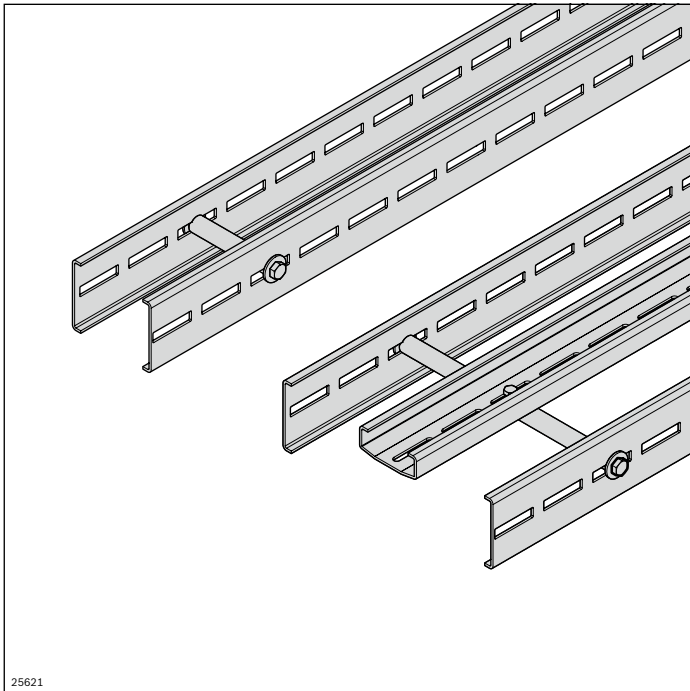



Sections STS



- ▶ 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
- ▶ Few screwed connections
- ▶ One profile cross-section for all sizes
- ▶ Use of a support profile from size 160

25621

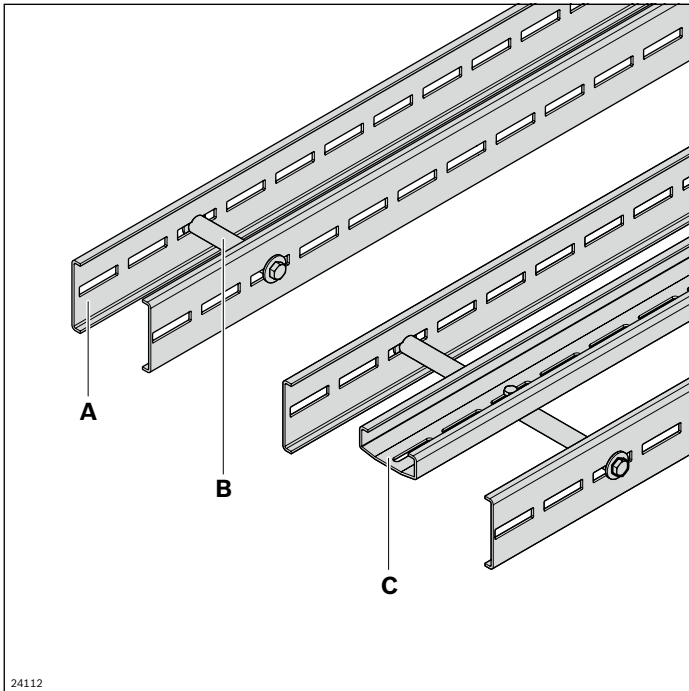
Easy-to-clean sections due to largely media-resistant components

	Section profile STS open	124
	Section profile STS Clean	126
	Slide rail	128
	Steel slide rail	130
	Profile connector STS	132
	Assembly module STS	133

Section profile STS open

Cross connector STS

Support profile STS



The open construction of the section profile **(A)** facilitates the direct discharge of dirt or foreign particles.

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.

A support profile **(C)** is required as of size 160. The support profile is fastened to the existing cross connectors.

