

# Conveyor system XS

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## System information



### Chain width 44 mm



### Features

Chain permits transport of very small items which are otherwise difficult to handle. Compact and neat design.

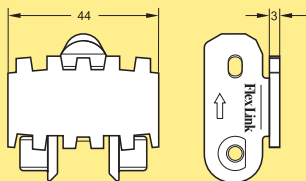
### Examples of application areas

Small ball bearings, perfume bottles, pharmaceutical bottles, sintered metal components.

### Technical characteristics

Drive unit capacity limit .....	500 N
Chain tension limit .....	500 N
Beam width .....	45 mm
Chain width .....	44 mm
Chain pitch.....	25,4 mm
Item width .....	10–80 mm
Maximum item weight	
Horizontal transport.....	2 kg
Vertical transport.....	1 kg
Maximum weight on conveyor.....	150 kg
Maximum conveyor length .....	30 m
Maximum permitted load per link	0,5 kg

## Plain chain



Plain chain  
Length 5 m

**XSTP 5**

Plain link kit

**5056061**

Plain chain (Ultra low wear)  
Length 5 m

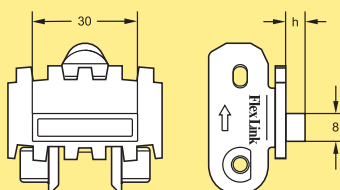
**XSTP 5 C**

Plain link kit (Ultra low wear)

**n.a.**

*Note. Link kit contains 10 links, 10 pivot, 10 steel pins.*

## Cleated chain, Type D



Cleated chain Type D,  
Length 5 m

h=3

**XSTF 5x3 D**

h=5,5

**XSTF 5x5.5 D**

h=9

**XSTF 5x9 D**

h=27

**XSTF 5x27 D**

*Use the online configurator to specify and order.*

Cleated link kit

h=3

**5056052**

h=5,5

**5056049**

h=9

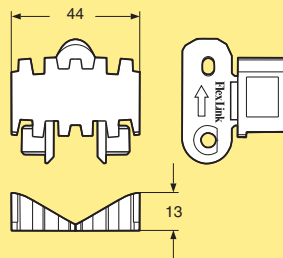
**5056045**

h=27

**5056053**

*Note. Link kit contains 10 links, 10 pivot, 10 steel pins.*

## Cleated chain (flat top cleats)



Cleated chain  
Length 5 m

**3903721**

Cleated link kit

**5056626**

*Note. Link kit contains 10 links, 10 pivot, 10 steel pins.*

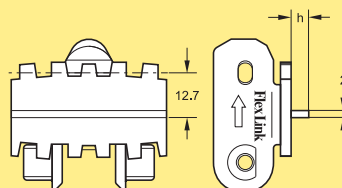
## Other chains

See the Chain guide for selection of other chains.

## Chain installation

See Appendix "D. Chain installation" on page 475,

## Cleated chain, Type G



Cleated chain Type G

Length 5 m

h=3

**XSTF 5x3 G**

h=5

**XSTF 5x5 G**

h=9

**XSTF 5x9 G**

*Use the online configurator to specify and order.*

Cleated link kits

h=3

**5056051**

h=5

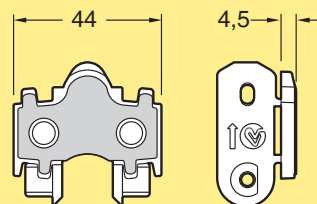
**5056050**

h=9

**5056043**

*Note. Link kit contains 10 links, 10 pivot, 10 steel pins.*

## Steel top chain



Steel top chain

Length 5 m

**XSTP 5 TF**

Steel top link kit

**5056634**

*Note. Link kit contains 10 links, 10 pivot, 10 steel pins.*

Plastic pivot for chain



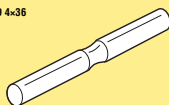
Plastic pivot kit XS

5111489

Plastic pivot kit, 25 pc

Steel pin

XLTD 4x36

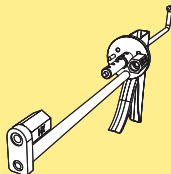
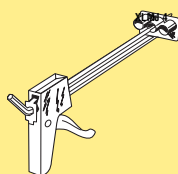


Steel pin kit XS

5111492

Steel pin kit, 25 pc

Pin insertion tool for chain



Pin insertion tool

XS-X65-XT

XS-X65-XT, PRO version

XLMJ 4

XLMJ 4 P

This product is recommended for frequent users.

