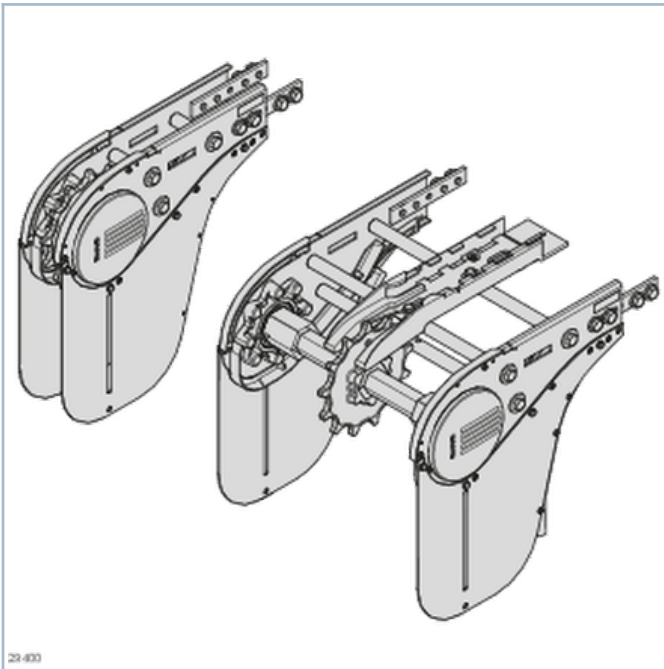


Base unit STS



- Reduced noise emission due to slide rails guided in the head drive
 - Installation of the drive kit possible on the right/left (motor, coupling, flange)
-
- Drive of a parallel conveyor section or bridge using a hexagonal hollow shaft integrated as standard
 - Ball bearing made of non-rusting steel (1.4301), with seal on both sides and FDA-compliant grease filling
 - Side elements with mounting option for attaching holders for lateral guides, or similar

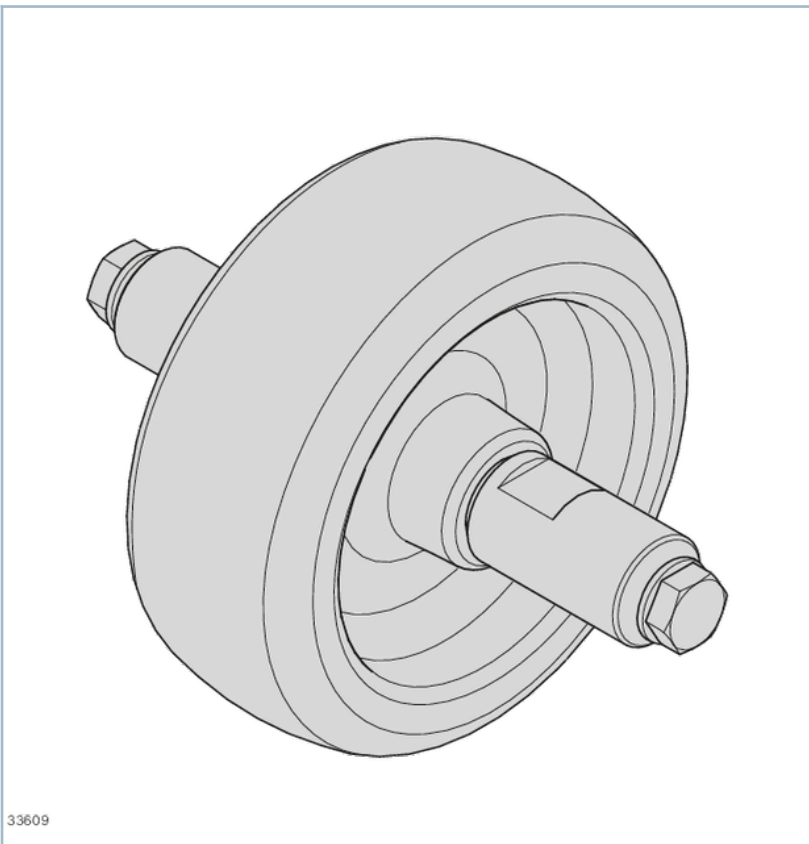
Product description

The basic unit is quickly turned into a head drive with variable mounting position by adding a drive kit.

