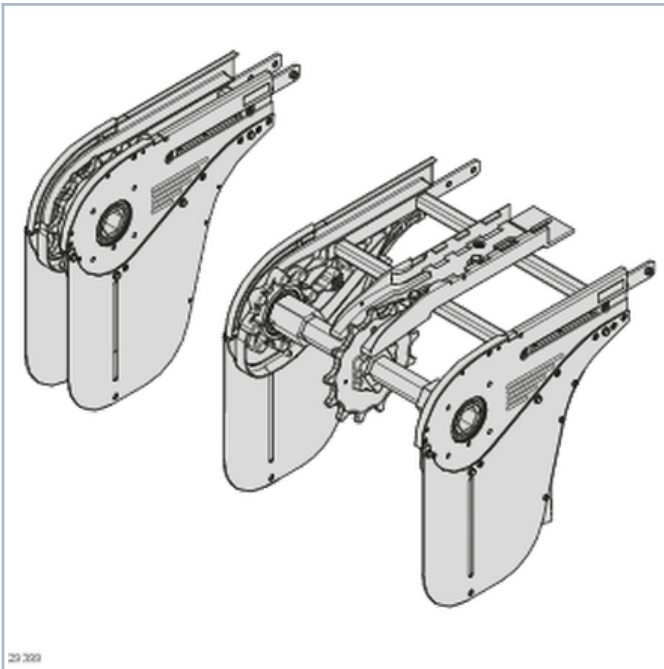
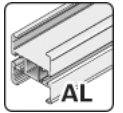


Base unit AL



- Base unit AL direct + drive kit = a complete head drive
 - 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
 - Implementation of parallel sections with gap dimension down to zero
 - Side elements with slot to attach holders for lateral guides, or similar
 - A chain sprocket must be used to limit the chain slipping back on inclined sections.

