Conveyor system X85

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System information

Chain width 83 mm

Features
Suitable for a wide range of applications. Includes components for pallet handling (X85P) and vertical wedge conveyors.

Examples of application areas
Home care products, personal care products, pucks for filling operations, secondary packages, cartons.

Technical characteristics

Beam width ................................................................. 85 mm
Chain width ............................................................... 83 mm
Chain pitch ................................................................. 33.5 mm
Drive unit capacity .................................................... 300–1250 N
Chain tension limit ..................................................... 1250 N
Item width ................................................................. 20–200 mm
Maximum:
- conveyor length .................................................. 30 m
- weight on conveyor ............................................... 200 kg
- load per 100 mm conveyor length ......................... 75 N
- item weight, horizontal transport ......................... 15 kg
- item weight, vertical transport ...................... 10 kg

Vertical wedge conveyor applications

Item width ................................................................. 40–300 mm
Maximum:
- conveyor length .................................................. 8 m
- item weight ......................................................... 2 kg
- permitted load per link ............................... 2.5 kg
Conveyor modules

Straight conveyor

Conveyor module – straight *

Support modules – single and multi-lane

Support module – single lane *

Support module – multi-lane *

One bend conveyor

Conveyor module – one bend *

Two bend conveyor

Conveyor module – two bends *

*Use online configurator when ordering

Support module – single lane *

Support module – multi-lane *

* Use online configurator when ordering
Chains – introduction

Chain types

The conveyor chain is designed for smooth running, minimum wear and low noise level at normal speeds. For wet applications use XBTPX 5A85.

Chain performance levels

- For most applications: standard chain, available as plain chain, cleated chain, friction top chain, steelplated chain, and roller top chain.
- For special applications: ultra high wear resistance chain, steel top chain, high temperature chain, conductive chain, semi-conductive chain, smooth top chain, and wedge top chain.

Note

In pallet systems where pallets type BR or R are used, it is necessary to use the plain chain with closed top XBTP 5A85 A. This will ensure that the pallet surface is at the correct height with regard to other system components. Do not use this chain with other pallet types. See catalogue section “X85 pallet system” for more information.

Configuration of cleated chains

Cleated X85 chains must be ordered using the online configurator. Specify the desired distance between cleats. This means the minimum desired c-c distance between the cleated links. Ensure that enough clearance is provided in relation to the shape of the cleats. See the example below.

Note

You cannot order cleated chains by specifying the designation given in the catalogue (for example XBTP 5A85X15 A). It is necessary to use the online configurator.
Chains

Plain chain
Length 5 m
Standard material
Conductive material
Ultra low wear
Food & Wet applications
XBTP 5A85
XBTP 5A85 E
XBTP 5A85 C
XBTPX 5A85

Plain link kit *
Standard material
Conductive material
Ultra low wear
Food & Wet applications
5110529
5110527
5110533
5110512
*Link kit contains 10 links, 10 pivots, 10 steel pins
Do not use this chain with pallets type BR or R.

Closed top chain
Length 5 m
XBTP 5A85 A

Closed top link kit *
5110513
*Link kit contains 10 links, 10 pivots, 10 steel pins
Use this chain in pallet systems with pallets type BR or R. Not suitable for other pallet types.

Friction top chain
Length 5 m
All links are friction type
Every 2nd link is friction type
XBTP 5A85 F
XBTP 5A85 F2

Friction top link kit *
5110518
*Link kit contains 10 friction top links, 10 pivots, 10 steel pins

Flat friction top chain
Length 5 m
XBTP 5A85 FA

Friction top link kit *
5110528
* Link kit contains 10 links, 10 pivots, 10 steel pins

Steel top chain
Length 5 m
XBTP 5A85 TF

Steel top link kit *
5110519
*Link kit contains 10 links, 10 pivots, 10 steel pins
Top part has steel cover for improved wear resistance.

Cleated chain, Type A
Type A cleats
Length 5 m
h=15 mm
h=30 mm
XBTF 5A85x15 A
XBTF 5A85x30 A

Cleated link kit **
5110516
5110517
**Link kit contains 10 links, 10 pivots, 10 steel pins

* This product is delivered with plain links between the cleats. Use the online configurator to specify and order.