With the double-sided hexagonal hollow shaft, other components can be easily driven using a transmission (active bridges).

- Size: All track widths
- Suitable chain types: All
- Permissible chain tensile force: $F_{\max} = 1250 \text{ N}$
- Section length: $L \leq 30 \text{ m}$
- Conveying speed: $v_N = 2 \dots 60 \text{ m/min}$, other speeds available on request
- Chain bag to compensate for chain elongation during service life
- Not suitable for reversible operation

Chain sprocket



Conveyor noise level

Technical data

	Material
Base unit STS, VFplus 65 dir.	
Base unit STS, VFplus 90 dir.	
Base unit STS, VFplus 120 dir.	
Base unit STS, VFplus 160 dir.	
Base unit STS, VFplus 240 dir.	
Base unit STS, VFplus 320 dir.	

	Material
Chain sprocket VFplus 65	
Chain sprocket VFplus 90	
Chain sprocket VFplus 120	
Chain sprocket VFplus 160	
Chain sprocket VFplus 240	
Chain sprocket VFplus 320	
Drive kit VFplus	Flange, shaft (STS): Non-rusting steel 1.4301 AL-STs motor: Diecast aluminum Cover tube (STS): PE Flange (AL): Diecast aluminum Shaft (AL): Non-rusting steel 1.4301/PA Ball catch coupling (AL): Steel

Combination matrix

		Straight			Curves			Drives		Return Unit	
		Section profile STS open	Section profile STS Clean	Assembly module	Curve wheel	Roller curve*	Vertical curve	Head drive	Connection drive	Center drive**	Basic unit
Straight	Section profile STS open	J									
	Section profile STS Clean	L ⁽⁶⁾	L ⁽⁶⁾								
	Assembly module	J	L ⁽⁶⁾	N							

		Straight			Curves			Drives			Return Unit
		Section profile STS open	Section profile STS Clean	Assembly module	Curve wheel	Roller curve*	Vertical curve	Head drive	Connection drive	Center drive**	Basic unit
Curves	Curve wheel	J	L ⁶⁾	J	L ^{2, 7)}						
	Roller curve*	J	N	J	N	L ¹⁾					
	Vertical curve	J	L ⁶⁾	J	L ¹⁾	L ¹⁾	L ¹⁾				
Drives	Head drive	J	L ⁶⁾	J	L ¹⁾	L ^{1, 4)}	L ^{1, 4)}	N			
	Connection drive	J	L ⁶⁾	J	L ¹⁾	N	L ¹⁾	N	N		
	Center drive**	J	L ⁶⁾	J	L ¹⁾	N	L ¹⁾	N	N	N	
Return Unit	Basic unit	J	L ⁶⁾	J	L ¹⁾	L ^{1, 4)}	L ^{1, 4)}	L ¹⁾	L ¹⁾	L ^{1, 3)}	L ^{1, 3)}
	90° **	J	L ⁶⁾	J	L ¹⁾	N	L ¹⁾	L ¹⁾	L ¹⁾	N	N

J

possible without restrictions

* Support profile must project 76+2 mm into the roller curve.

L

possible with restrictions

** AL-STs adapter included in the scope of delivery.

N

not possible

Retur

n Unit

90° **

Retur
n Unit

90° **

L¹⁾

*

Supp
ort

** AL-
STS
adapt

- 1) Profile connector not required
- 2) Use of a profile piece (L_{min} = 224 mm)
- 3) Assembly module required
- 4) For sizes 160-320: shorten the support rail on the dotted line
- 5) Use of the AL-STS adapter
- 6) Replace the standard profile connector with STS Clean Section profile connector
- 7) Directly possible with left-right change (one profile connector is no longer required)

