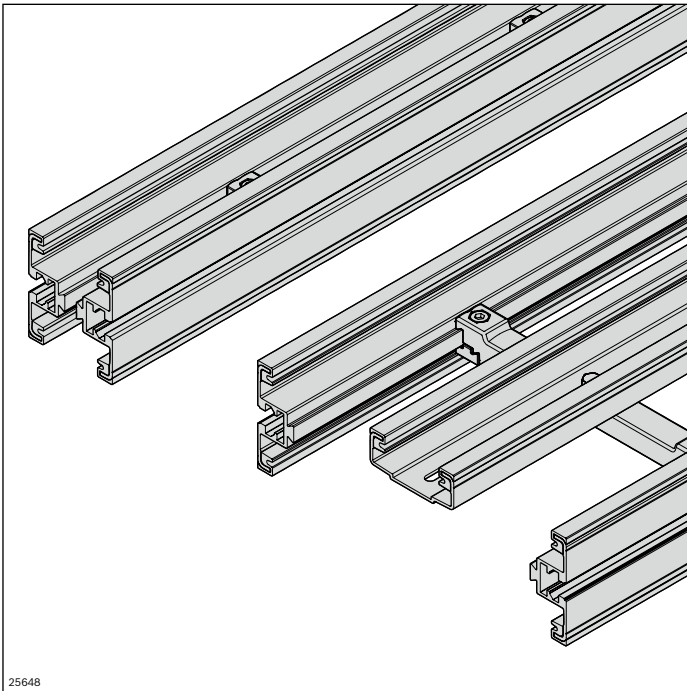








## Sections AL

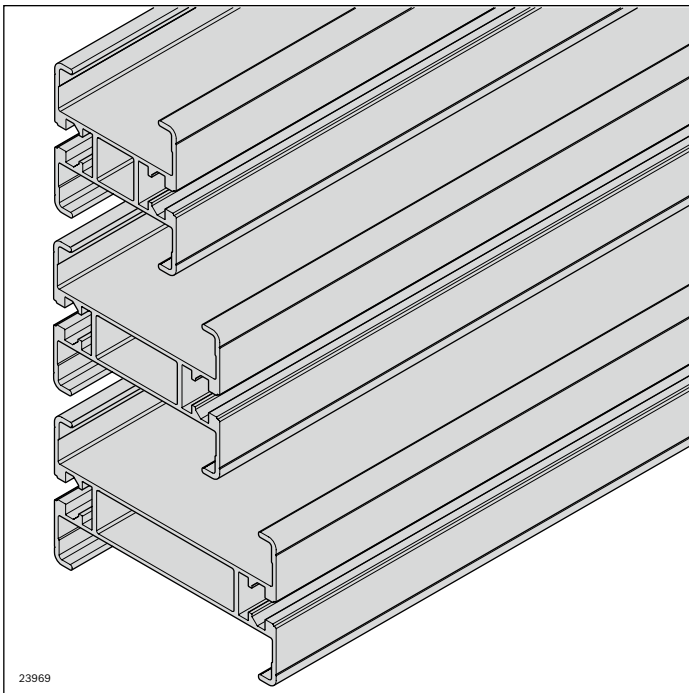


- ▶ Fixing of slide rails without rivets or the need to machine the track bearing surfaces
- ▶ Optimized sliding characteristics and FDA-compliant materials for the slide rail
- ▶ One slide rail cross-section for all sizes
- ▶ Connection technology with plug-through screws
- ▶ Few screwed connections
- ▶ Easy to clean thanks to ample draining surfaces
- ▶ One profile cross-section for open construction in all sizes
- ▶ Closed profile in the sizes 65, 90, 120
- ▶ Use of a support profile from size 160

Simple assembly of sections thanks to smart connection technology

	<b>Section profile AL closed</b>	<b>52</b>
	<b>Section profile AL open</b>	<b>54</b>
	<b>Slide rail</b>	<b>56</b>
	<b>Steel slide rail</b>	<b>58</b>
	<b>Profile connector AL</b>	<b>60</b>
	<b>Assembly module AL</b>	<b>61</b>

## Section profile AL closed



The section profile is the supporting element for the construction of straight conveyor sections and allows for the attachment of all required components.

- Size: 65, 90, 120

- ▶ Slot on the inside for attaching main components such as drive/return unit, curves, etc.
- ▶ Slot on the outside for fastening lateral guides, supports, or other accessories
- ▶ If necessary, lateral mounting of the slide rails with centering grooves as drill guide

- ▶ Special constructions can be attached quickly and simply with components from the modular aluminum framing system through the 10 mm outside slot.

Required accessories:

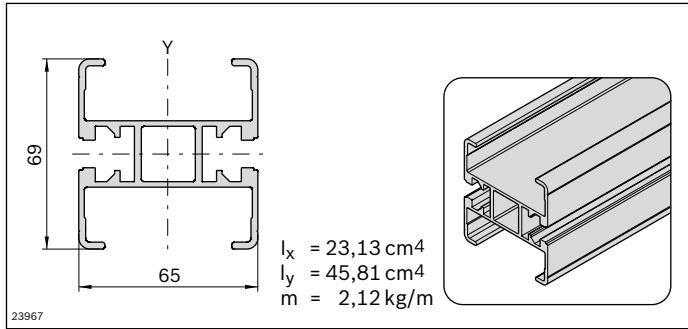
- Slide rail, see page 56
- Profile connector, see p. 60


Optional accessories:

Cover profile, see p. 62

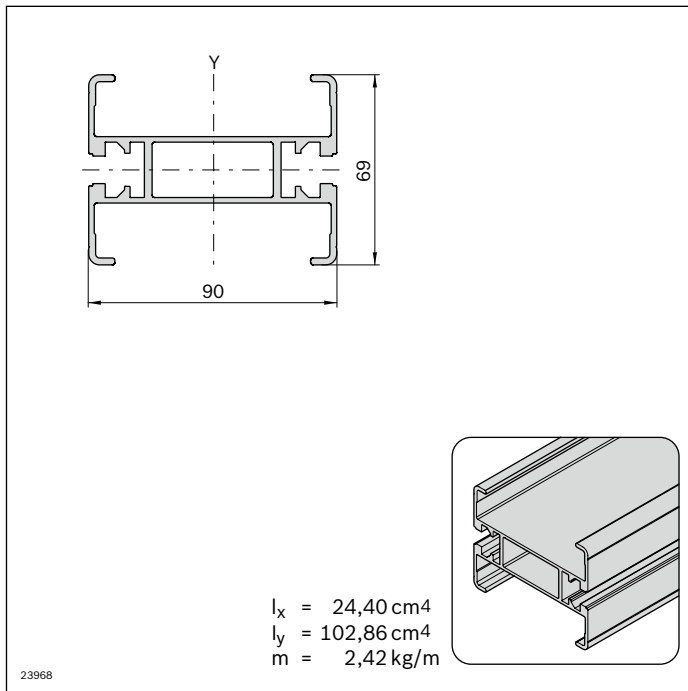
Material:


Aluminum; natural, anodized

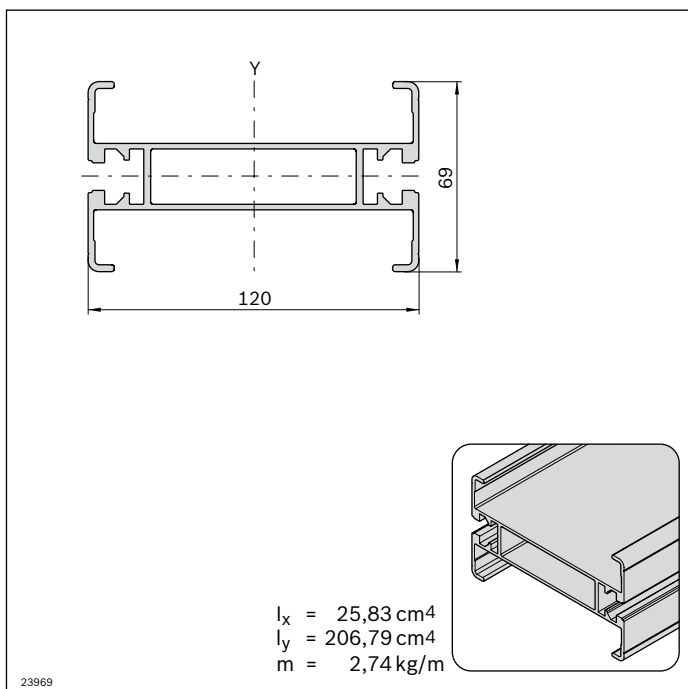



Section profile VFplus 65 AL	L (mm)	No.
 12 pcs	6070	<b>3 842 546 643</b>
1 pcs	50 ... 6000	<b>3 842 996 022/L</b>

3



Section profile VFplus 90 AL	L (mm)	No.
 12 pcs	6070	<b>3 842 546 644</b>
1 pcs	50 ... 6000	<b>3 842 996 023/L</b>

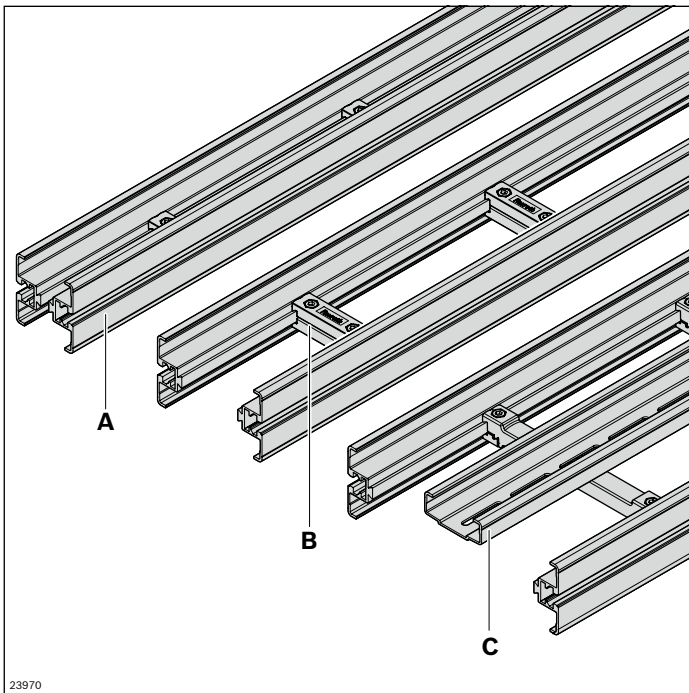


Section profile VFplus 120 AL	L (mm)	No.
 6 pcs	6070	<b>3 842 546 645</b>
1 pcs	50 ... 6000	<b>3 842 996 024/L</b>

# Section profile AL open

## Cross connector AL

## Support profile AL



### AL open section profile (A)

- ▶ Slot on the inside for attaching main components such as drive/return unit, curves, etc.
- ▶ A 10 mm outside slot for simple fastening of lateral guides, leg sets, or components from the modular aluminum framing system
- ▶ If necessary, lateral mounting of the slide rails with centering grooves as drill guide

#### Required accessories:

**A:** Cross connector, see p. 54; slide rail, see p. 56; profile connector, see p. 60; support profile from size 160, see p. 55

#### Optional accessories:

**A:** Cover profile, see p. 62

The open construction of the section profile (**A**) allows dirt or foreign particles to be removed directly. Two open section profiles, linked by cross connectors, are needed to construct a conveyor section. A support profile is necessary for sizes 160 and over.

