.36 kg/m²</td>
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</tbody>
</table>

PAN _ _ _ _ Panels

Application
Used for guarding

Fastening:
• Clamping Device PIN 4521
• Cover/Insert Extrusion
  • CAL 4500, CAL 4504, CAL 4510
• Panel Profile CAL 4515, CAL 4517,
  • Corner Piece CAN 4501, CAN 4503

Technical Data
Material: polycarbonate glass or expanded PVC sheets, grey

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Strength</th>
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<tbody>
<tr>
<td>Clear Polycarbonate Glass</td>
<td>4 mm</td>
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<tr>
<td>Clear Polycarbonate Glass</td>
<td>5 mm</td>
</tr>
<tr>
<td>Clear Polycarbonate Glass</td>
<td>6 mm</td>
</tr>
<tr>
<td>Tinted Polycarbonate Glass</td>
<td>4 mm</td>
</tr>
<tr>
<td>Tinted Polycarbonate Glass</td>
<td>5 mm</td>
</tr>
<tr>
<td>Expanded PVC Panel, grey, similar to RAL 7004</td>
<td>6 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear Polycarbonate Glass</td>
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<td>5 mm</td>
</tr>
<tr>
<td>Clear Polycarbonate Glass</td>
<td>6 mm</td>
</tr>
<tr>
<td>Tinted Polycarbonate Glass</td>
<td>4 mm</td>
</tr>
<tr>
<td>Tinted Polycarbonate Glass</td>
<td>5 mm</td>
</tr>
<tr>
<td>Expanded PVC Panel, grey, similar to RAL 7004</td>
<td>6 mm</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Order Code1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
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<tr>
<td>Clear Polycarbonate Glass</td>
</tr>
<tr>
<td>Clear Polycarbonate Glass</td>
</tr>
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<td>Clear Polycarbonate Glass</td>
</tr>
<tr>
<td>Tinted Polycarbonate Glass</td>
</tr>
<tr>
<td>Tinted Polycarbonate Glass</td>
</tr>
<tr>
<td>Expanded PVC Panel, grey, similar to RAL 7004</td>
</tr>
</tbody>
</table>

1) Please complete the order code by adding the desired width and length
Diagram dimensions in mm
### SSP 4520  
**Weld Mesh Clip**

**Application**  
For form-located integration of Weld Mesh panels into an extrusion frame

**Technical Data**  
- Material: PA6 V0  
- Color: RAL 7004 (signal grey)

### Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Weld Mesh Clip</td>
<td>SSP 4520</td>
<td>0.005 kg</td>
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</tbody>
</table>

### SSP 4515  
**Mesh Retainer Kit**

**Application**  
For form-located integration of mesh into extrusion frame  
- Electrically conductive connection between mesh and extrusion frame  
- can be used with non-standard spacing

**Technical Data**  
- Material: steel

**Scope of Delivery**  
- 1 Mesh Retainer SSP 4514  
- 1 Set Screw GST M08x025 (waxed)

Transfer resistance per conductive connection: 0.4 mΩ

**F = max. 2000 N**

Protruding mesh 8 - 12 mm per side

### Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Mesh Retainer Kit</td>
<td>SSP 4515</td>
<td>0.025 kg</td>
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</table>
PIN 452_ Clamping Device

**Application**
For attaching panels to extrusions, usable with 40 mm and 50 mm series extrusions
- Panels do not need to be drilled
- High retention force

**Technical Data**
- Material: PA6, black, galvanized steel
- Load: up to 250 N, perpendicular to slot
- Centerline: 1 - 10 mm
- Protection against inadvertent movement of panels through pretensioning of clamps

**Retention Force**
- Without pin: 200 N
- With pin (SPS 5x20): 1500 N (polycarbonate glass)

**Scope of Delivery**
- 1 PIN Clamping Device Base Part
- 1 PIN Clamping Device Sliding Part
- 1 screw IBS M04x25
- 1 Screw Retainer

**Assembly**
- F = 200 N
- F = max 1500 N
- Drill Ø 5.1 mm
- Fit pin (SPS 5x20)

**Number of clamping devices**

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
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<tr>
<td>Clamping Device Kit</td>
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<td>0.021 kg</td>
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<tr>
<td>Pin</td>
<td>SPS 5x20</td>
<td>0.002 kg</td>
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</table>

1) Please complete the order code by adding the desired length

Diagram dimensions in mm
### CAL 451 Panel Profile

#### Application
For fastening of panels between 1 - 3 mm and 4 - 6 mm thick, also suitable for later installation
- Adequate protection against dust, water spray and noise
- Appealing design

#### Technical Data
Material: impact-resistant PVC with soft lip, grey, UV-resistant, silicone-free
Temperature ranges: -10°C to +60°C
Stock length: 3000 mm

#### Snap in base, apply gasket

#### Fastened panel

*Static load capacity*
for 1m² polycarbonate glass 5 mm thick

### Assembly Instructions

- **Snap in base, apply gasket**
- **Fastened panel**

### Length Calculation

- Detail A: 90° corner piece with 90° corner piece
- Detail B: 90° corner piece with 270° corner piece
- Detail C: 270° corner piece with 270° corner piece

### Order Code

<table>
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<th>Description</th>
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<th>Weight/Meter</th>
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<tr>
<td>Panel Profile, 4 - 6 mm, cut to length</td>
<td>CAL 4515 SNN ____</td>
<td>0.28 kg</td>
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<tr>
<td>Panel Profile, 4 - 6 mm, stock length: 3000 mm</td>
<td>CAL 4515 NNN 3000</td>
<td>0.28 kg</td>
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<tr>
<td>Panel Profile, 4 - 6 mm, 25 rods, stock length: 3000 mm</td>
<td>CAL 4515 PAC 0025</td>
<td>0.28 kg</td>
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<tr>
<td>Panel Profile, 1 - 3 mm, cut to length</td>
<td>CAL 4517 SNN ____</td>
<td>0.28 kg</td>
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<tr>
<td>Panel Profile, 1 - 3 mm, stock length: 3000 mm</td>
<td>CAL 4517 NNN 3000</td>
<td>0.28 kg</td>
</tr>
<tr>
<td>Panel Profile, 1 - 3 mm, 25 rods, stock length: 3000 mm</td>
<td>CAL 4517 PAC 0025</td>
<td>0.28 kg</td>
</tr>
</tbody>
</table>
**CAN 4501 90° Corner Piece**

**Application**
Used as 90° corner trim for panel profiles CAL 4515 and CAL 4517

**Technical Data**
Material: POM, UV-resistant, silicone-free
Temperature Range: -10 °C to +60 °C

**Scope of Delivery**
1 90° Corner Piece Base Part
1 90° Corner Piece Top Part

---

**Length Calculation**

- **Detail A**: 90° corner piece with 90° corner piece
- **Detail B**: 90° corner piece with 270° corner piece
- **Detail C**

---

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
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</thead>
<tbody>
<tr>
<td>90° Corner Piece Kit</td>
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</table>

Diagram dimensions in mm
**270° Corner Piece**

**Application**
Used as 270° corner trim for panel profiles CAL 4515 and CAL 4517

**Technical Data**
Material: PA6, UV-resistant, silicone-free
Temperature Range: -10 °C to +60 °C

**Scope of Delivery**
1 270° Corner Piece Base Part
1 270° Corner Piece Top Part

---

**Assembly Instructions**

A 45° miter cut of the extrusion is necessary if the 270° corner piece is to be used.