PO

CC

X45

XS

X65

X65P

X85

X85P

XH

XK

XKP

X180

X300

GR

CS

XT

WL

WK

XC

XF

XD

ELV

CTL

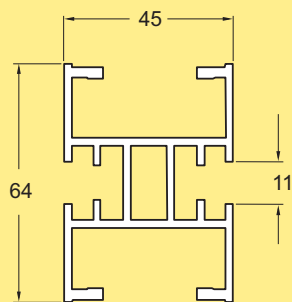
FST

TR

APX

IDX

## Conveyor beam



Beam

Length 3000 +10/-0 mm

Length to order (30- 3000 mm)

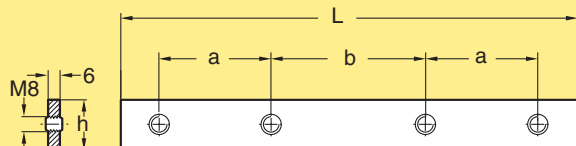
**XSCB 3**

**XSCB L**

Slide rail: see page 103

## Beam accessories XS

### Connecting strip with set screws



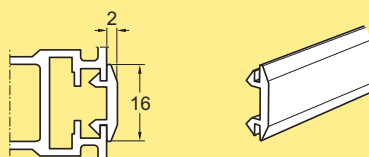
Connecting strip with set screws

$h=20$ ,  $a=30$ ,  $b=50$ ,  $L=130$

**XSCJ 6x130**

Note. Must be ordered in multiples of 10

### Cover strip for T-slot, PVC



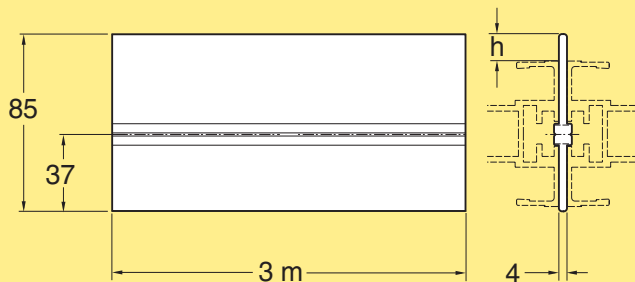
Cover strip for T-slot, PVC

Length 25 m

**XLAB 25**

For XS-X65-XH

### Beam spacer



XS	XL	XH	XK
$h=16,0$ mm	$h=15,9$ mm	$h=10,5$ mm	$h=0,5$ mm

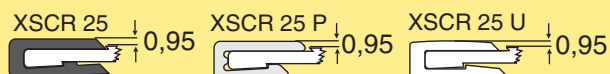
Beam spacer

Aluminium, anodized

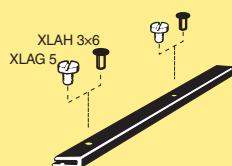
Length 3 m

**XLCD 3**

For connection of two conveyor beams side to side. Use M8 screw and slot nut. Two holes must be drilled, one through the spacer (9 mm) and one through the beam, to allow insertion of the screw. The diameter of the second hole depends on the size of the screw head.

