

# Stainless steel conveyor system X300X

PO  
X45  
XS  
XL  
XLP  
X85  
X85P  
XH  
XK  
XKP  
X180  
X300  
GR  
CS  
XT  
WL  
XC  
XF  
XD  
XLX  
X85X  
X180X  
X300X  
GRX  
CSX  
ELV  
CTL  
FST  
TR  
APX  
IDX

## System information



### Conveyor with focus on robustness and cleanliness

The stainless steel conveyor X300X was designed to suit the requirements of food and packaging applications:

#### Environment

- Operating temperatures  $-20\text{ }^{\circ}\text{C}$  to  $+60\text{ }^{\circ}\text{C}$
- Operating humidity 10% to 95% RH
- Noise level at 60 m/min is 68 dBA or less

### Chain width 295 mm



### Improved cleanliness conveyor

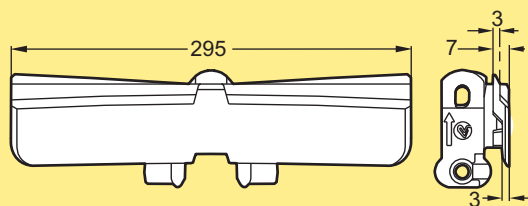
The X300X conveyor system has been evaluated based on field experience and suggestions from customers. With focus on structure rigidity and robustness, easy design, and easier cleaning, several components have been improved with features like better drainage and smaller contact surfaces.

### Technical characteristics

Drive unit capacity .....	1250 N
Chain tension limit .....	1250 N
Beam width .....	300 mm
Chain width .....	295 mm
Chain pitch .....	33,5 mm
Item width .....	70–400 mm
Maximum item weight .....	15 kg
Maximum weight on conveyor .....	200 kg
Maximum conveyor length .....	30 m

## Conveyor chain

### Plain chain 295 mm



Plain chain  
Length 3 m

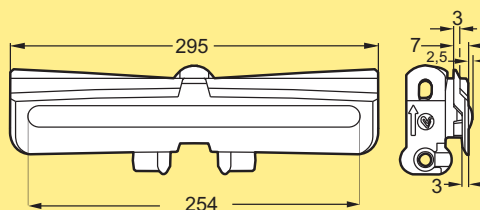
**XBTP 3A295**

Plain link kit \*

**5056652**

\* Link kit contains 10 links, 10 pivots, 10 steel pins

### Friction top chain 295 mm



Friction top chain  
Length 3 m

**XBTP 3A295 F**

Use the online configurator to specify and order.

Friction top link kit  
Kit with 10 links \*

**5054874**

\*Note. Links are delivered as a kit containing 10 links and the necessary steel pins and plastic pivots.

### Other chains

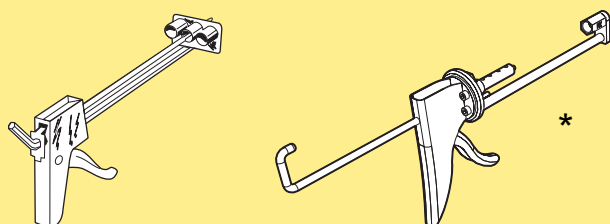
See the Chain guide for selection of other chains.

### Chain installation

See Appendix "D. Chain installation", in Product catalogue 5147.