- Same profile cross-section across all sizes (65-320)

The cross connector (**B**) is the connection of two profile halves to make an open section profile. Using cross connectors of different lengths determines the size.

From size 160, a support profile (**C**) is required. The support profile is fastened to the existing cross connectors.

### Cross connector AL (B)

- ▶ Cross connector with mounting option for support profile

### Support profile AL (C)

- ▶ Elongated holes at regular intervals for fastening

#### Scope of delivery:

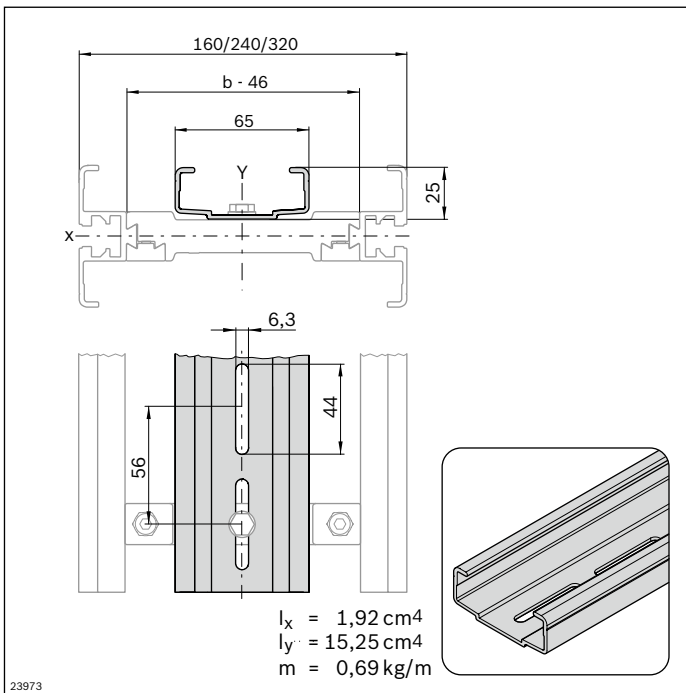
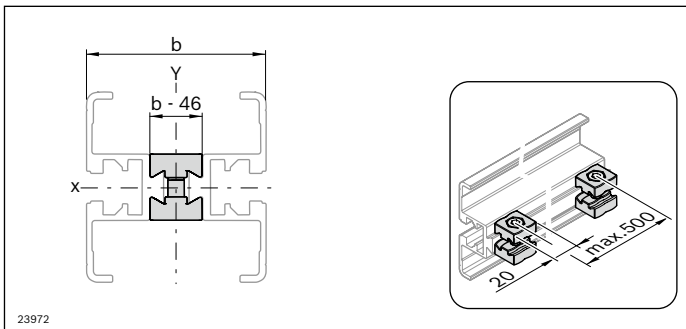
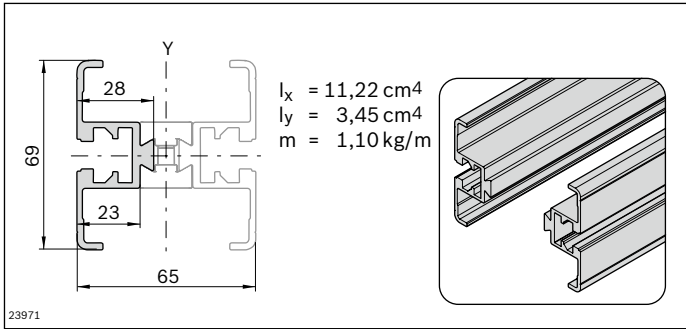
**B:** Complete, incl. screw for attaching the support profile



#### Condition on delivery:


**A, B:** Not assembled


#### Material:

- **A, C:** Aluminum; natural, anodized
- **B:** Aluminum, die-cast

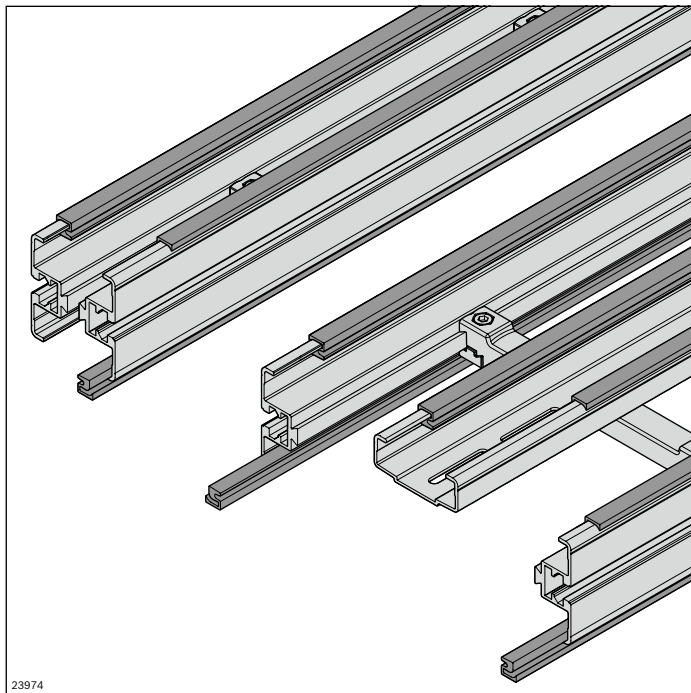


Section profile VFplus AL open	L (mm)	No.
 12 pcs	6070	<b>3 842 546 647</b>
 2 pcs	3000	<b>3 842 546 670</b>
1 pcs	50 ... 6000	<b>3 842 996 026/L</b>