STS open section profile (A)

- ▶ Elongated holes for attaching a drive/return unit, curves, lateral guides, leg sets, or other accessories
- ▶ Simple to clean

STS cross connector (B)

- ▶ Cross connector with mounting option for support profile

Required accessories:

- **A:** Slide rail, see p. 128; profile connector, see p. 132; cross connector, see p. 124; support profile from size 160, see p. 124

Scope of delivery:

- B:** Incl. fastening material

STS support profile (C)

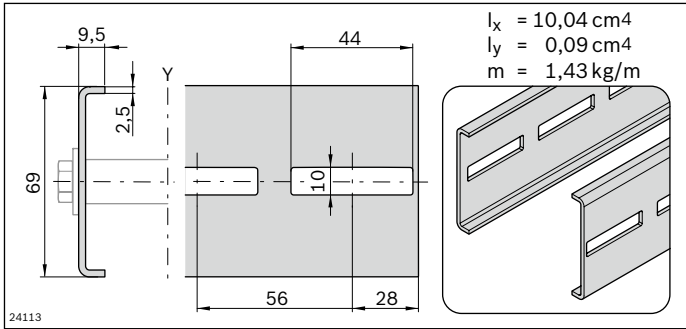
- ▶ With elongated holes for fastening in regular intervals
- ▶ Plug-through stainless steel T-nuts as mounting option on the section profile

Material:

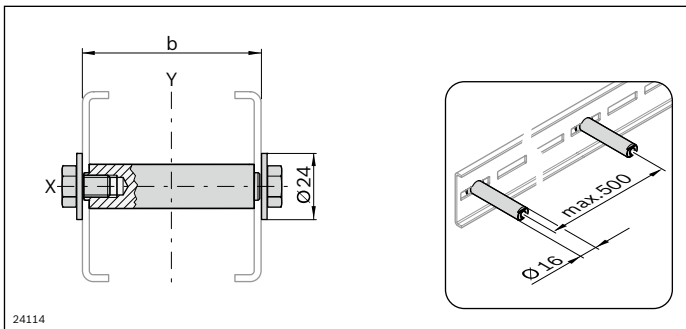
- A, B, C:** Non-rusting steel 1.4301

Condition on delivery:

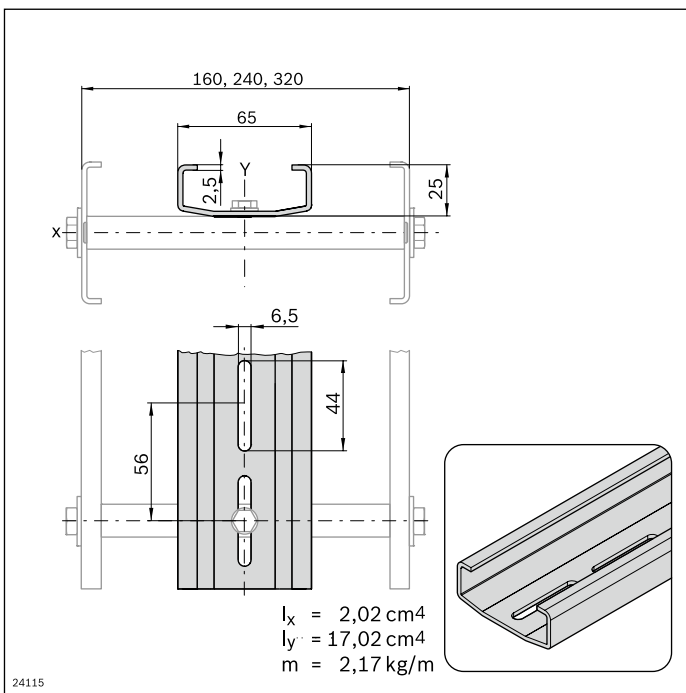
- A, B:** Not assembled



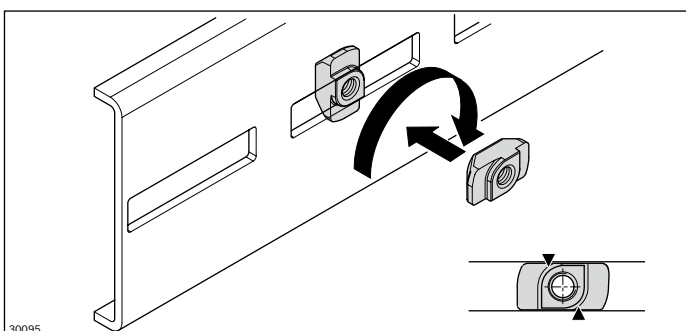
Section profile VFplus STS open	L (mm)	No.
12 pcs	3024	3 842 546 649
2 pcs	3024	3 842 547 905
1 pcs	75 ... 3000	3 842 996 027/L