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
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</thead>
<tbody>
<tr>
<td>270° Corner Piece Kit</td>
<td>CAN 4503</td>
<td>0.012 kg</td>
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</table>

Diagram dimensions in mm
**TIN 4511**  
**Safety Fence Fastener**

**Application**  
For variable fastening options of safety fence components  
- 90° connections of extrusions and as end cap  
- Strong connection between panels

**Technical Data**  
Material: galvanized steel

**Stable connection between panels**

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>TIN 4510</th>
<th>TIN 4598</th>
<th>IBS M08x016NIKO</th>
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<tbody>
<tr>
<td>Safety Fence Fastener Kit</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Safety Fence Fastener Kit</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

**Scope of Delivery**

1) Packaged in Kit  
2) Packaged by type, available for an order quantity of 100 or more  

**Diagram dimensions in mm**

1) Weight: 0.150 kg  
2) Weight: 0.150 kg
Application
For variable fastening options of safety fence components
• 90° connections of extrusions and as end cap
• Strong connection of panels
• Corner brackets from 90° to 180° pivoting

Technical Data
Material: galvanized steel

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>90° Safety Fence Fastener Kit</td>
<td>TIN 4520 1  TIN 4598 2  IBS M08x016NIKO 2</td>
<td>TIN 4521 1</td>
<td>0.150 kg</td>
</tr>
<tr>
<td>90° Safety Fence Fastener Kit</td>
<td>TIN 4520 1  TIN 4598 2  IBS M08x016NIKO 2</td>
<td>TIN 4521CP 2</td>
<td>0.150 kg</td>
</tr>
</tbody>
</table>

1) Packaged in Kit
2) Packaged by type, available for an order quantity of 100 or more
Diagram dimensions in mm
### SSP 4900 - Bolts

**Application**
For mounting Allround Panels

**Technical Data**
Material: nitrated steel

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 8</td>
<td>SSP 4900</td>
<td>0.010 kg</td>
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<tr>
<td>Ø 7.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ø 6.7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolt</td>
<td>SSP 4900</td>
<td>0.010 kg</td>
</tr>
</tbody>
</table>

### SSP 5500 - Screw Retainer

**Application**
For securing M8 retaining screws (e.g. for Allround Panel)

**Technical Data**
Material: PVC and PA

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 6</td>
<td>SSP 5500</td>
<td>0.001 kg</td>
</tr>
<tr>
<td>Ø 28.2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw Retainer</td>
<td>SSP 5500</td>
<td>0.001 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
**DOR 4501**

**Handle**

**Application**
For use with doors, panels, carts etc.

**Technical Data**
Material: PA/GF composite, galvanized steel

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handle Kit</td>
<td>DOR 4500  TIN 4506  IBS M06x020</td>
<td>DOR 4501</td>
<td>0.100 kg</td>
</tr>
</tbody>
</table>

**DOR 4541**

**Magnet Holder**

**Application**
Closing device for frameless doors

**Technical Data**
Material: POM composite, black, galvanized steel
Retention Force: front 20 N, back 8 N

**Example application**
Swinging door

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnet Holder Kit</td>
<td>DOR 4540  TIN 4506  IBS M06x020NIKO  BLS M006</td>
<td>DOR 4541</td>
<td>0.075 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
DOR 4551 Door Latch

Application
To latch door panels directly to door posts. Door can only be opened by pushing the door latch. Suitable for 40 mm and 50 mm series extrusions.

Technical Data
Material: PA6 30 GF, black, galvanized steel

For extra security.

Secure: Push latch to open door.
Door latch can be secured with a padlock against inadvertent opening. Lock bolt diameter: 7 mm
Door latch can be secured with a padlock against inadvertent closing. Lock bolt diameter: 7 mm

Adjustable pre-tension for optimal retention force. Set screw must always protrude by at least 2 mm.

Application: door latch in 40 mm series
Application: door latch in 50 mm series

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Latch Kit</td>
<td>Base Part 1</td>
<td>DOR 4551</td>
<td>0.100 kg</td>
</tr>
<tr>
<td></td>
<td>TIN 4506 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IBS M06x016NIKO 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BLS M006 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
DOR 4553 Door Catch

Application
To latch door panels directly to door posts. Door can be opened by pulling door handle. Suitable for 40 mm and 50 mm series extrusions.

Technical Data
Material: PA6 30 GF, black, galvanized steel

Application of door latch in 40 mm series
Application of door latch in 50 mm series
Pull to release and open.

Adjustable pre-tension for optimal retention force. Set screw must always protrude by at least 2 mm.

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Catch Kit</td>
<td>Base Part</td>
<td>TIN 4506</td>
<td>IBS M06x016NIKO</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
**DOR 4555 Door Stop**

**Application**
Used as a fixed door stop

**Technical Data**
Material: PA6 30 GK, galvanized steel

---

**DOR 4557 Safety Slide**

**Application**
Prevents inadvertent closing of doors. Suitable for 40 mm and 50 mm series extrusions.

**Technical Data**
Material: galvanized steel; Duroplast

---

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Stop Kit</td>
<td>DOR 4554 1  TIN 4506 2  IBS M06x20 NIKO 2  BLS M006 2</td>
<td>DOR 4555</td>
<td>0.020 kg</td>
</tr>
</tbody>
</table>

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Slide Kit</td>
<td>Base Part 1  TIN 4508 1  GST M08x012 SPI 1</td>
<td>DOR 4557</td>
<td>0.090 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
**DOR 4511**

**Hinge**

**Application**
For hinged structures. Inserts allow for use with 40 mm and 50 mm series extrusions.

**Technical Data**
Material: GD-Zn black, coated, galvanized steel

**Use with 50 mm series**
- Facing outwards

**Use with 40 mm series**
- Turned towards pivot

**Diagram dimensions in mm**

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge Kit</td>
<td>DOR 4510 TIN 4506 IBS M06x016NIKO</td>
<td>DOR 4511</td>
<td>0.222 kg</td>
</tr>
</tbody>
</table>