Cross connector AL	b (mm)	 No.
VFplus 65	65	10 <b>3 842 546 672</b>
VFplus 90	90	10 <b>3 842 546 673</b>
VFplus 120	120	10 <b>3 842 546 674</b>
VFplus 160	160	10 <b>3 842 546 675</b>
VFplus 240	240	10 <b>3 842 546 676</b>
VFplus 320	320	10 <b>3 842 546 677</b>

Support profile VFplus AL	L (mm)	No.
 12 pcs	6070	<b>3 842 546 705</b>
1 pcs	3000	<b>3 842 547 904</b>
1 pcs	75 ... 6000	<b>3 842 996 028/L</b>

## Slide rail



- ▶ Easy assembly - simply clip onto the section profile
- ▶ Secured against axial shifting with lateral screw fittings
- ▶ Gliding surface machining: not required
- ▶ Material
  - Premium, Advanced slide rails: FDA CFR 21
  - with Basic slide rail: EU 10/2011, FDA CFR 21
- ▶ One cross-section for all AL and STS section profiles

### Required accessories:

- Slide rail assembly tool, see page 264
- Sheet metal screw 2.9x9.5 DIN 7982;  
DIN EN ISO 7050 see page 57  
1 screw for each slide rail section

### Material:

PE-UHMW

The slide rail is clipped into the section profile and guides the conveyor chain.

Lateral securing means the gliding surface does not need to be machined. Abrasion and noise levels are thus reduced to a minimum.

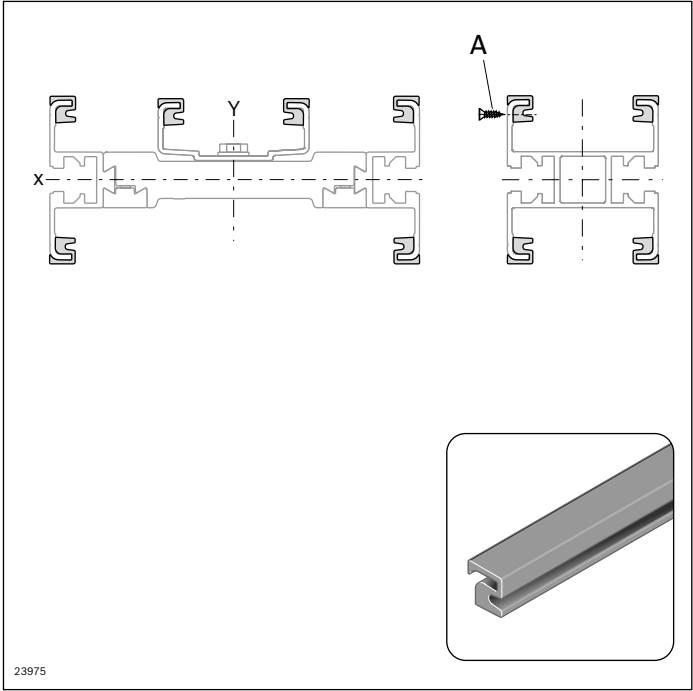
Three slide rails with different main areas of application are available:



- Basic: straight sections and curve wheels,  $v_{\max}$  60 m/min
- Advanced: Sections with sliding curves,  $v_{\max}$  60 m/min, cleanroom
- Premium: Sections with sliding curves,  $v_{\max}$  100 m/min, cleanroom

For the selection of slides rails, see the “Technical data” chapter on page 278. See also ESD slide rails on page 178 and steel slide rail on page 58.

Extend the slide rail over the component interfaces to ensure minimum wear and noise emissions. Interruptions to the profile or component connection must be avoided. If an interruption is necessary after 10 m, the slide rail must be attached laterally with a sheet metal screw (**A**).

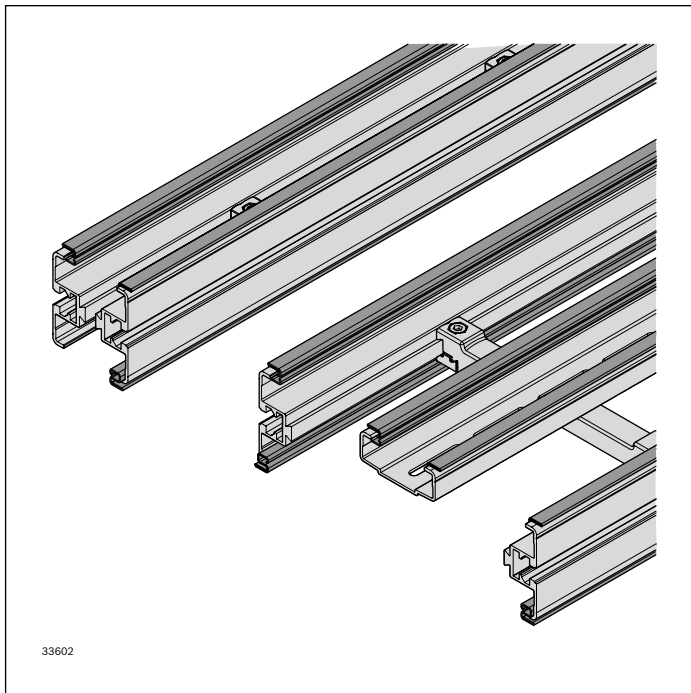
**Note:** After the sliding curves, an interruption is provided as an expansion joint in the inner curve area.