Cross connector STS	b (mm)	No.
VFplus 65 STS	65	10 3 842 546 684
VFplus 90 STS	90	10 3 842 546 685
VFplus 120 STS	120	10 3 842 546 686
VFplus 160 STS	160	10 3 842 546 687
VFplus 240 STS	240	10 3 842 546 688
VFplus 320 STS	320	10 3 842 546 689



Support profile VFplus STS	L (mm)	No.
12 pcs	3024	3 842 546 700
1 pcs	3024	3 842 547 906
1 pcs	75 ... 3000	3 842 996 029/L

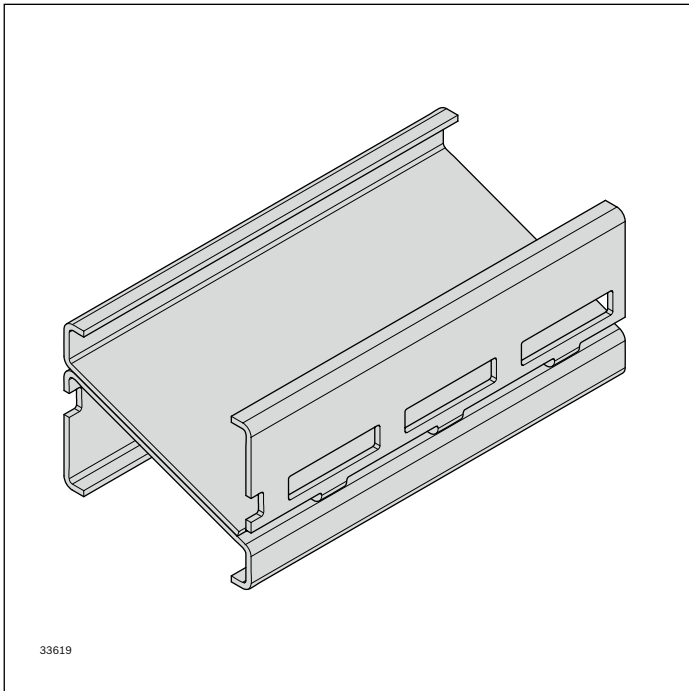


Standard element for the secure connection of accessory parts to the section profile

Note: MGE T-nuts do not fit in the STS section profile.

T-nut	No.
VFplus STS M6	20 3 842 546 706
VFplus STS M8	20 3 842 546 707

Section profile STS Clean



The construction of the STS Clean section profile allows for the direct discharge of dirt or foreign particles without them reaching the returning chain.

- Size: 90
- For use in harsh production environments

Note: Not compatible with the AL system

- ▶ Elongated holes for attaching a drive/return unit, curves, lateral guides, leg sets and other accessories
- ▶ Simple to clean

Required accessories:

