Conveyor system X180

Contents
System information ........................................................... 269
Chains X180 ...................................................................... 270
Chain accessories X180 .................................................... 271
Beam components X180 ................................................... 271
Beam accessories X180 .................................................... 272
Slide rails X180 ................................................................. 273
Drive and idler units – introduction .................................... 274
End drive units X180, direct drive, no slip clutch .............. 275
End drive units X180, direct drive, slip clutch ................. 275
End drive units X180, direct drive, slip clutch, guided ....... 276
End drive units X180, direct drive, no slip clutch, guided.. 276
Idlers X180 ...................................................................... 277
Plain bends X180 .............................................................. 277
Vertical bends X180 .......................................................... 278

System information

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

Plain chain
Length 3 m
Food & Wet applications
XBTP 3A180 K
XBTPX 3A180 K
FLX1004629
5129849
Plain link kit *
Food & Wet applications
*Link kit contains 10 links, 10 pivots, 10 steel pins

Plain chain

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

Friction top chain

Friction top chain
Length 3 m PAR 1
XBTP 3A175 F
Friction top chain
Length 3 m PAR 2-20
XBTP 3A175 FP
Use the online configurator to specify and order.
Friction top link kit *
5056653
*Link kit contains 10 links, 10 pivots, 10 steel pins

Roller cleat link

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*

Beam components X180

Beam section
Beam section (assembled)
Length 3000 mm
Length to order (500- 3000 mm)
XBCB 3A180
XBCB LA180

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

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

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

*This tool is recommended for frequent users

Beam (outer section)
Length 3000 +10/-0 mm
Length to order (500- 3000 mm)
XMMJ 6
XBMJ 6 P

Each kit contains 25 items.

© FlexLink 2019  Chain accessories X180 271
Clip kit for outer beam sections

Snap-fit clip kit for outer beam sections

XBCE 40

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

XBCE 42×20 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 accessories X180

Connecting strip with set screws

Connecting strip with set screws

XSCJ 6×160

Note. Must be ordered in multiples of 10

Cover strip for T-slot, PVC

Cover strip for T-slot, PVC

XCAC 3 P

Note! Can’t be used with bends

Cover strip for T-slot, PVC

Cover strip for T-slot, PVC

XCAC 25 P

Cover strip for T-slot

Grey PVC

Length 25 m

Note! Can’t be used with bends

Cover strip for T-slot, aluminium

Cover strip for T-slot, aluminium

XCAC 2

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

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 ($\mu=0.1–0.25$) (White)
  - Length 3 m

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

Mounting tool for slide rail, X180/X300

Mounting tool for slide rail

Aluminium rivets

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

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.

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

(Allen key not included)
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 units X180, 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.  
Effective track length: 0,80 m  
*Use online configurator when ordering.
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

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).

---

End drive units X180, 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 * 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

---

*Use online configurator when ordering.
Idlers X180

Idler end unit

![Idler end unit](XBEJ A180)

**Effective track length:** 0.80 m

Protective cover for idler end unit

![Protective cover](XBSJ 197A180)

Plain bends X180

Plain bend, 30°

![Plain bend, 30°](XBBP 30A180R5)

**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°](XBBP 45A180R5)

**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°](XBBP 60A180R5)

**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°](XBBP 90A180R5)

**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°**

*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)*