## Chain accessories

### Pin insertion tool for chain



Pin insertion tool  
X85-X180/X300  
X85-X180/X300-XH, PRO version\*

**XMMJ 6**  
**XBMJ 6 P**

\*This tool is recommended for frequent users

### Stainless steel pin



Steel pin  
Stainless steel  
Steel pin kit, 25 pc

**5111172**

### Plastic pivot for chain

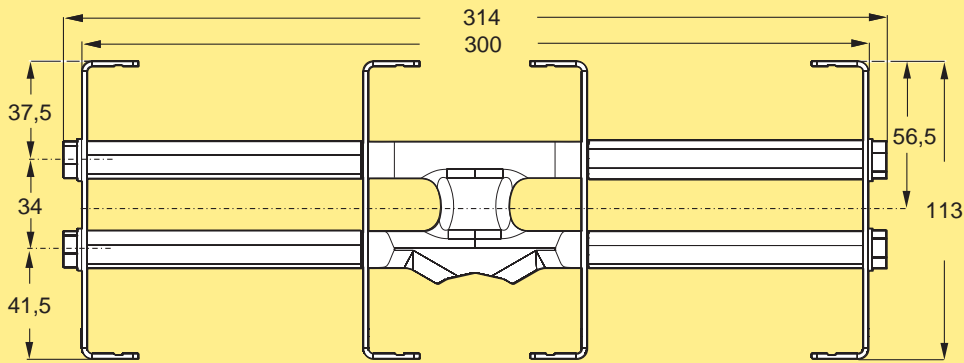


Plastic pivot kit

**5111169**

Spare parts kit, 25 pcs

Conveyor beam, 300 mm



Conveyor Beam

Length 3 m (3000 ±1,5 mm)

Length to order (150- 2999 mm)

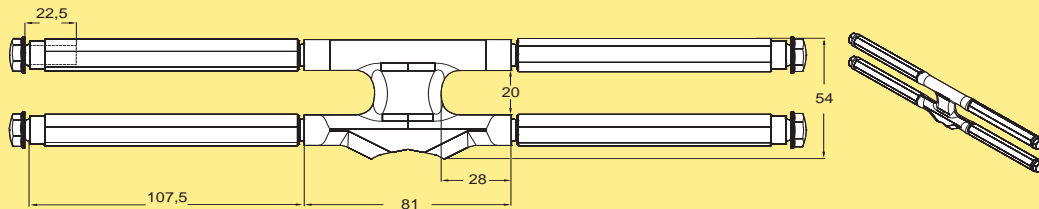
**XBCBX 3A300**

**XBCBX LA300**

All X300X beams are delivered fully assembled. For hole distance side view, see Page 6

X45  
XS  
XL  
XLP  
X85  
X85P  
XH  
XK  
XKP

Beam spacer kit



Beam spacer kit, Stainless steel

Beam spacer kit for X300X

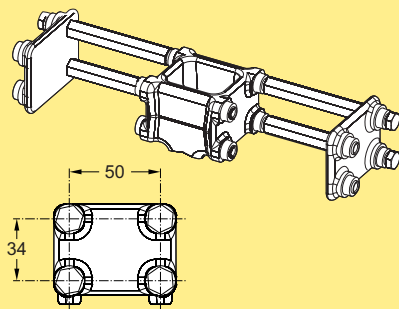
**XBCEX A300**

Including screws.

Additional beam stiffness can be obtained by using additional beam brackets. The beams have predrilled 8,3 mm holes at 100 mm intervals that need to be increased to 10 mm.

X180  
X300  
GR  
CS  
XT  
WL  
XC

Connecting bracket kit



Connecting bracket kit

Stainless steel

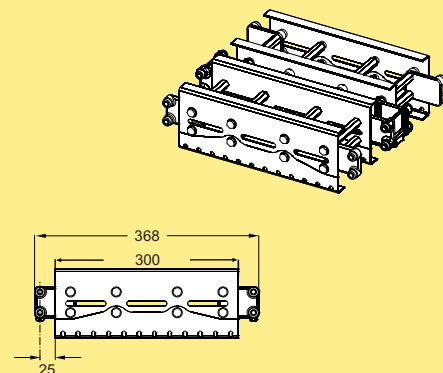
Connecting bracket kit for X300X

**XBCJX A300**

Including screws.

The beams have predrilled 10 mm holes, see XBCBX 3A85.

Beam section for chain installation



Beam section for chain installation.

