Conveyor system XK

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System information

Chain width 102 mm

Features
Suitable for larger items, especially if point of balance is somewhat offcenter. Higher capacity than other types. Includes components for pallet handling.

Examples of application areas
Ball and roller bearings, heavy boxes, gear wheels, motor parts on pallets, disk brakes, hydraulic pumps.

Technical characteristics
Drive unit capacity ............................................. 2500 N
Chain tension limit ............................................ 2500 N
Beam width ......................................................... 105 mm
Chain width ......................................................... 102 mm
Chain pitch ......................................................... 38,1 mm
Item width ......................................................... 50–300 mm
Maximum item weight
Horizontal transport ........................................... 30 kg
Vertical transport ............................................... 15 kg
Maximum weight on conveyor ......................... 800 kg
Maximum conveyor length ................................ 40 m
Maximum permitted load per link 5,0 kg
Chains XK

Plain chain

Plain chain
Length 5 m
Plain link kit *
Plain chain (Ultra low wear)
Length 5 m
Plain link (Ultra low wear)

Note. This chain must not be used in pallet applications. For this, please use closed top chain XKTP 5 A.

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

Closed top chain

Closed top chain
Length 5 m
Closed top link kit *

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

Universal chain

Universal chain
Length 5 m
Use the online configurator to specify and order.
Universal link kit *

The link has a hole for an M6 screw. M6 nut will fit inside the link.

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

Steel top chain

Steel top chain
Length 5 m
Steel top link kit *

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

Cleated chain, Type A

Cleated chain
Type A cleats
h=15 mm
h=20 mm
h=30 mm
h=40 mm

Use the online configurator to specify and order.

Cleated link kit *

h=15 mm
h=20 mm
h=30 mm
h=40 mm

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

Other chains

See the Chain guide for a selection of other chains.

Chain installation

See Appendix D, page 473, for installation instructions.
## Chain accessories XK

<table>
<thead>
<tr>
<th>Plastic pivot</th>
<th>PO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic pivot, kit (25 pcs) XK</td>
<td>5111497</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Steel pin</th>
<th>CC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel pin, kit (25 pcs) XK</td>
<td>5111498</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pin insertion tool for chain</th>
<th>X45</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pin insertion tool XK</td>
<td>XKMJ 8 P</td>
</tr>
</tbody>
</table>

## Beams XK

<table>
<thead>
<tr>
<th>Conveyor beam, standard</th>
<th>XH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beam, standard</td>
<td>XK</td>
</tr>
<tr>
<td>Length 3000 +10/-0 mm</td>
<td>XKP</td>
</tr>
<tr>
<td>Length to order (30-3000 mm)</td>
<td>X180</td>
</tr>
<tr>
<td>Slide rail: see page 236</td>
<td>X300</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Profile for split conveyor beam</th>
<th>GR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profile for split conveyor beam</td>
<td>CS</td>
</tr>
<tr>
<td>Length 3000 +10/-0 mm</td>
<td>XT</td>
</tr>
<tr>
<td>Length to order (30-3000 mm)</td>
<td>WL</td>
</tr>
<tr>
<td>Beam section for chain installation</td>
<td>WK</td>
</tr>
<tr>
<td>Including connecting strips and screws</td>
<td>XC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Beam clip assembly</th>
<th>XF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beam clip assembly</td>
<td>XD</td>
</tr>
<tr>
<td>Including M8 screw and locking nut. Use minimum 5 clips per meter. Place clips 100 mm from each end.</td>
<td>ELV</td>
</tr>
</tbody>
</table>

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Beam accessories XK

Connecting strip with set screws

![Diagram of connecting strip with set screws]

Connecting strip with set screws

$h=25$, $a=44$, $b=44$, $L=160$

XLCJ 6x160

Note. Must be ordered in multiples of 10

Cover strip for T-slot, aluminium

![Diagram of cover strip for T-slot, aluminium]

Cover strip for T-slot

Aluminium, anodized

Length 2 m

Note! Can’t be used with bends

Cover strip for T-slot, PVC

![Diagram of cover strip for T-slot, PVC]

Cover strip for T-slot

Grey PVC

Length 3 m

Note! Can’t be used with bends

Cover strip for T-slot, PVC

![Diagram of cover strip for T-slot, PVC]

Cover strip for T-slot

Length 25 m

Grey PVC

Beam spacer

![Diagram of beam spacer]

Beam spacer

Aluminium, anodized

Length 3 m

For connection of two conveyor beams side to side. Use M8 screw and slot nut. Two holes must be drilled, one through the spacer (9 mm) and one through the beam, to allow insertion of the screw. The diameter of the second hole depends on the size of the screw head.