** Link kit contains 10 links, 10 pivots, 10 steel pins
Roller top chain

Roller top chain
Length 5 m
Use the online configurator to specify and order.
Roller top chain
Length 5 m
Roller top link kit *
*Link kit contains 10 links, 10 pivots, 10 steel pins

Flexible cleat chain, Type B

Flexible cleat chain Type B
Length 5 m
* This product is delivered with plain links between the cleats.
Flexible cleat link kit
** Link kit contains 10 links, 10 pivots, 10 steel pins

Flexible cleat chain, Type C

Flexible cleat chain Type C
Length 5 m
Flexible cleat link kit *(link base and flexible cleat top)
Flexible cleat top kit (replacement)
*Link kit contains 10 links, 10 pivots, 10 steel pins
**Cleat kit contains 10 flexible cleat tops

Flexible cleat chain, Type D

Flexible cleat chain Type D
Length 5 m
Flexible cleat link assembly Type D* (link base and flexible cleat top)
Flexible cleat top (replacement)
*Link kit contains 10 links, 10 pivots, 10 steel pins
**Cleat kit contains 10 flexible cleat tops

Roller top chain

Roller top chain
Length 5 m
XBTR 5A85 P

Flexible cleat chain Type B
Length 5 m
XBTE 5A85 B

Flexible cleat chain Type C
Length 5 m
XBTE 5A85 C

Flexible cleat chain Type D
Length 5 m
XBTE 5A85 D

Chain with 23 mm roller cleats

Chain with 23 mm roller cleats *
Length 5 m
XBTF 5A85×23 R
* This product is delivered with plain links between the cleats. Use the online configurator to specify and order.
Roller cleat link kit
** Link kit contains 10 links, 10 pivots, 10 steel pins

Flexible cleat chain Type C
Length 5 m
Flexible cleat top kit (replacement)
**Cleat kit contains 10 flexible cleat tops

Flexible cleat chain Type D
Length 5 m
Flexible cleat link assembly Type D*
** Link kit contains 10 links, 10 pivots, 10 steel pins

Flexible cleat chain Type D
Length 5 m
Flexible cleat link assembly Type D*
** Link kit contains 10 links, 10 pivots, 10 steel pins

Flexible cleat chain Type D
Length 5 m
Flexible cleat link assembly Type D*
Chains (continued)

**Universal chain**

Universal chain
Length 5 m

XBTF 5A85 U

* This product is delivered with plain links between the universal links. Use the online configurator to specify and order.

The link has a hole for an M5 screw. An M5 nut will fit inside the link.

Universal link kit ** 5110526

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

**V-block chain**

V-block chain
Length 5 m

V-block chain kit *
5110386

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

**Steel chain, X85**

Steel chain X85
Length 5 m

Steel link X85 (spare part, 10 pcs)
Including pins and pivots.

5056849

5058301

Entire top part is electro-zinc-plated hardened steel (700HV1). Bottom part is acetal resin.
Rebuilding instructions are included see page 475. Modification kits are available. See page 161.

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Other chains

See the Chain guide for a selection of other chains.

Chain installation

See “Appendix D” for installation instructions.
Chain accessories

**Plastic pivot for chain**

Plastic pivot kit  
*Spare parts kit, 25 pcs*

**Steel pin for chain**

Steel pin kit  
*Spare parts kit, 25 pcs*

**Pin insertion tool for chain**

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

*This tool is recommended for frequent users*

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**Accessories for use with steel chain 5056849**

**Rebuilding kit for end drive unit**

Rebuilding kit for End drive unit H  
**5058263**  
*Kit includes support rolls for guidance of chain under the drive unit. Rebuilding instructions are delivered with the chain.  
Note. Can only be used for chains without cleats or rollers.*

**Rebuilding kit for direct drive**

Rebuilding kit for End drive unit H, direct drive  
**5058269**  
*Kit includes support rolls for guidance of chain under the drive unit, and side plates for replacement. Rebuilding instructions are delivered with the chain.*
Beam design
The X85 beams are designed for rigidness, smooth running, high speeds and low noise. Features include a flat top surface and heavy duty T-slots. The T-slots ensure easy but rigid attachment of accessories such as guide rail brackets.

Slide rail
The slide rails are designed for long service life, smooth running, low elongation and minimized risk of failure. They feature increased wear surface thickness. Several options exist for high performance operation. Slide rail types include

- Standard
- Type U – low friction
- Type P – high resistance to chemicals
- Type H – high wear resistance
- Steel for ultra high wear resistance
- ESD – conductive – dissipative for applications sensitive to static electricity

Very high speeds: see Engineering guidelines or contact FlexLink Systems for more information.

