Conveyor system X300

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
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
Length 3 m
Food & Wet applications
XBTP 3A295
XBTPX 3A295
Plain link kit *
Food & Wet applications
5056652
5122928
* Link kit contains 10 links, 10 pivots, 10 steel pins

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.

Chain accessories X300

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

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

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

Other chains
See the Chain guide for a selection of other chains.

Chain installation
See Appendix C, page 473, for installation instructions.
Beam components X300

Beam section kit (300 mm version)

- XBCB 3A300
- XBCB LA300

The beam section is delivered unassembled.

Beam section kit
Length 3000 mm
Length to order (500-3000 mm)

Beam (mid-section)

- XBCB 3A85
- XBCB LA85

Beam (mid-section)
Length 3000 +10/-0 mm
Length to order (500-3000 mm)

Beam (outer section)

- XBCB 3A H
- XBCB LA H

Beam (outer section)
Length 3000 +10/-0 mm
Length to order (500-3000 mm)

Profile for split conveyor beam (inner section)

- XBCB 3A85 H
- XBCB LA85 H

Profile for split conveyor beam
Length 3000 +10/-0 mm
Length to order (500-3000 mm)

Spacer for outer beam sections

- XBCE 85

Spacer, aluminium, one pair
Including screws and nuts. For construction of 300 mm wide beam sections. Maximum distance between spacers is 0.5 m.

Beam clip assembly

- XBCE 42x20 A

Beam clip assembly
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 section for chain installation

- XBCC 300A

Beam section for chain installation
Including connecting strips and screws

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Beam accessories X300

Connecting strip with set screws

![Connecting strip with set screws](image)

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, PVC](image)

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](image)

Cover strip for T-slot

Aluminium, anodized  
Length 2 m  
Note! Can’t be used with bends  
XCAC 2

Slide rails X300

Plastic slide rail for X300 beam

![Plastic slide rail for X300 beam](image)

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.

Plastic slide rail for X300 beam, outer

![Plastic slide rail for X300 beam, outer](image)

Slide rail, outer

UHMW-PE (μ=0,1–0,25) (White)  
Length 3 m

XBCR 3 UA

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

Mounting tool for slide rail, X300

![Mounting tool for slide rail, X300](image)

Mounting tool for slide rail  
XBMR 170

Aluminium rivets

![Aluminium rivets](image)

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.
Plastic screws for slide rail

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

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

Rivet crimping pliers

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

Rivet crimping clamp

Rivet crimping clamp for X65-X85-XH-XK-X180-X300
For 4 mm rivets
Drive and idler units – introduction

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

<table>
<thead>
<tr>
<th>Size</th>
<th>Direct drive, no slip clutch</th>
<th>Direct drive, slip clutch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy</td>
<td>F, V</td>
<td>F, V</td>
</tr>
<tr>
<td>Heavy, guided</td>
<td>F, V</td>
<td>F, V</td>
</tr>
</tbody>
</table>

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 unit, direct drive, no slip clutch

- Fixed speed up to 60 m/min
- Variable speed up to 80 m/min
- Motor on left side
- Fixed/variable speed
- Without motor

Maximum traction force: 1250 N. See page 22.
*Use online configurator when ordering.
Effective track length: 0.80 m

End drive units X300, direct drive, slip clutch

End drive unit, direct drive, slip clutch

- Fixed speed up to 60 m/min
- Variable speed up to 80 m/min
- Motor on left side
- Fixed/variable speed
- Without motor

Maximum traction force: 1250 N. See page 22.
*Use online configurator when ordering.
Effective track length: 0.80 m
End drive units X300, direct drive, slip clutch, guided

End drive unit H, guided chain, slip clutch
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
- Without motor

Motor on right side:
- Fixed/variable speed
- Without motor

*Use online configurator when ordering.

Effective track length: 0.80 m

Guide wheel kit 300
Guide wheel for drive units
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

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

End drive unit H, guided chain, no slip clutch
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
- Without motor

Motor on right side:
- Fixed/variable speed
- Without motor

*Use online configurator when ordering.

Effective track length: 0.80 m
Plain bends X300

Plain bend, 30°
- R=700±10 mm
- R=1000±10 mm
- Effective track lengths:
  - R700: 1.55 m (top+bottom)
  - R1000: 1.85 m (top+bottom)
- XBBP 30A300R7
- XBBP 30A300R10

Plain bend, 45°
- R=700±10 mm
- R=1000±10 mm
- Effective track lengths:
  - R700: 1.90 m (top+bottom)
  - R1000: 2.40 m (top+bottom)
- XBBP 45A300R7
- XBBP 45A300R10

Plain bend, 60°
- R=700±10 mm
- R=1000±10 mm
- Effective track lengths:
  - R700: 2.30 m (top+bottom)
  - R1000: 2.90 m (top+bottom)
- XBBP 60A300R7
- XBBP 60A300R10

Plain bend, 90°
- R=700±10 mm
- R=1000±10 mm
- Effective track lengths:
  - R700: 3.00 m (top+bottom)
  - R1000: 3.95 m (top+bottom)
- XBBP 90A300R7
- XBBP 90A300R10
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)*