Tightening torque for M6x16
MA max 8 Nm
**DOR 458_ Safety Interlock**

**Application**
Safety device for doors

**Technical Data**
Material: anodized aluminum, galvanized steel, fiber-glass reinforced thermoplastic housing (-30 to +80°C)

Voltage: 230V/2 A, 1 x N/C contact, 1 x N/O contact

Regulations: IEC 60947-5-1, EN 60947-5-1, DIN VDE 0660-200, BG-GS-ET-15

**Scope of Delivery**
DOR 4580:
1 Base Part
1 Actuator

DOR 4582:
1 Base Part
1 Actuator
1 Ball Retainer

DOR 4581 (Fastening Kit A):
1 Mounting Plate 1
1 Mounting Plate 2
4 Drop-in Nuts TIN 4506
2 Washers BLS M005
2 Screws IBS M05x014
2 Screws SKS M05x010
2 Screws SKS M06x016
2 Screws SKS M06x020

DOR 4583 (Fastening Kit B):
1 Mounting Plate 3
1 Mounting Plate 4
1 Mounting Plate 5
4 Drop-in Nuts TIN 4506
2 Washers BLS M005
2 Washers BLS M006
2 Screws SKS M05x010
2 Screws IBS M05x016
4 Screws SKS M06x016
2 Screws IBS M06x020

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Interlock with Actuator</td>
<td>DOR 4580</td>
<td>0.125 kg</td>
</tr>
<tr>
<td>Safety Interlock with Actuator and Ball Retainer</td>
<td>DOR 4582</td>
<td>0.160 kg</td>
</tr>
<tr>
<td>Fastening Kit A</td>
<td>DOR 4581</td>
<td>0.155 kg</td>
</tr>
<tr>
<td>Fastening Kit B</td>
<td>DOR 4583</td>
<td>0.230 kg</td>
</tr>
</tbody>
</table>

**Additional attachment options for Fastening Kit B DOR 4583:**
PIL 40 x 40 with PIL 50 x 100
PIL 50 x 50 with PIL 40 x 80
**DOL 4034**  
**Guiderail**

**Application**  
For sliding doors

**Technical Data**  
Material: clear, anodized aluminum

Hole spacing = 220 mm  
Max. load = 80 kg

---

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Length</th>
<th>Weight/Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guiderail</td>
<td>DOL 4034 SNN</td>
<td>6000</td>
<td>0.996 kg</td>
</tr>
<tr>
<td>Guiderail of maximum standard length (approx. 6000 mm)</td>
<td>DOL 4034 NNN 6000</td>
<td></td>
<td>0.996 kg</td>
</tr>
</tbody>
</table>

---

**DOR 4031**  
**Roller**

**Application**  
For sliding doors

**Technical Data**  
Material: clear, anodized aluminum, white PA6 composite, galvanized steel

---

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roller Set Kit</td>
<td>DOR 4030  TIN 6010 SKM M10FLA GST M10x050 BLS M010</td>
<td>DOR 4031</td>
<td>0.140 kg</td>
</tr>
</tbody>
</table>

*1) Please complete the order code by adding the desired length  
Diagram dimensions in mm
DOR 4032  Sliding Door Stop

**Application**
Mechanical stop and retainer for sliding door

**Technical Data**
Material: clear, anodized aluminum, galvanized steel, rubber

---

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sliding Door Stop</td>
<td>DOR 4032</td>
<td>0.126 kg</td>
</tr>
</tbody>
</table>

---

DOR 4571  Centering Guide

**Application**
For sliding doors

**Technical Data**
Material: powder-coated steel

---

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Scope of Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centering Guide Kit</td>
<td>DOR 4571</td>
<td>1 1 1</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centering Guide Kit</td>
<td>DOR 4571</td>
<td>0.100 kg</td>
</tr>
</tbody>
</table>
DOR 4573 Slider

**Application**
For sliding doors

**Technical Data**
Material: black POM composite

### Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slider Kit</td>
<td>DOR 4572 1</td>
<td>TIN 4506 1</td>
<td>IBS M06x025 1</td>
</tr>
</tbody>
</table>
DOR 456_ Door Support Castor

**Application**
Roller support for panels, doors

**Technical Data**
Material: clear, anodized aluminum, galvanized steel, rubber

**Scope of Delivery**
Door Support Castor Kit, rigid
DOR 4565:
1 Rigid Castor with Bolt Hole Fitting CAS 2082
1 Bracket for Support Castor
1 Screw IBS M10x020
2 Washers BLS M010
1 Hexagon Nut SKM M10
2 Screws IBS M08x016NIKO
2 Drop-in Nuts TIN 4508
2 Washers BLS M008

Door Support Castor Kit, swivel
DOR 4567:
1 Swivel Castor with Bolt Hole Fitting CAS 2080
1 Bracket for Support Castor
1 Screw IBS M10x030
2 Washers BLS M010
1 Hexagon Nut SKM M10
2 Screws IBS M08x016NIKO
2 Drop-in Nuts TIN 4508
2 Washers BLS M008

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Support Castor Kit, rigid</td>
<td>DOR 4565</td>
<td>0.510 kg</td>
</tr>
<tr>
<td>Door Support Castor Kit, swivel</td>
<td>DOR 4567</td>
<td>0.680 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
DOR 4561 Floor Catch

**Application**
For double door

**Technical Data**
Material: galvanized steel, PA/GF composite

**Scope of Delivery**
1 Floor Catch Base Part
1 Handle DOR 4500
2 Screws M06x020
4 Washers BLS M006
1 Spring-Loaded Pressure Part with Band and Hexagon Socket-Head
GST M06x015FED

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor Catch Kit</td>
<td>DOR 4561</td>
<td>0.545 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm

Catch latches into recess in floor. Bore Ø 14 mm
**LIN 5400**

**Timing Belt Pulley**

**Application**
Drive and idler pulley for Linear Motion Unit, suitable for 50 mm series extrusions.

**Technical Data**
- Material: black anodized aluminum, steel
- Max. drive torque: 60 Nm
- Carriage stroke per revolution: 200 mm
- Pitch circle diameter: 63.66 mm

**Flange plates for motor connection are available upon request.**

**Connection Option LIN 5451**
For connecting to extrusions: 50x50, 50x100 flat, 50x200 flat

**Scope of Delivery**
1 Timing Belt Pulley LIN 5400
1 Fastener 50x50 FAS 5050
2 Centering Inserts FAS 5052
2 Drop-in Nuts TIN 4508
2 Screws IBS M08x020
1 Screw IBS M10x035

