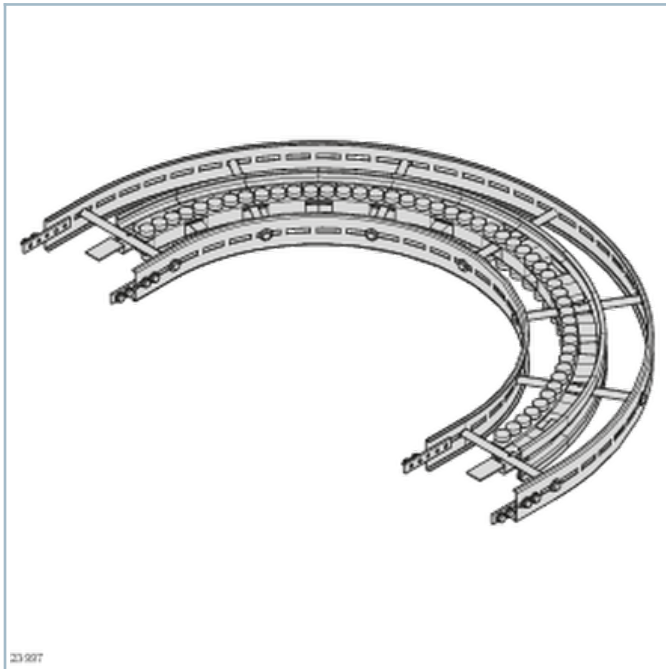




Roller curve horizontal STS



- Patented roller elements for low-friction, quieter changes in chain direction
- 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

Product description

The low-friction roller curve is used for the horizontal change in direction of the chain. Plastic-coated roller elements with ball bearings enable longer conveyor sections. The service life of the chain is increased and system costs are reduced.

- Size: 160, 240, 320
- Deflection angles
- Deflection radius: R500
- Suitable chain types: all
- Version with open section profiles

Technical data

	Material
Roller curve horizontal STS VFplus 160 30°	Profile: Non-rusting steel 1.4301 Roller carrier: PA 66 Ball bearing: Non-rusting steel 1.4301/FDA Connector: Non-rusting steel 1.4301 Rollers: PA
Roller curve horizontal STS VFplus 160 45°	
Roller curve horizontal STS VFplus 160 90°	
Roller curve horizontal STS VFplus 160 180°	
Roller curve horizontal STS VFplus 240 30°	
Roller curve horizontal STS VFplus 240 45°	
Roller curve horizontal STS VFplus 240 90°	

	Material
Roller curve horizontal STS VFplus 240 180°	Profile: Non-rusting steel 1.4301 Roller carrier: PA 66 Ball bearing: Non-rusting steel 1.4301/FDA Connector: Non-rusting steel 1.4301 Rollers: PA
Roller curve horizontal STS VFplus 320 30°	
Roller curve horizontal STS VFplus 320 45°	
Roller curve horizontal STS VFplus 320 90°	
Roller curve horizontal STS VFplus 320 180°	

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⁾				

		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
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

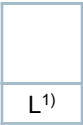
not possible

Return Unit

90° **

Retur
n Unit

90° **



*

Supp
ort

** AL-
STS
adapt



- 1) Profile connector not required
- 2) Use of a profile piece ($L_{min} = 224\text{ mm}$)
- 3) Assembly module required
- 4) For sizes 160-320: shorten the support rail on the dotted line
- 5) Use of the AL-STS adapter
- 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

