

# Conveyor system X300

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## System information



### Chain X300



### Features

Chain travels on four slide rails. Wide track sideflexing safety chain. Compact horizontal and vertical bends. Suitable for soft packages.

### Examples of application areas

Large cardboard boxes, products in soft plastic bags. Examples: detergent powder, wrapped tissue paper rolls, food products, personal care products.

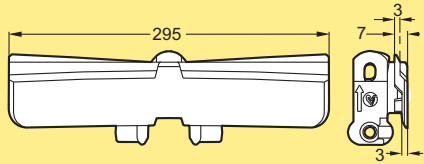
### Technical characteristics

Drive unit capacity .....	1250 N
Chain tension limit .....	1250 N
Beam width .....	300 mm
Chain width .....	295 mm
Chain pitch .....	33,5 mm
Recommended item width .....	70–500 mm
Maximum item weight .....	15 kg
Maximum weight on conveyor .....	200 kg
Maximum conveyor length .....	30 m
Maximum permitted load per link .....	2,5 kg

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

## Chains X300

### Plain chain

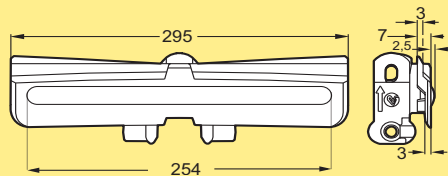


Plain chain  
 Length 3 m **XBTP 3A295**  
 Food & Wet applications **XBTPX 3A295**

Plain link kit \* **5056652**  
 Food & Wet applications **5122928**

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

### Friction top chain



Friction top chain  
 Length 3 m **XBTP 3A295 F**

Friction top chain  
 Length 3 m **XBTP 3A295 FP**

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 a selection of other chains.

### Chain installation

See Appendix C, page 473, for installation instructions.

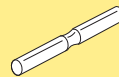
## Chain accessories X300

### Plastic pivot



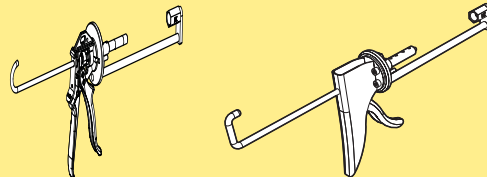
Plastic pivot -X180-X300 kit **5111169**  
 Each kit contains 25 items.

### Steel pin



Steel pin X180-X300 kit **5111172**  
 Each kit contains 25 items.

### Pin insertion tool for chain



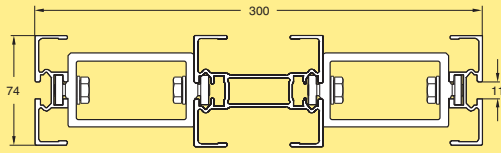
Pin insertion tool  
 X85--X180-X300 **XMMJ 6**  
 X85-X180-X300-XH, PRO version\* **XBMJ 6 P**

\*This tool is recommended for frequent users

## Beam components X300

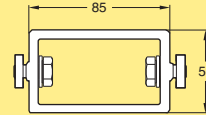
PO

### Beam section kit (300 mm version)



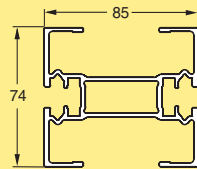
Beam section kit  
 Length 3000 mm **XBCB 3A300**  
 Length to order (500- 3000 mm) **XBCB LA300**  
*The beam section is delivered unassembled.  
 Slide rail: see page 282*

### Spacer for outer beam sections



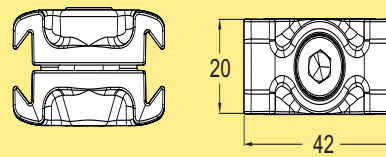
Spacer, aluminium, one pair **XBCE 85**  
*Including screws and nuts. For construction of 300 mm wide beam sections. Maximum distance between spacers is 0,5 m.*

### Beam (mid-section)



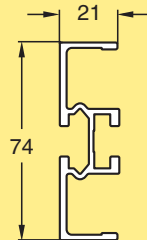
Beam (mid-section)  
 Length 3000 +10/-0 mm **XBCB 3A85**  
 Length to order (500- 3000 mm) **XBCB LA85**

### Beam clip assembly



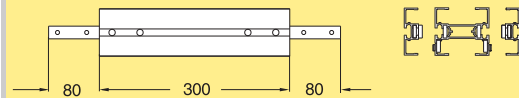
Beam clip assembly **XBCE 42x20 A**  
*Including M8 screw and locking nut. Use minimum 5 clips per meter. Place clips 100 mm from each end. Note. Must be ordered in multiples of 10.*