**Connection Option LIN 5421**
For connecting to extrusions: 50x200 upright

**Scope of Delivery**
1 Timing Belt Pulley LIN 5400
1 Fastener 50x50 FAS 5050
1 Fastener 50x50 FAS 5050, modified
1 FAS 5052 centering insert
1 Drop-in Nut TIN 4508
1 Screw IBS M08x020
1 Screw IBS M10x035
1 TIN plate for Special Fastener 50 with O ring and screw LKS M10x040

**Connection Option LIN 5411**
For connecting to extrusions: 50x100 upright, 100x100

**Scope of Delivery**
1 Timing Belt Pulley LIN 5400
1 Fastener 50x50 FAS 5050
1 Fastener 50x50 FAS 5050, modified
2 Centering Inserts FAS 5052
2 Drop-in Nuts TIN 4508
2 Screws IBS M08x020
2 Screws SKS M10x035

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timing Belt Pulley</td>
<td>LIN 5400</td>
<td>1.660 kg</td>
</tr>
<tr>
<td>Timing Belt Pulley with Fastening Kit 50</td>
<td>LIN 5451</td>
<td>1.950 kg</td>
</tr>
<tr>
<td>Timing Belt Pulley with Fastening Kit 100</td>
<td>LIN 5411</td>
<td>2.000 kg</td>
</tr>
<tr>
<td>Timing Belt Pulley with Fastening Kit 200</td>
<td>LIN 5421</td>
<td>2.050 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
### LIL 3008 Timing Belt

**Application**
Power transmission from drive to carriage.

**Technical Data/Scope of Delivery**
- Material: PU timing belt, white, PAZ coating on toothed side,
- Max. tensile load: 2000 N
- Recommended pre-tension of timing belt: 0.1 % = approx. 500 N pre-tension
- Timing Belt designation: RPU-8M-30-PAZ

**Timing Belt Length Calculation**
TL (Total Length), SL (Stroke Length), L (Timing Belt Length):
L = 2 x TL - 152 or L = 2 x SL + 928

### Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Weight/Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timing Belt RPU-8M-30-PAZ, cut to length</td>
<td></td>
<td>0.155 kg</td>
</tr>
</tbody>
</table>

### LIN 3221 Timing Belt Clamp Kit

**Application**
For attaching and tensioning the timing belt

**Technical Data**
- Material: black anodized aluminum, stainless steel, galvanized steel
- Max. tensile load: 2000 N

**Scope of Delivery**
- 1 Tensioning Block
- 1 Timing Belt Clamp
- 1 Stop Pin
- 4 Timing Belt Pins
- 2 Screws IBS M06x060
- 1 Drop-in Nut TIN 4508

### Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timing Belt Clamp Kit</td>
<td>0.205 kg</td>
</tr>
</tbody>
</table>

1) Please complete the order code by adding the desired length
Diagram dimensions in mm
**LIN 500_**

**Single Idler**

**Application**
Roller device for Linear Motion Units, integrated felt wipers for cleaning and lubrication.

**Technical Data**
Material: clear or black anodized aluminum, black, tempered steel or galvanized steel, black PA6 composite, pressed felt

**Bearing load capacity per single idler**
Radial: max. 1500 N
Axial: max. 750 N

The carriage is adjusted using the eccentric idlers and an eccentric wrench LIN 9990. Assembly instructions: page 167

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Idler Kit, concentric</td>
<td>LIN 5000 1</td>
<td>LIN 5001</td>
<td>0.375 kg</td>
</tr>
<tr>
<td>Single Idler Kit, eccentric</td>
<td>LIN 5002 1 2 2</td>
<td>LIN 5003</td>
<td>0.375 kg</td>
</tr>
</tbody>
</table>

**LIN 501_**

**Double Idler**

**Application**
Roller device for Linear Motion Units, integrated felt wipers for cleaning and lubrication.

**Technical Data**
Material: clear or black anodized aluminum, black, tempered steel or galvanized steel, black PA6 composite, pressed felt

**Bearing load capacity per double idler**
Radial: max. 3000 N
Axial: max. 1500 N

The carriage is adjusted using the eccentric idlers and an eccentric wrench LIN 9990. Assembly instructions: page 167

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double Idler Kit, concentric</td>
<td>LIN 5010 1 4 4</td>
<td>LIN 5011</td>
<td>0.755 kg</td>
</tr>
<tr>
<td>Double Idler Kit, eccentric</td>
<td>LIN 5012 1 4 4</td>
<td>LIN 5013</td>
<td>0.755 kg</td>
</tr>
</tbody>
</table>
**LIN 9990  Wrench**

**Application**
For adjusting and tightening the eccentric bolt of the Idlers

**Technical Data**
Material: galvanized steel

---

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wrench</td>
<td>LIN 9990 0.177 kg</td>
</tr>
</tbody>
</table>

---

**LIL 5000  Guiderail**

**Application**
Guide rollers can be added later to any 50 mm series extrusions

**Technical Data**
Material: tempered, brushed steel
HRC 58 +3, anodized aluminum

**Scope of Delivery**
Guiderail, Rolled Steel and Aluminum screw IBS M06x012 NIKO

**Tightening torque:** M06x012 NIKO
MA max = 12 Nm

---

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Weight/Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guiderail</td>
<td>LIL 5000 SNN ___</td>
<td>1.105 kg</td>
</tr>
<tr>
<td>Guide rail stock length 6050 mm (usable length 6000 mm)</td>
<td>LIL 5000 NNN 6050</td>
<td>1.105 kg</td>
</tr>
</tbody>
</table>

---

1) Please complete the order code by adding the desired length
Diagram dimensions in mm
**LIN 1501 / LIN 2001**

**Carriage Plate**

**Application**
Carriage Plate for mounting components, assembled with Double Idlers

**Technical Data**
Material: clear, anodized aluminum, black PA6 composite

**Scope of Delivery**
1 Carriage Plate  
2 End Caps CAP 2521

Carriage plate 50 (length 150) = LIL 5010  
Carriage plate 100 (length 200) = LIL 1010

Assembly instructions: page 167

---

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Length</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carriage plate kit 50</td>
<td>150 mm</td>
<td>LIN 1501</td>
<td>1.150 kg</td>
</tr>
<tr>
<td>Carriage plate kit 100</td>
<td>200 mm</td>
<td>LIN 2001</td>
<td>1.530 kg</td>
</tr>
</tbody>
</table>

---

**LIN 5191**

**Limit Stop**

**Application**
Mechanical end stop, prevents pulley damage

**Technical Data/Scope of Delivery**
Material: galvanized steel, rubber

Used in combination with LIN 3221 timing belt clamp.