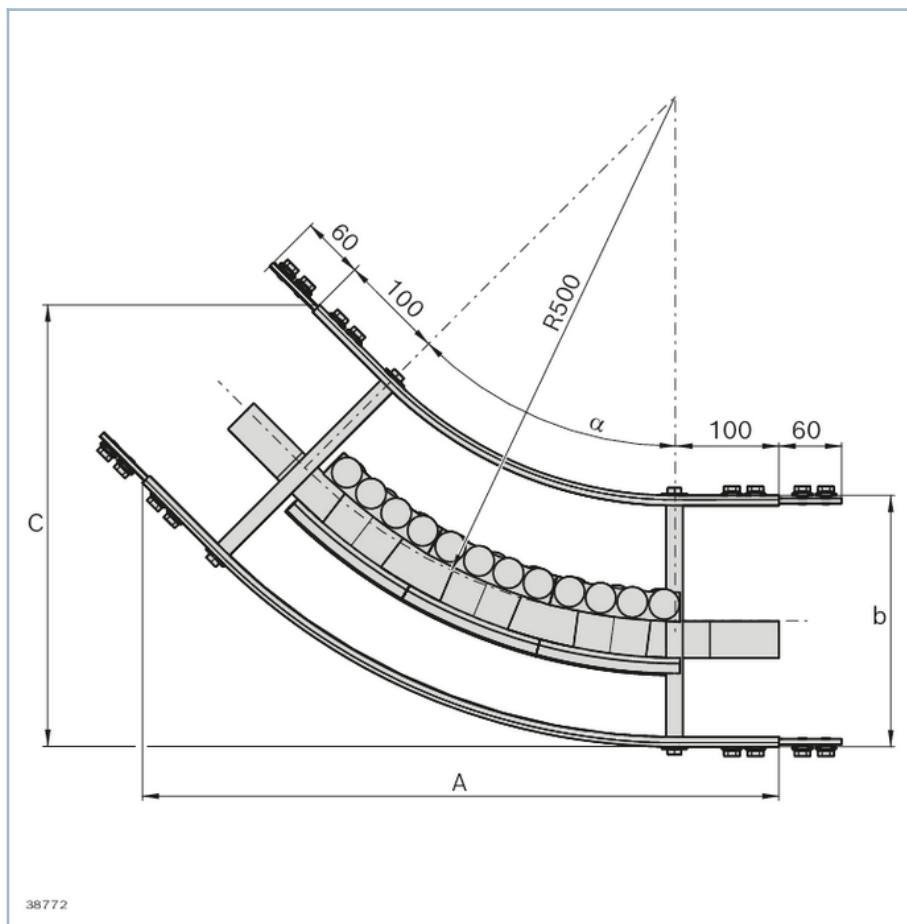
		Actual chain length	Effective sliding rail length
		m	m
Roller curve horizontal STS VFplus 160 30°	3842547123	2x 0,46	5x 0,46
Roller curve horizontal STS VFplus 160 45°	3842547124	2x 0,59	5x 0,59
Roller curve horizontal STS VFplus 160 90°	3842547125	2x 0,98	5x 0,98
Roller curve horizontal STS VFplus 160 180°	3842547126	2x 1,77	5x 1,77
Roller curve horizontal STS VFplus 240 30°	3842547127	2x 0,46	5x 0,46
Roller curve horizontal STS VFplus 240 45°	3842547128	2x 0,59	5x 0,59
Roller curve horizontal STS VFplus 240 90°	3842547129	2x 0,98	5x 0,98
Roller curve horizontal STS VFplus 240 180°	3842547130	2x 1,77	5x 1,77
Roller curve horizontal STS VFplus 320 30°	3842547131	2x 0,46	5x 0,46
Roller curve horizontal STS VFplus 320 45°	3842547132	2x 0,59	5x 0,59
Roller curve horizontal STS VFplus 320 90°	3842547133	2x 0,98	5x 0,98
Roller curve horizontal STS VFplus 320 180°	3842547134	2x 1,77	5x 1,77

Dimensions

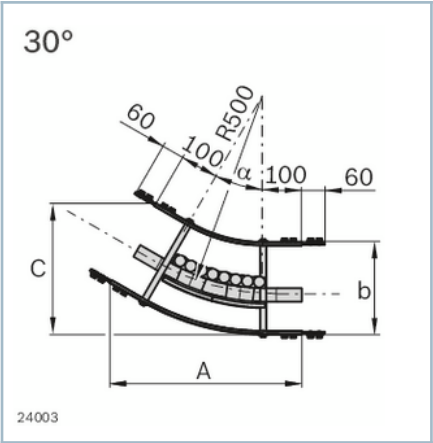
Deflection angles and radii

b	α	A	C
mm	°	mm	mm
160	30	476.6	266.3
	45	580.8	353.7
	90	680	680
	180	1160	680
240	30	496.6	340.9
	45	609.1	422
	90	720	720
	180	1240	720
320	30	516.6	415.6
	45	637.4	490.3
	90	760	760
	180	1320	760