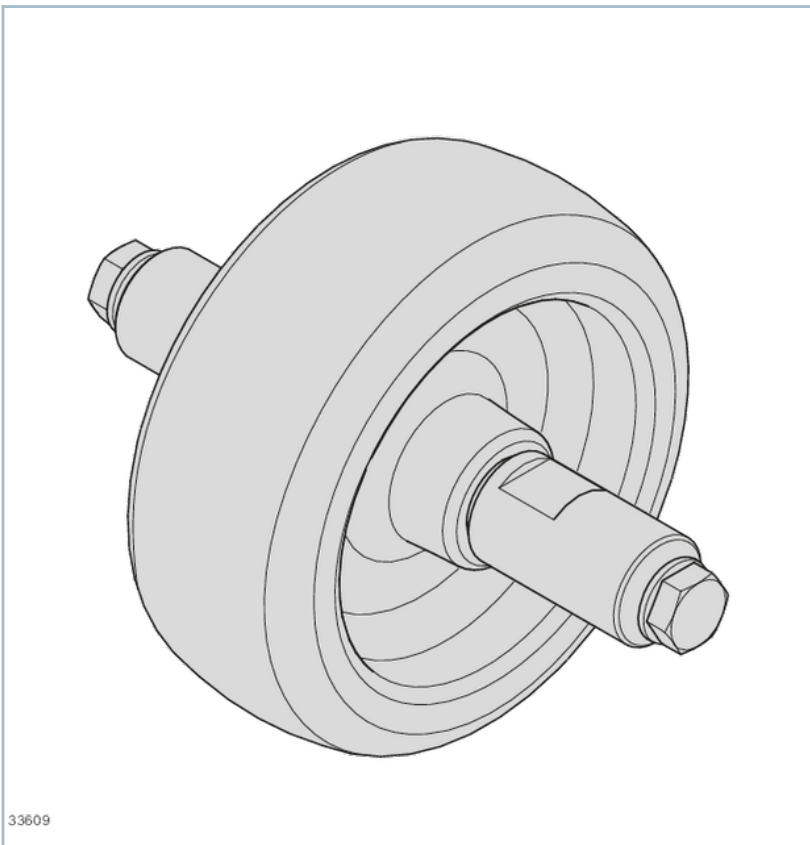
Product description

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



33609

Conveyor noise level

Technical data

	Material
Base unit AL, VFplus 65 dir.	Housing: Diecast aluminum, powder-coated, silver Chain wheel: PA Chain guide: PA Ball bearing: Non-rusting steel 1.4301/FDA Connector: Steel; zinc-plated Hexagonal shaft Up to size 160: PA From size160: Non-rusting steel 1.4301 + PA
Base unit AL, VFplus 90 dir.	
Base unit AL, VFplus 120 dir.	
Base unit AL, VFplus 160 dir.	
Base unit AL, VFplus 240 dir.	

	Material
Base unit AL, VFplus 320 dir.	Housing: Diecast aluminum, powder-coated, silver Chain wheel: PA Chain guide: PA Ball bearing: Non-rusting steel 1.4301/FDA Connector: Steel; zinc-plated Hexagonal shaft Up to size 160: PA From size160: Non-rusting steel 1.4301 + PA
Chain sprocket VFplus 65	
Chain sprocket VFplus 90	
Chain sprocket VFplus 120	
Chain sprocket VFplus 160	
Chain sprocket VFplus 240	
Chain sprocket VFplus 320	

Combination matrix

		Straight			Curves				Drives	
		Section profile AL open	Section profile AL closed	Assembly module	Curve wheel	Roller curve*	Horizontal sliding curve	Vertical curve	Head drive	Curve wheel drive
Straight	Section profile AL open	J								
	Section profile AL closed	J	J							

		Straight			Curves				Drives	
		Section profile AL open	Section profile AL closed	Assembly module	Curve wheel	Roller curve*	Horizontal sliding curve	Vertical curve	Head drive	Curve wheel drive
Straight	Assembly module	J	J	N						
	Curve wheel	J	J	L ⁽²⁾	L ⁽²⁾					
Curves	Roller curve*	J	N	J	N	L ⁽¹⁾				
	Horizontal sliding curve	J	J	J	J	N	L ⁽¹⁾			
	Vertical curve	J	J	J	J	L ⁽¹⁾	L ⁽¹⁾	L ⁽¹⁾		
Drives	Head drive	J	J	L ⁽²⁾	L ⁽²⁾	L ^(1, 4)	L ⁽¹⁾	L ^(1, 4)	N	
	Curve wheel drive	J	J	L ⁽²⁾	L ⁽²⁾	N	L ⁽¹⁾	L ⁽¹⁾	N	N
	Connection drive	J	J	L ⁽²⁾	L ⁽²⁾	N	L ⁽¹⁾	L ⁽¹⁾	N	N
	Center drive (STS)**	L ⁽⁵⁾	L ⁽⁵⁾	L ^(2, 5)	L ^(2, 5)	N	L ^(1, 5)	L ^(1, 5)	N	N
Return Unit	Basic unit	J	J	L ⁽²⁾	L ⁽²⁾	L ^(1, 4)	L ⁽¹⁾	L ^(1, 4)	L ⁽²⁾	N
	90° (STS)**	L ⁽⁵⁾	L ⁽⁵⁾	L ^(2, 5)	L ^(2, 5)	N	L ^(1, 5)	L ^(1, 5)	N	N
	Transmission kit	N	N	N	N	N	N	N	J	N

J

possible without restrictions

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

L

possible with restrictions

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

N

not possible

Drives		Return Unit		
Connection drive	Center drive (STS)**	Basic unit	90° (STS)**	Transmission kit

Drives		Return Unit		
Connection drive	Center drive (STS)**	Basic unit	90° (STS)**	Transmission kit
N				
N	N			
N	L ^{2, 3)}	L ^{2, 3)}		
L ^{2, 5)}	N	N	L ²⁾	
J	N	J	N	N

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

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

--

- 1) Profile connector not required
- 2) Use of a profile piece (L_{min} = 120 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