---

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limit Stop Kit</td>
<td>LIN 5190 TIN 4508 GST M08x012 SPI</td>
<td>LIN 5191</td>
<td>0.036 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
LI_ 620_ Flexible Energy Chain

Application
Guides and protects cables of Linear Motion Unit. Attached directly to Single- or Double Idlers

Technical Data
Material: black PVC, black anodized aluminum or galvanized steel

Fastening Kits B1, B2 and B3

B1 - LIN6203 Fastening Kit
For vertically positioned carriage plate for fastening to the extrusions: 50x100 flat, 50x200 flat, 100x100, 100x200 flat

Scope of Delivery
1 plate for fastening of Flexible Energy Chain
1 holder for fastening of Flexible Energy Chain
1 screw IBS M05x025
2 Screws IBS M06x008
2 Screws IBS M06x016 NIKO
2 Screws SKS M06x016
4 Washers BLS M006
2 Drop-in Nuts TIN 4506

B2 - LIN6205 Fastening Kit
For horizontally positioned carriage plate for fastening to the extrusions: 50x50, 50x100 flat, 50x200 flat

Scope of Delivery
1 bracket for fastening Flexible Energy Chain
1 plate for fastening of Flexible Energy Chain
2 Extrusions 40x40 PIL 4040
2 End Caps CAP 4041
2 Fastener FAS 4041
4 Screws IBS M06x008
2 Screws SKS M06x016
4 Washers BLS M006
2 Drop-in Nuts TIN 4506

B3 - LIN6207 Fastening Kit
For horizontally positioned carriage plate for fastening to the extrusions: 50x100 upright, 100x100

Scope of Delivery
1 bracket for fastening Flexible Energy Chain
1 plate for fastening ofFlexible Energy Chain
2 Extrusions 40x40 PIL 4040
2 End Caps CAP 4041
2 Fastener FAS 4041
4 Screws IBS M06x008
2 Screws SKS M06x016
4 Washers BLS M006
2 Drop-in Nuts TIN 4506

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexible Energy Chain E14 black</td>
<td>LIL 6200</td>
<td>SNN ____</td>
<td>0.36 kg/meter</td>
</tr>
<tr>
<td>Retaining Clamp Set for Flexible Energy Chain</td>
<td>LIN 6201</td>
<td></td>
<td>0.025 kg</td>
</tr>
<tr>
<td>Fastening Kit B1 for Flexible Energy Chain</td>
<td>LIN 6203</td>
<td></td>
<td>0.220 kg</td>
</tr>
<tr>
<td>Fastening Kit B2 for Flexible Energy Chain</td>
<td>LIN 6205</td>
<td></td>
<td>0.645 kg</td>
</tr>
<tr>
<td>Fastening Kit B3 for Flexible Energy Chain</td>
<td>LIN 6207</td>
<td></td>
<td>0.545 kg</td>
</tr>
</tbody>
</table>

1) Please complete the order code by adding the desired length
Diagram dimensions in mm
LIN 8201  Proximity Switch Bracket

**Application**
Used for mounting proximity switch; the idler is the switching surface.

**Technical Data**
Material: black anodized aluminum, galvanized steel

**Attachment of bracket and proximity switch**

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proximity Switch Bracket Kit</td>
<td>LIN 8200 TIN 4508 HKS M08x018 BLS M008</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 8201</td>
<td>0.175 kg</td>
</tr>
</tbody>
</table>

LIN 8310  Proximity Switch

**Application**
Inductive proximity switch controls travel limit. Mounted with Proximity Switch Bracket LIN 8201

**Technical Data**
Switching distance: 4 mm, 24V DC, PNP N/O contact, outer thread M12x1
Material: galvanized steel

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proximity Switch, M12x1</td>
<td>1 1 1 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 8310</td>
<td>0.185 kg</td>
</tr>
</tbody>
</table>

LIN 8312  Angle Plug with Cable

**Application**
Used with Proximity Switch LIN8310 to monitor travel limit.

**Technical Data**
Cable: Length 5 m, Plug: 2 LEDs

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angle Plug with 5 m cable</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 8312</td>
<td>0.020 kg</td>
</tr>
</tbody>
</table>
**LIN 5241  Motor Flange**

**Application**
To attach motor to Timing Belt Pulley

**Technical Data**
Material: clear, anodized aluminum, galvanized steel

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Flange Kit</td>
<td>LIN 5240</td>
<td>IBS M06x20</td>
<td>BLS M006</td>
</tr>
</tbody>
</table>

**LIN 523_ Coupling**

**Application**
To connect motor to drive shaft

**Technical Data**
Material: cast aluminum
Transferable torque: 60 Nm
Tightening torque: 15 Nm

**Scope of Delivery**
LIN 5236:
2 Coupling Halves with Ø 20
1 Coupling Star

LIN 5237:
1 Coupling Half, Ø 10 pre-drilled
1 Coupling Half with Ø 20
1 Coupling Star

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coupling d1 = d2 = 20 mm</td>
<td>LIN 5236</td>
<td>0.360 kg</td>
</tr>
<tr>
<td>Coupling d1 = 20 mm, d2 = 10 pre-drilled</td>
<td>LIN 5237</td>
<td>0.360 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
LIN 52__ Driveshaft/Encoder Shaft

**Application**
To connect Coupling to Timing Belt Pulley

**Technical Data**
Material: stainless steel

Other diameters and lengths possible upon request.

**Installed Dimensions**

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>LIN 5252</th>
<th>LIN 5254</th>
<th>LIN 5248</th>
<th>BLS M020</th>
<th>SIR 020x1.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Drive Shaft Kit</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Double Drive Shaft Kit</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Encoder Shaft</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 5253</td>
<td>0.300 kg</td>
</tr>
<tr>
<td>LIN 5255</td>
<td>0.400 kg</td>
</tr>
<tr>
<td>LIN 5248</td>
<td>0.190 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
**LIN 5246 Expanding Coupling**

**Application**
To connect motor or drive shaft (diameter = 20 mm) with Timing Belt Pulley.

**Technical Data**
- Material: tempered steel
- Transferable torque: 60 Nm
- Tightening torque per screw: 2 Nm
- Shaft tolerance: k6

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expanding Coupling</td>
<td>LIN 5246</td>
<td>0.070 kg</td>
</tr>
</tbody>
</table>
LIN 750 Encoder

**Application**
For fitting to C8T timing belt pulley or LIN timing belt pulley

**Technical Data**
Material: aluminum housing
Speed: max 4000 rpm
Power requirement: 60 mA (10 VDC) 30 mA (24 VDC)
Supply voltage: 10 to 30 VDC
IP rating: IP64
Output: push/pull

**Scope of Delivery**
Encoder Kit LIN 7501
1 Encoder LIN 7500
   including round connector
1 Encoder Shaft LIN 5248
1 Expanding Coupling LIN 5246
1 Torque Arm
2 Screws IBS M06x016 NIKO
1 Clamping Pin SPS 4x12