Including 2 Connecting bracket kit XBCJX A300

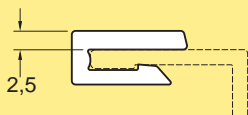
**XBCCX 300A300**

XF  
XD  
XLX  
X85X  
X180X  
X300X  
GRX  
CSX  
ELV  
CTL

FST  
TR  
APX  
IDX

## Slide rails

### Plastic slide rails, narrow



#### Slide rail

Length 25 m

HDPE (Black)

PE-UHMV (White)

PVDF (Transparent white)

PA-PE (Grey) (Should not be used in wet applications)

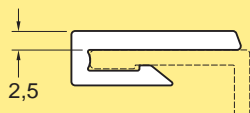
**XBCR 25**

**XBCR 25 U**

**XBCR 25 P**

**XBCR 25 H**

### Plastic slide rails, wide



#### Slide rail

Length 25 m

HDPE (Black)

PE-UHMV (White)

PVDF (Transparent white)

PA-PE (Grey) (Should not be used in wet applications)

**XBCR 25 B**

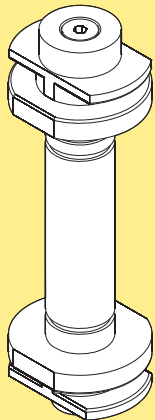
**XBCR 25 UB**

**XBCR 25 PB**

**XBCR 25 HB**

*Note. The wide slide rails are not suitable for use in bends.*

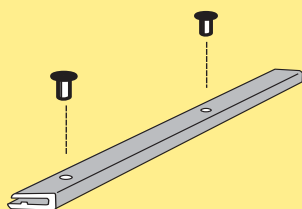
### Mounting tool for slide rail



Mounting tool for slide rail

**XBMR 170**

### Stainless steel rivet

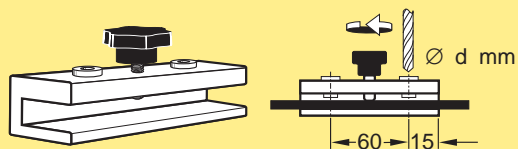


Stainless steel rivet, 4 mm

**XLAHX 4x7**

*Note. Must be ordered in multiples of 25*

### Drill fixture for slide rail



Drill fixture for slide rail  
d=4,2 mm

**3920500**

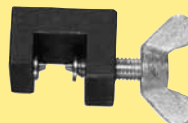
### Rivet crimping pliers



Rivet crimping pliers  
For 4 mm rivets

**5051395**

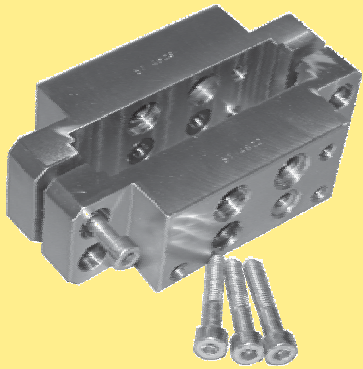
### Rivet crimping clamp



Rivet crimping clamp  
For 4 mm rivets

**3923005**

Drill fixture



Drill fixture

**5114621**

*For use when additional holes are needed on the beam sides.*

*Including:*

*Drill 4,5 mm*

*Drill 8,3 mm*

*Drill 11,0 mm*

*and instructions for use.*

Drill



Twist Drills DIN 338 HSS-E (Co 8)

Type N-HD Cobalt Alloyed, Split Point

Drill 11,0 mm

**5115050**

Drill 10,2 mm

**5115056**

Drill 8,3 mm

**5115051**

Drill 4,5 mm

**5115052**

Drill 4,2 mm (for 3920500)

**5115053**

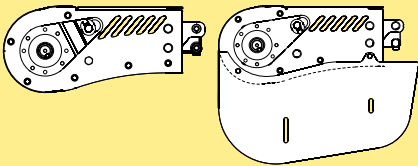
*For high strength alloys on CrNi base such as Hastelloy, Inconel, Monel, Nimonic, stainless steels, heat and acid-proof steels (up to 1400 N/mm<sup>2</sup> tensile strength).*

## Drive unit types

The X300X system drive unit capacities is maximum 1250 N. The actual capacity depends on the speed.

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

### End drive units

Size	Direct drive, no slip clutch
	
Drive unit	F, V
Drive unit, guided	F, V

## Motor specifications

Motors are available for 230/400 V, 50 Hz and 230/460 V or 330/575 V, 60 Hz. 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.

IP class 65 and available with standard oil and food grade oil

## Idler unit types

Idler units are available in two versions, Compact and Standard.

## 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.

# Drive units – configuration strings

Below, two examples of text strings obtained from the configurator with explanations are presented.

