Conveyor system X180

Chain X180

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: 182 mm
- Chain width: 175 mm
- Chain pitch: 33.5 mm
- Recommended item width: 70–400 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 X180

Plain chain

- Length 3 m
- Food & Wet applications
- XBTP 3A175
- XBTPX 3A175
- 5056651
- 5122929
- Link kit contains 10 links, 10 pivots, 10 steel pins

Friction top chain

- Length 3 m PAR 1
- XBTP 3A175 F
- XBTP 3A175 FP
- 5056653
- Link kit contains 10 links, 10 pivots, 10 steel pins

Roller cleat link

- XBTL 175x46 R
- Roller cleat chain must be ordered as plain chain plus desired number of roller cleat links. Cannot be ordered as chain.

Other chains

See the Chain guide for a selection of other chains.

Chain installation

See Appendix C, page 473, for installation instructions.
Chain accessories X180

**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*  

*This tool is recommended for frequent users

**Beam components X180**

**Beam section**

Beam section (assembled)  
Length 3000 mm  
Length to order (500- 3000 mm)  
Slide rail: see page 273  

**Beam (outer section)**

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

**Beam (mid-section)**

Beam (mid-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)
Clip kit for outer beam sections

Snap-fit clip kit for outer beam sections

Each kit contains two clips. For construction of 182 mm wide beam sections. Mounting tool: see below. Maximum distance between clips 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 accessories X180

Connecting strip with set screws

Connecting strip with set screws

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

Note. Must be ordered in multiples of 10

Cover strip for T-slot, PVC

Cover strip for T-slot, PVC

Length 3 m

Note! Can’t be used with bends

Cover strip for T-slot, aluminium

Cover strip for T-slot, aluminium

Aluminium, anodized

Length 2 m

Note! Can’t be used with bends
Slide rails X180

Plastic slide rail for X180/X300 beam

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

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

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

Plastic slide rail for X180/X300 beam, outer

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.

Drill fixture for slide rail

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

d=4,2 mm

3920500

Mounting tool for slide rail, X180/X300

Mounting tool for slide rail

XBMR 170

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
(Allen key not included)

3923005

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.
Drive unit types

The X180 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 X180, 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.
Effective track length: 0,80 m
*Use online configurator when ordering.

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 X180, 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 * XBEB A180
Without motor XBEB 0A180HLGP
Motor on right side:
Fixed/variable speed * XBEB A180
Without motor XBEB 0A180HRGP

*Use online configurator when ordering.
Effective track length: 0,80 m

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 * XBEB A180
Without motor XBEB 0A180HNLGP
Motor on right side:
Fixed/variable speed * XBEB A180
Without motor XBEB 0A180HNRGP

*Use online configurator when ordering.
Effective track length: 0,80 m

Guide wheel kit 180
Guide wheel for drive units 5114932
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 X180**

**Idler end unit**

![Idler end unit](image1)

Idler end unit

*Effective track length: 0.80 m*

**Protective cover for idler end unit**

![Protective cover](image2)

Protective cover for idler end unit

*XBSJ 197A180*

**Plain bends X180**

**Plain bend, 30°**

![Plain bend, 30°](image3)

Plain bend, 30°:±1°

- R=500±10 mm
- R=700±10 mm
- R=1000±10 mm

*Effective track lengths:*

- R500: 1.35 m (top+bottom)
- R700: 1.55 m (top+bottom)
- R1000: 1.85 m (top+bottom)

**Plain bend, 45°**

![Plain bend, 45°](image4)

Plain bend, 45°:±1°

- R=500±10 mm
- R=700±10 mm
- R=1000±10 mm

*Effective track lengths:*

- R500: 1.60 m (top+bottom)
- R700: 1.90 m (top+bottom)
- R1000: 2.40 m (top+bottom)

**Plain bend, 60°**

![Plain bend, 60°](image5)

Plain bend, 60°:±1°

- R=500±10 mm
- R=700±10 mm
- R=1000±10 mm

*Effective track lengths:*

- R500: 1.85 m (top+bottom)
- R700: 2.30 m (top+bottom)
- R1000: 2.90 m (top+bottom)

**Plain bend, 90°**

![Plain bend, 90°](image6)

Plain bend, 90°:±1°

- R=500±10 mm
- R=700±10 mm
- R=1000±10 mm

*Effective track lengths:*

- R500: 2.40 m (top+bottom)
- R700: 3.00 m (top+bottom)
- R1000: 3.95 m (top+bottom)
Vertical bends X180

Vertical bend, 5°

Vertical bend, 5°

**XBBV 5A180R750**

*Four outer section beam pieces, unassembled.*
*Effective track length: 0,50 m (top+bottom)*

Vertical bend, 15°

Vertical bend, 15°

**XBBV 15A180R750**

*Four outer section beam pieces, unassembled.*
*Effective track length: 0,75 m (top+bottom)*

Vertical bend, 45°

Vertical bend, 45°

**XBBV 45A180R750**

*Four outer section beam pieces, unassembled.*
*Effective track length: 1,5 m (top+bottom)*