Actual chain and sliding rail lengths of the components

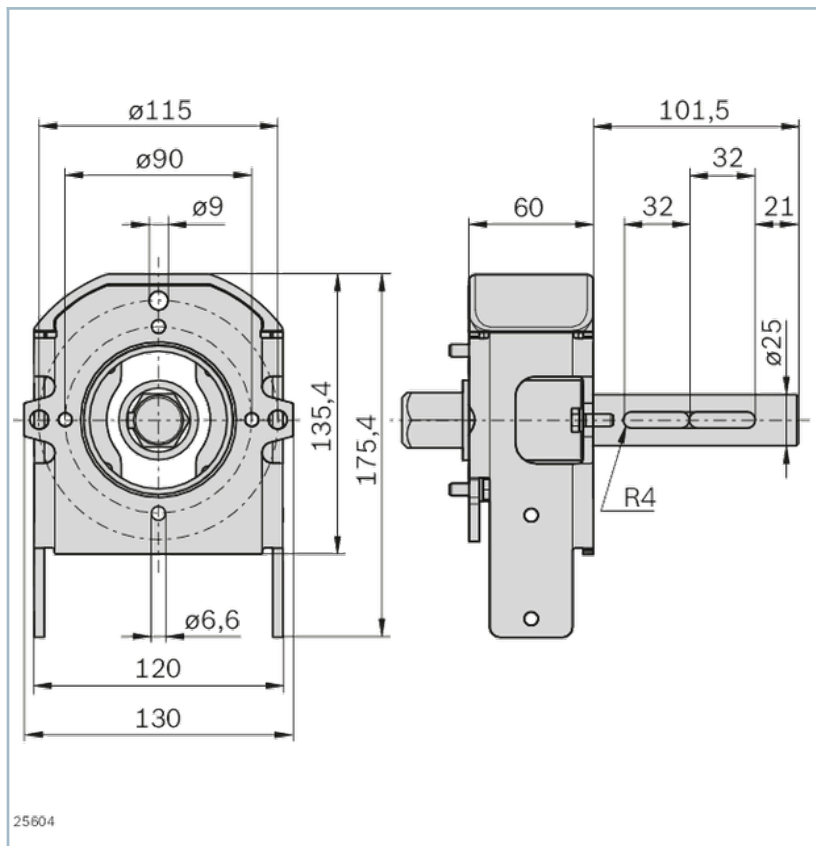
		Actual chain length	Effective sliding rail length
		m	m
Base unit STS, VFplus 65 dir.	3842547522	0,881	2x 0,2
Base unit STS, VFplus 90 dir.	3842547523		
Base unit STS, VFplus 120 dir.	3842547524		
Base unit STS, VFplus 160 dir.	3842547525		4x 0,2
Base unit STS, VFplus 240 dir.	3842547526		
Base unit STS, VFplus 320 dir.	3842547527		
Chain sprocket VFplus 65	3842553047		
Chain sprocket VFplus 90	3842553048		
Chain sprocket VFplus 120	3842553049		
Chain sprocket VFplus 160	3842553057		
Chain sprocket VFplus 240	3842553058		
Chain sprocket VFplus 320	3842553059		
Drive kit VFplus	3842998291		