## Drive unit with fixed speed motor

Item no	A	B	C	D	E	G	H	I
<b>XBEBX A300</b>	<b>HNP</b>	<b>- L</b>	<b>- G</b>	<b>- V4</b>	<b>- SA37</b>	<b>- 50/230</b>	<b>- 0,18kW</b>	<b>- TF</b>

## Drive unit with variable speed motor

Item no	A	B	D	E	F	G	J	K
<b>XBEBX A300</b>	<b>HNPV</b>	<b>- L</b>	<b>- V6-15</b>	<b>- SA37</b>	<b>- MM03</b>	<b>- 50/380-500</b>	<b>- C</b>	<b>- P</b>

### Item no - Drive type

XBEBX: End drive

### H – Motor power

... kW: Motor power, kW  
(position is omitted for variable speed motors see position F)

### A – 0-Unit

HNP: Heavy, direct drive, no slip clutch  
...V: Variable speed

### I – Thermal protection

No: No thermal protection  
TF: Thermal protection type TF  
TH: Thermal protection type TH  
(position is omitted for variable speed motors)

### B – Motor position

L: Left  
R: Right

### J – Hybrid cable

No: No hybrid cable  
C: Hybrid cable included in SEW Movimot  
(position is omitted for fixed speed motors)

### C – End drive with guided chain

G: Guided (position is omitted for non-guided)

### D – Speed

V...: Fixed speed... m/min  
V... -...: Variable speed range...-... m/min

### K – Fieldbus

No: No fieldbus  
P: Profibus fieldbus, maintenance switch  
D: DeviceNet fieldbus, maintenance switch  
(position is omitted for fixed speed motors)

### E – Gearbox

SA37: SEW motor type SA37

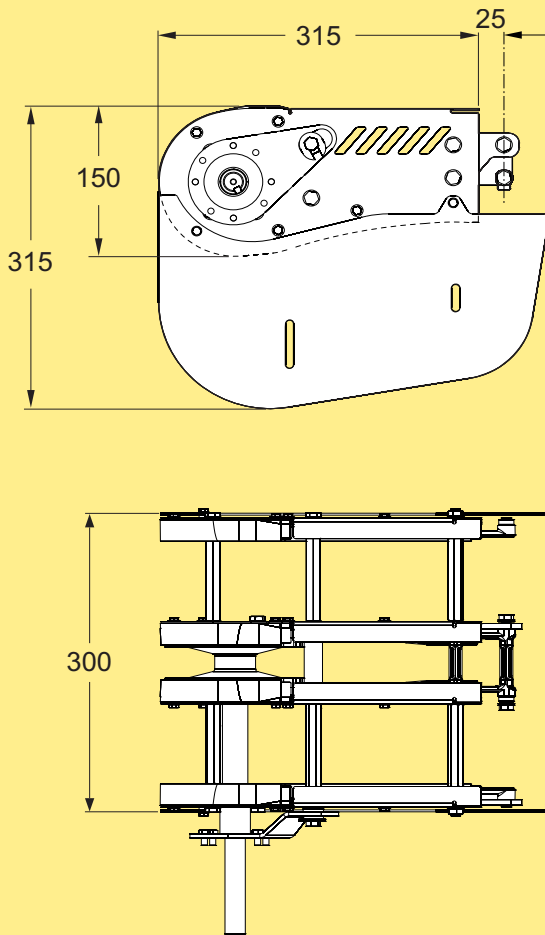
### F – Movimot size

MM03: SEW Movimot type, 0,33 kW  
MM05: SEW Movimot type, 0,55 kW  
MM07: SEW Movimot type, 0,75 kW  
MM11: SEW Movimot type, 1,1 kW  
(position is omitted for fixed speed motors)

### G – Electrical environment

50/230: 50 Hz, 230 V  
50/400: 50 Hz, 400 V  
60/230: 60 Hz, 230 V  
60/460: 60 Hz, 460 V  
60/575: 60 Hz, 575 V  
50/380-500: SEW Movimot variable speed motor  
60/380-500: SEW Movimot variable speed motor

## End drive unit, direct drive, no slip clutch



### End drive unit

Direct drive. No slip clutch.  
Maximum traction force: up to 1250 N.  
Maximum speed 80 m/min for X300X.