**Plastic slide rails for XS beam****Slide rail**

Length 25 m

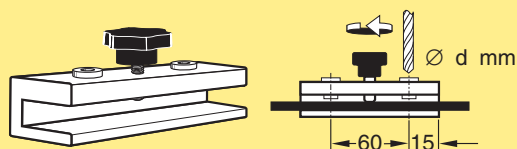
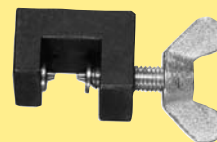
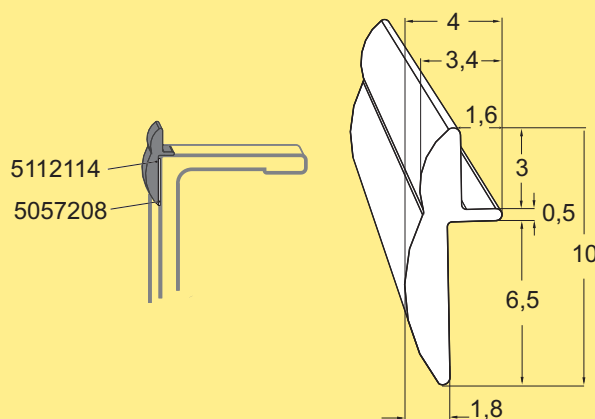
HDPE ( $\mu=0,1-0,25$ ) (Black)PVDF ( $\mu=0,15-0,35$ ) (Natural white)UHMW-PE ( $\mu=0,1-0,25$ ) (White)PA-PE ( $\mu=0,1-0,25$ ) (Grey)**XSCR 25****XSCR 25 P****XSCR 25 U****XSCR 25 H****Mounting tool for slide rail**Mounting tool for slide rail XS, X65 **XLMR 140****Aluminium rivets**

Aluminium rivets 3 mm for XS conveyors

**XLAH 3x6**

*Extra slide rail in plain bends must be anchored using plastic screws due to lack of space for the rivet crimping tool.*

*Note. Must be ordered in multiples of 250.*

**Drill fixture for slide rail**Drill fixture for XS slide rail  
d=3,2**3924774****Rivet crimping pliers**Rivet crimping pliers for XS  
For 3 mm rivets**3924776****Rivet crimping clamp**Rivet crimping clamp for XS  
For 3 mm rivets**3924770****Cover strip**

Cover strip

Length: 3 m

Material: Plastic PA 12

**5112114**

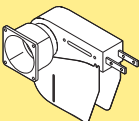

*Cover the opening on the side between the chain and beam. Primarily for straight sections and the outer curves, but can also be mounted on inner curves. Apply using a double-sided tape, see mounting instruction 5497EN in Technical library.*

## Drive unit types

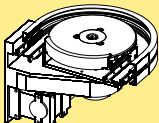
The XS system includes several configurations, including direct driven units with suspended motor and transmission chain as well as drive units.

Available motors include variable speed types (**V**) as well as fixed speed motors (**F**).

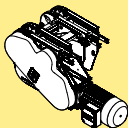
### End drive units

Size	Direct drive, slip clutch	Suspended motor, transmission chain, slip clutch
		
Heavy	F, V	F

### Wheel bend drive units

Size	Suspended motor, transmission chain, slip clutch
	
Heavy	F

### Double drive units

Size	Suspended motor, transmission chain, slip clutch
	
Heavy	F

## Motor specifications

Motors are available for 230/400 V, 50 Hz and 230/460 V or 330/575 V, 60 Hz. All motors except those for Compact drive units can be connected for delta or star configuration by means of jumpers.

Variable speed motors are SEW Movimot, 380–500 V. Note that variable speed motors include a control box that adds 93 mm to the width of the motor.

## Ordering information

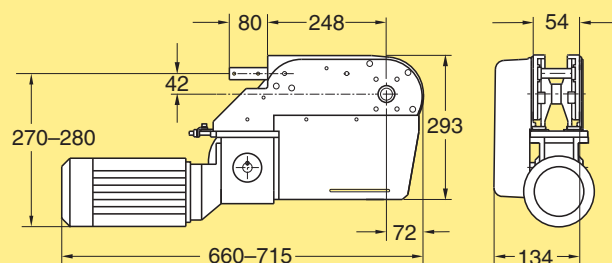
Drive units with motors must be specified using the web-based configurator. The configurator provides detailed information and step-by-step guidance in the specification process. A product code string is generated, containing the specification details. See next page for examples of code strings.

