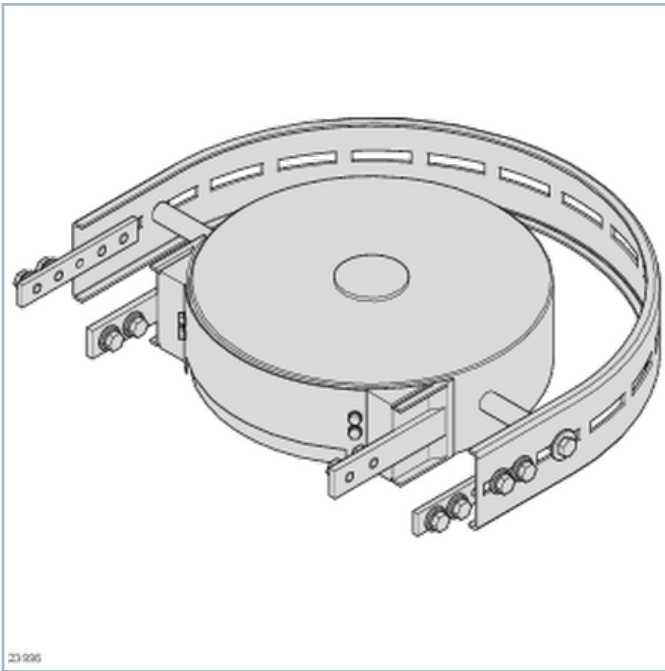




Curve wheel STS



- Easy-to-clean design
- Ball bearing made of non-rusting steel (1.4301), with seal on both sides and FDA-compliant grease filling

- Surfaces in contact with chain made of FDA-compliant materials
- No interfering contours above chain plate height
- Can be used horizontally and vertically (for wedge conveyors)

Product description

The curve wheel is used for the horizontal change in direction of the chain. It enables low-friction direction changes with very small radii.

- Size: 65, 90, 120
- For deflection angles, see table
- Other deflection angles on request
- Suitable chain types: all

Technical data

	Material
Curve wheel STS VFplus 65 30°	Housing: Non-rusting steel 1.4301 Chain wheel: PA; white Ball bearing: Non-rusting steel 1.4301/FDA
Curve wheel STS VFplus 65 45°	
Curve wheel STS VFplus 65 90°	
Curve wheel STS VFplus 65 180°	
Curve wheel STS VFplus 90 30°	
Curve wheel STS VFplus 90 45°	
Curve wheel STS VFplus 90 90°	
Curve wheel STS VFplus 90 180°	
Curve wheel STS VFplus 120 30°	
Curve wheel STS VFplus 120 45°	
Curve wheel STS VFplus 120 90°	
Curve wheel STS VFplus 120 180°	

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							
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

Return 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)

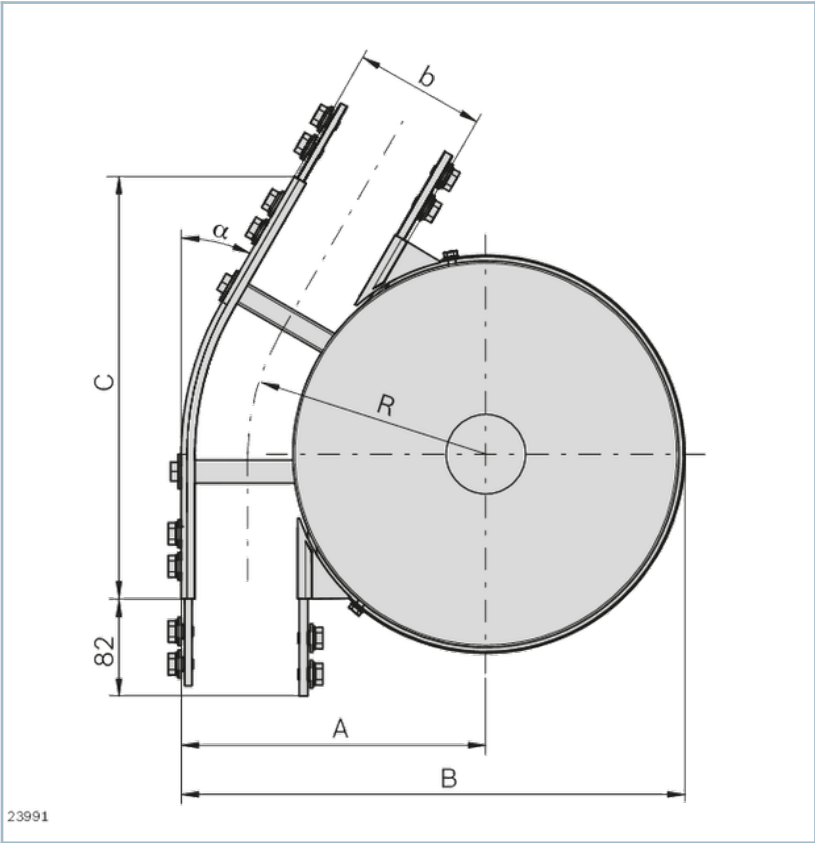
Actual chain and sliding rail lengths of the components