Motor on left side:

Fixed/variable speed \* **XBEBX A300**  
Without motor **XBEBX 0A300HNL P**

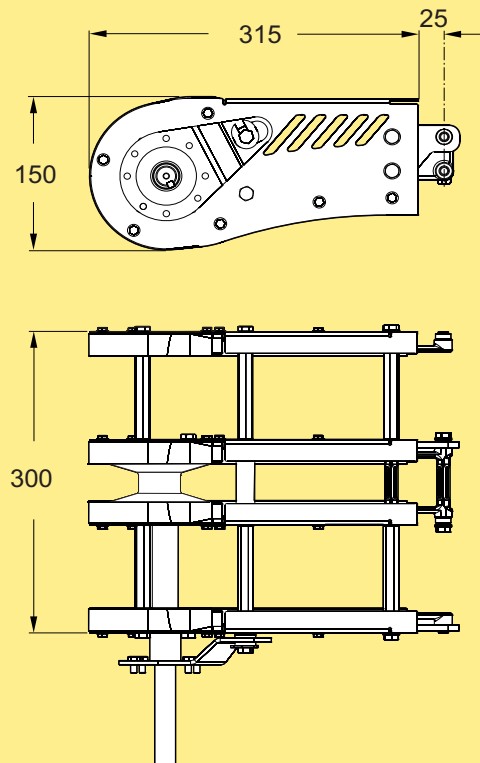
Motor on right side (not shown):

Fixed/variable speed \* **XBEBX A300**  
Without motor **XBEBX 0A300HNR P**

\* Use online configurator when ordering.

Effective track length: 0,80 m

## End drive unit, guided chain, no slip clutch



### End drive unit

Direct drive with guided chain. No slip clutch.  
Maximum traction force: up to 1250 N.  
Maximum speed 80 m/min for X300X.

Motor on left side:

Fixed/variable speed \* **XBEBX A300**  
Without motor **XBEBX 0A300HNL GP**

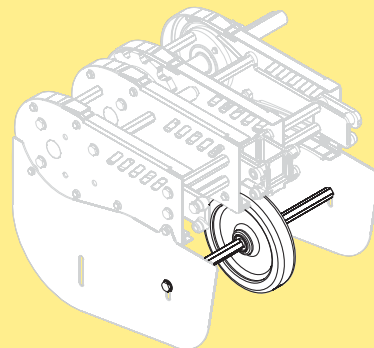
Motor on right side (not shown):

Fixed/variable speed \* **XBEBX A300**  
Without motor **XBEBX 0A300HNR GP**

\* Use online configurator when ordering.

Effective track length: 0,80 m

## Guide wheel kit 300

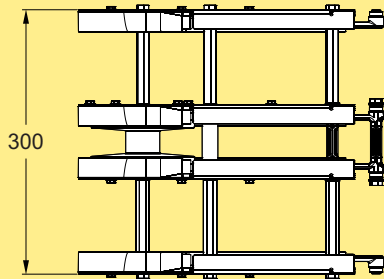
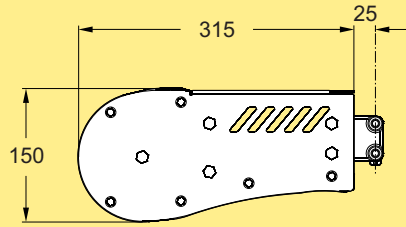


Guide wheel for drive units **5114930**

Including wheel, shaft and mounting hardware.  
Note. Can only be used with plain chain. For use in high speed operation (60 m/min and above).

# Idler unit

## Idler end unit

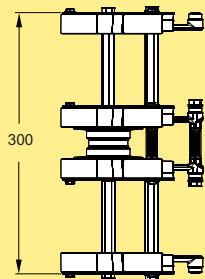
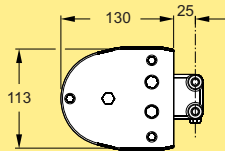


Idler end unit X300X

**XBEJX A300**

Effective track length: 0,70 m.