Drive units *without* motors can be ordered using the designations in the catalogue.

## Dimension drawings in catalogue

Note that dimensions relating to drive unit motors depend on the motor specified during the configuration. In most cases, the motors shown in the catalogue drawings represent the largest size. If variable speed motors are used, some dimensions may increase, indicated by dimension values xxx (V: yyy). V represents the max dimension using variable speed motor.

## End drive unit, suspended motor, slip clutch



## End drive unit

Fixed speed up to 60 m/min

Transmission on left side

Fixed speed

Without motor (ISO)

Without motor (ANSI)

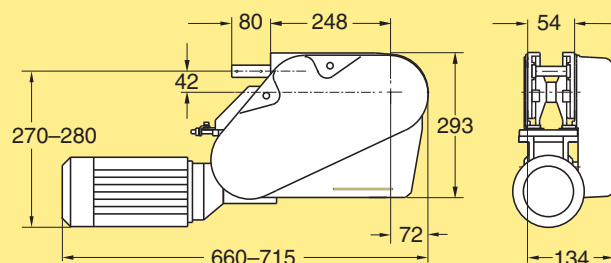
**XSEB****XSEB 0 HL****XSEB 0 HLA**

Maximum traction force: 500 N. See page 22.

Use online configurator when ordering.

Effective track length: 0,80 m

## End drive unit, suspended motor, slip clutch



## End drive unit

Fixed speed up to 60 m/min

Transmission on right side

Fixed speed

Without motor (ISO)

Without motor (ANSI)

**XSEB****XSEB 0 HR****XSEB 0 HRA**

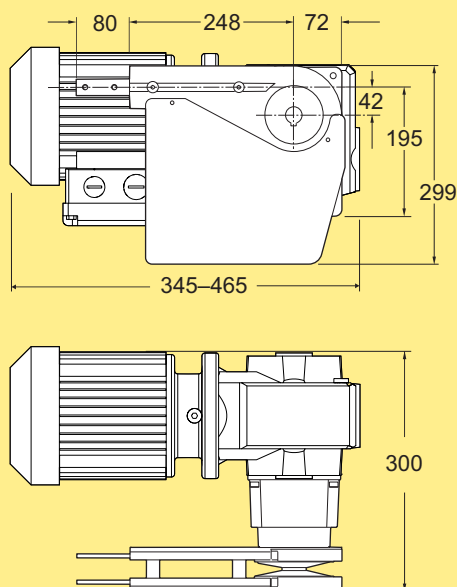
Maximum traction force: 500 N. See page 22.

Use online configurator when ordering.

Effective track length: 0,80 m

## End drive units XS, direct drive with slip clutch

## End drive unit, direct drive with slip clutch



## End drive unit, direct drive

Fixed speed up to 60 m/min

Variable speed: see *Drive Unit Guide*

Motor on left side

Fixed/variable speed

Without motor

Motor on right side

Fixed/variable speed

Without motor

**XSEB****XSEB 0 HLP****XSEB****XSEB 0 HRP**

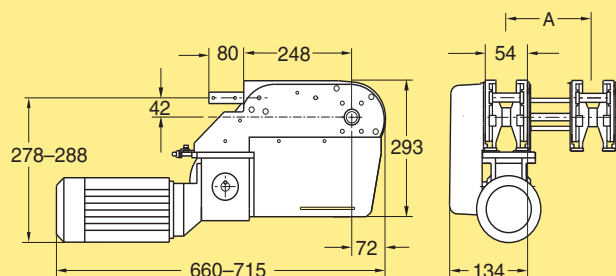
Maximum traction force: 500 N. See page 22.

Use online configurator when ordering.

