Conveyor system XH

Contents
System information ........................................................... 213
Chains XH ........................................................................ 214
Chain accessories XH ...................................................... 215
Beams XH ....................................................................... 215
Beam accessories XH ...................................................... 216
Slide rails XH .................................................................. 217
Slide rails XH, hardened steel ......................................... 218
Drive and idler units – introduction ................................... 219
End drive units XH .......................................................... 220
End drive units XH, direct drive with slip clutch ............... 220
End drive units XH Type H, direct drive, no slip clutch .... 221
Double drive units XH ..................................................... 221
Intermediate drive units XH ............................................. 222
Catenary drive units XH .................................................. 222
Bend drive unit XH .......................................................... 223
Idler units XH ................................................................. 223
Wheel bends XH ............................................................. 224
Wheel cover for Wheel bend .......................................... 225
Support rail for plain bends XH ....................................... 226
Vertical bends XH ........................................................... 227
Angle plates XH ............................................................. 228
Front piece XH ............................................................... 229
Drip trays XH ................................................................. 230
Drip catchers XH ........................................................... 231
Drip pans XH ................................................................. 231
Wheel bends XH ............................................................. 224
Support rail for plain bends XH ....................................... 226

System information

Chain width 103 mm

Features
Suitable for larger items, especially if point of balance is somewhat offcenter. Higher capacity than XS and X65.

Examples of application areas
Large ball bearings, electric motors, steering arm components, secondary packages, cartons.

Technical characteristics
Drive unit capacity ........................ 1250 N
Chain tension limit ...................... 1250 N
Beam width ................................ 105 mm
Chain width ................................ 103 mm
Chain pitch ............................... 35.5 mm
Item width ................................. 25–300 mm
Maximum item weight
Horizontal transport .................... 20 kg
Vertical transport ........................ 15 kg
Maximum weight on conveyor ....... 150–300 kg
Maximum conveyor length ........... 30 m
Maximum permitted load per link 2.0 kg
### Chains XH

<table>
<thead>
<tr>
<th>Plain chain</th>
<th>Steel top chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length 5 m</td>
<td></td>
</tr>
<tr>
<td>XHTP 5</td>
<td>XHTP 5 TF</td>
</tr>
<tr>
<td>5056312</td>
<td>5056594</td>
</tr>
</tbody>
</table>

**Plain chain**
- Length 5 m
- XHTP 5
- 5056312

**Steel top chain**
- Length 5 m
- XHTP 5 TF
- 5056594

**Flat top friction chain**
- Length 5 m
- XHTP 5 FA
- 5058544

**Roller top chain**
- Length 5 m
- XHTR 5
- 5056603

**Friction top chain**
- Length 5 m
- XHTP 5 FP
- 5056593

**Cleated chain, Type A**
- h=15 mm
- h=20 mm
- h=30 mm
- h=40 mm
- XHTF 5×15 A
- XHTF 5×20 A
- XHTF 5×30 A
- XHTF 5×40 A
- 5056595
- 5056596
- 5056597
- 5056598

**Cleated link kit**
- 5056595
- 5056596
- 5056597
- 5056598

**Roller top link kit**)**
- 5056603

**Note. Link kit contains 10 links, 10 pivot, 10 steel pins.**

**Note. This link cannot be combined with plain links.**

**Note. Link kit contains 10 links, 10 pivot, 10 steel pins.**

**Note. Link kit contains 10 links, 10 pivot, 10 steel pins.**
Chains XH (continued)

Chain with roller cleats

Chain with roller cleats
Length 5 m
Use the online configurator to specify and order.

XHTF 5x46 R

Link kit with roller cleats*

Note. This type of chain requires minimum one plain link between every cleated link.
*Note. 1 link XHTL 103x46 R with pivot and steel pin.

Beams XH

Conveyor beam

Beam
Length 3000 +10/-0 mm
Length to order (30-3000 mm)

XHCB 3
XHCB L

Beam, reinforced
Length 3000 +10/-0 mm
Length to order (30-3000 mm)

XHCB 3 R
XHCB L R

Beam section for chain installation

Including connection strips and screws

XHCC 160 A

Profile for split conveyor beam

Profile for split conveyor beam
Length 3000 +10/-0 mm
Length to order (30-3000 mm)

XHCB 3 H
XHCB L H

Beam clip assembly

Including M8 screw and locking nut. Use minimum 5 clips per meter. Place clips 100 mm from each end.

