



Sliding curve horizontal STS



- The sliding curve provides a horizontal change in direction for the chain, for when there is not enough space for a curve wheel or the speeds or product dimensions do not permit conveying over a curve wheel

Product description

The sliding curve is used to reduce noise at high speeds or when transporting long products in wedge conveyors. The chain tensile force is increased through the ensuing friction.

- Size: 65, 90, 120
- Deflection angles and radii (other deflection angles and radii on request)
- Suitable chain types: All
- Version with open section profiles
- Requires the use of the 'Advanced' or 'Premium' sliding rails
- Use in abrasive environments is not permissible

Technical data

Material

Non-rusting steel 1.4301

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	

		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
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-STIS adapter included in the scope of delivery.

N

not possible

Return Unit

90° **

L ¹⁾

*

Support

Retur
n Unit

90° **

** AL-
STS
adapt



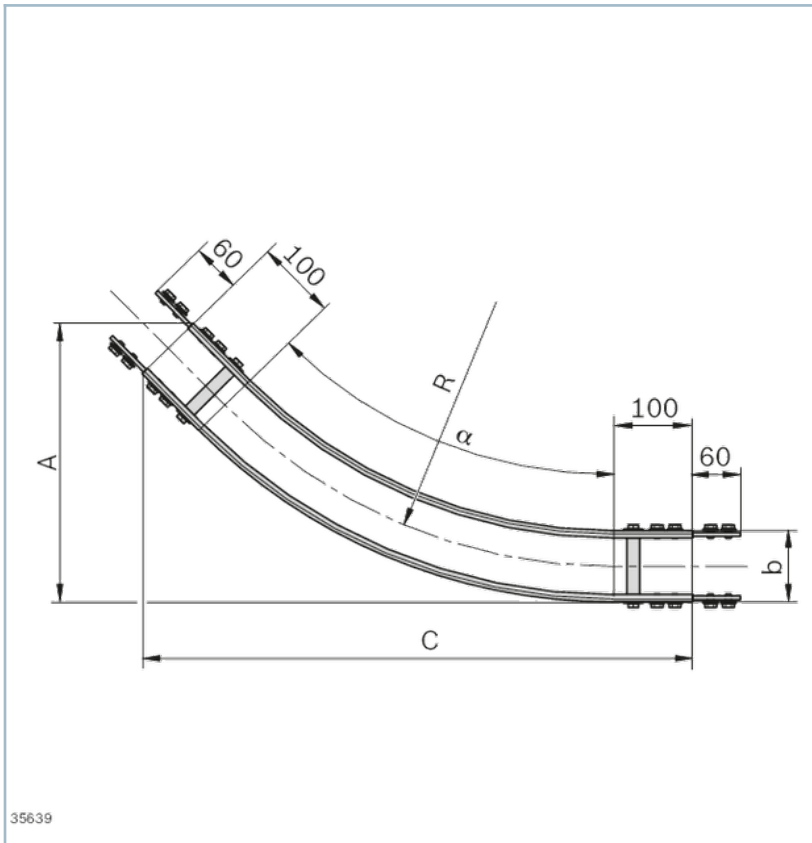
- 1) Profile connector not required
- 2) Use of a profile piece ($L_{\min} = 224 \text{ mm}$)
- 3) Assembly module required
- 4) For sizes 160-320: shorten the support rail on the dotted line
- 5) Use of the AL-STS adapter
- 6) Replace the standard profile connector with STS Clean Section profile connector
- 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
Horizontal sliding curve STS VFplus 65 30°	3842557051	2x 0,56	4x 0,56
Horizontal sliding curve STS VFplus 65 45°	3842557052	2x 0,75	4x 0,75
Horizontal sliding curve STS VFplus 65 90°	3842557053	2x 1,3	4x 1,3
Horizontal sliding curve STS VFplus 90 45° R500	3842557054		
Horizontal sliding curve STS VFplus 90 90° R500	3842557055		
Horizontal sliding curve STS VFplus 90 30° R700	3842557056	2x 0,56	4x 0,56
Horizontal sliding curve STS VFplus 90 45° R700	3842557057	2x 0,75	4x 0,75
Horizontal sliding curve STS VFplus 90 90° R700	3842557058	2x 1,3	4x 1,3
Horizontal sliding curve STS VFplus 120 30°	3842557059	2x 0,56	4x 0,56
Horizontal sliding curve STS VFplus 120 45°	3842557060	2x 0,75	4x 0,75
Horizontal sliding curve STS VFplus 120 90°	3842557061	2x 1,3	4x 1,3