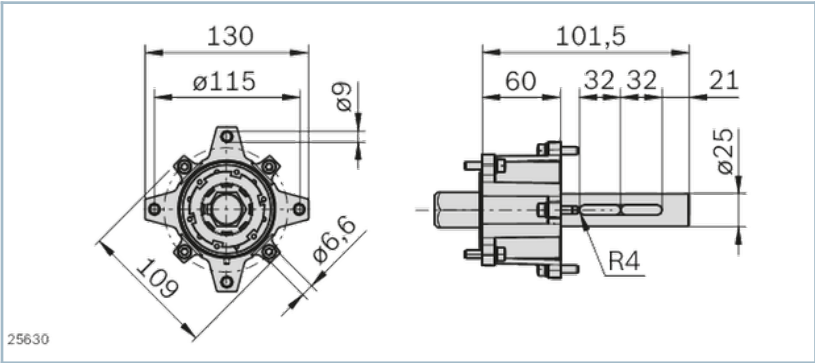
Actual chain and sliding rail lengths of the components

		Actual chain length	Effective sliding rail length
		m	m
Base unit AL, VFplus 65 dir.	3842546120	0,881	2x 0,2
Base unit AL, VFplus 90 dir.	3842546121		
Base unit AL, VFplus 120 dir.	3842546122		
Base unit AL, VFplus 160 dir.	3842546123		4x 0,2
Base unit AL, VFplus 240 dir.	3842546124		
Base unit AL, VFplus 320 dir.	3842546125		
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		