XHCE 69x30

Other chains

See the Chain guide for a selection of other chains.

Chain installation

See Appendix C, page 473, for installation instructions.

Chain accessories XH

Plastic pivot

Plastic pivots, kit XH (25 pcs)

5056588

Steel pin

Steel pin, kit (25 pcs) XH

5111502

Pin insertion tool for chain

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

XHMJ 6
XBMJ 6 P

This tool is recommended for frequent users
Beam accessories XH

Connecting strip with set screws

Connecting strip with set screws
h=25, a=30, b=50, L=130
h=25, a=44, b=44, L=160

XLCJ 6×130
XLCJ 6×160

Note. Must be ordered in multiples of 10

Cover strip for T-slot, PVC

Cover strip for T-slot, PVC
Length 25 m

XLAB 25

For XS-XH

Beam spacer

Aluminium, anodized
Length 3 m

XLCD 3

For connection of two conveyor beams side to side. Use M8 screw and slot nut. Two holes must be drilled, one through the spacer (8 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.

Articulated beam section

Articulated beam section vertical XHCH 5 V
Slide rails XH

Plastic slide rails for beams

- XLCR 25
- XLCR 25 P/PH
- XLCR 25 U

Slide rail

- Length 25 m
- HDPE (μ=0,1–0,25) (Black)
- PA-PE (μ=0,1–0,25) (Grey)
- PVDF (μ=0,15–0,35) (Natural white)
- PE-UHMW (μ=0,1–0,25) (White)
- PE-UHMW conductive (Black)

See Appendix A, page 459 for selection guidelines and assembly instructions.

Steel slide rail for beams

- XLCR 3 TA

Slide rail (μ=0,15–0,35)

- Length 3 m
- Acid resistant stainless steel

Mounting tool for slide rail

- XHMR 200

Aluminium rivets

- XLAH 4×6

Extra slide rail in plain bends must be anchored using plastic screws due to lack of space for the rivet crimping tool.

Plastic screws for slide rail

- XLAG 5

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

- XLCR 25
- XLCR 25 H
- XLCR 25 P
- XLCR 25 U
- XLCR 25 E

Rivet crimping pliers

- XLCR 3 TA

Rivet crimping clamp

- XHMR 200

Cover strip

- Length: 3 m
- Material: Plastic PA 12

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.

© FlexLink 2019 Slide rails XH 217
Slide rails XH, hardened steel

Steel slide rail, straight

Length 3 m

Delivered with 9 predrilled holes

Steel slide rail for bends

Slide rail for bend, XH 30°
Slide rail for bend, XH 45°
Slide rail for bend, XH 90° & 180°

180°: Use 2 pieces of steel slide rail 90°

Brass rivets

Brass rivets (100 pcs)

Rivets for anchoring the slide rails

Cleaner 3M

Cleaner (100 sachets)

Use cleaner on beam and slide rail before attaching glue tape.

Glue tape 3M

Glue tape (for X65, X85, XH)

Length 30 m

5056167

5057207

5057208
Drive and idler units – introduction

Drive unit types
The XH system includes several configurations are available, including direct driven units with or without slip clutch. Heavy duty drives with suspended motor and transmission chain can also be ordered.

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

Intermediate 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>

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>
</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.
End drive units XH

**End drive unit, suspended, slip clutch**
- Speed up to 60 m/min
- Transmission on left side
- Fixed speed
- Without motor (ISO)
- Without motor (ANSI)
- Maximum traction force: 1250 N. See page 22.
- Effective track length: 0.80 m
- Use online configurator when ordering.

**End drive unit, suspended, slip clutch**
- Speed up to 60 m/min
- Transmission on right side
- Fixed speed
- Without motor (ISO)
- Without motor (ANSI)
- Maximum traction force: 1250 N. See page 22.
- Effective track length: 0.80 m
- Use online configurator when ordering.