Effective track length: 0,80 m

## Double drive units XS

### Double drive unit, suspended



#### Double drive unit

Fixed speed up to 60 m/min

Transmission on left side

A = 55 mm

Fixed speed

Without motor (ISO)

Without motor (ANSI)

**XSEB DD**

**XSEB 0 HLD55**

**XSEB 0 HLAD55**

A = 90-350 mm

Without motor (ISO)

Without motor (ANSI)

**XSEB 0 HLD-**

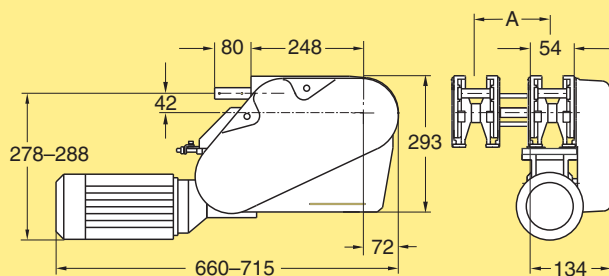
**XSEB 0 HLAD-**

Maximum traction force: 500 N. See page 22.

Use online configurator when ordering.

Effective track length: 0,80 m

### Double drive unit, suspended



#### Double drive unit

Fixed speed up to 60 m/min

Transmission on right side

A = 55 mm

Fixed speed

Without motor (ISO)

Without motor (ANSI)

**XSEB DD**

**XSEB 0 HRD55**

**XSEB 0 HRAD55**

A = 90-350 mm

Without motor (ISO)

Without motor (ANSI)

**XSEB 0 HRD-**

**XSEB 0 HRAD-**

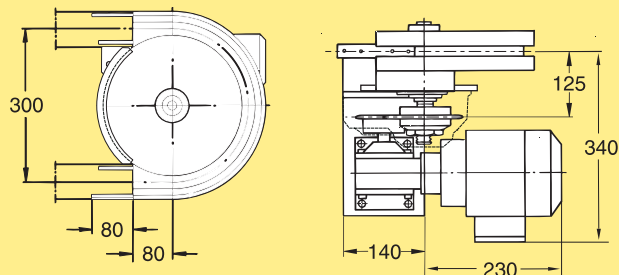
Maximum traction force: 500 N. See page 22.

Use online configurator when ordering.

Effective track length: 0,80 m

## Bend drive unit XS

### Bend drive unit, suspended, 180°



#### Bend drive unit, 180°

Fixed speed up to 30 m/min

Fixed speed

Without motor (ISO)

Without motor (ANSI)

**XSEW**

**XSEW 180/0 H**

**XSEW 180/0 HA**

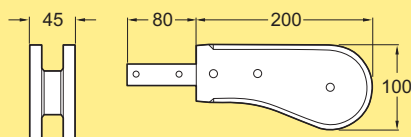
Maximum traction force: 200 N. See page 22.

Use online configurator when ordering.

Effective track length: 0,65 m

## Idler end unit XS

### Idler end unit



#### Idler end unit

**XSEJ 200**

Effective track length: 0,50 m



## Wheel bends XS

PO

CC

X45

**XS**

X65

X65P

X85

X85P

XH

XK

XKP

X180

X300

GR

CS

XT

WL

WK

XC

XF

XD

ELV

CTL

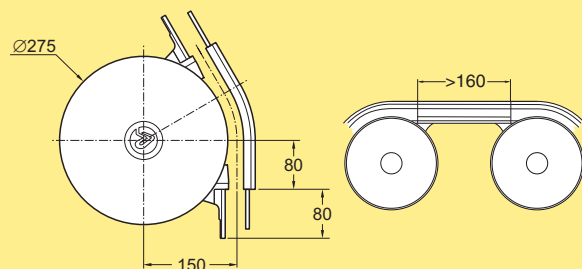
FST

TR

APX

IDX

### Wheel bend, 30°

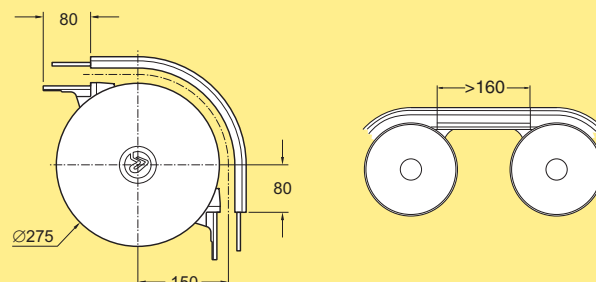


Wheel bend, 30°

**XSBH 30R150**

Effective track length: 0,25 m 1-way (0,50 m 2-way)

