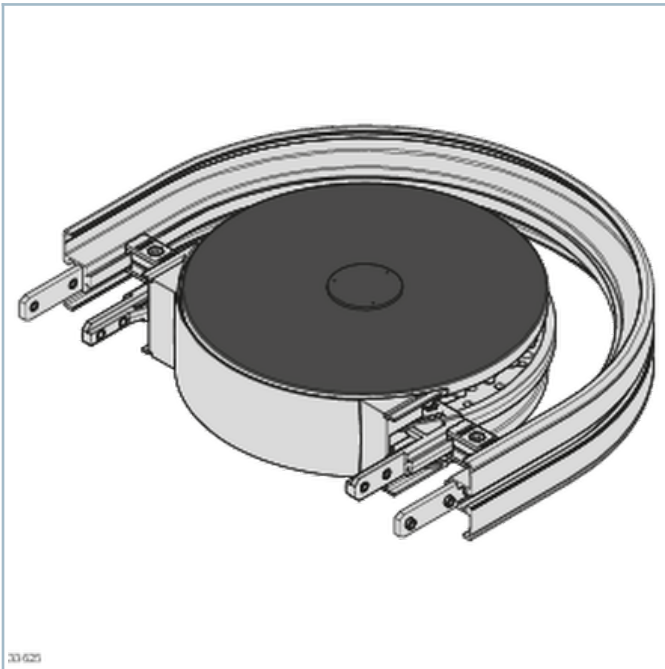
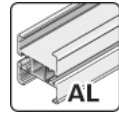


Curve wheel AL ESD



- The curve wheel AL ESD provides a horizontal direction change for the conveyor chain
- It enables low-friction direction changes with very small radii

- No interfering contours above chain plate height

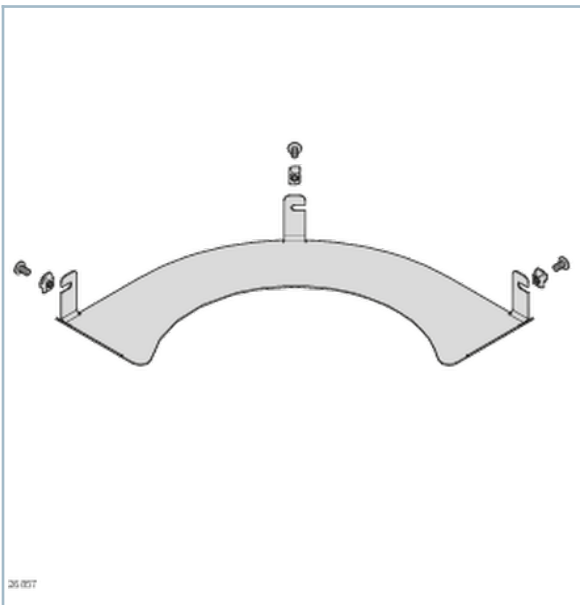
Product description

The curve wheel AL ESD provides a horizontal direction change for the conveyor chain. It enables low-friction direction changes with very small radii.

For attachment options, see the matrix

- Size: 65, 90
- See table for the deflection angles, more deflection angles available on request
- Suitable chain type: ESD conveyor chain
- For circuit systems without conveyor chain return in bottom run (using a curve wheel or connection drive), the appropriate cover must be used for personal safety reasons
- With conductive wheel

Protective cover AL



Technical data

	Material
Curve wheel AL ESD VFplus 65 30°	Housing: Diecast aluminum Chain wheel: PA ESD; black Ball bearing: Non-rusting steel 1.4301/FDA
Curve wheel AL ESD VFplus 65 45°	
Curve wheel AL ESD VFplus 65 90°	
Curve wheel AL ESD VFplus 65 180°	
Curve wheel AL ESD VFplus 90 30°	Housing: Diecast aluminum Chain wheel: PA ESD; black Ball bearings: stainless steel/FDA

	Material
Curve wheel AL ESD VFplus 90 45°	Housing: Diecast aluminum Chain wheel: PA ESD; black Ball bearing: Non-rusting steel 1.4301/FDA
Curve wheel AL ESD VFplus 90 90°	
Curve wheel AL ESD VFplus 90 180°	
Protective cover AL, VFplus 65, 30°	
Protective cover AL, VFplus 65, 45°	
Protective cover AL, VFplus 65, 90°	
Protective cover AL, VFplus 65, 180°	
Protective cover AL, VFplus VFplus 90, 30°	
Protective cover AL, VFplus VFplus 90, 45°	
Protective cover AL, VFplus VFplus 90, 90°	
Protective cover AL, VFplus VFplus 90, 180°	