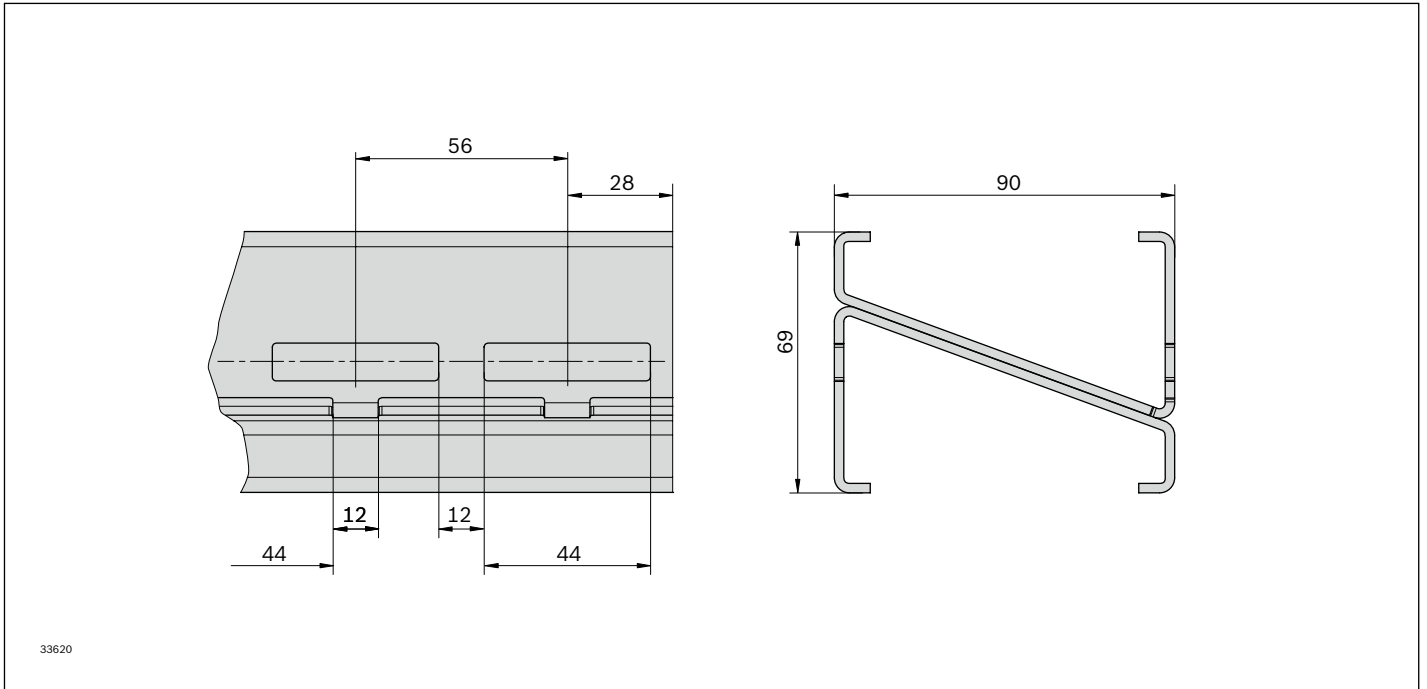
- Profile connector STS Clean section, see p. 127
- Slide rail, see page 128



Optional accessories:

- T-nut VFplus STS, see p. 125

Material:

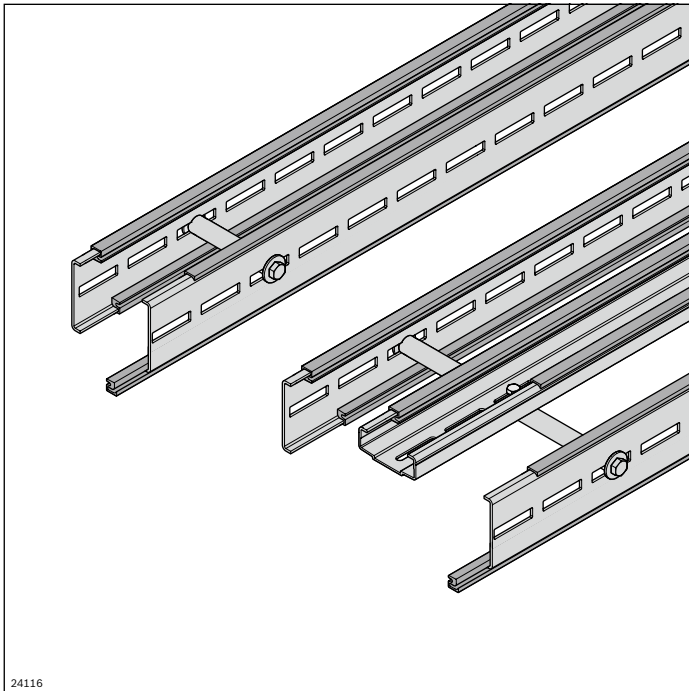
Non-rusting steel 1.4301



Section profile STS Clean	L (mm)		No.
	3024	1	3 842 553 006
	75 ... 3000	1	3 842 996 314
Profile connector STS Clean section	H (mm)		No.
	17	10	3 842 552 927

Note: When using the section profile STS Clean with the basic units (head drive, return unit, connection drive) the enclosed profile connector (H = 20 mm) must be replaced with the profile connector STS Clean section (H = 17 mm) 3 842 552 927.