Encoder LIN 7500
1 Encoder LIN 7500
   including round connector

**Description**
Encoder Kit for Linear Motion Unit LIN 7501
Encoder including round connector

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Encoder Kit for Linear Motion Unit</td>
<td>LIN 7501</td>
<td>0.660 kg</td>
</tr>
<tr>
<td>Encoder including round connector</td>
<td>LIN 7500</td>
<td>0.335 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
**COL 52_0**

**Connection Shaft with Couplings**

**Application**
Shaft for connecting two conveyors or two linear motion units.

**Technical Data**
Material: aluminum, elastomer star

**COL 5220**
- M nom.: 12 Nm
- M max.: 25 Nm
- Tightening torque: 4 Nm

**COL 5240**
- M nom.: 60 Nm
- M max.: 120 Nm
- Tightening torque: 15 Nm

<table>
<thead>
<tr>
<th>D1</th>
<th>D2</th>
<th>D3</th>
<th>D4</th>
<th>A</th>
<th>W</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>12</td>
<td>32</td>
<td>30</td>
<td>15</td>
<td>1.5</td>
<td>34</td>
</tr>
<tr>
<td>20</td>
<td>20</td>
<td>56</td>
<td>60</td>
<td>30</td>
<td>2</td>
<td>63</td>
</tr>
</tbody>
</table>

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection Shaft with Couplings VWZ-30 / d = 12 mm</td>
<td>COL 5220 SNN ___</td>
</tr>
<tr>
<td>Connection Shaft with Couplings VWZ-60 / d = 20 mm</td>
<td>COL 5240 SNN ___</td>
</tr>
</tbody>
</table>

1) Please complete the order code by adding the desired length
Diagram dimensions in mm
**End Cap**

**Application**
Used for covering the ends of extrusions
- Self-centering
- Retained through expanding anchor
- Reusable

**Technical Data**
Material: black ABS V0 composite

---

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>L</th>
<th>W</th>
<th>H</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Cap Kit 16x40</td>
<td>16</td>
<td>40</td>
<td>5</td>
<td>CAP 2 BKS 4x13</td>
<td>CAP 1641</td>
<td>0.002 kg</td>
</tr>
<tr>
<td>End Cap Kit 40x40</td>
<td>40</td>
<td>40</td>
<td>4</td>
<td>1</td>
<td>CAP 4041</td>
<td>0.005 kg</td>
</tr>
<tr>
<td>End Cap Kit 40x80</td>
<td>40</td>
<td>80</td>
<td>4</td>
<td>1</td>
<td>CAP 4081</td>
<td>0.009 kg</td>
</tr>
<tr>
<td>End Cap Kit 80x80 (2 x CAP 4081)</td>
<td>80</td>
<td>80</td>
<td>4</td>
<td>2</td>
<td>CAP 8081</td>
<td>0.018 kg</td>
</tr>
<tr>
<td>End Cap Kit 50x50</td>
<td>50</td>
<td>50</td>
<td>5</td>
<td>1</td>
<td>CAP 5051</td>
<td>0.010 kg</td>
</tr>
<tr>
<td>End Cap Kit 50x100</td>
<td>50</td>
<td>100</td>
<td>5</td>
<td>1</td>
<td>CAP 5011</td>
<td>0.019 kg</td>
</tr>
<tr>
<td>End Cap Kit 50x200 (2 x CAP 5011)</td>
<td>50</td>
<td>200</td>
<td>5</td>
<td>2</td>
<td>CAP 5021</td>
<td>0.038 kg</td>
</tr>
<tr>
<td>End Cap Kit 100x100 (2 x CAP 5011)</td>
<td>100</td>
<td>100</td>
<td>5</td>
<td>2</td>
<td>CAP 1011</td>
<td>0.038 kg</td>
</tr>
<tr>
<td>End Cap Kit 100x200 (4 x CAP 5011)</td>
<td>100</td>
<td>200</td>
<td>5</td>
<td>4</td>
<td>CAP 1021</td>
<td>0.076 kg</td>
</tr>
<tr>
<td>End Cap Kit 25x200</td>
<td>25</td>
<td>200</td>
<td>5</td>
<td>1</td>
<td>CAP 2521</td>
<td>0.022 kg</td>
</tr>
</tbody>
</table>

---

**PIN 4530**

**Application**
To secure cables, hoses, and lines to extrusions using cable ties in x/y direction from the T-slot

**Technical Data**
Material: PA composite fiberglass-reinforced, black

---

**Assembly Instructions**

Rotate cable block into T-slot.

Secure cables or wires with a cable tie

---

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Block</td>
<td>PIN 4530</td>
<td>0.005 kg</td>
</tr>
<tr>
<td>Cable Blocks, 50 pcs.</td>
<td>PIN 4530 PAC 0050</td>
<td>0.240 kg</td>
</tr>
</tbody>
</table>
TIN 4501  Fine-Tuning And Fixing Element

Application
Used for securing and fine tuning component positions. Post insertion possible, can be used with 40 mm and 50 mm series extrusions, e.g.:
- Conveyor Belt Tracking
- Fine adjustment of cross members
- Securing connections

Technical Data
Material: galvanized steel

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine-Tuning and Fixing Element Kit</td>
<td>Base Part</td>
<td>Spring</td>
<td>GST M08x021 SPI GST M08x040</td>
</tr>
</tbody>
</table>

TIN 4501 can also be used for electrical grounding.
**CAL 45__**

**Cover/Insert Extrusion**

**Application**
For covering T-slots and fastening
4 - 8 mm thick panels
- Dust protection
- Splash guard
- Cable routing

**Technical Data**
Material: impact-resistant PVC with soft lip
Stock length: 2000 mm

**Used with panels**

**Diagram dimensions in mm**

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Length</th>
<th>Weight/Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover/Insert Extrusion, black, cut to length</td>
<td>CAL 4500 SNN ____</td>
<td>0.050 kg</td>
<td></td>
</tr>
<tr>
<td>Cover/Insert Extrusion, black, length 2000 mm</td>
<td>CAL 4500 NNN 2000</td>
<td>0.050 kg</td>
<td></td>
</tr>
<tr>
<td>Cover/Insert Extrusion, black, 160 lengths at 2000 mm</td>
<td>CAL 4500 PAC 0160</td>
<td>0.050 kg</td>
<td></td>
</tr>
<tr>
<td>Cover/Insert Extrusion, RAL 1021 yellow, cut to length</td>
<td>CAL 4504 SNN ____</td>
<td>0.050 kg</td>
<td></td>
</tr>
<tr>
<td>Cover/Insert Extrusion, RAL 1021 yellow, length 2000 mm</td>
<td>CAL 4504 NNN 2000</td>
<td>0.050 kg</td>
<td></td>
</tr>
<tr>
<td>Cover/Insert Extrusion, RAL1021 yellow, 160 lengths at 2000 mm</td>
<td>CAL 4504 PAC 0160</td>
<td>0.050 kg</td>
<td></td>
</tr>
<tr>
<td>Cover/Insert Extrusion, RAL 7004 grey, cut to length</td>
<td>CAL 4510 SNN ____</td>
<td>0.050 kg</td>
<td></td>
</tr>
<tr>
<td>Cover/Insert Extrusion, RAL 7004 grey, length 2000 mm</td>
<td>CAL 4510 NNN 2000</td>
<td>0.050 kg</td>
<td></td>
</tr>
<tr>
<td>Cover/Insert Extrusion, RAL 7004 grey, 160 lengths at 2000 mm</td>
<td>CAL 4510 PAC 0160</td>
<td>0.050 kg</td>
<td></td>
</tr>
</tbody>
</table>