Slide rails XK

Plastic slide rails for XK beams

![Diagram of plastic slide rail]

Slide rail

Length 25 m

PVDF ($\mu=0.15–0.35$) (Natural white) $XWCR\ 25\ P$

UHMW-PE ($\mu=0.1–0.25$) (White) $XKCR\ 25\ U$

PA-PE ($\mu=0.1–0.25$) (Grey) $XKCR\ 25\ H$

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

Mounting tool for slide rail

![Diagram of mounting tool for slide rail]

Mounting tool for slide rail XK

XKMR 200

Plastic screws for slide rail

![Diagram of plastic screws for slide rail]

Plastic screws 5 mm for XK beams $XWAG\ 5$

Note. Must be ordered in multiples of 50
Slide rails XK (continued)

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.

Drill fixture for slide rail

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

Rivet crimping clamp

Rivet crimping clamp for X65-X85-XH-XK-X180/X300 For 4 mm rivets (Allen key not included) 3923005

Rivet crimping pliers

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

Cover strip

Cover strip Length: 3 m Material: Plastic PA 12 5112114

Cover the opening on the side between the chain and beam. Primarily for straight sections and the outer curves, but can also be mounted on inner curves. Apply using a double-sided tape, see mounting instruction 5497EN in Technical library.

Slide rails, hardened steel XK

Straight slide rails for XK beams – hardened steel

Slide rail, hardened steel Length 3 m XKCR 3 TH

With 9 predrilled holes. See Appendix B, page 471 for assembly instructions.

Slide rails for XK bends – hardened steel

Slide rail for bends, hardened steel

For 30° wheel bend

For 45° wheel bend

For 90° and 180° wheel bends

For 180° bends: use two 90° slide rails. See Appendix B, page 471 for assembly instructions.
Slide rails, hardened steel XK (continued)

Brass rivets

Brass rivets (100 pcs) 5056167
Rivets for anchoring the slide rails
See Appendix B, page 471 for assembly instructions.

Slide rail fixture

Slide rail fixture 5056186
The fixture is used when anchoring the slide rail. Two fixtures are required.
See Appendix B, page 471 for assembly instructions.
Drive and idler units – introduction

Drive unit types

The XK systems consist of several configurations, including direct driven units as well as driven units with suspended motor and transmission chain.

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, slip clutch</th>
<th>Suspended motor, transmission chain, slip clutch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy</td>
<td>F, V</td>
<td>F</td>
</tr>
<tr>
<td>Heavy</td>
<td></td>
<td>F</td>
</tr>
</tbody>
</table>

Catenary drive units

<table>
<thead>
<tr>
<th>Size</th>
<th>Suspended motor, transmission chain, slip clutch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy</td>
<td>F</td>
</tr>
<tr>
<td>Heavy</td>
<td>F</td>
</tr>
</tbody>
</table>

Wheel bend drive units

<table>
<thead>
<tr>
<th>Size</th>
<th>Suspended motor, transmission chain, slip clutch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy</td>
<td>F</td>
</tr>
</tbody>
</table>

Double drive units

<table>
<thead>
<tr>
<th>Size</th>
<th>Suspended motor, transmission chain, slip clutch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy</td>
<td>F</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 except those for Compact drive units 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.

Dimension limits – in-line transfer drive units (X-bends)

The dimensions of an in-line drive unit impose restrictions with regard to conveyor geometry. The idler part of the drive unit may interfere with other parts of the conveyor. The figure shows a typical case, showing typical minimum dimensions.
End drive units XK

End drive unit, suspended motor, slip clutch

- Drive unit
  - Suspended motor
  - Fixed speed up to 60 m/min
  - Transmission on right side
  - Fixed speed *
  - Without motor (ISO) [XKEB XKEB 0 R]
  - Without motor (ANSI) [XKEB XKEB 0 RA]

Maximum traction force: 1250 N. See page 22.
*Use online configurator when ordering.
Effective track length: 0.85 m

End drive unit, high capacity

- Drive unit
  - Suspended motor
  - Fixed speed up to 25 m/min
  - Transmission on right side
  - Fixed speed *
  - Without motor (ISO) [XKEB XKEB 0 HR]
  - Without motor (ANSI) [XKEB XKEB 0 HRA]

Maximum traction force: 2500 N. See page 22.
*Use online configurator when ordering.
Note! Only motors with brakes can be selected
Effective track length: 0.85 m

---

Maximum traction force: 1250 N. See page 22.
*Use online configurator when ordering.
Effective track length: 0.85 m
End drive units XK, direct drive with slip clutch

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

- Fixed speed up to 60 m/min
- Variable speed: see Drive Unit Guide
- 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