Dimensions

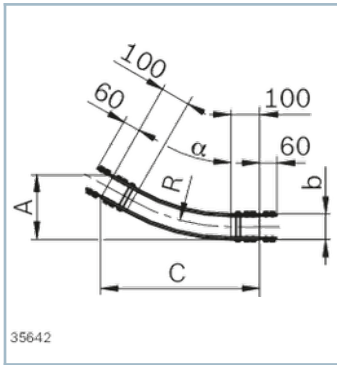
Sliding curve horizontal STS



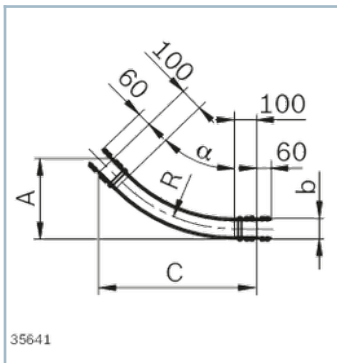
Deflection angles and radii

b	α	A	C	R
mm	°	mm	mm	mm
65	30	204.4	552.9	700
	45	331.2	688.7	700
	90	832.5	832.5	700
90	45	294	556.1	500
	90	645	645	500
	30	227.8	559.1	700
	45	352.6	697.5	700
	90	845	845	700
120	30	255.7	566.6	700
	45	378.2	708.1	700
	90	860	860	700

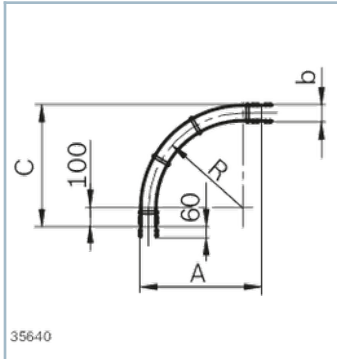
Sliding curve horizontal STS 30°



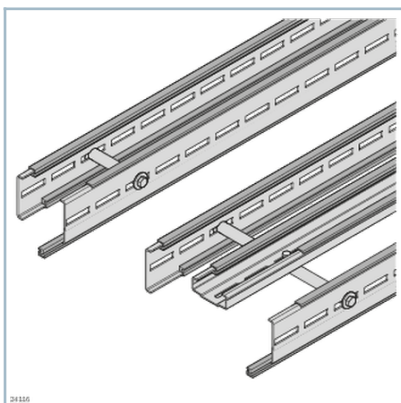
Sliding curve horizontal STS 45°



Sliding curve horizontal STS 90°



Accessories



Slide rail

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

Delivery notes

Condition of Delivery

Fully assembled

Scope of delivery

Incl. fastening material for mounting to STS section profiles

Ordering codes

	α	R	No.
	°	mm	
Horizontal sliding curve STS VFplus 65 30°	30	700	3842557051
Horizontal sliding curve STS VFplus 65 45°	45	700	3842557052
Horizontal sliding curve STS VFplus 65 90°	90	700	3842557053
Horizontal sliding curve STS VFplus 90 45° R500	45	500	3842557054
Horizontal sliding curve STS VFplus 90 90° R500	90	500	3842557055
Horizontal sliding curve STS VFplus 90 30° R700	30	700	3842557056
Horizontal sliding curve STS VFplus 90 45° R700	45	700	3842557057
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