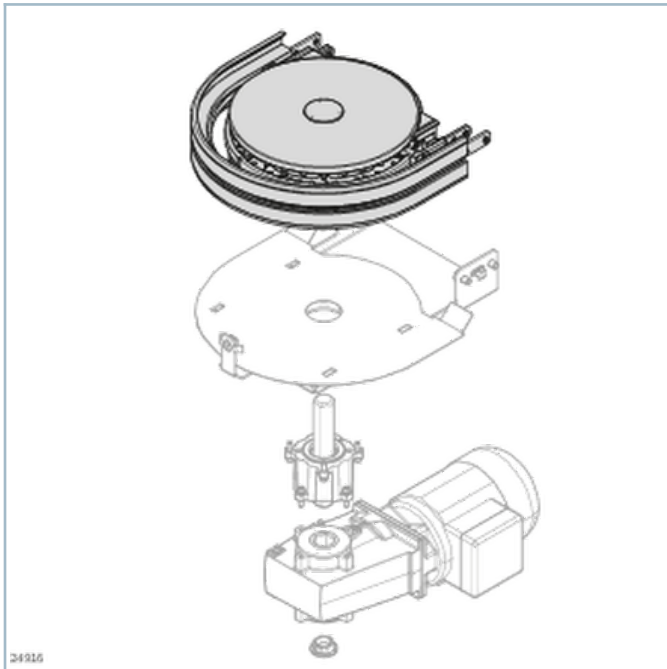
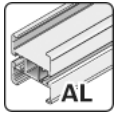


Basic unit curve wheel drive AL



- Basic unit curve wheel drive AF + drive kit curve wheel drive = curve wheel drive
- Driving several superimposed basic curve wheel units (alpine conveyor) is easily implemented via the integrated hexagonal hollow shafts
- Ball bearing made of non-rusting steel (1.4301), with seal on both sides and FDA-compliant grease filling

- Side elements with slot to attach holders for lateral guides, or similar

Product description

The curve wheel drive is used for driving the conveyor chain in circuit systems with a top-running chain. Combining the base unit curve wheel 180° AL with the appropriate drive kit quickly turns it into a curve wheel drive.

- Size: 65, 90
- Suitable chain types: all
- Permissible chain tensile force: $F_{\max} = 400 \text{ N}$ per level, section length for closed circuits: $L \leq 10 \text{ m}$
- Permissible torque: $M_{\max} = 60 \text{ Nm}$

→When combining several curve wheel base units, the motor torque must be distributed across the individual levels

- Conveying speed: $v_N = 4\text{-}21 \text{ m/min}$

→For drives with frequency converters (FU), the speed is to be limited to a maximum of 21 m/min by a control system

- Recommendation: no accumulation operation until 1000 mm after the curve wheel drive
- Can only be used with a closed profile

Innovative drive concept

Conveyor noise level

Technical data

	Material
Base unit KRA AL VFplus 65	Housing: Diecast aluminum Chain wheel: PA; white Ball bearing: Non-rusting steel 1.4301/FDA
Base unit KRA AL VFplus 90	

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							
	Assembly module	J	J	N						
Curves	Curve wheel	J	J	L ⁽²⁾	L ⁽²⁾					

		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
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-STs 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

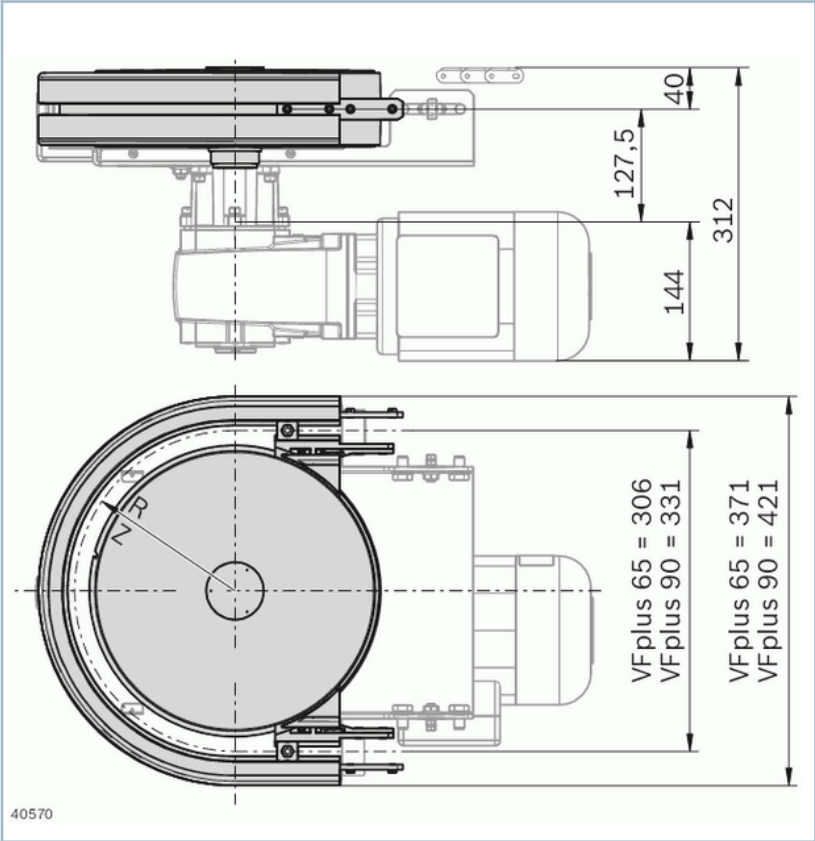
Actual chain and sliding rail lengths of the components