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
- Oval-head screw 2.9x9.5 DIN 7981; DIN EN ISO 7049
see page 129
- 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.

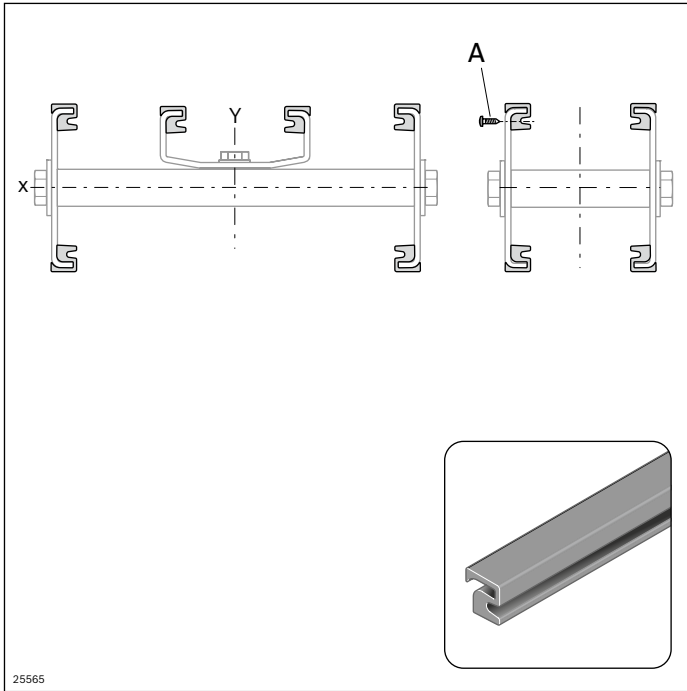
Three slide rails with different main areas of application are available:

- 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 268. See also ESD slide rail on page 178 and steel slide rails on page 130.

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.



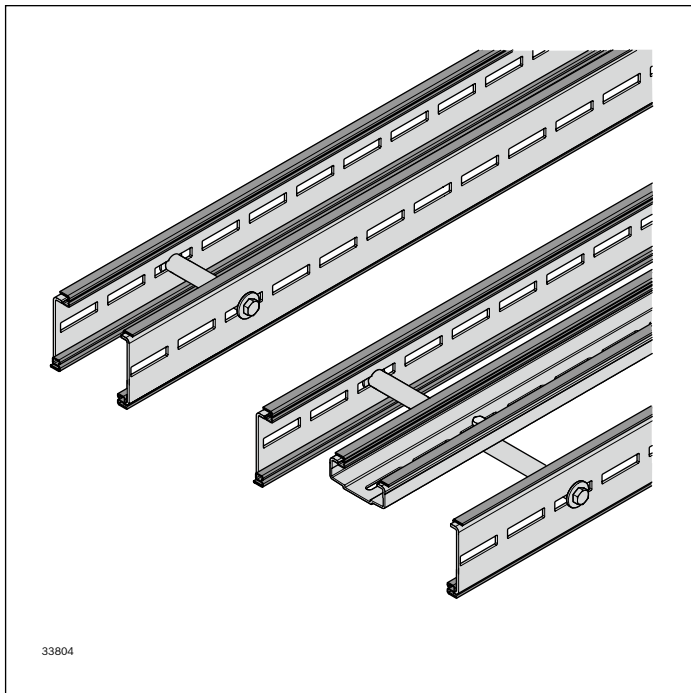
25565

Slide rail VFplus	Color	L (mm)		No.
Premium	gray	30000	1	3 842 546 116
Advanced	white	30000	1	3 842 549 727
Basic	blue	30000	1	3 842 549 730

See also ESD slide rail, see page 178
and steel slide rail, see page 130.

Oval-head screw		No.
A	100	3 842 533 915

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 131
- 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.