### Wheel bend, 90°

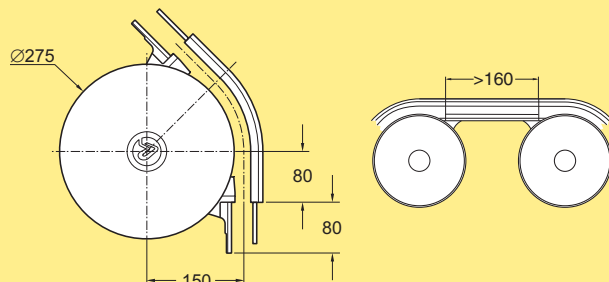


Wheel bend, 90°

**XSBH 90R150**

Effective track length: 0,40 m 1-way (0,80 m 2-way)

### Wheel bend, 45°

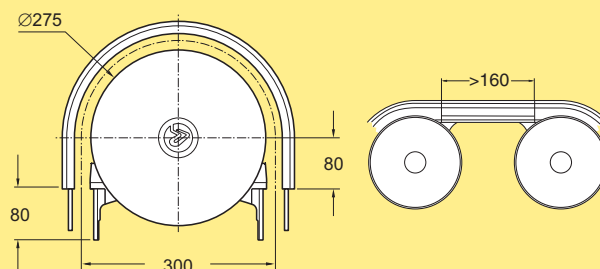


Wheel bend, 45°

**XSBH 45R150**

Effective track length: 0,30 m 1-way (0,60 m 2-way)

### Wheel bend, 180°



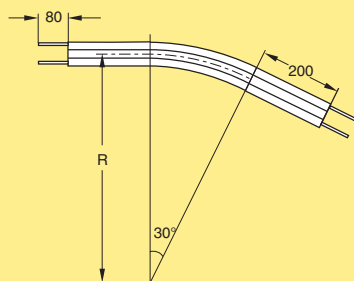
Wheel bend, 180°

**XSBH 180R150**

Effective track length: 0,65 m 1-way (1,30 m 2-way)

## Plain bends XS

### Plain bend, 30°



Plain bend, 30°±1°

R=500±10 mm

R=700±10 mm

R=1000±10 mm

**XSBP 30R500**

**XSBP 30R700**

**XSBP 30R1000**

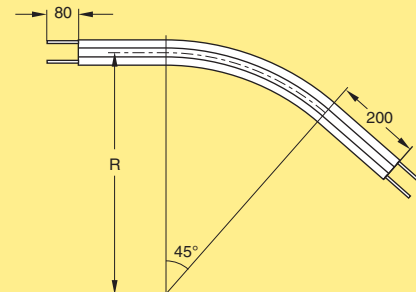
Effective track lengths:

R500: 0,70 m 1-way (1,35 m 2-way)

R700: 0,80 m 1-way (1,55 m 2-way)

R1000: 0,95 m 1-way (1,85 m 2-way)

### Plain bend, 45°



Plain bend, 45°±1°

R=500±10 mm

R=700±10 mm

R=1000±10 mm

**XSBP 45R500**

**XSBP 45R700**

**XSBP 45R1000**

Effective track lengths:

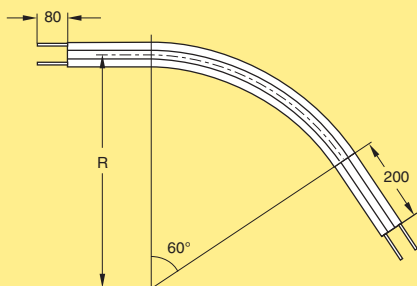
R500: 0,80 m 1-way (1,60 m 2-way)

R700: 0,95 m 1-way (1,90 m 2-way)

R1000: 1,20 m 1-way (2,40 m 2-way)