Three slide rail profiles
Slide rails are available in three profile designs: standard, wide, and wide with guidance.

- Type B
- Type A

Normally the wide slide rail (type B) is used. For light loads, and in bends, the narrow width slide rail is suitable. The slide rail with a side flange (type A) improves appearance and protection.

Slide rails in bends
Special instructions apply for installation of plastic slide rail in bends. Such instructions are included with the delivery. The wide slide rails (type A and B) are not suitable for use in bends.

Slide rail in hardened steel
Slide rails in hardened steel are used in applications where abrasive particles occur. Such slide rails cannot be bent, and are attached on the top of the conveyor beam using brass or stainless steel rivets. Pre-bent sections for wheel bends are available. See appendix B for installation instructions.
Beams

Conveyor beam

Beam
Length 3000 +10/-0 mm
Length to order (30- 3000 mm)
Slide rail: see page 164.
Beam accessories: see below.

Profile for split conveyor beam

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

Beam section for chain installation

Beam section kit
Including connection strips and screws

Beam clip assembly

Beam accessory
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

Connecting strip with set screws

Connecting strip with set screws
h=20, a=30, b=50, L=130
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
Length 25 m
Grey PVC

Cover strip for T-slot, aluminium

Cover strip for T-slot
Aluminium, anodized
Length 2 m
Note! Can’t be used with bends

© FlexLink 2019 Beams 163
Beam accessories (continued)

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.

Articulated beam section vertical

Articulated beam section

Slide rails

Plastic slide rails, narrow

Slide rail
Length 25 m
HDPE (Black) XBCR 25
PA-PE (Grey) XBCR 25 H
PVDF (Natural white) XBCR 25 P
PE-UHMW (White) XBCR 25 U
PE-UHMW conductive (Black) XBCR 25 E

Note. The wide slide rails are not suitable for use in bends.

Plastic slide rails, wide with guidance

Slide rail
Length 3 m
PA-PE (Grey) XBCR 3 HA
PE-UHMW (White) XBCR 3 UA
PE-UHMW conductive (Black) XBCR 3 EA

Note. The wide slide rails are not suitable for use in bends.

Plastic slide rails, wide

Slide rail
Length 25 m
HDPE (Black) XBCR 25 B
PA-PE (Grey) XBCR 25 HB
PVDF (Natural white) XBCR 25 PB
PE-UHMW (White) XBCR 25 UB
PE-UHMW conductive (Black) XBCR 25 EB

Note. The wide slide rails are not suitable for use in bends.

Mounting tool for slide rail

Mounting tool for slide rail

© FlexLink 2019
Slide rails (continued)

**Aluminium rivets for anchoring of slide rail**

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.*

**Plastic screws for anchoring of slide rail**

Plastic screws 5 mm

*Only intended for use with low slide rail in plain bends. 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 50*

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

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**Steel slide rail, straight**

Slide rail, hardened steel

Length 3 m

Delivered with 9 predrilled holes

**Steel slide rail for wheel bends**

Slide rail for bends, hardened steel

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

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

---

**Drill fixture for slide rail**

Drill fixture for slide rail
d=4,2 mm

**Rivet crimping pliers**

Rivet crimping pliers

For 4 mm rivets

**Rivet crimping clamp**

Rivet crimping clamp

For 4 mm rivets

(Allen key not included)
Slide rail in hardened steel (continued)

**Brass rivets**

Brass rivets (100 pcs)  
Rivets for anchoring the slide rails

**Stainless steel rivets**

Stainless steel rivet, 4 mm  
XLAHX 4x6
Rivet for anchoring the slide rails. Must be ordered in multiples of 100.  
Note. Do not use in applications where metal chips might get stuck in the hole in the rivet.

**Cover strip**

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 Glue tape 5057208, see mounting instruction 5497EN in Technical library.

**Glue tape 3M**

Glue tape (for X65, X85, XH)  
Length 30 m

5056167

XLAHX 4x6

5112114  
5057208

5112114

5057208
Drive unit types

The X85 system includes Compact (C), Medium (M), and Heavy (H) drive units. Drive unit capacities range from maximum 1250 N for the H types down to maximum 300 N for the C types. The actual capacity depends on the speed and type of drive unit.