1) Please complete the order code by adding the desired length
**CAL 4545**

**Aluminium Cover Extrusion**

**Application**
Used for covering T-slots:
- Dust protection
- Splash guard
- Cable routing

**Technical Data**
Material: anodized aluminum

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code1)</th>
<th>Length</th>
<th>Weight/Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium Cover Extrusion, cut to length</td>
<td>CAL 4545 SNN</td>
<td></td>
<td>0.043 kg</td>
</tr>
<tr>
<td>Aluminium Cover Extrusion, stock length: 2050 mm (usable length 2000 mm)</td>
<td>CAL 4545 NNN 2050</td>
<td>2050</td>
<td>0.043 kg</td>
</tr>
</tbody>
</table>

1) Please complete the order code by adding the desired length

Diagram dimensions in mm

---

**CAL 4540**

**T-Slot Sliding Rail**

**Application**
Simple linear guidance in the T-slot

**Technical Data**
Material: PAS-PE3 composite, black
Stock length: 2000 mm
Temperature ranges:
- -10° to 70° continuous,
- 90° to 100° short-term

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code1)</th>
<th>Length</th>
<th>Weight/Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-Slot Sliding Rail, cut to length</td>
<td>CAL 4540 SNN</td>
<td></td>
<td>0.222 kg</td>
</tr>
<tr>
<td>T-Slot Sliding Rail, stock length: 2000 mm</td>
<td>CAL 4540 NNN 2000</td>
<td>2000</td>
<td>0.222 kg</td>
</tr>
</tbody>
</table>

1) Please complete the order code by adding the desired length

Diagram dimensions in mm

---

**Order Code**

1) Please complete the order code by adding the desired length

Diagram dimensions in mm
CAL 4560 Anti-Slip Profile

Application
- Anti-slip protection for steps (ladders, stairs, etc.)
- Door gasket
- Stops (drawers, doors)
- Travel stops

Technical Data
Material: NBR 80 Shore A
Temperature Ranges:
-30° to 100° continuous,
-50° to 120° short-term

Installation

Sealing Profile Function

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Length</th>
<th>Weight/Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anti-Slip Profile, cut to length</td>
<td>CAL 4560 SNN</td>
<td></td>
<td>0.213 kg</td>
</tr>
<tr>
<td>Anti-Slip Profile roll length 20 m</td>
<td>CAL 4560 PAC 20000</td>
<td></td>
<td>0.213 kg</td>
</tr>
</tbody>
</table>

1) Please complete the order code by adding the desired length
Diagram dimensions in mm

Useful for many purposes!
The Anti-Slip Profile can also be used as a gasket by cutting away the side lips.
Gasket

**Application**
- Door gasket
- Stops/buffers (drawers, doors)

**Technical Data**
- Material: NBR 80 Shore A
- Temperature Ranges:
  - -30° to 100° continuous,
  - -50° to 120° short-term

**Description Length Weight/Meter**
- Gasket, cut to length  CAL 4565 SNN _ _ _ _ _ 0.160 kg

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Length</th>
<th>Weight/Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gasket, cut to length</td>
<td>CAL 4565 SNN _ _ _ _ _</td>
<td></td>
<td>0.160 kg</td>
</tr>
</tbody>
</table>

1) Please complete the order code by adding the desired length

Diagram dimensions in mm
**BAP 205_ Safety Fence Floor Bracket**

**Application**
Floor mount of stands and safety fence panels built with 40 mm series extrusions.

**Technical Data**
Material: steel, gray powder coating
Adjustable height setting: -20/+5 mm

---

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Scope of Delivery</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Fence Floor Bracket</td>
<td>BAP 2050 IBS M08x016NIKO HKS M08x040 BLS M008</td>
<td>BAP 2050</td>
<td>0.568 kg</td>
</tr>
<tr>
<td>Safety Fence Floor Bracket kit</td>
<td>1 - - - -</td>
<td>BAP 2051</td>
<td>0.638 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
**BAP 201_ Fixing Bracket**

**Application**
For stabilizing and attaching extrusion structures to floor or ceiling.

**Technical Data**
Material: galvanized steel

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>BAP 2016</th>
<th>TIN 4508</th>
<th>IBS M08x016NIKO</th>
<th>BLS M008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixing Bracket</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fixing Bracket Kit</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAP 2016</td>
<td>0.608 kg</td>
</tr>
<tr>
<td>BAP 2017</td>
<td>0.654 kg</td>
</tr>
</tbody>
</table>

**BAP 2900 Anchor Bolt**

**Application**
For anchoring structures to the floor

**Technical Data**
Material: galvanized steel

Permitted tensile load: 6.7 kN (concrete hardness class C20/25)
Minimum anchor depth: 60 mm

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchor Bolt</td>
<td>BAP 2900</td>
<td>0.055 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
BAS 4008 Leveling Base

Application
Variable height adjustment and Vibration dampening, Includes ball-and-socket joint

Technical Data
Material: galvanized steel; PA 6 composite; rubber
Max. load 1600 N

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leveling Base, M8x40</td>
<td>BAS 4008</td>
<td>0.062 kg</td>
</tr>
</tbody>
</table>

BAS 5010 Leveling Base

Application
Variable height adjustment and Vibration dampening, Includes ball-and-socket joint

Technical Data
Material: galvanized steel; PA 6 composite; rubber
Max. load 2000 N

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leveling Base, M10x50</td>
<td>BAS 5010</td>
<td>0.087 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
BAS 8010  Leveling Base

Application
Variable height adjustment and Vibration dampening, Includes ball-and-socket joint

Technical Data
Material: galvanized steel; PA 6 composite; rubber
Max. load 2800 N

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leveling Base, M10x80</td>
<td>BAS 8010</td>
<td>0.145 kg</td>
</tr>
</tbody>
</table>