**End drive units XH, direct drive with slip clutch**
- 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.
- Effective track length: 0.80 m
- Use online configurator when ordering.

**End drive units XH, direct drive with slip clutch**
- Speed up to 60 m/min
- Variable speed: see Drive Unit Guide
- 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 XH Type H, direct drive, no slip clutch

**End drive unit, direct drive, no slip clutch**

- Fixed speed: up to 60 m/min
- Variable speed: see Drive Unit Guide
- Motor on left side
- Fixed/variable speed
- No slip clutch

**Maximum traction force:** see diagram, page 22.  
*Use online configurator when ordering.  
Effective track length: 0.80 m

**End drive unit, max 1250 N**

- Fixed speed: up to 60 m/min
- Variable speed: see Drive Unit Guide
- Motor on left side
- Fixed/variable speed
- No slip clutch

**Maximum traction force:** see diagram, page 22.  
*Use online configurator when ordering.  
Effective track length: 0.80 m

**End drive unit, direct drive, no slip clutch**

**Double drive units XH**

**Double drive unit, suspended**

- Fixed speed: up to 60 m/min
- Transmission on left side
- A = 106 mm
- Fixed speed
- Without motor (ISO)
- Without motor (ANSI)
- A = 150–350 mm
- Without motor (ISO)
- Without motor (ANSI)

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

**Double drive unit, suspended**

- Fixed speed: up to 60 m/min
- Transmission on right side
- A = 106 mm
- Fixed speed
- Without motor (ISO)
- Without motor (ANSI)
- A = 150–350 mm
- Without motor (ISO)
- Without motor (ANSI)

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

Intermediate drive unit
Suspended motor
Fixed speed up to 25 m/min
Transmission on left side
Fixed speed*
Without motor (ISO)
Without motor (ANSI)

XHER
XHER 0 HL
XHER 0 HLA

Maximum traction force: 200 N. See page 22.
*Use online configurator when ordering.
Effective track length: 1.00 m

Catenary drive units XH

Intermediate drive unit
Suspended motor
Fixed speed up to 25 m/min
Transmission on right side
Fixed speed*
Without motor (ISO)
Without motor (ANSI)

XHER
XHER 0 HR
XHER 0 HRA

Maximum traction force: 200 N. See page 22.
*Use online configurator when ordering.
Effective track length: 1.00 m

Catenary drive unit
Suspended motor
Fixed speed up to 25 m/min
Transmission on left side
Fixed speed*
Without motor (ISO)
Without motor (ANSI)

XHEC
XHEC 0 HL
XHEC 0 HLA

Maximum traction force: 1250 N. See page 22.
*Use online configurator when ordering.
Effective track length: 1.35 m

Catenary drive unit
Suspended motor
Fixed speed up to 25 m/min
Transmission on right side
Fixed speed*
Without motor (ISO)
Without motor (ANSI)

XHEC
XHEC 0 HR
XHEC 0 HRA

Maximum traction force: 1250 N. See page 22.
*Use online configurator when ordering.
Effective track length: 1.35 m
Bend drive unit XH

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: 0.65 m

Idler units XH

Idler end unit

Idler unit XHEJ 325
Effective track length: 0.80 m

Idler bend unit, 90°

Idler unit XHEK 90R50
Effective track length: 0.65 m.
Note. Cannot be used with return chain.
Wheel bends XH

Wheel bend, 30°

Wheel bend, 90°

Wheel bend, 210°

Wheel bend, 45°

Wheel bend, 180°

Wheel bend, 30°–180°

XHBH 30R170 A
Effective track length: 0,25 m 1-way (0,50 m 2-way)

XHBH 90R170 A
Effective track length: 0,40 m 1-way (0,80 m 2-way)

XHBH 210R170 A
Effective track length: 0,80 m 1-way (1,60 m 2-way)

XHBH 45R170 A
Effective track length: 0,30 m 1-way (0,60 m 2-way)

XHBH 180R170 A
Effective track length: 0,65 m 1-way (1,30 m 2-way)

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

Wheel cover for X65/XL, XT, X85, XH

Wheel cover for X65/XL, XT, X85, XH
(Including one pair of Wheel cover 5112244 and 2 tap screw ISO 7049 4,2x6,5-C-H-A2K)

Markers for cutting and adjustment to specific conveyor system.