-

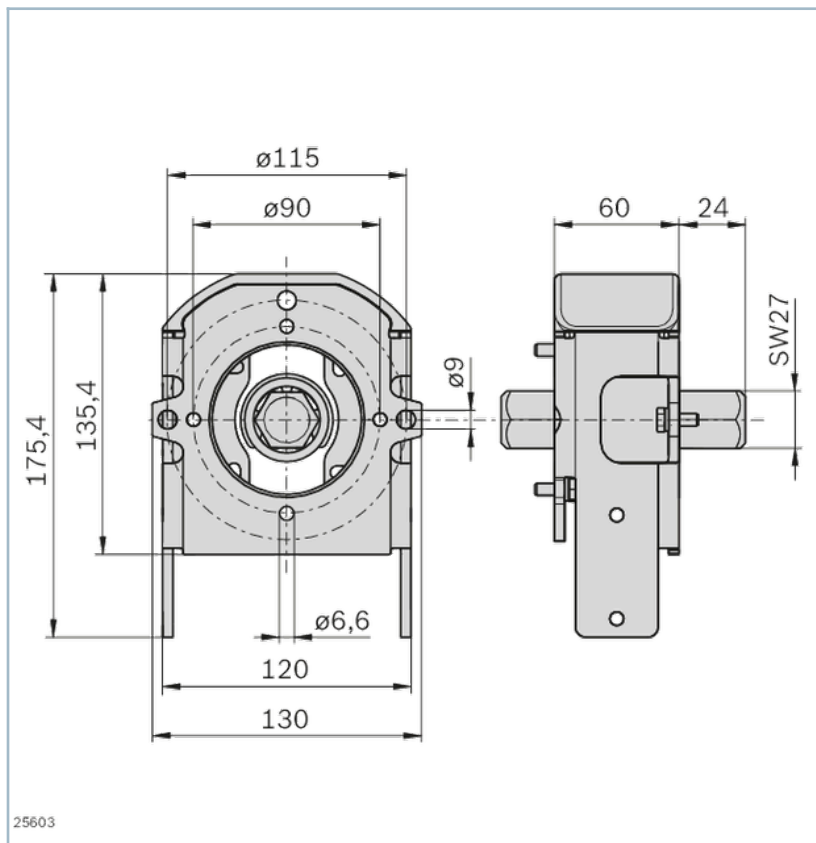
Transport and nominal speed vN

Dimensions

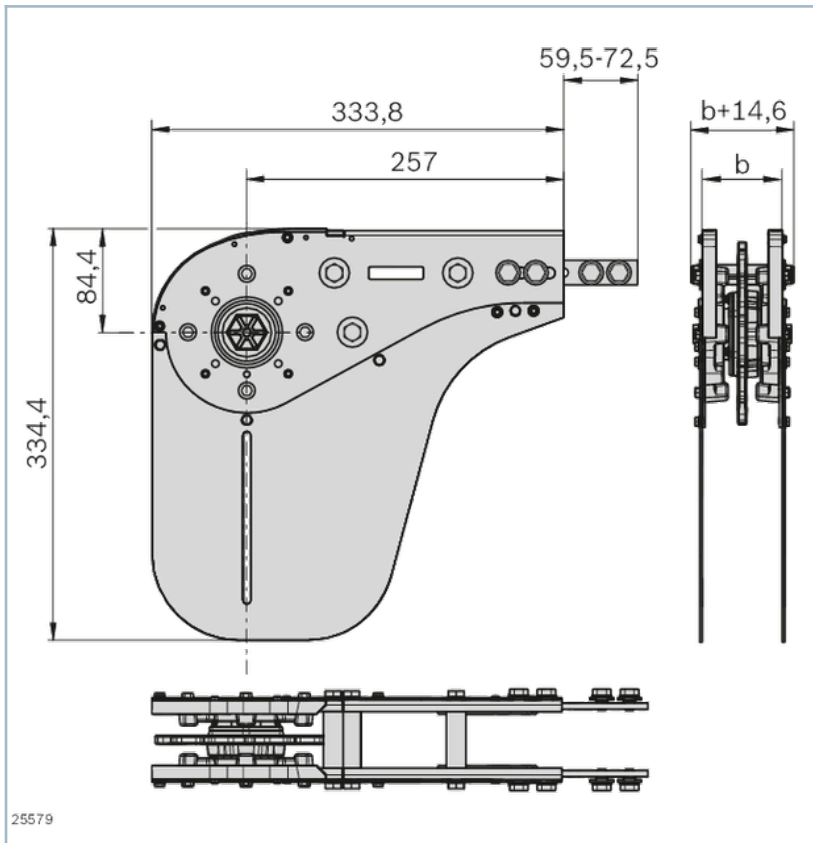
Head drive STS GM = 2