## Plain bends XS (continued)

### Plain bend, 60°



Plain bend, 60°±1°

R=500±10 mm

R=700±10 mm

R=1000±10 mm

**XSBP 60R500**  
**XSBP 60R700**  
**XSBP 60R1000**

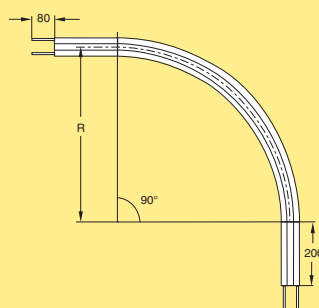
*Effective track lengths:*

R500: 0,95 m 1-way (1,85 m 2-way)

R700: 1,15 m 1-way (2,30 m 2-way)

R1000: 1,45 m 1-way (2,90 m 2-way)

### Plain bend, 90°



Plain bend, 90°±1°

R=500±10 mm

R=700±10 mm

R=1000±10 mm

**XSBP 90R500**  
**XSBP 90R700**  
**XSBP 90R1000**

*Effective track lengths:*

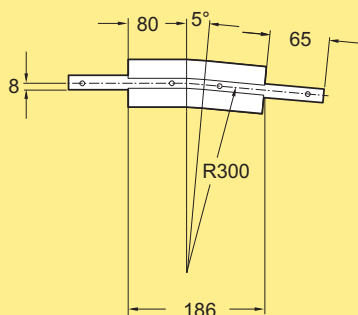
R500: 1,20 m 1-way (2,40 m 2-way)

R700: 1,50 m 1-way (3,00 m 2-way)

R1000: 2,00 m 1-way (3,95 m 2-way)

## Vertical bends XS

### Vertical bend, 5°

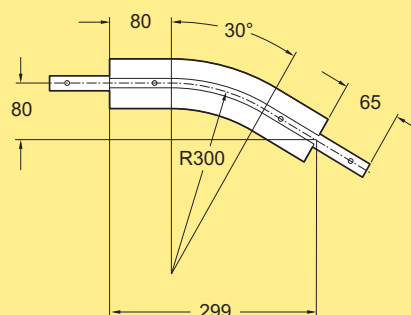


Vertical bend, 5°

**XSBV 5R300**

*Effective track length: 0,20 m 1-way (0,40 m 2-way)*

### Vertical bend, 30°

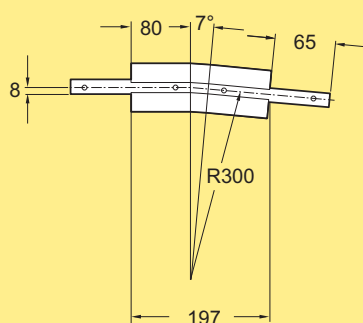


Vertical bend, 30°

**XSBV 30R300**

*Effective track length: 0,35 m 1-way (0,65 m 2-way)*

### Vertical bend, 7°

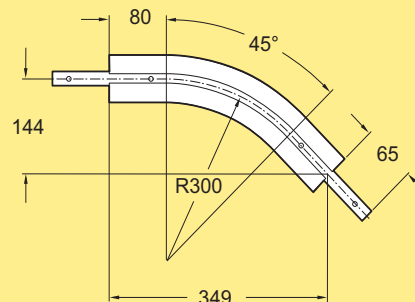


Vertical bend, 7°

**XSBV 7R300**

*Effective track length: 0,22 m 1-way (0,44 m 2-way)*

### Vertical bend, 45°

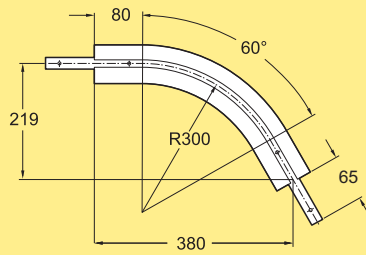


Vertical bend, 45°

**XSBV 45R300**

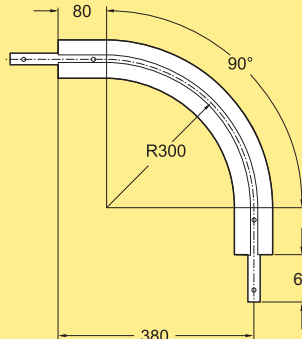
*Effective track length: 0,45 m 1-way (0,80 m 2-way)*