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>Compact</td>
<td>F</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Medium</td>
<td>F, V</td>
<td>–</td>
<td>–</td>
</tr>
<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>Direct drive, no slip clutch</th>
<th>Direct drive, slip clutch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium</td>
<td>F, V</td>
<td>F, V</td>
</tr>
</tbody>
</table>

Wheel bend 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>
</tbody>
</table>

Double 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>
</tbody>
</table>
End drive units, max 1250 N

**End drive unit H, suspended motor, slip clutch**

- **End drive unit**
  - Suspended 3-phase motor. Adjustable slip clutch.
  - Maximum traction force: up to 1250 N.
  - Fixed speeds up to 60 m/min.
- Transmission on left side:
  - Fixed speed *
  - Without motor (ISO) **XBEB A85**
  - Without motor (ANSI) **XBEB 0A85HL**
- Transmission on right side (not shown):
  - Fixed speed *
  - Without motor (ISO) **XBEB 0A85HR**
  - Without motor (ANSI) **XBEB 0A85HRA**

*Use online configurator when ordering.

Effective track length: 0.80 m

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

- **End drive unit**
  - Direct drive. No slip clutch.
  - Maximum traction force: up to 1250 N.
  - Fixed speeds up to 60 m/min.
  - Variable speed up to 120 m/min.
- Motor on left side:
  - Fixed/variable speed *
  - Without motor **XBEB A85**
  - **XBEB 0A85HNL**
  - **XBEB 0A85HNLP**
- Motor on right side (not shown):
  - Fixed/variable speed *
  - Without motor **XBEB A85**
  - **XBEB 0A85HR**
  - **XBEB 0A85HRA**

*Use online configurator when ordering.

Effective track length: 0.80 m

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

- **End drive unit**
  - Direct drive. Adjustable slip clutch.
  - Maximum traction force: up to 1250 N.
  - Fixed speeds up to 60 m/min.
  - Variable speed up to 120 m/min.
- Motor on left side:
  - Fixed/variable speed *
  - Without motor **XBEB A85**
  - **XBEB 0A85HLP**
- Motor on right side (not shown):
  - Fixed/variable speed *
  - Without motor **XBEB A85**
  - **XBEB 0A85HRP**

*Use online configurator when ordering.

Effective track length: 0.80 m

**Support bracket for HNLP/HNRP drive units**

- Support bracket kit **5111370**
- Including screw kit: 6 each of M6S M8×12, BRB 8.4×16, XCAN 8.
End drive units, max 800 N

End drive unit M, direct drive, no slip clutch

Direct drive. No slip clutch.
Maximum traction force: up to 800 N.
Fixed speeds up to 60 m/min.
Variable speed up to 60 m/min.

Motor on left side:
- Fixed/variable speed *
- Without motor

Motor on right side (not shown):
- Fixed/variable speed *
- Without motor

* Use online configurator when ordering.

Effective track length: 0,70 m

Guide wheel kit

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).

Drill fixture for drive units C/M

Drill fixture for X85 drive units
For C and M drive units
Also for X85 idlers.

End drive units, max 300 N

End drive unit C, direct drive, no slip clutch

Direct drive. No slip clutch.
Maximum traction force: up to 300 N.
Fixed speeds up to 35 m/min.

Motor on left side:
- Fixed speed *
- Without motor

Motor on right side (not shown):
- Fixed speed *
- Without motor

* Use online configurator when ordering.

Effective track length: 0,70 m

Guide wheel kit

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).
Double drive units, max 1250 N

Double drive unit H, slip clutch
Direct drive. Adjustable slip clutch.
Maximum traction force: up to 1250 N.
Fixed speeds up to 60 m/min.
Variable speed up to 60 m/min.

Motor on left side:
C-C=86 mm
Fixed/variable speed *
Without motor
XBEB DD A85
XBEB 0A85HLPD86

C-C=130–350 mm
Fixed/variable speed *
Without motor
XBEB DD A85
XBEB 0A85HLPD–**

Motor on right side (not shown):
C-C=86 mm
Fixed/variable speed *
Without motor
XBEB DD A85
XBEB0A85HLPD86

C-C=130–350 mm**
Fixed/variable speed *
Without motor
XBEB DD A85
XBEB 0A85HLPD–**

*Use online configurator when ordering.
**Specify C-C when ordering.
Drawing shows C-C 86 mm version.

Effective track length: 0,80 m (each track)

Double drive unit H, no slip clutch
Direct drive. No slip clutch.
Maximum traction force: up to 1250 N.
Fixed speeds up to 60 m/min.
Variable speed up to 60 m/min.