### Beam (outer section)



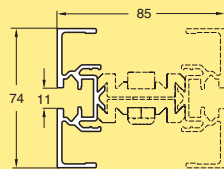
Beam (outer section)  
 Length 3000 +10/-0 mm **XBCB 3A H**  
 Length to order (500- 3000 mm) **XBCB LA H**

### Beam section for chain installation



Beam section for chain installation  
 Including connecting strips and screws **XBCC 300A**

### Profile for split conveyor beam (inner section)



Profile for split conveyor beam  
 Length 3000 +10/-0 mm **XBCB 3A85 H**  
 Length to order (500- 3000 mm) **XBCB LA85 H**

CC

X45

XS

X65

X65P

X85

X85P

XH

XK

XKP

X180

**X300**

GR

CS

XT

WL

WK

XC

XF

XD

ELV

CTL

FST

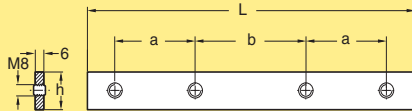
TR

APX

IDX

## Beam accessories X300

### Connecting strip with set screws

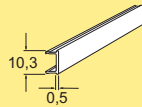


Connecting strip with set screws  
h=20, a=44, b=44, L=160

**XSCJ 6x160**

*Note. Must be ordered in multiples of 10*

### Cover strip for T-slot, PVC

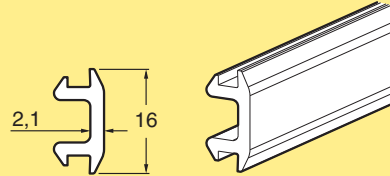


Cover strip for T-slot, grey PVC  
Length 3 m

**XCAC 3 P**

*Note! Can't be used with bends*

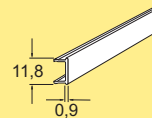
### Cover strip for T-slot, PVC



Cover strip for T-slot  
Length 25 m  
Grey PVC

**XCAC 25 P**

### Cover strip for T-slot, aluminium



Cover strip for T-slot  
Aluminium, anodized  
Length 2 m

**XCAC 2**

*Note! Can't be used with bends*

## Slide rails X300

### Plastic slide rail for X300 beam

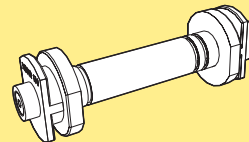


Slide rail  
Length 25 m  
HDPE (Black)  
PA-PE (Grey)  
PVDF (Natural white)

**XBCR 25**  
**XBCR 25 H**  
**XBCR 25 P**

*See Appendix A, page 463 for selection guidelines and assembly instructions.*

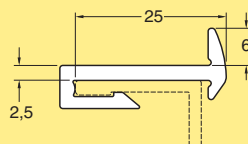
### Mounting tool for slide rail, X300



Mounting tool for slide rail

**XBMR 170**

### Plastic slide rail for X300 beam, outer

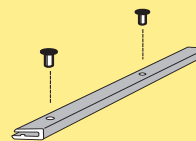


Slide rail, outer  
UHMW-PE ( $\mu=0,1-0,25$ ) (White)  
Length 3 m

**XBCR 3 UA**

*See Appendix A, page 463 for selection guidelines and assembly instructions.*

### Aluminium rivets



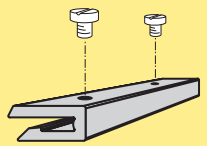
Aluminium rivets 4 mm for XK-  
X180-X300 conveyors, brown

**XLAH 4x7**

*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.*

Slide rails X300 (continued)

**Plastic screws for slide rail**

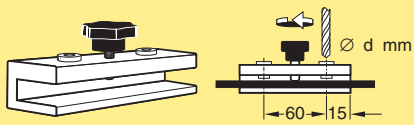


Plastic screws 5 mm for XS-X65-X85-XH-X180-X300 beams  
**XLAG 5**

See mounting instruction "Anchoring slide rail using plastic screws" on page 468


Note. Must be ordered in multiples of 50

**Drill fixture for slide rail**



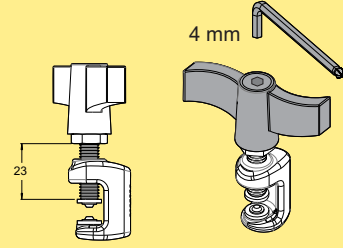
Drill fixture for X65-X85-XH-XK-X180-X300 slide rail  
d=4,2 mm  
**3920500**