## Idler end unit, Compact



Idler end unit X300X

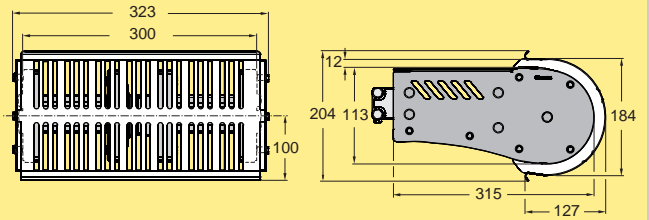
**XBEJX A300 S**

Effective track length: 0,35 m.

### Note!

Always use protective cover for Idler ends to protect persons from clamp risk.

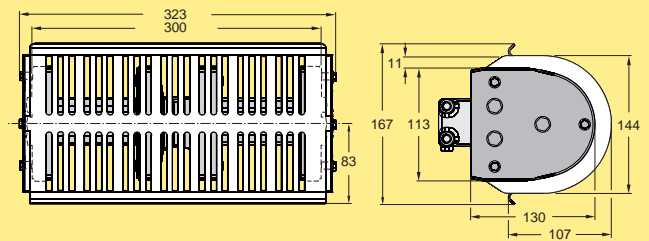
## Protective cover for Idler end



Protective cover for Idler end unit  
XBEJX A300

**XBSJX A300**

## Protective cover for Idler end, Compact

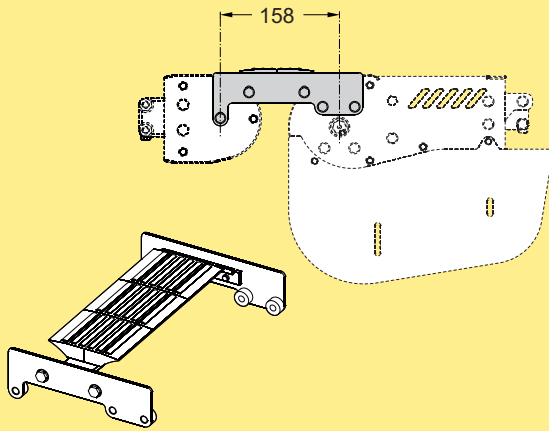


Protective cover for Idler end unit  
XBEJX A300 S

**XBSJX A300 S**

- PO
- X45
- XS
- XL
- XLP
- X85
- X85P
- XH
- XK
- XKP
- X180
- X300
- GR
- CS
- XT
- WL
- XC
- XF
- XD
- XLX
- X85X
- X180X
- X300X
- GRX
- CSX
- ELV
- CTL
- FST
- TR
- APX
- IDX

### Bridge, idler compact to drive unit

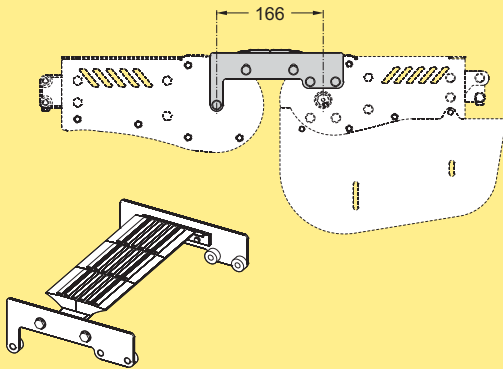


Bridge (see Note)

**5115198**

*Including roller bridge and mounting hardware.  
Suitable for connecting idler compact to drive unit.*