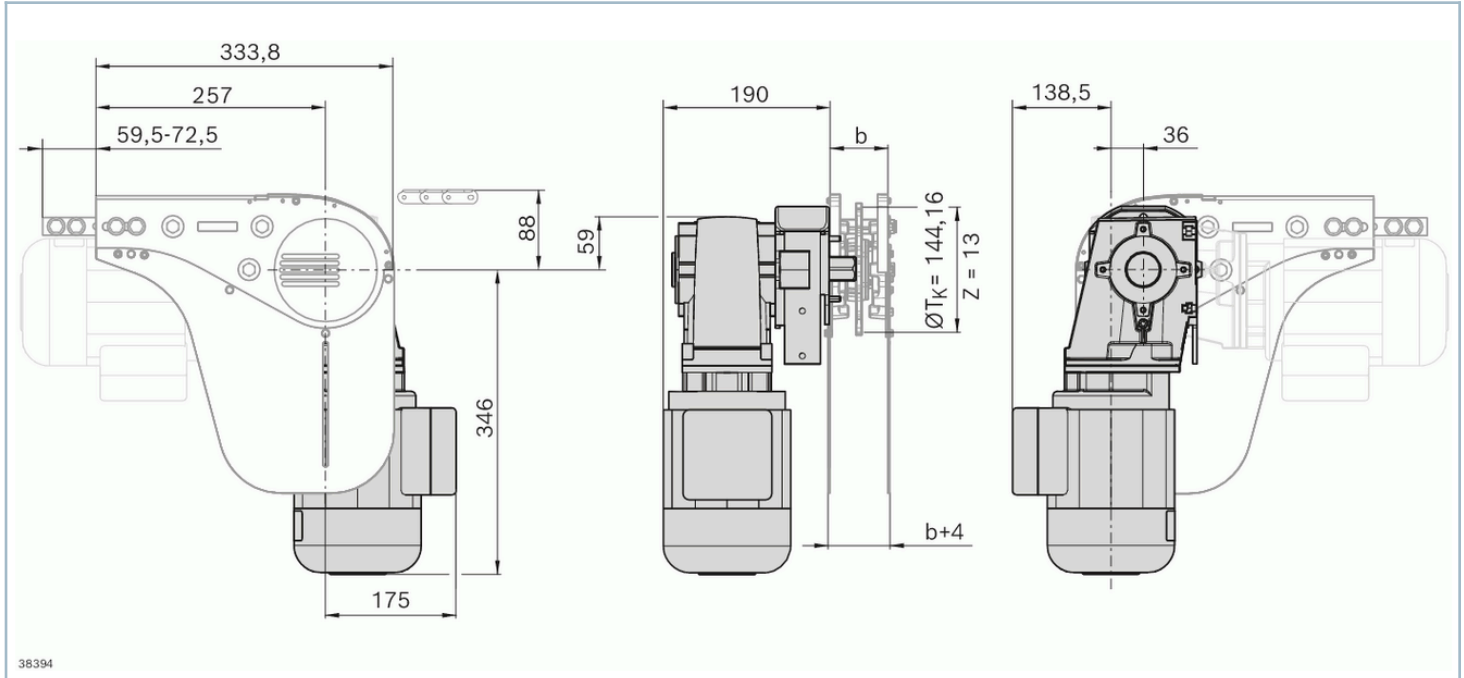
Head drive STS GM = 0



Base unit STS

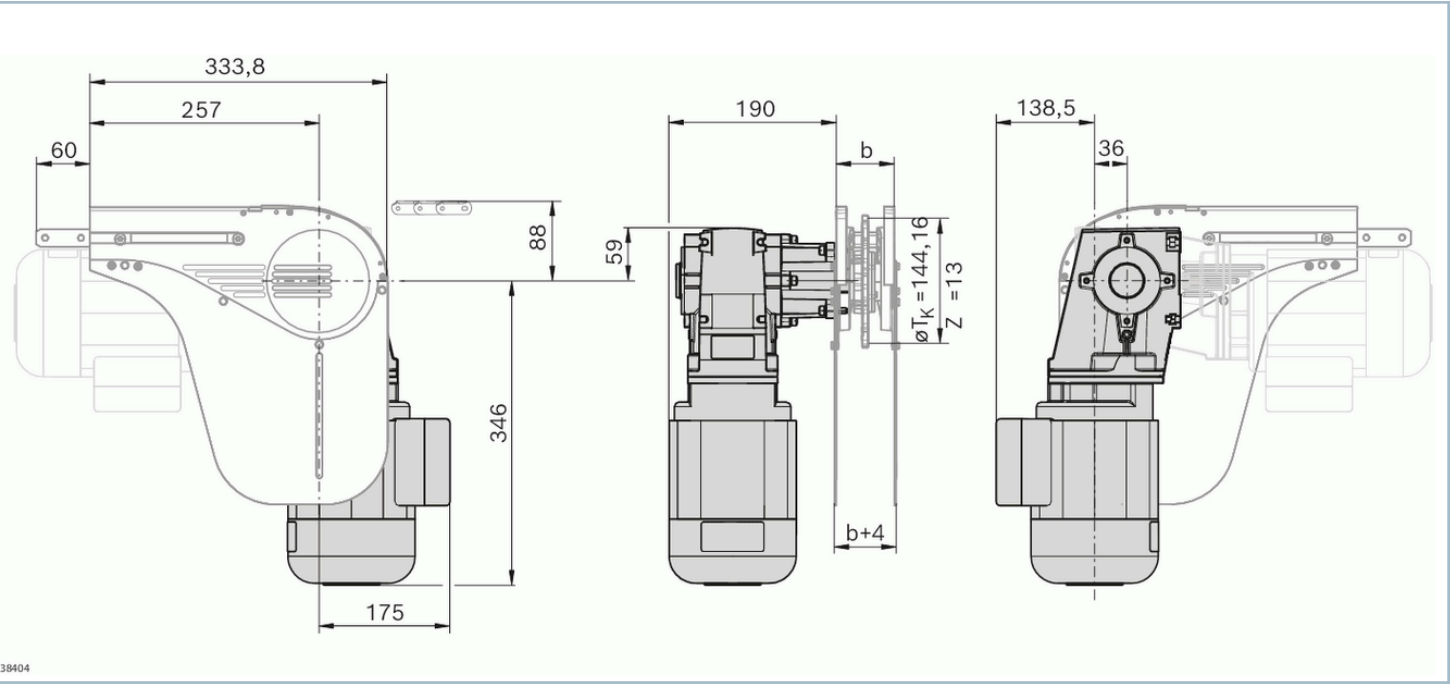


Drive kit VFplus (installation in the STS system)



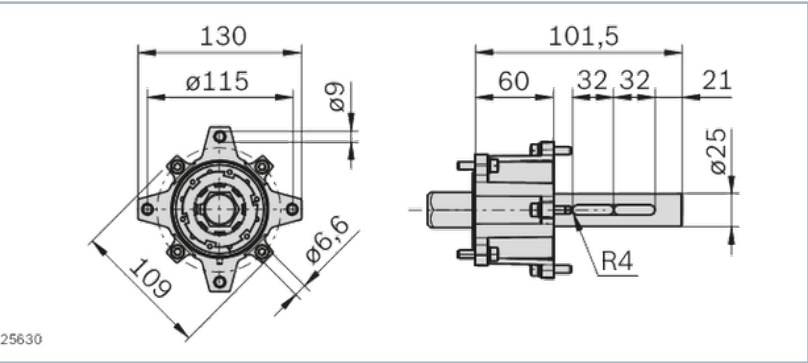
b = size

Drive kit VFplus (installation in the AL system)