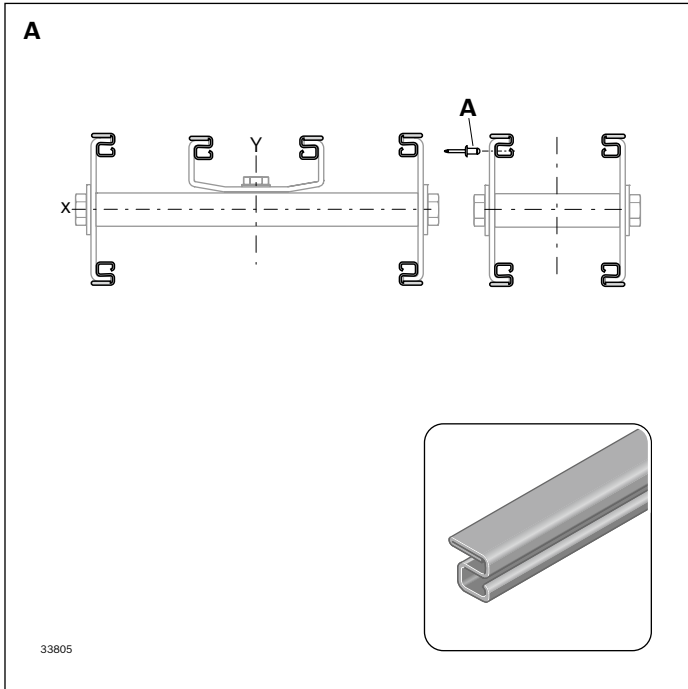
The side fixing reduces the friction and the noise level to a minimum. The steel slide rail butt joints are merely chamfered. The Advanced slide rail is used in the lower run of the curve wheels.

- 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 160-320
 - 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.

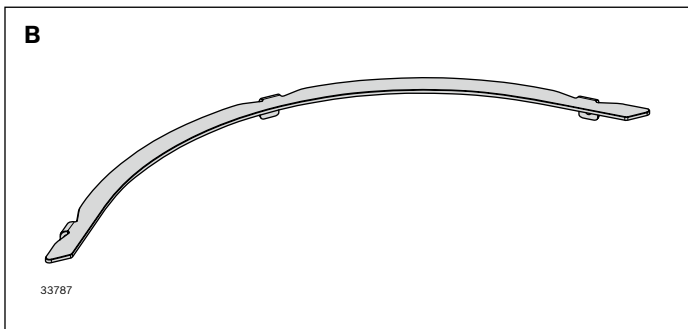
Note: Non-destructive dismantling of the steel slide rail is not possible. A target separation point of the system must therefore be defined before assembly. Overlap the steel slide rail by 10 ... 15 mm on the section profile separation point. This ensures that it is still possible to pull apart the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

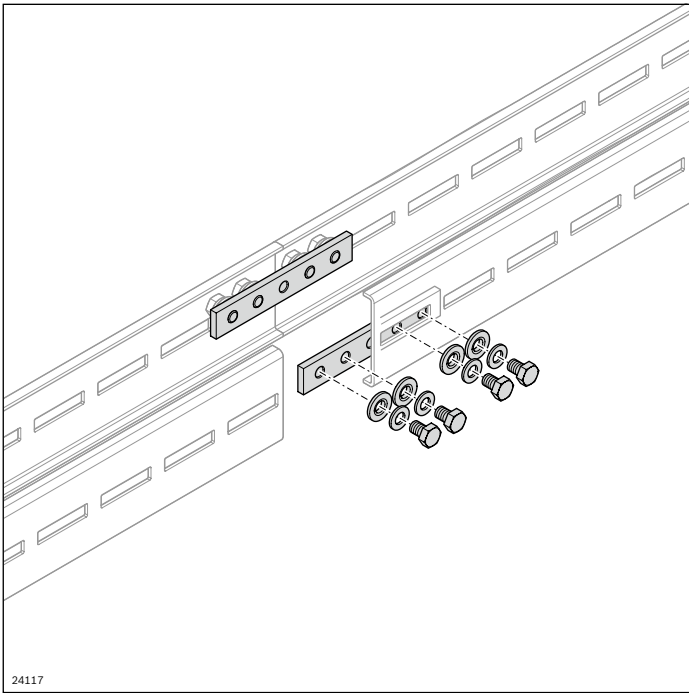


Steel slide rail; curve wheel VFplus 65	No.
B Steel 90°	1 3 842 552 972
B Steel 180°	1 3 842 552 973