### Bridge, idler to drive unit



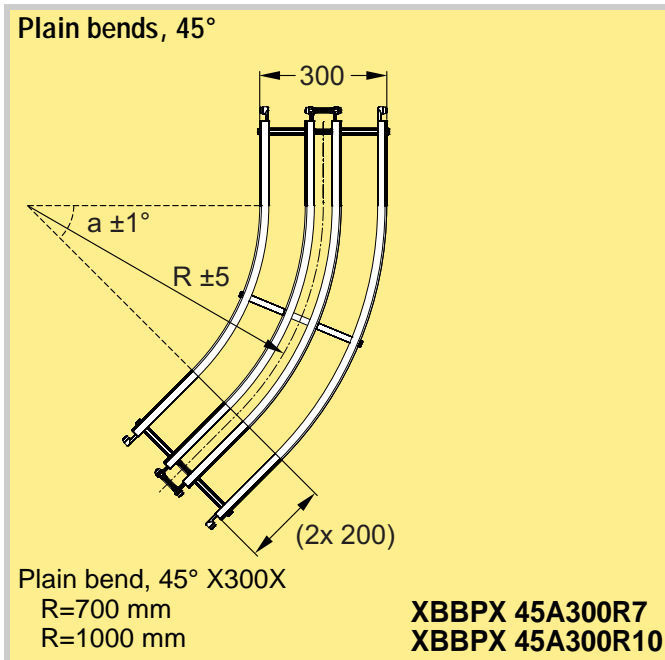
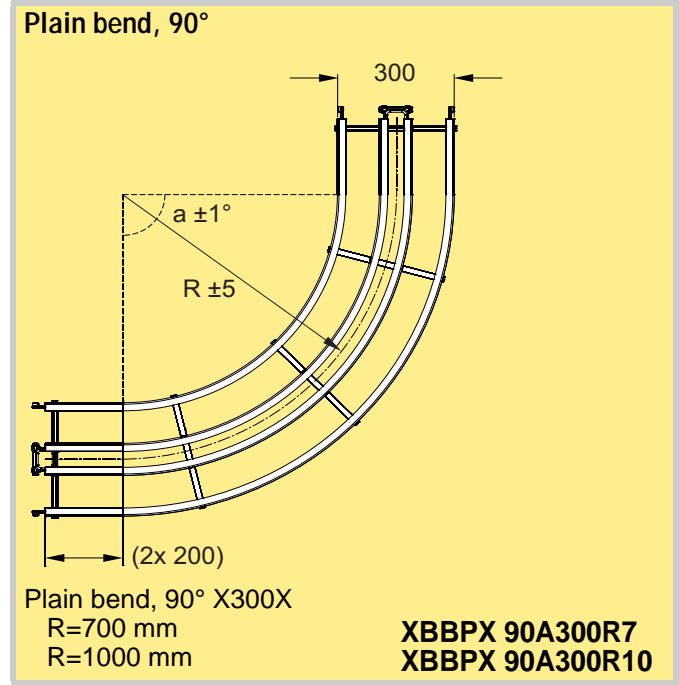
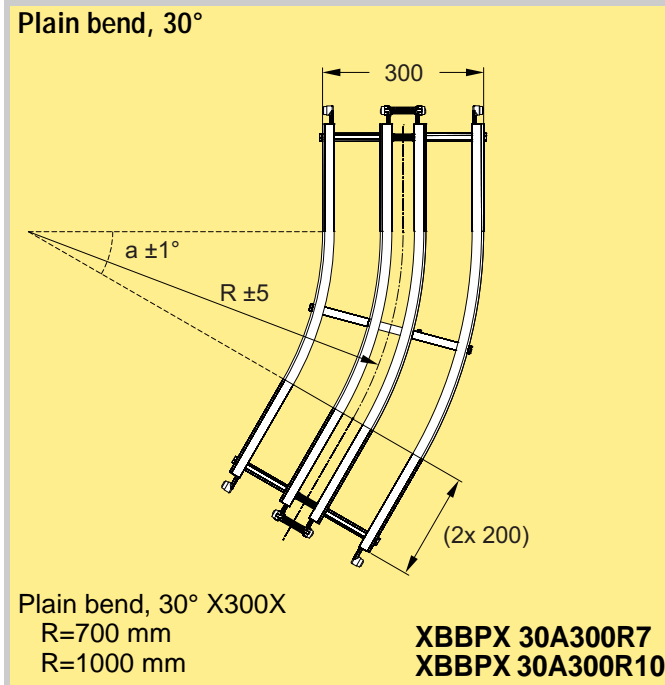
Bridge S to H (see Note)

**5115199**

*Including roller bridge and mounting hardware.  
Suitable for connecting idler to drive unit.*

