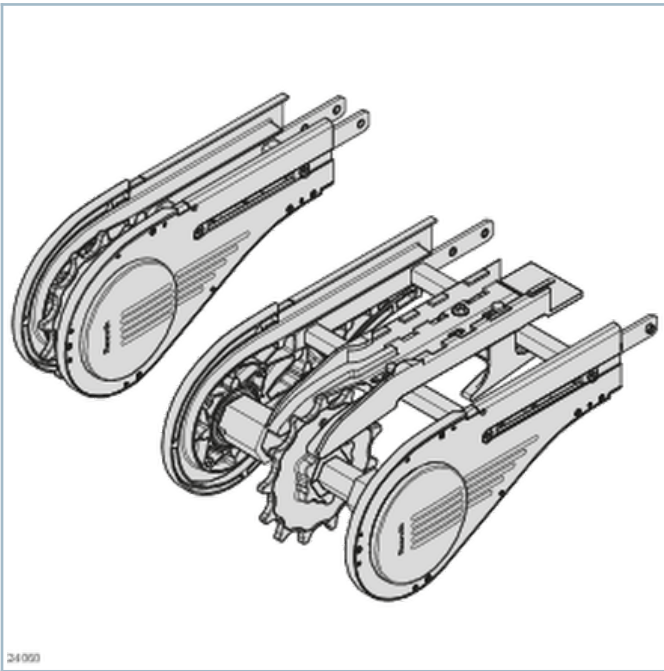
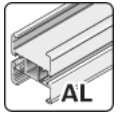


Return unit AL



- Reduced noise emission due to slide rails guided in the return unit
 - 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 slot to attach holders for lateral guides, or similar

Product description

Thanks to the innovative drive concept, the return unit can be operated simply by itself or supplemented with a drive kit to be operated as a head drive without chain bag. The section length is limited to a maximum of 7 m.

- Size: All track widths
- Suitable chain types: All
- Permissible chain tensile force
 - For return unit function: $F_{\max} = 1250 \text{ N}$
 - Head drive function without chain bag: $F_{\max} = 600 \text{ N}$
 - With shortened maintenance interval, due to chain elongation
- Section length for return unit function: $L \leq 30 \text{ m}$
- ↳ Section length for drive function: $L \leq 7 \text{ m}$
- Conveying speed: $v_N = 2 \dots 60 \text{ m/min}$, other speeds available on request
- Use as a drive for wedge conveyors, when combined with a drive kit
- Reversible operation on request

Technical data

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

	Material
Return unit AL; VFplus 160	
Return unit AL; VFplus 240	Housing: Diecast aluminum, powder-coated Chain wheel: PA Chain guide: PA Hexagonal shaft Up to size 160: PA From size 160: Non-rusting steel 1.4301 + PA Connector: Steel; zinc-plated Ball bearing: Non-rusting steel 1.4301/FDA
Return unit AL; 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							
	Assembly module	J	J	N						
Curves	Curve wheel	J	J	L ²⁾	L ²⁾					
	Roller curve*	J	N	J	N	L ¹⁾				
	Horizontal sliding curve	J	J	J	J	N	L ¹⁾			

		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	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			
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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.

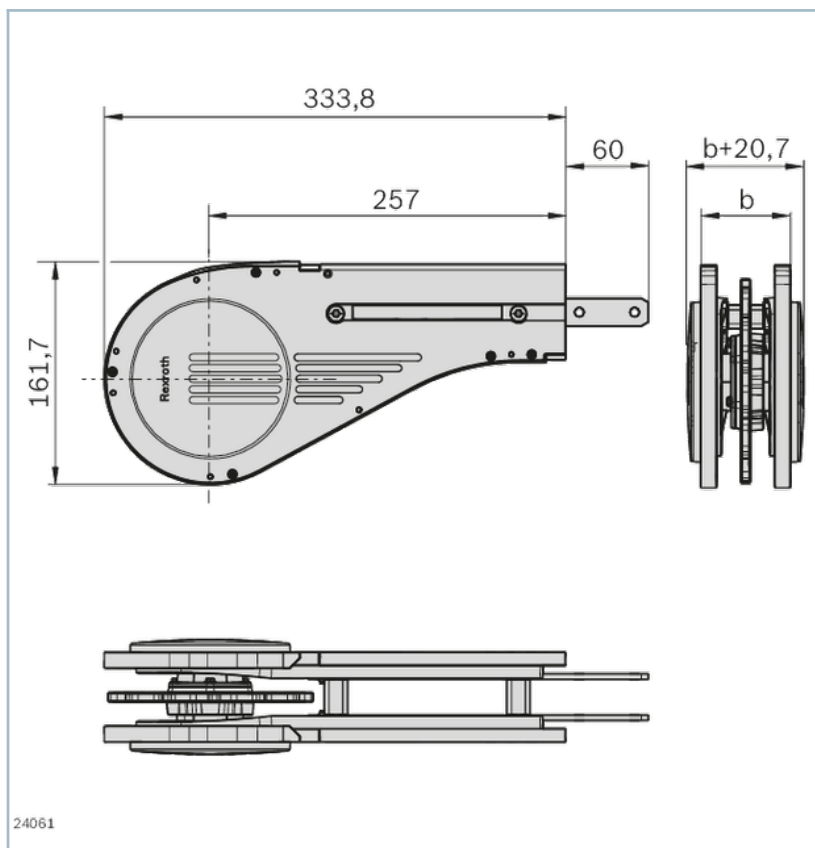
- 1) Profile connector not required
- 2) Use of a profile piece ($L_{min} = 120\text{ mm}$)
- 3) Assembly module required
- 4) For sizes 160-320: shorten the support rail on the dotted line
- 5) Use of the AL-STS adapter