**Vertical bend, 60°**



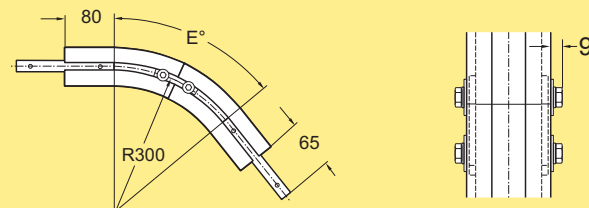
Vertical bend, 60° **XSBV 60R300**  
Effective track length: 0,50 m 1-way (0,95 m 2-way)

**Vertical bend 90°**



Vertical bend  
90° ± 0,5°  
R300 ± 5 mm **XSBV 90R300**  
Effective track length: 0,70 m 1-way (1,30 m 2-way)

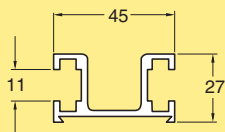
**Vertical bend, 5°–90°**



Vertical bend, 5°–90° **XSBV ER300**  
The bend is cut in the middle to the desired angle and assembled using connecting strips. The angle "E" must be specified when ordering.

# Front piece XS

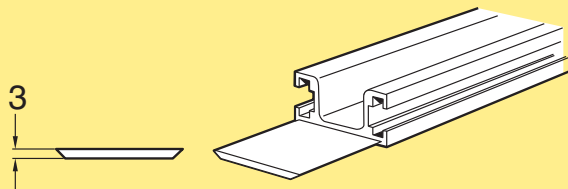
## Front piece



Front piece  
Length 3 m

**XSVF 3**

## Sliding strip for front piece

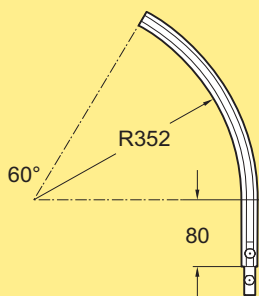


Sliding strip for front piece  
Length 2 m

**XSVG 2**

*The sliding strip must be anchored to the front piece.  
Rivets and tools for anchoring: see page 103.*

## Front piece upper bend

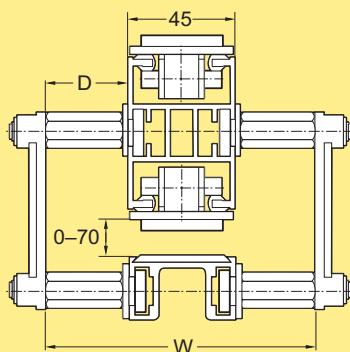


Upper bend, 60°

**XSVA 60R352**

*Includes connecting strip with screws*

## Linkage kit for front piece



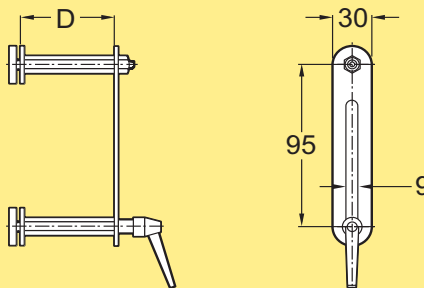
Linkage kit

W=110, D=33  
W=160, D=58

**XLVK 33**  
**XLVK 58**

*Kit includes two support pairs and one locking device.*

## Bend support for front piece

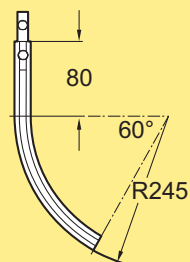


Bend support

D=33  
D=58

**XLVS 33**  
**XLVS 58**

## Front piece lower bend



Lower bend, 60°

**XSVB 60R245**

*Includes connecting strip with screws*