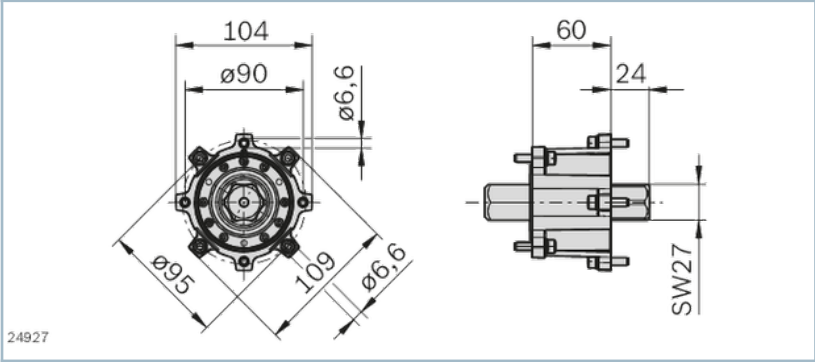
Transport and nominal speed vN

Dimensions

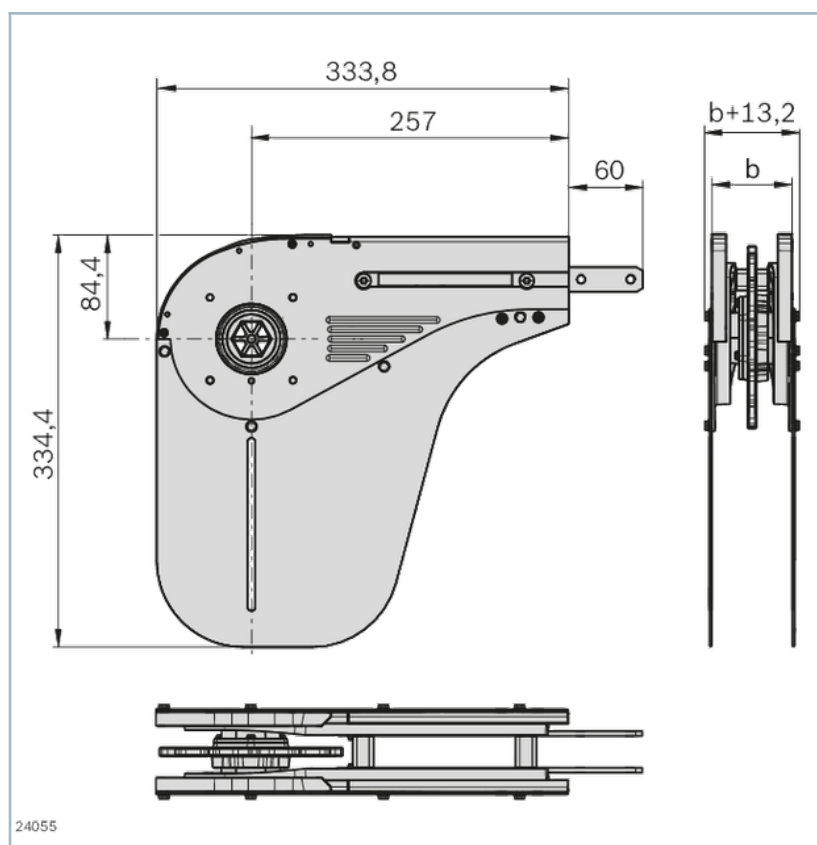
Head drive AL GM = 2



Head drive AL GM = 0



Base unit AL



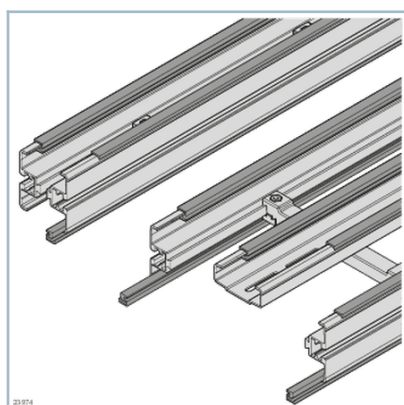
Information

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

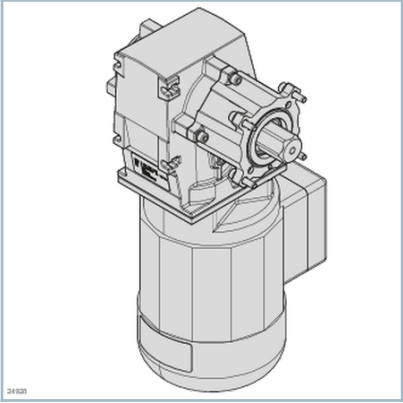
Note: High-pressure cleaning of the ball bearings is not permitted.

Accessories



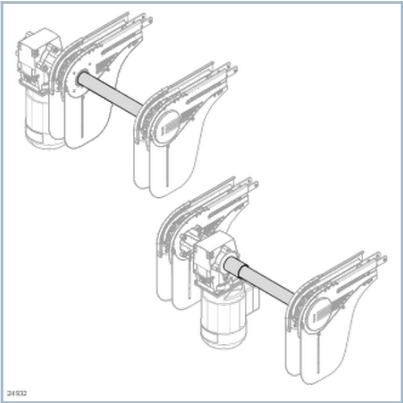
Slide rail

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



Drive kit

- The adjustable ball catch coupling is protected and integrated in the flange to save space



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 AL, VFplus 65 dir.	Assembled: chain guards enclosed
Base unit AL, VFplus 90 dir.	
Base unit AL, VFplus 120 dir.	
Base unit AL, VFplus 160 dir.	
Base unit AL, VFplus 240 dir.	
Base unit AL, 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	

Scope of delivery

Base unit AL, VFplus 65 dir.	Incl. fastening material
Base unit AL, VFplus 90 dir.	
Base unit AL, VFplus 120 dir.	
Base unit AL, VFplus 160 dir.	
Base unit AL, VFplus 240 dir.	
Base unit AL, 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	

Ordering codes

	No.
Base unit AL, VFplus 65 dir.	3842546120
Base unit AL, VFplus 90 dir.	3842546121
Base unit AL, VFplus 120 dir.	3842546122
Base unit AL, VFplus 160 dir.	3842546123
Base unit AL, VFplus 240 dir.	3842546124
Base unit AL, VFplus 320 dir.	3842546125
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