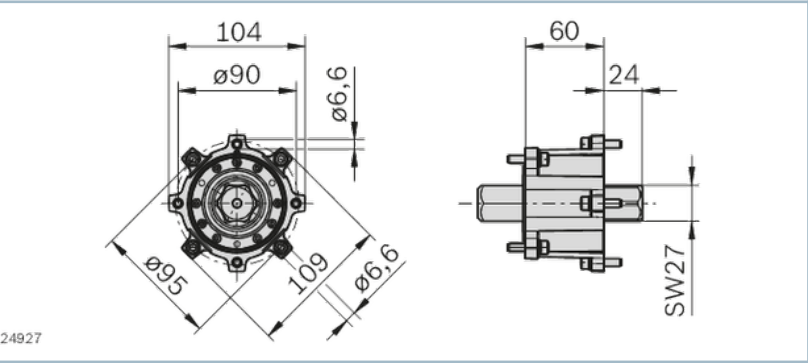


b = size

Head drive AL GM = 2



Head drive AL GM = 0



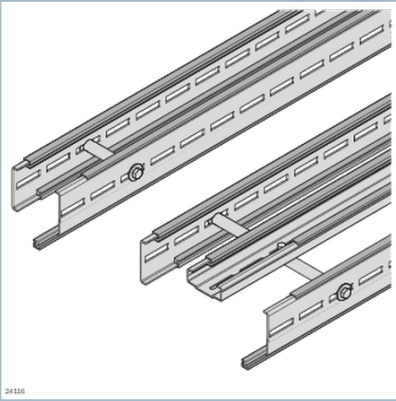
Information

Notice:

- A chain sprocket must be used to limit the chain slipping back ascending or descending sections.
- Chain sprocket prevents the chain bag from swiveling out

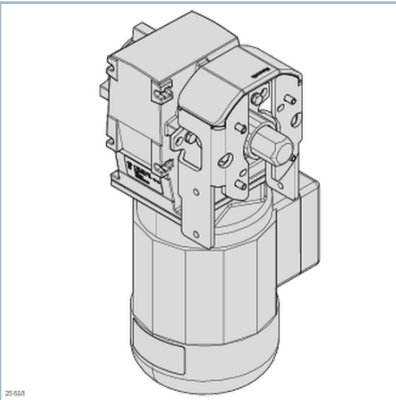
Note: High-pressure cleaning of the ball bearings is not permitted.

Accessories

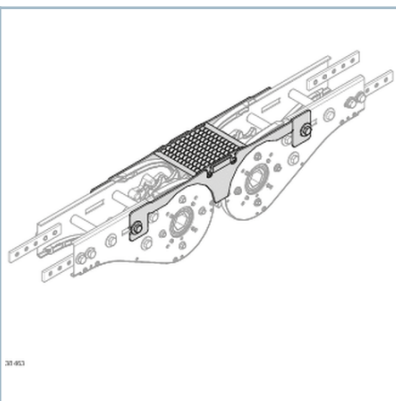


Slide rail

- Easy assembly - simply clip onto the section profile
- Secured against axial shifting due to lateral bolting

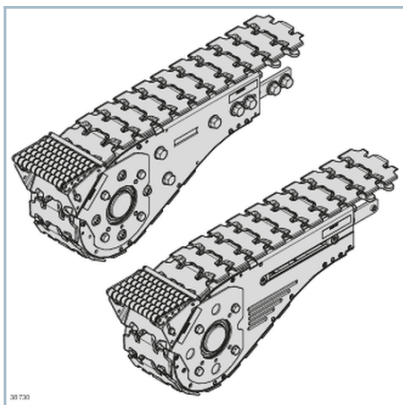


Drive kit



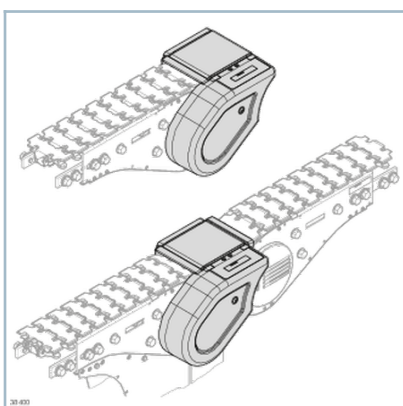
Passive bridge connection kit

- The passive bridge is used as a transfer unit between the basic unit and return unit or with the connection drive to bridge the conveyor trench