# Plain bends

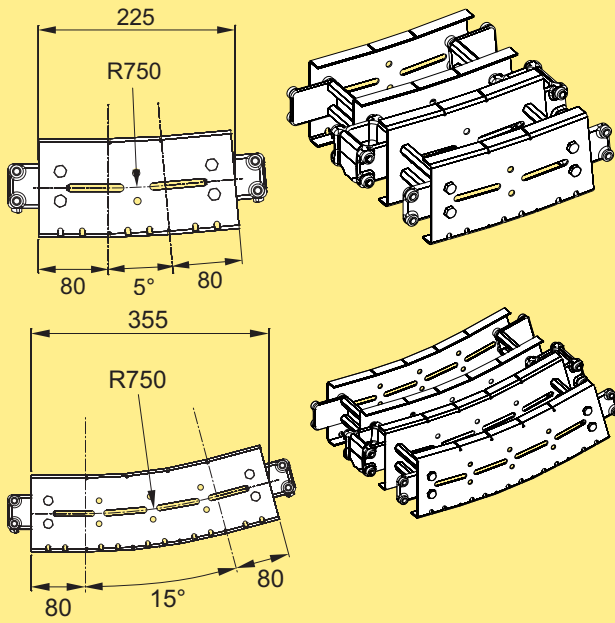
Item no	Angle (a)	Radius (R)	Effective track length	Slide rails (m)
XBBPX 30A300R7	30°	700 mm	0,80 m (1,60 m 2-way)	4 m
XBBPX 30A300R10	30°	1000 mm	0,92 m (1,85 m 2-way)	7,4 m
XBBPX 45A300R7	45°	700 mm	0,95 m (1,90 m 2-way)	8 m
XBBPX 45A300R10	45°	1000 mm	1,12 m (2,40 m 2-way)	9,5 m
XBBPX 90A300R7	90°	700 mm	1,50 m (3,0 m 2-way)	12 m
XBBPX 90A300R10	90°	1000 mm	2,0 m (4,0 m 2-way)	15,8 m



PO  
 X45  
 XS  
 XL  
 XLP  
 X85  
 X85P  
 XH  
 XK  
 XKP  
 X180  
 X300  
 GR  
 CS  
 XT  
 WL  
 XC  
 XF  
 XD  
 XLX  
 X85X  
 X180X  
 X300X  
 GRX  
 CSX  
 ELV  
 CTL  
 FST  
 TR  
 APX  
 IDX

# Vertical bends

## Vertical bend, positive angle

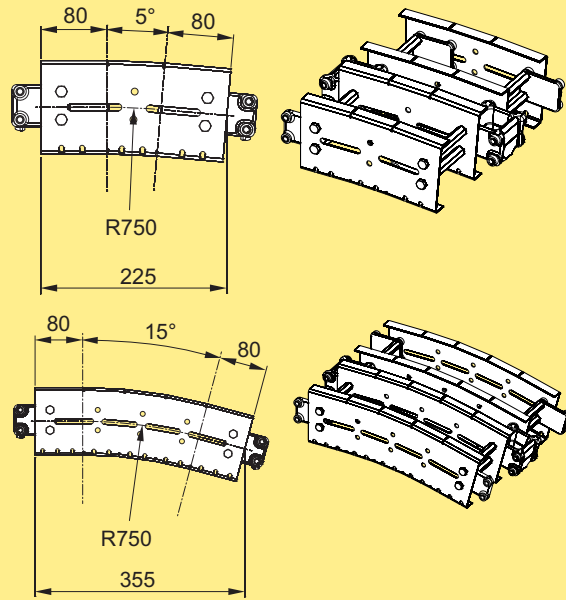


Vertical bend, pos., 5°  
Vertical bend, pos., 15°

**XBBVX 5A300R7P**  
**XBBVX 15A300R7P**

*Effective track length (top + bottom): 5°: 0,50 m, 15°: 0,75 m*

## Vertical bend, negative angle



Vertical bend, neg., 5°  
Vertical bend, neg., 15°

**XBBVX 5A300R7N**  
**XBBVX 15A300R7N**

*Effective track length (top + bottom): 5°: 0,50 m, 15°: 0,75 m*