Slide rail VFplus	Color	L (mm)		No.
Premium	gray	30000	1	<b>3 842 546 116</b>
Advanced	white	30000	1	<b>3 842 549 727</b>
Basic	blue	30000	1	<b>3 842 549 730</b>
See also ESD slide rail, see page 178 and steel slide rail, see page 58.				
Sheet metal screw				No.
<b>A</b>			100	<b>3 842 547 908</b>



## Steel slide rail



- ▶ Easy assembly - simply clip onto the section profile
- ▶ Secured against axial shifting via lateral fixing
- ▶ Gliding surface machining: not required
- ▶ One cross-section for all AL and STS section profiles

### Required accessories:

- Pop rivet D3x8 mm, see page 59
- Number of rivets:  
Straight slide rail section: 1 rivet  
90° curve: 3 rivets  
180° curve: 6 rivets

### Material:

Stainless steel

The steel slide rail is suitable for use in abrasive ambient conditions (reduced service life of the conveyor chain). It is clipped in to the section profile and fixed in place at the side via a pop rivet.

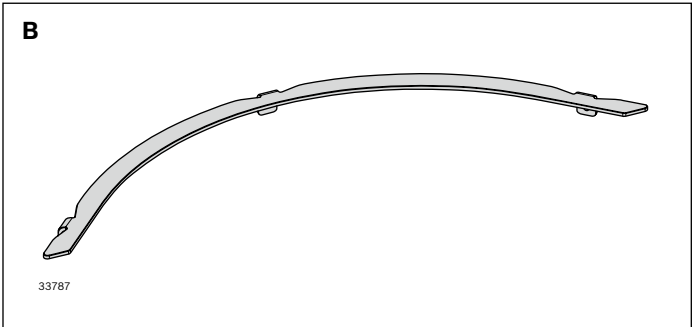
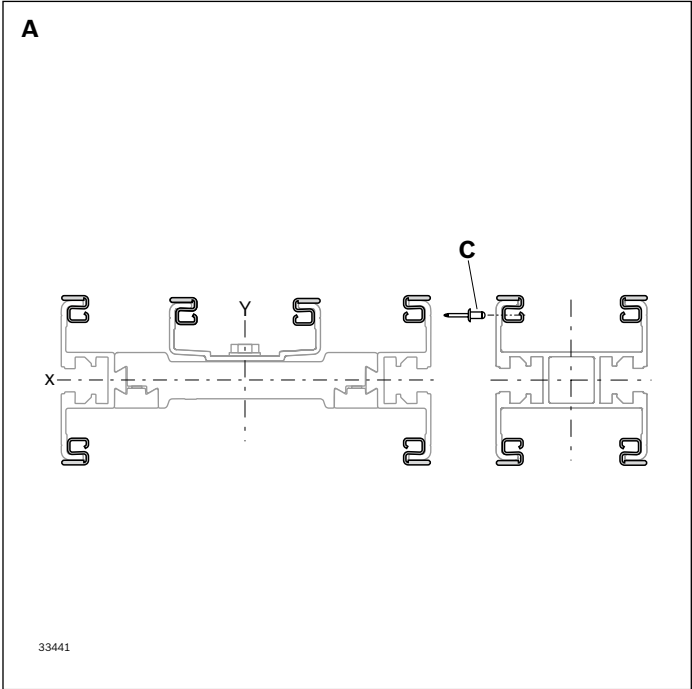
The side fixing reduces the friction and the noise level to a minimum. The steel slide rail butt joints are merely chamfered. The Advanced slide rail is used in the lower run of the curve wheels.


- Steel slide rail straight section (**A**)
- Steel slide rail curve wheels (**B**) 90°, 180°; other angles on request
- Dry, wet and abrasive environment
- Size:
  - Straight section: all track widths
  - Curve wheel 65-90; 120 on request
- Not suitable for use in horizontal sliding curves
- Only Advanced or Premium slide rails can be used in vertical curves


**Note:** Ensure gap-free assembly (without expansion joint), as foreign bodies could otherwise get trapped in the gap and damage the chain.

**Note:** Non-destructive dismantling of the steel slide rail is not possible. A target separation point of the system must therefore be defined before assembly. Overlap the steel slide rail by 10 ... 15 mm on the section profile separation point. This ensures that it is still possible to pull apart the two parts.


Extend the steel slide rail over the component interfaces to ensure minimum wear and reduced noise emissions. Interruptions directly on the profile or component connection must be avoided.