**Rivet crimping pliers**



Rivet crimping pliers for X65-X85-XH-XK-X180-X300  
For 4 mm rivets  
**5051395**

**Rivet crimping clamp**



Rivet crimping clamp for X65-X85-XH-XK-X180-X300  
For 4 mm rivets  
**3923005**

- 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

## Drive and idler units – introduction

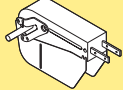
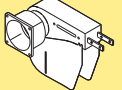
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### Drive unit types

The X300 system includes direct driven units with or without slip clutch.

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

#### End drive units

Size	Direct drive, no slip clutch	Direct drive, slip clutch
		
Heavy	F, V	F, V
Heavy, guided	F, V	F, V

### Motor specifications

Motors are available for 230/400 V, 50 Hz and 230/460 V or 330/575 V, 60 Hz. All motors 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 units X300, direct drive, no slip clutch**

**End drive units X300, direct drive, slip clutch**

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

End drive unit, direct drive  
 Fixed speed up to 60 m/min  
 Variable speed up to 80 m/min  
 Motor on left side  
 Fixed/variable speed \* **XBEB A300**  
 Without motor **XBEB 0A300HNLP**

Motor on right side  
 Fixed/variable speed \* **XBEB A300**  
 Without motor **XBEB 0A300HNRP**

Maximum traction force: 1250 N. See page 22.  
 \*Use online configurator when ordering.  
 Effective track length: 0,80 m

**End drive unit, direct drive, slip clutch**

End drive unit, direct drive  
 Fixed speed up to 60 m/min  
 Variable speed up to 80 m/min  
 Motor on left side  
 Fixed/variable speed \* **XBEB A300**  
 Without motor **XBEB 0A300HLP**

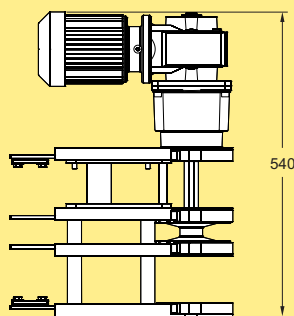
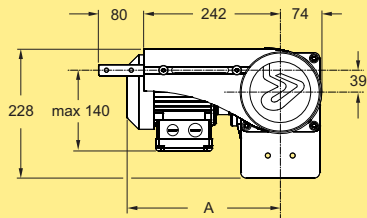
Motor on right side  
 Fixed/variable speed \* **XBEB A300**  
 Without motor **XBEB 0A300HRP**

Maximum traction force: 1250 N. See page 22.  
 \*Use online configurator when ordering.  
 Effective track length: 0,80 m

- 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

## End drive units X300, direct drive, slip clutch, guided

### End drive unit H, guided chain, slip clutch



#### End drive unit

Direct drive with guided chain. Adjustable slip clutch.  
Maximum traction force: up to 1250 N.  
Fixed speeds up to 60 m/min.  
Variable speed up to 80 m/min.

Motor on left side:

Fixed/variable speed \* **XBEB A300**  
Without motor **XBEB 0A300HLGP**

Motor on right side:

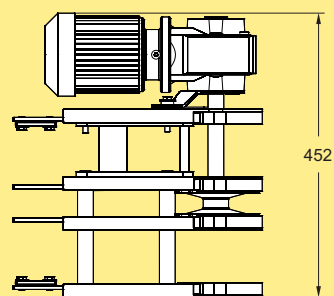
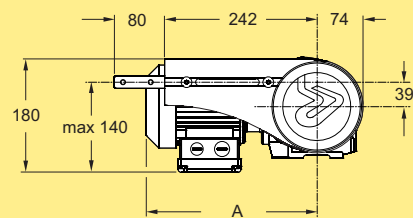
Fixed/variable speed \* **XBEB A180**  
Without motor **XBEB 0A300HRGP**

\*Use online configurator when ordering.

Effective track length: 0,80 m

## End drive units X300, direct drive, no slip clutch, guided

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



#### End drive unit

Direct drive with guided chain. No slip clutch.  
Maximum traction force: up to 1250 N.  
Fixed speeds up to 60 m/min.  
Variable speed up to 80 m/min.