Motor on left side:
C-C=86 mm
Fixed/variable speed *
Without motor
XBEB DD A85
XBEB0A85HNLPD86

C-C=130–350 mm
Fixed/variable speed *
Without motor
XBEB DD A85
XBEB 0A85HNLPD–**

Motor on right side (not shown):
C-C=86 mm
Fixed/variable speed *
Without motor
XBEB DD A85
XBEB0A85HNRPD86

C-C=130–350 mm
Fixed/variable speed *
Without motor
XBEB DD A85
XBEB 0A85HNRPD–**

*Use online configurator when ordering.
**Specify C-C when ordering.
Drawing shows version with customer specified C-C distance.

Effective track length: 0,80 m (each track)
Wheel bend drive unit, max 200 N

Wheel bend drive unit
Direct drive. Adjustable slip clutch.
Maximum traction force: up to 200 N.
Fixed speeds up to 30 m/min.
Variable speed up to 30 m/min.

Fixed/variable speed *
Without motor

Support adapters for wheel bend drive units

Support adapter for wheel bend drive unit
For support beam XCBM..×64 mm 5110445
For support beam XCBM..×88 mm 5110446
Including mounting hardware and mounting instructions. Note. XCBL support beams cannot be used.

Wheel bend drive unit, no slip clutch
Direct drive. No slip clutch.
Maximum traction force: up to 200 N.
Fixed speeds up to 30 m/min.
Variable speed up to 30 m/min.

Fixed/variable speed *
Without motor

*Use online configurator when ordering.

Maximum conveyor length: 20 m
Effective track length: 0,65 m

Synchronous drive unit X85

Synchronous drive unit
50 Hz 230/400 V

Insert desired speed instead of # in designation:
60 Hz: –
Maximum traction force: 500 N. See page 22.
Effective track length: 0,80 m
Including two basic units, two cardan shafts, two gear reducers, 3-phase motor, two timing belts and reducer pulleys, motor pulley, transmission cover, mounting plate

Support adapters for wheel bend drive units

For support beam XCBM..×64 mm 5110445
For support beam XCBM..×88 mm 5110446
Including mounting hardware and mounting instructions. Note. XCBL support beams cannot be used.
Intermediate drive units, max 200 N

Intermediate drive unit M, no slip clutch
Direct drive. No slip clutch.
Maximum traction force: up to 200 N.
Fixed speeds up to 25 m/min.
Variable speed up to 25 m/min.

Motor on left side:
- Fixed/variable speed *
- Without motor

Motor on right side (not shown):
- Fixed/variable speed *
- Without motor

*Use online configurator when ordering.
Effective track length: 1.40 m

Intermediate drive unit M, slip clutch
Direct drive. Slip clutch.
Maximum traction force: up to 200 N.
Fixed speeds up to 25 m/min.
Variable speed up to 25 m/min.

Motor on left side:
- Fixed/variable speed *
- Without motor

Motor on right side (not shown):
- Fixed/variable speed *
- Without motor

*Use online configurator when ordering.
Effective track length: 1.40 m

Intermediate drive unit H, no slip clutch
For standard plain chain only.
Direct drive. No slip clutch.
Maximum traction force: up to 875 N.
Fixed speeds up to 60 m/min.
Variable speed up to 60 m/min.

Motor on left side:
- Fixed/variable speed *
- Without motor

Motor on right side (not shown):
- Fixed/variable speed *
- Without motor

*Use online configurator when ordering.
Effective track length: 2.5 m
Drive units for wedge conveyors

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 63 m/min. Variable speed up to 63 m/min.

Motor on left side:

- Fixed/variable speed *
- Without motor

Motor on right side (not shown):

- Fixed/variable speed *
- Without motor

*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 63 m/min. Variable speed up to 63 m/min.

Motor on left side:

- Fixed/variable speed *
- Without motor

Motor on right side (not shown):

- Fixed/variable speed *
- Without motor

*Use online configurator when ordering.

Effective track length: 0,80 m
Support components for X-bends

X-bends include a special arrangement for connecting beam support brackets. Instead of connecting the brackets directly to the T-slots in the beams, intermediate U-shaped bracket are used. See figure below.

Support legs to the transfer must be 82.5 mm shorter than other legs connected along the conveyor. Use M6S 8x16 screws instead of XLAT 17 when attaching the beam support bracket to the U-shaped brackets. Read more about beam support brackets on page 317.

Note! To avoid pinch points add cover plate in X-bends when using XBTP 5A85 A. Assembly inst. 5113535.
Components for wedge track width adjustment

Note. “Length 3 m” aluminium products are cut to 3000 mm ± 5 mm.