Slide rail VFplus steel	L (mm)		No.
A Straight section	3000	1	3 842 552 970

Pop rivet		No.
C	100	3 842 557 004

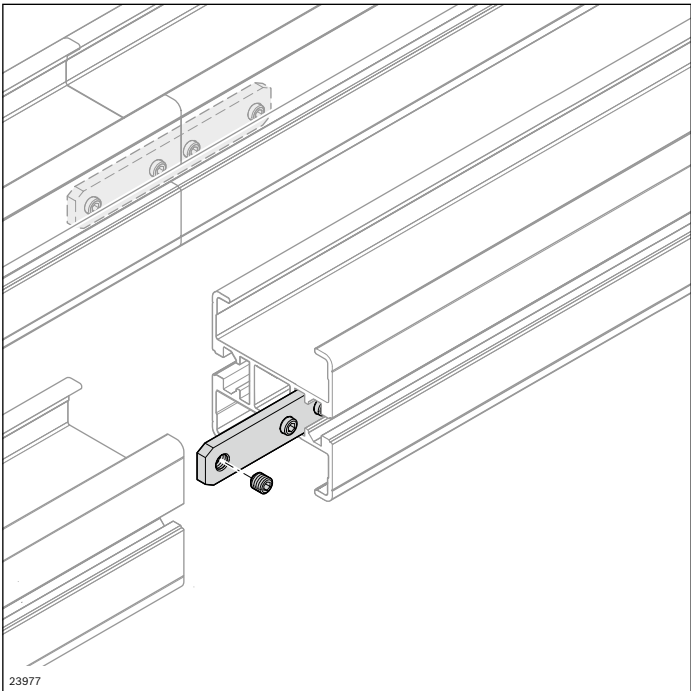
3

Steel slide rail; curve wheel VFplus 65		No.
B Steel 90°	1	3 842 552 972
B Steel 180°	1	3 842 552 973

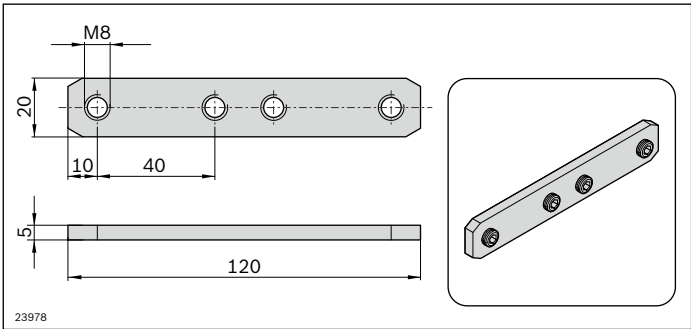
Steel slide rail; curve wheel VFplus 90		No.
B Steel 90°	1	3 842 552 974
B Steel 180°	1	3 842 552 975

Pop rivet		No.
C	100	3 842 557 004

# Profile connector AL



Two profile connectors are used to connect the end faces of the section profiles. The profile connector is fixed in the interior slot, so that the slot on the outside is available for all kinds of superstructures.



Profile connector VFplus AL	No.
10	3 842 530 277

Scope of delivery:  
Complete

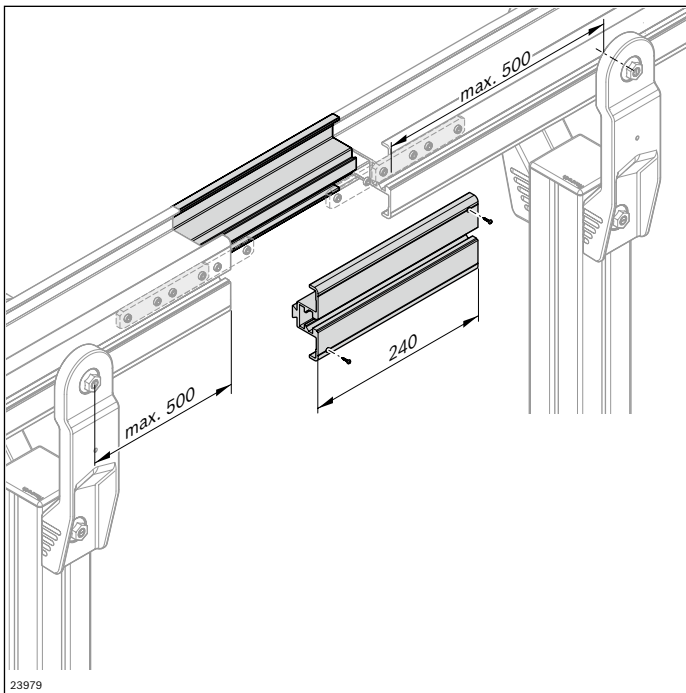
Condition on delivery:  
Screws pre-assembled and secured

Material:  
steel; galvanized

## Assembly module AL

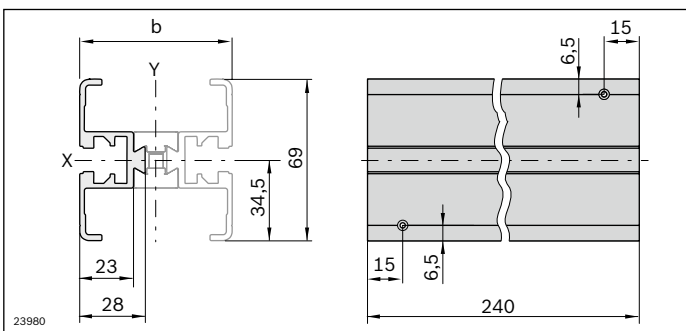


3



The assembly module is used for inserting and closing or opening the chain. It can be installed at any point on the conveyor section that is easy to access in operation. The assembly module is intended for sections with drives without a chain bag (e.g. wedge conveyor, curve wheel drive). For attachment options, see matrix on page 289

- Max. distance from the nearest leg sets on both sides is 500 mm
- The support profile with slide rail is not interrupted in the assembly module, enhancing smooth running
- Slide rail interruption is only required on the side to be opened