Motor on left side:

Fixed/variable speed \* **XBEB A300**  
Without motor **XBEB 0A300HNLGP**

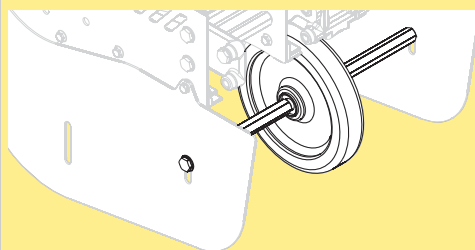
Motor on right side:

Fixed/variable speed \* **XBEB A300**  
Without motor **XBEB 0A300HNRGP**

\*Use online configurator when ordering.

Effective track length: 0,80 m

### Guide wheel kit 300

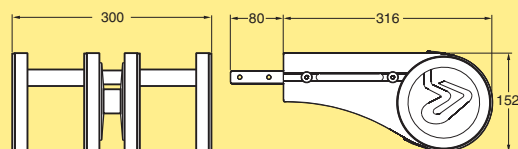


Guide wheel for drive units **5114930**

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).

## Idlers X300

### Idler end unit



Idler end unit

**XBEJ A300**

Effective track length: 0,80 m



**Plain bends X300**

PO

**Plain bend, 30°**

Plain bend, 30°±1°  
 R=700±10 mm  
 R=1000±10 mm

**XBBP 30A300R7**  
**XBBP 30A300R10**

*Effective track lengths:*  
 R700: 1,55 m (top+bottom)  
 R1000: 1,85 m (top+bottom)

**Plain bend, 60°**

Plain bend, 60°±1°  
 R=700±10 mm  
 R=1000±10 mm

**XBBP 60A300R7**  
**XBBP 60A300R10**

*Effective track lengths:*  
 R700: 2,30 m (top+bottom)  
 R1000: 2,90 m (top+bottom)

**Plain bend, 45°**

Plain bend, 45°±1°  
 R=700±10 mm  
 R=1000±10 mm

**XBBP 45A300R7**  
**XBBP 45A300R10**

*Effective track lengths:*  
 R700: 1,90 m (top+bottom)  
 R1000: 2,40 m (top+bottom)

**Plain bend, 90°**

Plain bend, 90°±1°  
 R=700±10 mm  
 R=1000±10 mm

**XBBP 90A300R7**  
**XBBP 90A300R10**

*Effective track lengths:*  
 R700: 3,00 m (top+bottom)  
 R1000: 3,95 m (top+bottom)

CC

X45

XS

X65

X65P

X85

X85P

XH

XK

XKP

X180

**X300**

GR

CS

XT

WL

WK

XC

XF

XD

ELV

CTL

FST

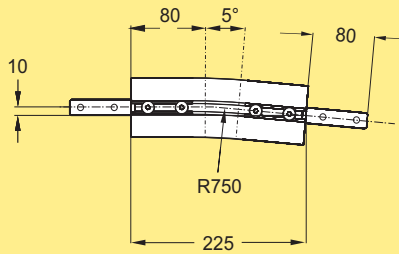
TR

APX

IDX

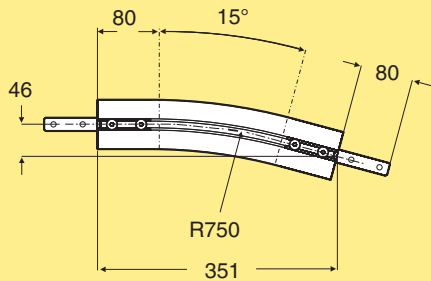
## Vertical bends X300

### Vertical bend, 5°



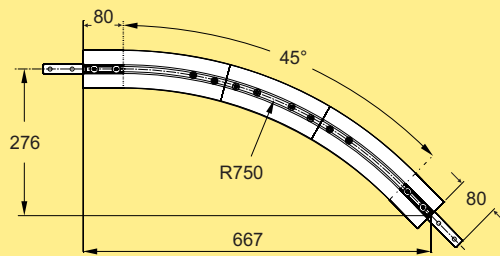
Vertical bend, 5° **XBBV 5A300R750**  
Four outer section beam pieces, unassembled.  
Effective track length: 0,50 m (top+bottom)

### Vertical bend, 15°



Vertical bend, 15° **XBBV 15A300R750**  
Four outer section beam pieces, unassembled.  
Effective track length: 0,75 m (top+bottom)

### Vertical bend, 45°



Vertical bend, 45° **XBBV 45A300R750**  
Four outer section beam pieces, unassembled.  
Effective track length: 1,5 m (top+bottom)