**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
Chains X300

Plain chain

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

Plain chain
Length 3 m
Food & Wet applications
XBTP 3A300 K
XBTPX 3A300 K
Plain link kit *
Food & Wet applications
FLX1003734
FLX1003735
* 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
Each kit contains 25 items.

Steel pin

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

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

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

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

Pin insertion tool X85--X180-X300
X85-X180-X300-XH, PRO version*
Beam components X300

Beam section kit (300 mm version)

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

Beam (mid-section)

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

Beam (outer section)

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

Profile for split conveyor beam (inner section)

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

Spacer for outer beam sections

 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

 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

 Beam section for chain installation
 Including connecting strips and screws

© FlexLink 2019  Beam components X300  281
Beam accessories X300

Connecting strip with set screws

Connecting strip with set screws

[Diagram]

h=20, a=44, b=44, L=160

XSCJ 6×160

Note. Must be ordered in multiples of 10

Cover strip for T-slot, PVC

[Diagram]

Cover strip for T-slot

Length 25 m

Grey PVC

XCAC 25 P

Cover strip for T-slot, aluminium

[Diagram]

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

[Diagram]

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

[Diagram]

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

[Diagram]

Mounting tool for slide rail

XBMR 170

Aluminium rivets

[Diagram]

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

XLAH 4×7

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

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

Note. Must be ordered in multiples of 50

Rivet crimping pliers

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

Drill fixture for slide rail

Drill fixture for X65-X85-XH-XK-X180-X300 slide rail

d=4,2 mm

Rivet crimping clamp

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

© FlexLink 2019
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, 60 Hz. Variable speed motors are SEW Movimot, 380–500 V. Note that variable speed motors include a control box that adds 120 mm to the width of the motor.
IP55 available with standard oil.
IP65 available with food grade oil.

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
Note that dimensions relating to drive unit motors depend on the motor specified during the configuration.
End drive units X300, 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 *
Without motor
Motor on right 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
Fixed speed 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

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

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

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

© FlexLink 2019
Plain bends X300

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

Effective track lengths:
- R700: 1.55 m (top+bottom)
- R1000: 1.85 m (top+bottom)

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

Effective track lengths:
- R700: 1.90 m (top+bottom)
- R1000: 2.40 m (top+bottom)

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

Effective track lengths:
- R700: 2.30 m (top+bottom)
- R1000: 2.90 m (top+bottom)

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

Effective track lengths:
- R700: 3.00 m (top+bottom)
- R1000: 3.95 m (top+bottom)
Vertical bends X300

**Vertical bend, 5°**

Four outer section beam pieces, unassembled. Effective track length: 0.50 m (top+bottom)

**Vertical bend, 15°**

Four outer section beam pieces, unassembled. Effective track length: 0.75 m (top+bottom)

**Vertical bend, 45°**

Four outer section beam pieces, unassembled. Effective track length: 1.5 m (top+bottom)