		Actual chain length	Effective sliding rail length
		m	m
Base unit KRA AL VFplus 65	3842547380	0,68	0,82
Base unit KRA AL VFplus 90	3842547381	0,72	0,91

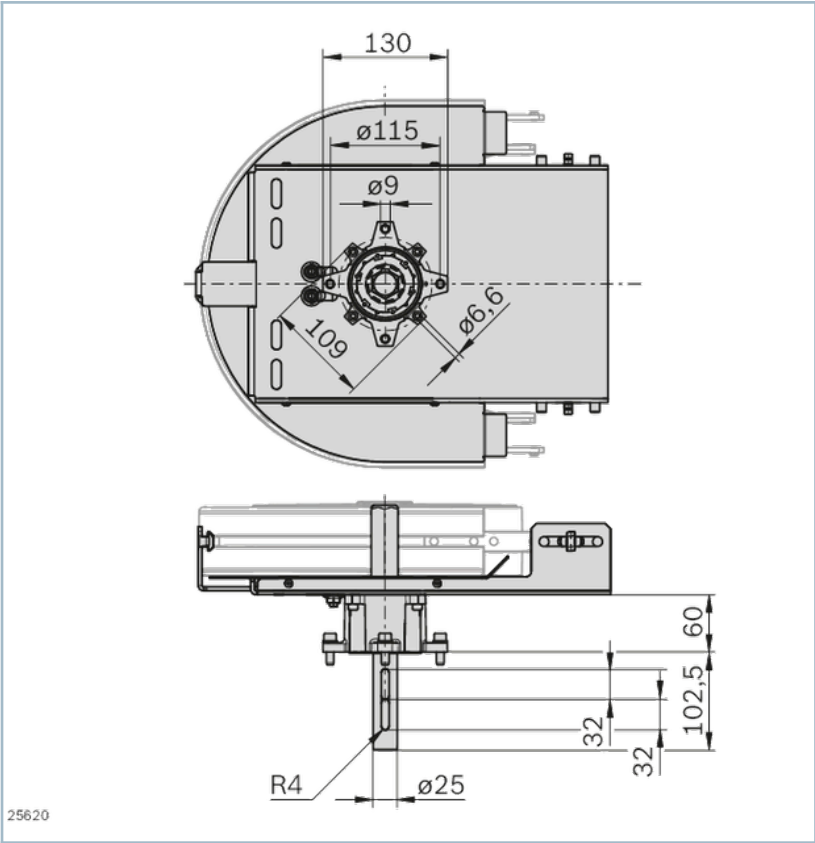
-
Transport and nominal speed vN

Dimensions

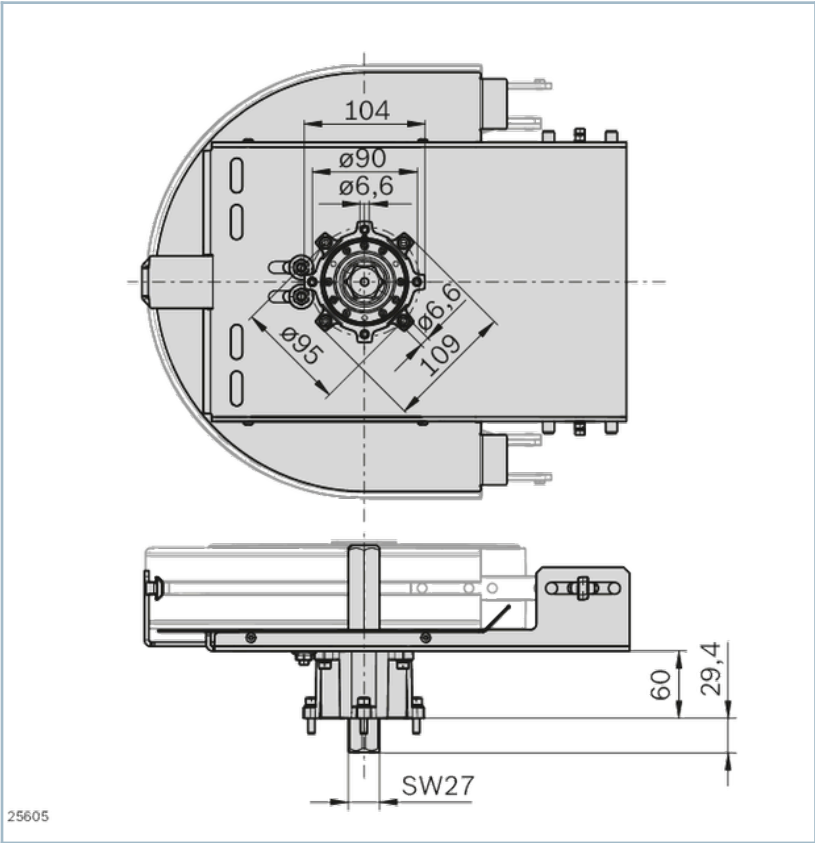
Base unit curve wheel AL



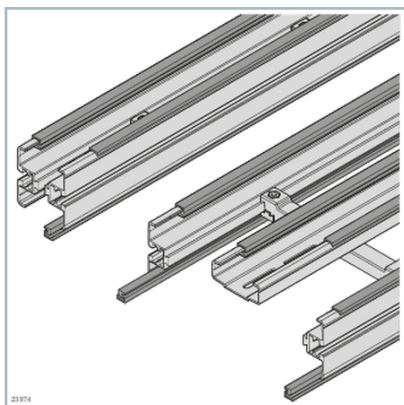
Curve wheel drive AL GM = 2



Curve wheel drive AL GM = 0

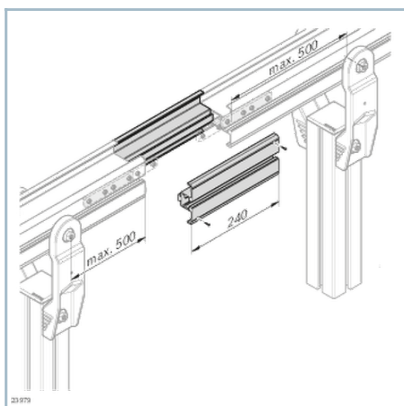


Accessories



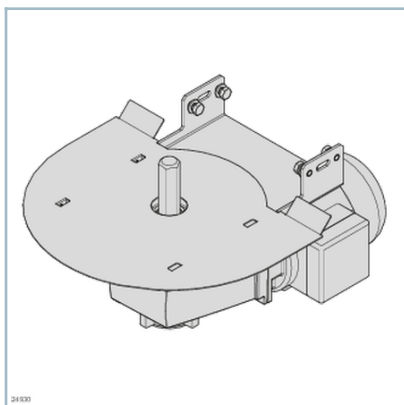
Slide rail

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



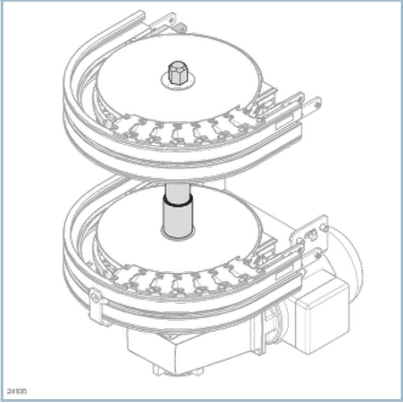
Assembly module AL

[PDF](#) Assembly instructions



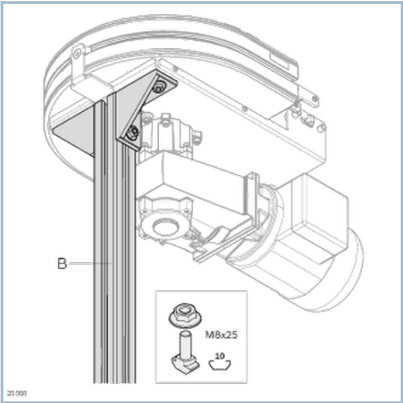
Drive kit curve wheel AL

- The transmission of force of several superimposed curve wheels is possible. The motor torque then has to be distributed across all curve wheel levels.
- The adjustable ball catch coupling is protected and integrated in the flange to save space



Connection kit alpine conveyor

- With the alpine conveyor connection kit, an alpine conveyor in the sizes 65 mm or 90 mm can be easily mounted by combining several basic units of curve wheel drive AL



Curve wheel drive support

- Plug-through screws, few screwed connections
- Easy to clean thanks to ample draining surfaces
- Simple realization of ascending and descending conveyor sections thanks to a holder with centering lugs that can be broken off
- Drilling aid for the simple fastening of drip trays, safety devices, etc.
- Supports can also be used in conjunction with STS sections

Ordering codes

	α	No.
	°	
Base unit KRA AL VFplus 65	180	3842547380
Base unit KRA AL VFplus 90	180	3842547381