Combination matrix

		Straight			Curves		Drives		Return Unit	
		Section profile AL open	Section profile AL closed	Assembly module	Curve wheel ESD	Vertical curve	Head drive (STS)	Connection drive (STS)	Center drive (STS)**	Base unit (STS)
Straight	Section profile AL open	J								
	Section profile AL closed	J	J							
	Assembly module	J	J	N						

		Straight			Curves		Drives			Return Unit
		Section profile AL open	Section profile AL closed	Assembly module	Curve wheel ESD	Vertical curve	Head drive (STS)	Connection drive (STS)	Center drive (STS)**	Base unit (STS)
Curves	Curve wheel ESD	J	J	L ⁽²⁾	L ⁽²⁾					
	Vertical curve	J	J	L ⁽²⁾	L ⁽²⁾	L ⁽¹⁾				
Drives	Head drive (STS)	L ⁽⁵⁾	L ⁽⁵⁾	L ^(2, 5)	L ^(2, 5)	L ^(1, 5)	N			
	Connection drive (STS)	L ⁽⁵⁾	L ⁽⁵⁾	L ^(2, 5)	L ^(2, 5)	L ^(1, 5)	N	N		
	Center drive (STS)**	L ⁽⁵⁾	L ⁽⁵⁾	L ^(2, 5)	L ^(2, 5)	L ^(1, 5)	N	N	N	
Return Unit	Base unit (STS)	L ⁽⁵⁾	L ⁽⁵⁾	L ^(2, 5)	L ^(2, 5)	L ^(1, 5)	L ⁽²⁾	N	L ⁽²⁾	L ^(2, 3)
	90° (STS)**	L ⁽⁵⁾	L ⁽⁵⁾	L ^(2, 5)	L ^(2, 5)	L ^(1, 5)	L ⁽²⁾	L ⁽²⁾	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									

Return Unit

90° (STS)**

Return

Unit

90°

(STS)**

L²⁾

** AL-

STS

adapter

- 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)

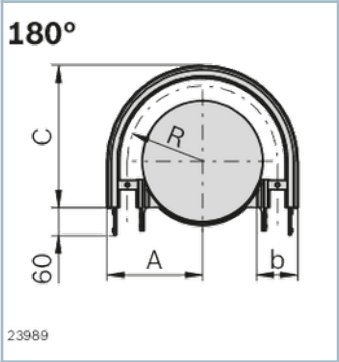
Actual chain and sliding rail lengths of the components

		Actual chain length	Effective sliding rail length
		m	m
Curve wheel AL ESD VFplus 65 30°	3842553029	2x 0,28	2x 0,34
Curve wheel AL ESD VFplus 65 45°	3842553030	2x 0,32	2x 0,38
Curve wheel AL ESD VFplus 65 90°	3842553031	2x 0,44	2x 0,53
Curve wheel AL ESD VFplus 65 180°	3842553032	2x 0,68	2x 0,82
Curve wheel AL ESD VFplus 90 30°	3842553033	2x 0,28	2x 0,35
Curve wheel AL ESD VFplus 90 45°	3842553034	2x 0,33	2x 0,41

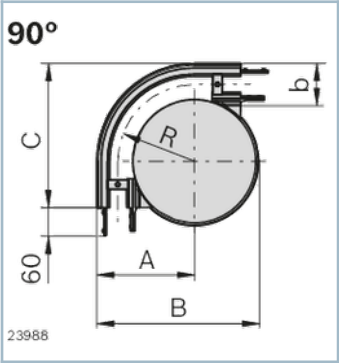
		Actual chain length	Effective sliding rail length
		m	m
Curve wheel AL ESD VFplus 90 90°	3842553035	2x 0,46	2x 0,58
Curve wheel AL ESD VFplus 90 180°	3842553036	2x 0,72	2x 0,91
Protective cover AL, VFplus 65, 30°	3842551545		
Protective cover AL, VFplus 65, 45°	3842551546		
Protective cover AL, VFplus 65, 90°	3842551547		
Protective cover AL, VFplus 65, 180°	3842551548		
Protective cover AL, VFplus VFplus 90, 30°	3842551549		
Protective cover AL, VFplus VFplus 90, 45°	3842551550		
Protective cover AL, VFplus VFplus 90, 90°	3842551551		
Protective cover AL, VFplus VFplus 90, 180°	3842551552		