**Double drive units XK**

**Double drive unit, suspended**

- Fixed speed up to 50 m/min
- Suspended motor
- Transmission on left side
- Fixed speed *
- Without motor (ISO)
- Without motor (ANSI)
- A = 150–350 mm
- Maximum traction force: 1250 N. See page 22.
- *Use online configurator when ordering.
- Effective track length: 0.85 m

- Fixed speed *
- Without motor (ISO)
- Without motor (ANSI)
- A = 150–350 mm
- Maximum traction force: 1250 N. See page 22.
- *Use online configurator when ordering.
- Effective track length: 0.85 m
Catenary drive units XK

Catenary drive unit, suspended
Suspended motor
Fixed speed up to 30 m/min
Transmission on left side
Fixed speed*
Without motor (ISO)
Without motor (ANSI)
Maximum traction force: 1250 N. See page 22.
*Use online configurator when ordering.
Effective track length: 1,60 m

Catenary drive unit, high capacity
Suspended motor
Fixed speed up to 25 m/min
Transmission on right side
Fixed speed*
Without motor (ISO)
Without motor (ANSI)
Maximum traction force: 2500 N. See page 22.
*Use online configurator when ordering.
Effective track length: 1,60 m

Wheel bend drive unit XK

Wheel bend drive unit, 180°
Fixed speed up to 30 m/min
Fixed speed*
Without motor (ISO)
Without motor (ANSI)
Maximum traction force: 200 N. See page 22.
*Use online configurator when ordering.
Effective track length: 0,85 m
X-Bends

Support components for X-bends

X-bends must have a special arrangement for connecting beam support brackets. See example in figure below.

Read more about beam support brackets on page 317.
Idler units XK

**Idler end unit**

<table>
<thead>
<tr>
<th>Model</th>
<th>Effective track length</th>
</tr>
</thead>
<tbody>
<tr>
<td>XKEJ 350</td>
<td>0.85 m</td>
</tr>
</tbody>
</table>

**Protective cover for idler end unit**

<table>
<thead>
<tr>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>XKSJ 202</td>
</tr>
</tbody>
</table>

Wheel bends XK

**Wheel bend, 30°**

<table>
<thead>
<tr>
<th>Model</th>
<th>Effective track length</th>
</tr>
</thead>
<tbody>
<tr>
<td>XKBH 30R200</td>
<td>0.35 m 1-way (0.65 m 2-way)</td>
</tr>
</tbody>
</table>

**Wheel bend, 45°**

<table>
<thead>
<tr>
<th>Model</th>
<th>Effective track length</th>
</tr>
</thead>
<tbody>
<tr>
<td>XKBH 45R200</td>
<td>0.40 m 1-way (0.75 m 2-way)</td>
</tr>
</tbody>
</table>

**Wheel bend, 90°**

<table>
<thead>
<tr>
<th>Model</th>
<th>Effective track length</th>
</tr>
</thead>
<tbody>
<tr>
<td>XKEK 90R70</td>
<td>0.70 m</td>
</tr>
<tr>
<td>XKBH 90R200</td>
<td>0.55 m 1-way (1.10 m 2-way)</td>
</tr>
</tbody>
</table>

**Wheel bend, 180°**

<table>
<thead>
<tr>
<th>Model</th>
<th>Effective track length</th>
</tr>
</thead>
<tbody>
<tr>
<td>XKBH 180R200</td>
<td>0.85 m 1-way (1.70 m 2-way)</td>
</tr>
</tbody>
</table>
Wheel cover for Wheel bend

Wheel cover for Wheel bend

Wheel cover for XK

Wheel cover for XK
(Including one pair of Wheel cover 5112247 and 2 tap screw ISO 7049 4.2x6.5-C-H-A2K)

Plain bends XK

Plain bend, 30°

Plain bend, 30° ± 1°
R=500±10 mm
R=700±10 mm
R=1000±10 mm

Effective track lengths:
R500: 0.70 m 1-way (1.35 m 2-way)
R700: 0.80 m 1-way (1.55 m 2-way)
R1000: 0.95 m 1-way (1.85 m 2-way)

Plain bend, 45°

Plain bend, 45° ± 1°
R=500±10 mm
R=700±10 mm
R=1000±10 mm

Effective track lengths:
R500: 0.80 m 1-way (1.60 m 2-way)
R700: 0.95 m 1-way (1.90 m 2-way)
R1000: 1.20 m 1-way (2.40 m 2-way)
Plain bends XK (continued)