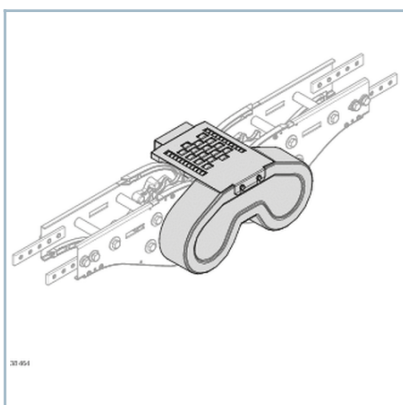
Connection kit short passive bridge

- The short passive bridge is used as a transfer unit between the basic unit or return unit and a third-party conveyor to bridge the conveyor trench



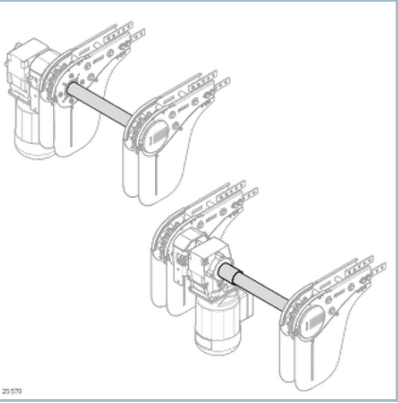
Connection kit active belt bridge

- The active belt bridge is used as a transfer unit for bridging the conveyor trench
 - between the basic unit and return unit
 - between the start or end of a conveyor section and a third-party conveyor
- Size: 65 and 90
- Only for flat conveyor chain and static friction chain



Connection kit active roller bridge

- The active roller bridge is used as a transfer unit between the basic unit and return unit or with the connection drive to bridge the conveyor trench.
- The active roller bridge is driven by a transmission (on the drive or return unit side)



Connection kit synchronous drive
external motor/internal motor

- The connection kit for a synchronous drive is used to synchronously drive two conveyor sections with only one motor

Delivery notes

Condition of Delivery

Base unit STS, VFplus 65 dir.	Fully assembled	Connector, chain guard enclosed
Base unit STS, VFplus 90 dir.		
Base unit STS, VFplus 120 dir.		
Base unit STS, VFplus 160 dir.		
Base unit STS, VFplus 240 dir.		
Base unit STS, VFplus 320 dir.		
Chain sprocket VFplus 65		
Chain sprocket VFplus 90		
Chain sprocket VFplus 120		
Chain sprocket VFplus 160		
Chain sprocket VFplus 240		
Chain sprocket VFplus 320		
Drive kit VFplus	Assembly kit	

Scope of delivery

Base unit STS, VFplus 65 dir.	Incl. fastening material	
Base unit STS, VFplus 90 dir.		
Base unit STS, VFplus 120 dir.		
Base unit STS, VFplus 160 dir.		
Base unit STS, VFplus 240 dir.		
Base unit STS, VFplus 320 dir.		
Chain sprocket VFplus 65		
Chain sprocket VFplus 90		
Chain sprocket VFplus 120		
Chain sprocket VFplus 160		
Chain sprocket VFplus 240		
Chain sprocket VFplus 320		
Drive kit VFplus	Incl. fastening material	Incl. flange, shaft and gear motor (GM = 1)

Ordering codes

	No.
Base unit STS, VFplus 65 dir.	3842547522
Base unit STS, VFplus 90 dir.	3842547523
Base unit STS, VFplus 120 dir.	3842547524
Base unit STS, VFplus 160 dir.	3842547525
Base unit STS, VFplus 240 dir.	3842547526
Base unit STS, VFplus 320 dir.	3842547527
Chain sprocket VF <i>plus</i> 65	3842553047
Chain sprocket VF <i>plus</i> 90	3842553048
Chain sprocket VF <i>plus</i> 120	3842553049
Chain sprocket VF <i>plus</i> 160	3842553057
Chain sprocket VF <i>plus</i> 240	3842553058
Chain sprocket VF <i>plus</i> 320	3842553059
Drive kit VF <i>plus</i>	3842998291