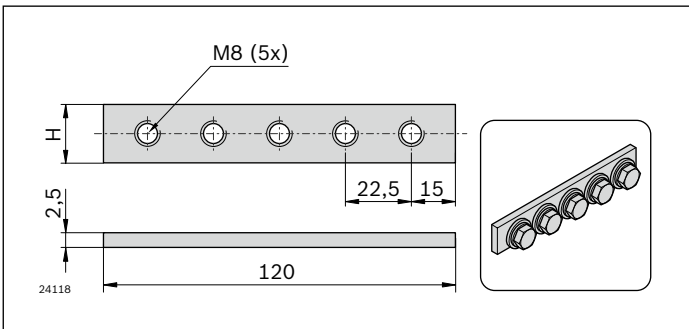
Steel slide rail; curve wheel VFplus 90	No.
B Steel 90°	1 3 842 552 974
B Steel 180°	1 3 842 552 975

Pop rivet	No.
C	100 3 842 557 004

Profile connector STS



Two profile connectors are used to connect the end faces of the section profiles.



Profile connector VFplus STS	H (mm)		No.
	20	10	3 842 547 895

Profile connector STS Clean section	H (mm)		No.
	17	10	3 842 552 927

Scope of delivery:
Complete

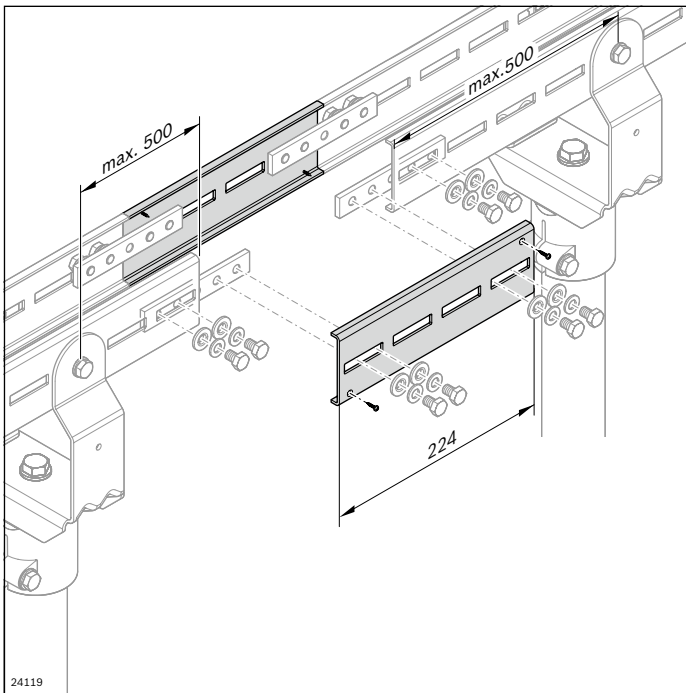
Scope of delivery:
Not assembled

Material:
Non-rusting steel 1.4301

Assembly module STS

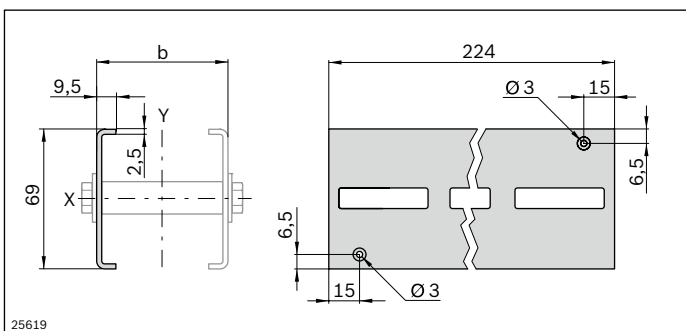


4



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).

- 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



	L (mm)	No.
Assembly module VFplus STS	1	3 842 547 900
Slide rail VFplus Premium	30000	1 3 842 546 116
Slide rail VFplus Advanced	30000	1 3 842 549 727
Slide rail VFplus Basic	30000	1 3 842 549 730
Slide rail VFplus steel	3000	1 3 842 552 970
Slide rail VFplus ESD	30000	1 3 842 557 000

Required accessories:

Slide rail, see p. 128, 130, 178

Scope of delivery:

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

Material:

Non-rusting steel 1.4301

Condition on delivery:

In single parts