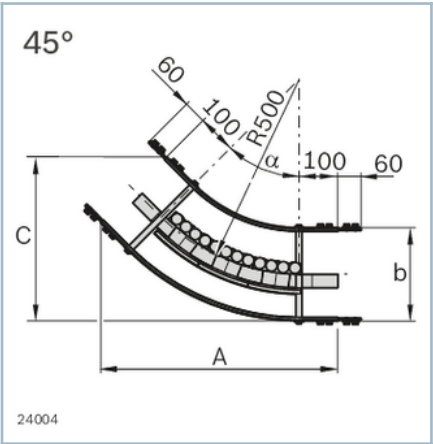
Roller curve STS



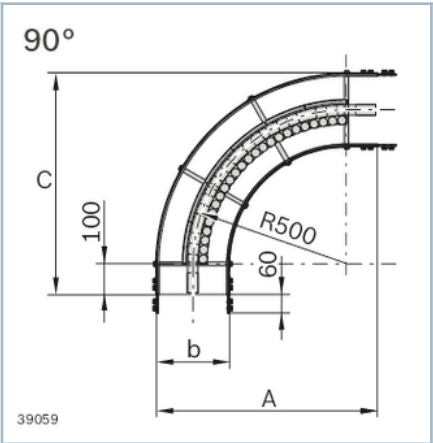
Roller curve STS 30°



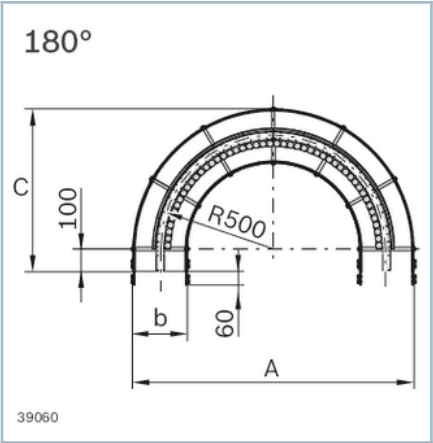
Roller curve STS 45°



Roller curve STS 90°



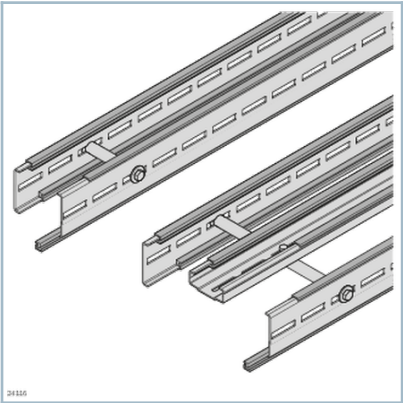
Roller curve STS 180°



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

Ordering codes

	α	No.
	°	
Roller curve horizontal STS VFplus 160 30°	30	3842547123
Roller curve horizontal STS VFplus 160 45°	45	3842547124
Roller curve horizontal STS VFplus 160 90°	90	3842547125
Roller curve horizontal STS VFplus 160 180°	180	3842547126
Roller curve horizontal STS VFplus 240 30°	30	3842547127
Roller curve horizontal STS VFplus 240 45°	45	3842547128
Roller curve horizontal STS VFplus 240 90°	90	3842547129
Roller curve horizontal STS VFplus 240 180°	180	3842547130

	α	No.
	$^{\circ}$	
Roller curve horizontal STS VFplus 320 30°	30	3842547131
Roller curve horizontal STS VFplus 320 45°	45	3842547132
Roller curve horizontal STS VFplus 320 90°	90	3842547133
Roller curve horizontal STS VFplus 320 180°	180	3842547134