Actual chain and sliding rail lengths of the components

		Actual chain length	Effective sliding rail length
		m	m
Return unit AL; VFplus 65	3842547516	0,742	2x 0,2
Return unit AL; VFplus 90	3842547517		
Return unit AL; VFplus 120	3842547518		
Return unit AL; VFplus 160	3842547519		4x 0,2
Return unit AL; VFplus 240	3842547520		
Return unit AL; VFplus 320	3842547521		

Dimensions

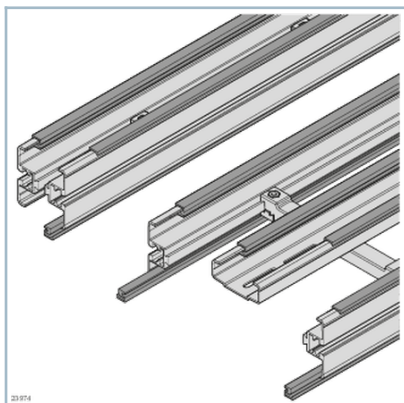
Return unit AL



Information

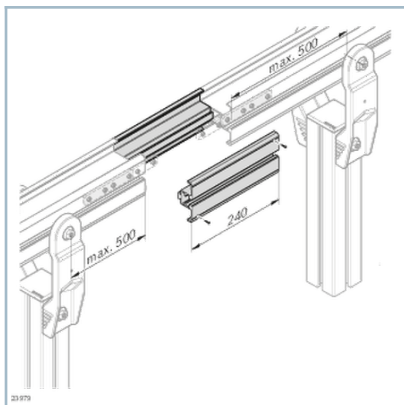
Note: High-pressure cleaning of the ball bearings is not permitted.

Accessories



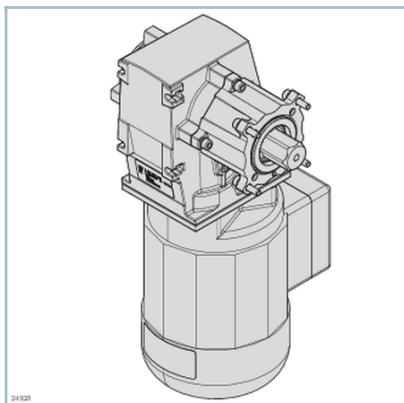
Slide rail

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



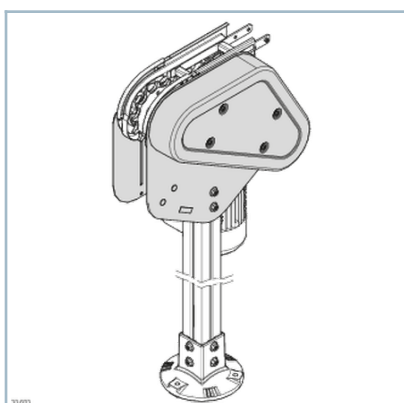
Assembly module AL

PDF Assembly instructions



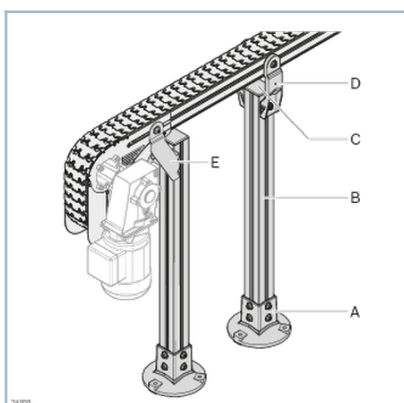
Drive kit

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



Transmission kit

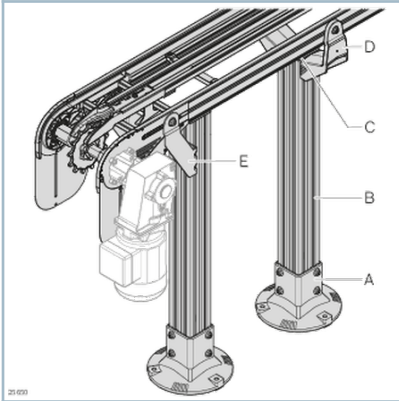
- Installation of the drive kit possible on the right/left (motor, coupling, flange)
- Ball bearing made of non-rusting steel (1.4301), with seal on both sides and FDA-compliant grease



Section support 65-120 AL

- 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
- The chain conveyor 65-120 is placed on the ground and fastened by means of supports or even suspended from the ceiling. The suspension needs to be determined depending on the application.



Section support 160-320 AL

- 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
- Holder is easily centered in the slot thanks to centering lugs
- Very simple assembly thanks to pluggable screw connection
- Easy-to-clean design with draining surfaces

Ordering codes

	No.
Return unit AL; VFplus 65	3842547516
Return unit AL; VFplus 90	3842547517
Return unit AL; VFplus 120	3842547518
Return unit AL; VFplus 160	3842547519
Return unit AL; VFplus 240	3842547520
Return unit AL; VFplus 320	3842547521