		Actual chain length	Effective sliding rail length
		m	m
Curve wheel STS VFplus 65 30°	3842547111	2x 0,28	2x 0,34
Curve wheel STS VFplus 65 45°	3842547112		2x 0,35
Curve wheel STS VFplus 65 90°	3842547113	2x 0,44	2x 0,53
Curve wheel STS VFplus 65 180°	3842547114	2x 0,68	2x 0,82

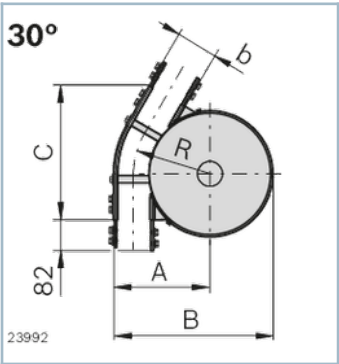
		Actual chain length	Effective sliding rail length
		m	m
Curve wheel STS VFplus 90 30°	3842547115	2x 0,28	2x 0,35
Curve wheel STS VFplus 90 45°	3842547116	2x 0,33	2x 0,41
Curve wheel STS VFplus 90 90°	3842547117	2x 0,46	2x 0,58
Curve wheel STS VFplus 90 180°	3842547118	2x 0,72	2x 0,91
Curve wheel STS VFplus 120 30°	3842547119	2x 0,29	2x 0,38
Curve wheel STS VFplus 120 45°	3842547120	2x 0,34	2x 0,44
Curve wheel STS VFplus 120 90°	3842547121	2x 0,48	2x 0,63
Curve wheel STS VFplus 120 180°	3842547122	2x 0,77	2x 1,01

Dimensions

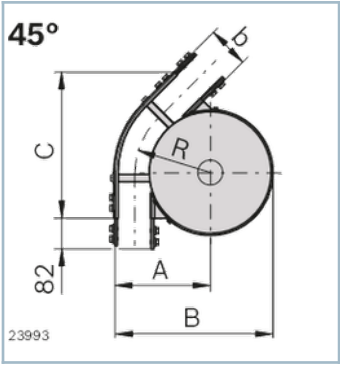
Curve wheel STS



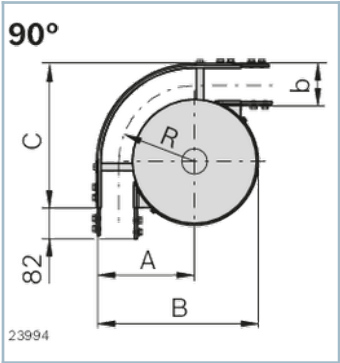
Curve wheel STS VFplus 30°



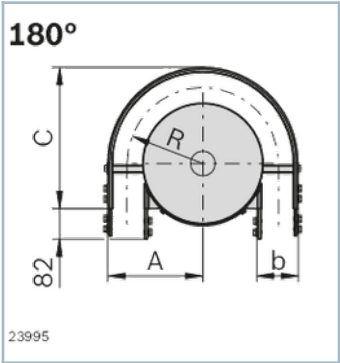
Curve wheel STS VFplus 45°



Curve wheel AL VFplus 90°



Curve wheel STS VFplus 180°



Deflection angles and radii

b	α	A	B	C	R
mm	°	mm	mm	mm	mm
65	30	185.5	322.5	279.4	153
	45	185.5	322.5	301.9	153
	90	185.5	322.5	285.5	153
	180	185.5		287.5	153
90	30	210.5	347.5	291.9	165.5
	45	210.5	347.5	319.6	165.5
	90	210.5	347.5	310.5	165.5
	180	210.5		310.5	165.5
120	30	240.5	377.5	306.9	180.5
	45	240.5	377.5	340.8	180.5
	90	240.5	377.5	340.5	180.5

120	180	240.5		340.5	180.5
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Information

Notice:

- High-pressure cleaning of the ball bearings is not permitted.
- In combination with the connection drive STS, the lower branch must be covered by the customer

Ordering codes

	α	R	No.
	°	mm	
Curve wheel STS VFplus 65 30°	30	153	3842547111
Curve wheel STS VFplus 65 45°	45	153	3842547112
Curve wheel STS VFplus 65 90°	90	153	3842547113
Curve wheel STS VFplus 65 180°	180	153	3842547114
Curve wheel STS VFplus 90 30°	30	165.5	3842547115
Curve wheel STS VFplus 90 45°	45	165.5	3842547116
Curve wheel STS VFplus 90 90°	90	165.5	3842547117
Curve wheel STS VFplus 90 180°	180	165.5	3842547118
Curve wheel STS VFplus 120 30°	30	180.5	3842547119
Curve wheel STS VFplus 120 45°	45	180.5	3842547120
Curve wheel STS VFplus 120 90°	90	180.5	3842547121
Curve wheel STS VFplus 120 180°	180	180.5	3842547122