Dimensions

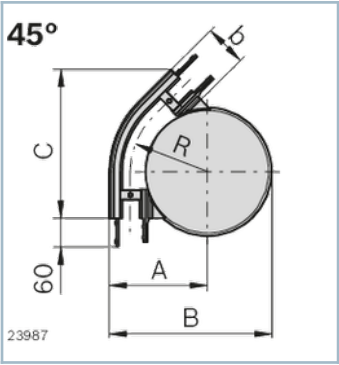
Curve wheel AL VFplus 180°



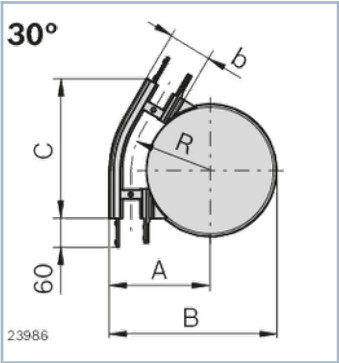
Curve wheel AL VFplus 90°



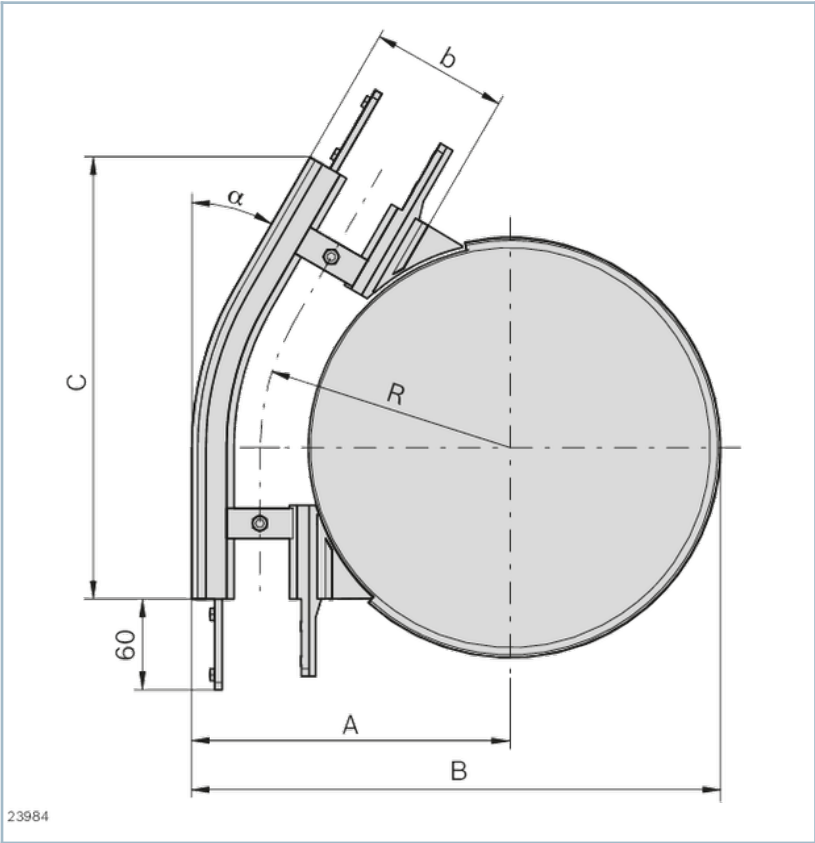
Curve wheel AL VFplus 45°



Curve wheel AL VFplus 30°



Curve wheel AL



Deflection angles and radii

b	α	A	B	C	R
mm	°	mm	mm	mm	mm
65	30	185.5	324.5	279.4	153
	45	185.5	324.5	301.9	153
	90	185.5	324.5	285.5	153
	180	185.5		285.5	153
90	30	210.5	349.5	291.9	165.5
	45	210.5	349.5	319.6	165.5
	90	210.5	349.5	310.5	165.5
	180	210.5		310.5	165.5
	30				
	45				
	90				
	180				
	30				
	45				
	90				
	180				

Information

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

Delivery notes

Condition of Delivery

Fully assembled

Scope of delivery

Incl. fastening material for mounting to the AL section profile

Ordering codes

	α	R	No.
	°	mm	
Curve wheel AL ESD VFplus 65 30°	30	153	3842553029
Curve wheel AL ESD VFplus 65 45°	45	153	3842553030
Curve wheel AL ESD VFplus 65 90°	90	153	3842553031
Curve wheel AL ESD VFplus 65 180°	180	153	3842553032
Curve wheel AL ESD VFplus 90 30°	30	165.5	3842553033
Curve wheel AL ESD VFplus 90 45°	45	165.5	3842553034
Curve wheel AL ESD VFplus 90 90°	90	165.5	3842553035

	α	R	No.
	°	mm	
Curve wheel AL ESD VFplus 90 180°	180	165.5	3842553036
Protective cover AL, VFplus 65, 30°	30		3842551545
Protective cover AL, VFplus 65, 45°	45		3842551546
Protective cover AL, VFplus 65, 90°	90		3842551547
Protective cover AL, VFplus 65, 180°	180		3842551548
Protective cover AL, VFplus VFplus 90, 30°	30		3842551549
Protective cover AL, VFplus VFplus 90, 45°	45		3842551550
Protective cover AL, VFplus VFplus 90, 90°	90		3842551551
Protective cover AL, VFplus VFplus 90, 180°	180		3842551552