Example: To fit the wheel cover to a X85 system, cut the part marked XH (see figure A).
To fit the wheel cover to a XT system, cut the parts marked X85 and XH.

Plain bends XH

Plain bend, 30°

Plain bend, 60°

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)

Effective track lengths:

R500: 0,85 m 1-way (1,70 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 bends XH (continued)

Plain bend, 45°

Plain bend, 90°

Support rail for plain bends XH

Fix with sheet metal screw ISO 7049 4.2×9.5 or similar. See page 467 for installation instructions.
Vertical bends XH

**Vertical bend, 5°**

![Diagram of Vertical bend, 5°](image1)

**XHBV 5R400**

*Effective track length: 0,20 m 1-way (0,40 m 2-way)*

**Vertical bend, 7°**

![Diagram of Vertical bend, 7°](image2)

**XHBV 7R400**

*Effective track length: 0,20 m 1-way (0,45 m 2-way)*

**Vertical bend, 15°**

![Diagram of Vertical bend, 15°](image3)

**XHBV 15R400**

*Effective track length: 0,30 m 1-way (0,55 m 2-way)*

**Vertical bend, 30°**

![Diagram of Vertical bend, 30°](image4)

**XHBV 30R400**

*Effective track length: 0,40 m 1-way (0,75 m 2-way)*

**Vertical bend, 45°**

![Diagram of Vertical bend, 45°](image5)

**XHBV 45R400**

*R= 400, A=419, B=174
R=1000, A=844, B=349

*Effective track length:
R400: 0,50 m 1-way (0,95 m 2-way)
R1000: 0,95 m 1-way (1,90 m 2-way)*

**Vertical bend, 60°**

![Diagram of Vertical bend, 60°](image6)

**XHBV 60R400**

*Effective track length: 0,65 m 1-way (1,20 m 2-way)*

**Vertical bend, 90°**

![Diagram of Vertical bend, 90°](image7)

**XHBV 90R400**

*R= 400, A= 480
R=1000, A= 1080

*Effective track length:
R400: 0,85 m 1-way (1,60 m 2-way)
R1000: 1,75 m 1-way (3,50 m 2-way)*
Vertical bends XH (continued)

**Vertical bend, 5°–90°**

Vertical bend, 5°–90°

- R=400
- R=1000

XHBV ER400
XHBV ER1000

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

**Angle plates XH**

**Angle plate, straight**

Angle plate
Length 3 m

XHP 3

**Angle plate for 90° bend**

Angle plate for 90° bend
Used with XHBH 90R170
Inner radius 222.5 mm

XHRM 90

**Angle plate for 180° bend**

Angle plate for 180° bend
Used with XHBH 180R170 and XHEW 180/5 H
Inner radius 222.5 mm

XHRM 180
Front piece XH

**Front piece**

- Length 3 m

**Sliding strip for front piece**

- Length 2 m

**Front piece upper bend**

- Upper bend, 60°

**Front piece lower bend**

- Lower bend, 60°

**Linkage kit for front piece**

- Kit consists of two support pairs.

**Bend support for front piece**

- D=43 mm
- D=93 mm

**Linkage kit**

- W=190, D=43
- W=290, D=93

**Kit consists of two support pairs.**

© FlexLink 2019
Drip trays XH

Drip tray
Length 3 m  XHDT 3x147 B

Drip tray bracket  XLDB 21x100

Drip tray connector  XHDJ 147 B

Connecting strip  XLCJ 5x140

End pan for drip tray  XHDE 147 B

End cap for drip tray  XHDC 147 B

Note. Must be ordered in multiples of 10
Drip catchers XH

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

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

Drip catcher bracket assembly
Including T-bolts and nuts
XHDR 23

Drip pans XH

Drip pan for wheel bend 90°
Including screw kit
XHDH 90×147 B

End pan for idler end unit
With drip outlet
Including screw kit
XHDD 147 B

© FlexLink 2019