Plain bend, 60°

Plain bend, 60°±1°
R=500±10 mm
R=700±10 mm
R=1000±10 mm

Effective track lengths:
R500: 0.95 m 1-way (1.85 m 2-way)
R700: 1.15 m 1-way (2.30 m 2-way)
R1000: 1.45 m 1-way (2.90 m 2-way)

Plain bend, 90°

Plain bend, 90°±1°
R=500±10 mm
R=700±10 mm
R=1000±10 mm

Effective track lengths:
R500: 1.20 m 1-way (2.40 m 2-way)
R700: 1.50 m 1-way (3.00 m 2-way)
R1000: 2.00 m 1-way (3.95 m 2-way)

Vertical bends XK

Vertical bend, 5°

Vertical bend, 5°

Effective track length: 0.25 m 1-way (0.50 m 2-way)

Vertical bend, 30°

Vertical bend, 30°

Effective track length: 0.60 m 1-way (1.15 m 2-way)

Vertical bend, 15°

Vertical bend, 15°

Effective track length: 0.40 m 1-way (0.75 m 2-way)

Vertical bend, 45°

Vertical bend, 45°

Effective track length: 0.80 m 1-way (1.55 m 2-way)
Vertical bends XK (continued)

Vertical bend, 60°

Vertical bend, 60°

XKBV 60R750
Effective track length: 1,00 m 1-way (1,95 m 2-way)

Vertical bend, 90°

Vertical bend, 90°

XKBV 90R750
Effective track length: 1,40 m 1-way (2,70 m 2-way)

Angle plates XK

Angle plate, straight

Angle plate
Length 3 m

XHRP 3

Angle plate bracket

Angle plate bracket

3927082

Vertical bend, 5°–90°

Vertical bend, 5°–90°

XKBV ER750
The bend is cut in the middle to the desired angle and assembled using connecting strips. The angle “E” must be specified when ordering.

The bend is cut in the middle to the desired angle and assembled using connecting strips. The angle “E” must be specified when ordering.
Front piece XK

**Front piece**
- Length 3 m
  - XKVF 3

**Sliding strip for front piece**
- Length 2 m
  - XKVG 2

**Front piece upper bend**
- Upper bend, 60°
  - XKVA 60R830
  - Includes connecting strip with screws

**Front piece lower bend**
- Lower bend, 60°
  - XKVB 60R670
  - Includes connecting strip with screws

**Linkage kit for front piece**
- XKVK 43
- XKVK 93
  - Linkage kit
    - W=190, D=43
    - W=290, D=93
  - Kit consists of two support pairs and one locking device.

**Bend support for front piece**
- XKVS 43
- XKVS 93
  - Bend support
    - D=43 mm
    - D=93 mm
Drip trays XK

- **Drip tray**
  - Length 3 m
  - XKDT 3x147

- **Drip tray bracket**
  - XLDB 21x100

- **Drip tray connector**
  - XKDJ 147 A

- **Connecting strip**
  - XLCJ 5x140
  - Connecting strip with set screws
  - Note. Must be ordered in multiples of 10

- **End pan for drip tray**
  - XKDE 147 A
  - With drip outlet
  - Including screw kit

- **End cap for drip tray**
  - XKDC 147 A
  - Including screw kit

- **Drip tray connector with drip catcher**
  - XKDJ 147 AW
  - With drip outlet
  - Including screw kit
Drip catchers XK

- **Drip catcher 53 mm**
  - Length 3 m
  - XHDS 3×53

- **Drip catcher 83 mm**
  - Length 3 m
  - XHDS 3×83

Drip catcher bracket assembly

- Height 23 mm
- Including T-bolts and nuts
  - XHDR 23

Drip pans XK

- **Drip pan for wheel bend 45°**
  - Including screw kit
  - XKDH 45×147 A

- **Drip pan for wheel bend 90°**
  - Including screw kit
  - XKDH 90×147 A

- **Drip pan for wheel bend 180°**
  - Including screw kit
  - XKDH 180×147 A

- **Drip pan, upper, for 90° vertical bend**
  - Including outlet
  - XKDV 90×147 A

- **End pan for idler end unit**
  - Including outlet
  - XKDD 147 A

- **Drip pan 45° with drip catcher**
  - Including integrated drip catcher
  - XKDH 45×147 AW
Drip pans XK (continued)

Drip pan 90° with drip catcher

Drip pan for wheel bend 90°
With integrated drip catcher
Including screw kit

XKDH 90×147 AW

Drip pan 180° with drip catcher

Drip pan for wheel bend 180°
With integrated drip catcher
Including screw kit

XKDH 180×147 AW

End pan with drip catcher, for idler end unit

End pan for idler end unit
With integrated drip catcher and drip outlet
Including screw kit

XKDD 147 AW