### Required accessories:

Slide rail, see p. 56, 58, 178

### Scope of delivery:

Incl. 4 profile connectors and sheet-metal screws for fastening the slide rail

### Material:

- Aluminum; natural, anodized
- Profile connector: steel; galvanized

### Optional accessories:

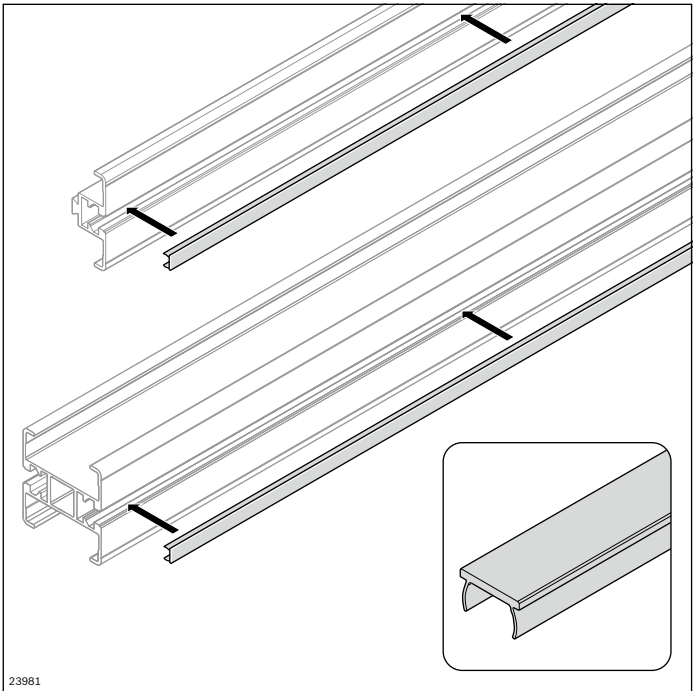
Cover profile, see p. 62

### Condition on delivery:

In single parts




	L (mm)	No.
Assembly module VFplus AL		1 <b>3 842 547 899</b>
Slide rail VFplus Premium	30000	1 <b>3 842 546 116</b>
Slide rail VFplus Advanced	30000	1 <b>3 842 549 727</b>
Slide rail VFplus Basic	30000	1 <b>3 842 549 730</b>
Slide rail VFplus steel	3000	1 <b>3 842 552 970</b>
Slide rail VFplus ESD	30000	1 <b>3 842 557 000</b>

# Cover profile



- Material:
- AL: Aluminum; natural, anodized
  - PVC: Hard PVC; colored

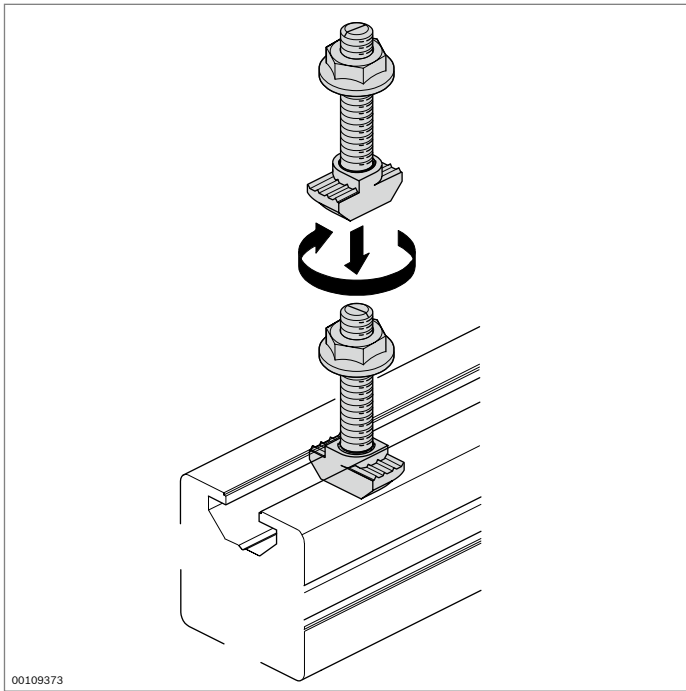
Cover profile to improve system design, to fix cables routed in the profile slot, and to protect the profile slot against contamination

Cover profile	L (mm)		No.
 00109368	AL	2000	10 <b>3 842 523 258</b>
 19502	PVC		
black	2000	10	<b>3 842 146 901</b>
colorless	2000	10	<b>3 842 191 182</b>
RAL 7035 (light gray)	2000	10	<b>3 842 518 367</b>
RAL 3020 (red)	2000	10	<b>3 842 518 368</b>
RAL 1023 (yellow)	2000	10	<b>3 842 518 369</b>
RAL 5010 (blue)	2000	10	<b>3 842 538 955</b>
RAL 2004 (orange)	2000	10	<b>3 842 538 957</b>

# Flange nut T-bolt



3

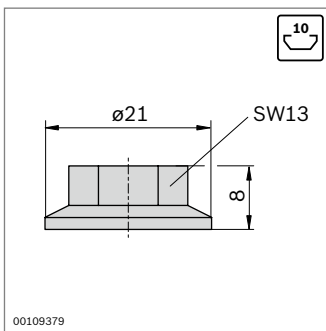


00109373

Fastening elements for mounting accessories on the profile slot

- Secure and conductive connection
- The notch at the end of the screw is used to detect the position and identify the correct positioning
- Profile finishing: not required

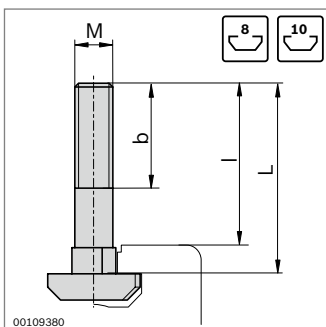
There is a selection of different mounting options in the MGE catalog.