BAS 1020  Leveling Base

Application
Variable height adjustment and Vibration dampening, Includes ball-and-socket joint

Technical Data
Material: galvanized steel; PA 6 composite; rubber
Max. load 2800 N

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leveling Base, M20x100</td>
<td>BAS 1020</td>
<td>0.496 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
CAS 0082  Rigid Castor with Plate

**Application**
- Standard solid rubber tires
- For smooth movabilitys

**Technical Data**
- Material: galvanized steel, rubber
- Safe working load: 100 kg

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rigid Castor with Plate 80 mm</td>
<td>0.462 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
CAS 2080
Swivel Castor with Bolt Hole Fitting

Application
Standard solid rubber tires
- Allow for swivel
- For smooth movability

Technical Data
Material: galvanized steel, rubber
Safe working load: 100 kg
Fastening material for end-to-end assembly on the extrusion (not included in the scope of delivery);
PIL 4040: BLSM008S04, IBSM08x035
PIL 5050: BLSM010, IBSM10x040

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swivel Castor with Bolt Hole Fitting 80 mm</td>
<td>CAS 2080</td>
<td>0.489 kg</td>
</tr>
</tbody>
</table>

CAS 2082
Rigid Castor with Bolt Hole Fitting

Application
Standard solid rubber tires
- For smooth movability

Technical Data
Material: galvanized steel, rubber
Safe working load: 100 kg
Fastening material for end-to-end assembly on the extrusion (not included in the scope of delivery);
PIL 4040: BLSM008S04, IBSM08x035
PIL 5050: BLSM010, IBSM10x040

Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rigid Castor with Bolt Hole Fitting 80 mm</td>
<td>CAS 2082</td>
<td>0.317 kg</td>
</tr>
</tbody>
</table>

Diagram dimensions in mm
**CAS 1080**  
Swivel Castor with Plate And Brake

**Application**
- Standard solid rubber tires
- Allow for swivel
- For smooth movability

**Technical Data**
- Material: galvanized steel, rubber
- Safe working load: 100 kg

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS 1080</td>
<td>0.716 kg</td>
</tr>
</tbody>
</table>

**Diagram dimensions in mm**

**CAS 3080**  
Swivel Castor with Bolt Hole Fitting And Brake

**Application**
- Standard solid rubber tires
- Allow for swivel
- For smooth movability

**Technical Data**
- Material: galvanized steel, rubber
- Safe working load: 100 kg
- Fastening material for end-to-end assembly on the extrusion (not included in the scope of delivery);
- PIL 4040: BLSM008S04, IBSM08x035
- PIL 5050: BLSM010, IBSM10x040

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS 3080</td>
<td>0.597 kg</td>
</tr>
</tbody>
</table>

**Diagram dimensions in mm**
Base and Transport Plate

**Application**

Used for attaching leveling bases or other transportation devices.

**Technical Data**

Material: galvanized steel

<table>
<thead>
<tr>
<th>Description</th>
<th>L</th>
<th>W</th>
<th>X</th>
<th>Z !</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base and Transport Plate 40x80, no thread</td>
<td>80</td>
<td>40</td>
<td>40</td>
<td>IBS M08x020</td>
<td>BAP 4078</td>
<td>0.343 kg</td>
</tr>
<tr>
<td>Base and Transport Plate 40x80, M20 thread</td>
<td>80</td>
<td>40</td>
<td>40</td>
<td>IBS M08x020</td>
<td>BAP 4080</td>
<td>0.312 kg</td>
</tr>
<tr>
<td>Base and Transport Plate 80x80, no thread</td>
<td>80</td>
<td>80</td>
<td>40</td>
<td>IBS M08x020</td>
<td>BAP 8078</td>
<td>0.682 kg</td>
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<tr>
<td>Base and Transport Plate 80x80, M20 thread</td>
<td>80</td>
<td>80</td>
<td>40</td>
<td>IBS M08x020</td>
<td>BAP 8080</td>
<td>0.655 kg</td>
</tr>
<tr>
<td>Base and Transport Plate 50x100, no thread</td>
<td>100</td>
<td>50</td>
<td>50</td>
<td>IBS M10x025</td>
<td>BAP 5008</td>
<td>0.533 kg</td>
</tr>
<tr>
<td>Base and Transport Plate 50x100, M20 thread</td>
<td>100</td>
<td>50</td>
<td>50</td>
<td>IBS M10x025</td>
<td>BAP 5010</td>
<td>0.503 kg</td>
</tr>
<tr>
<td>Base and Transport Plate 100x100, no thread</td>
<td>100</td>
<td>100</td>
<td>50</td>
<td>IBS M10x025</td>
<td>BAP 1008</td>
<td>1.049 kg</td>
</tr>
<tr>
<td>Base and Transport Plate 100x100, M20 thread</td>
<td>100</td>
<td>100</td>
<td>50</td>
<td>IBS M10x025</td>
<td>BAP 1010</td>
<td>1.018 kg</td>
</tr>
</tbody>
</table>

1) Not included in the scope of delivery

Diagram dimensions in mm
**Application**

Allen Key with ball head for manual tightening the hex socket head cap screws for 40 and 50mm series fasteners. A plastic sleeve prevents damage to the edges of the T-slot.

**Technical Data**

Material: high-quality, plastic-coated tool steel

<table>
<thead>
<tr>
<th>Description</th>
<th>SW</th>
<th>d</th>
<th>D</th>
<th>L1</th>
<th>L2</th>
<th>Order Code</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen Key for Hex Socket Head Cap Screws, size 5 mm</td>
<td>5</td>
<td>6</td>
<td>7.5</td>
<td>160</td>
<td>35</td>
<td>EQC10016</td>
<td>0.040 kg</td>
</tr>
<tr>
<td>Allen Key for Hex Socket Head Cap Screws, size 6 mm</td>
<td>6</td>
<td>7</td>
<td>8.5</td>
<td>180</td>
<td>40</td>
<td>EQC10017</td>
<td>0.060 kg</td>
</tr>
</tbody>
</table>
**Application**

1/4” Hex Bit with Ball End, 5 mm

1/4” Hex Bit with Ball End, 6 mm

**Technical Data**

Material: high quality tool steel

**Order Code**

<table>
<thead>
<tr>
<th>Description</th>
<th>SW</th>
<th>D</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4” Hex Bit with Ball End, 5 x 160mm</td>
<td>5</td>
<td>6</td>
<td>0.040 kg</td>
</tr>
<tr>
<td>1/4” Hex Bit with Ball End, 6 x 160mm</td>
<td>6</td>
<td>6.7</td>
<td>0.060 kg</td>
</tr>
</tbody>
</table>