00109379

Flange nut	Groove	M	ESD	No.
	10	M8		100 <b>3 842 345 081</b>

Material: steel; galvanized



00109380

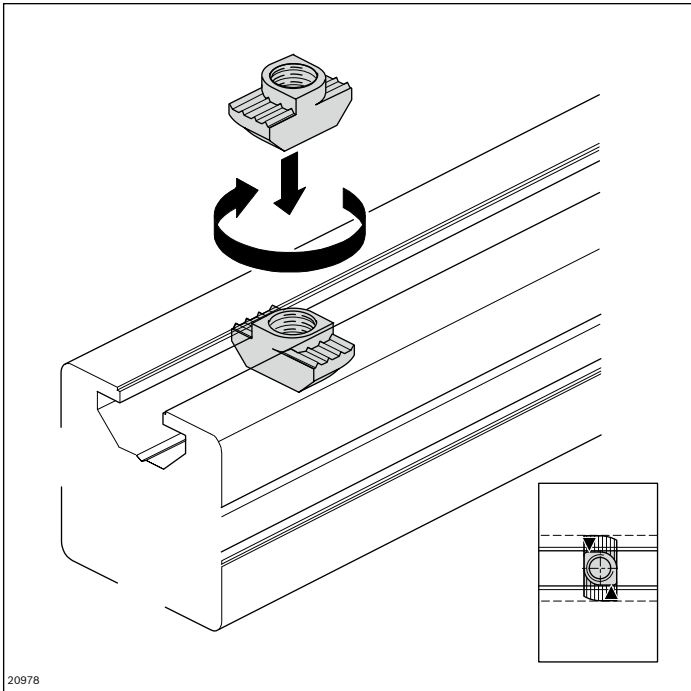
Groove	
10	6000 ... 18000 N <sup>1)</sup>

<sup>1)</sup> Dependent on the profile  
(see also "Technical data" in the MGE catalog)

T-bolt	Groove	MxL	b (mm)	l (mm)	ESD	No.
	10	M8x20	14	14		100 <b>3 842 528 715</b>
		M8x25	19	19		100 <b>3 842 528 718</b>
		M8x30	24	24		100 <b>3 842 528 721</b>
		M8x40	22	34		100 <b>3 842 528 724</b>
		M8x50	22	44		100 <b>3 842 528 727</b>

Material: steel; galvanized

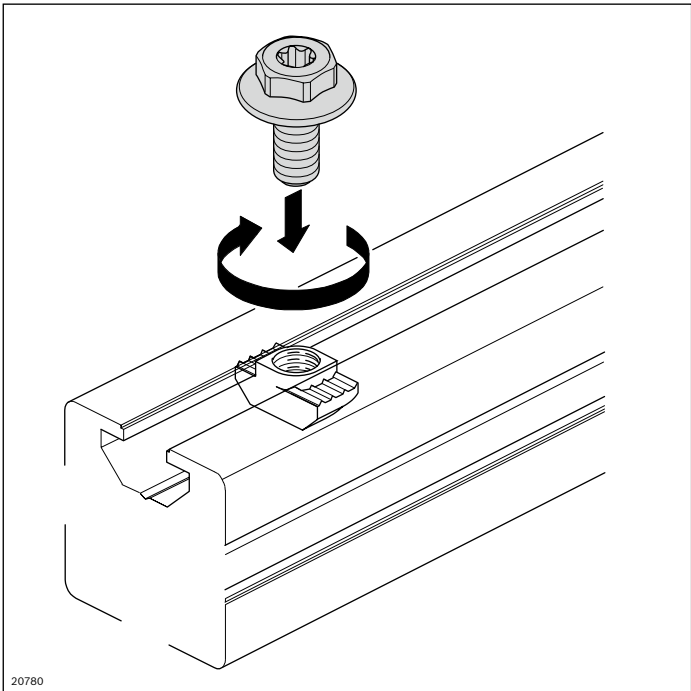
Collar screw  
 T-nut



Fastening elements for mounting accessories on the profile slot

- Standard element for secure, conductive connections
- Stop for correct positioning in the profile slot
- Profile finishing: not required

T-nut, 10 mm slot	Groove	M	ESD	No.
steel; galvanized	10	M4		100 <b>3 842 530 281</b>
		M5		100 <b>3 842 530 283</b>
		M6		100 <b>3 842 530 285</b>
		M8		100 <b>3 842 530 287</b>



- Collar screw with multi-function head for tightening with ring/open-end wrench (WS 13) or Torx screwdriver (T40)
- Machine tightening possible
- Preferably to be used for fastening brackets
- Quick and simple assembly
- Excellent force transmission via the wide flange
- With Polyfleck to secure the T-nut

Tools: Allen keys

Collar screw	M	L (mm)	ESD	No.
<b>M8x18-SW13-T40<sup>1)</sup></b>	M8	18		100 <b>3 842 541 246</b>
<b>M8x20-SW13-T40<sup>2)</sup></b>	M8	20		100 <b>3 842 541 409</b>

<sup>1)</sup> For 40/40 and 60/60 brackets

<sup>2)</sup> For all other brackets for 10 mm slot

Material: steel; galvanized