Width adjustment actuator 660 mm

Width adjustment actuator 950 mm

Angle gear unit

Shaft

The shaft is used to connect angle gear units XCFW 90 to synchronize adjustment of the track width. Use XLAP 28 spring pins to secure the shafts axially.

Handwheel for 10 mm shaft

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Idler units

Idler end unit – Heavy

Idler end unit

Effective track length: 0.80 m

Idler end unit – Compact

Idler end unit
Compact version

Effective track length: 0.70 m

Each side plate has T-slots and four unfinished holes for attachment of accessories. Requires drilling through side plate. A drill fixture (5057144) is available.

Protective cover for idler end unit H

Protective cover for XBEJ A85

XMSJ 189

Suitable for use with standard plain chain and plain chain with closed top.

Protective cover for idler end unit C

Protective cover for XBEJ A85 S

XMSJ 146

Suitable for use with standard plain chain (not plain chain with closed top).
Including mounting screws (M8). Requires drilling of two holes in each side plate on the idler unit. Use drill fixture 5057144 (page 169).

Idler bend unit, 90°

Idler end unit

Effective track length: 0.60 m

Note. Cannot be used with return chain

Idler end unit

XBEK 90A85

Effective track length: 0.60 m

Note. Cannot be used with return chain
Bridges

Bridge, heavy to compact/medium

Bridge H to C (see Note)  5111114
Including roller bridge and mounting hardware. Suitable for connecting C or M drive units to H idlers, or C idler to H drive unit.*

Bridge, heavy to heavy

Bridge, H to H (see Note)  5111108
Including roller bridge and mounting hardware. Suitable for connecting H drive units to H idlers.*

Bridge, compact/medium to compact

Bridge C/M to C (see Note)  5111117
Including roller bridge and mounting hardware. Suitable for connecting C or M drive units to C idlers.*

Bridge kit, heavy to beam

Bridge kit X85 to beam  5113517
Including roller bridge and mounting hardware. Suitable for connecting H drive units or idlers to beam.

Bridge kit, compact/medium to beam

Bridge kit X85 to beam  5113566
Including roller bridge and mounting hardware. Suitable for connecting C or M drive units or idlers to beam.

*Note

Bridges 5111108, 5111114 and 5111117 can only be used with plain chain. They cannot be connected to direct drive units with slip clutch or to drive units with suspended motor.

Idlers: C means compact idler XBEJ A85 S, H means heavy idler XBEJ A85.
Wheel bends

Wheel bend, 30°

Wheel bend, 30°
**XBBH 30A85R160**
*Effective track length: 0,25 m 1-way (0,50 m 2-way)*

Wheel bend, 45°

Wheel bend, 45°
**XBBH 45A85R160**
*Effective track length: 0,30 m 1-way (0,60 m 2-way)*

Wheel bend, 90°

Wheel bend, 90°
**XBBH 90A85R160**
*Effective track length: 0,45 m 1-way (0,85 m 2-way)*

Wheel bend, 180°

Wheel bend, 180°
**XBBH 180A85R160**
*Effective track length: 0,70 m 1-way (1,35 m 2-way)*

Wheel bend, 210°

Wheel bend, 210°
**XBBH 210A85R160**
*Effective track length: 0,75 m 1-way (1,50 m 2-way)*

Wheel bend, 30°– 180°

Wheel bend, 30°– 180°
**XBBH EA85R160**
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.

Cover plate

Cover plate, left  **5113480**
Cover plate, right  **5113481**

Note! To avoid pinch points add cover plate in Wheel bends or Wheel bend drive units when using XBTP 5A85 A. Assembly instructions 5113535.
 Wheel cover for Wheel bend

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

5112246

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

**Plain bend, 30°**

Plain bend, 30° ± 1°

- R = 300 ± 10 mm  XBBP 30A85R3
- R = 500 ± 10 mm  XBBP 30A85R5
- R = 700 ± 10 mm  XBBP 30A85R7
- R = 1000 ± 10 mm XBBP 30A85R10

Effective track lengths:
- R300: 0.60 m 1-way (1.15 m 2-way)
- 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 = 300 ± 10 mm  XBBP 45A85R3
- R = 500 ± 10 mm  XBBP 45A85R5
- R = 700 ± 10 mm  XBBP 45A85R7
- R = 1000 ± 10 mm XBBP 45A85R10

Effective track lengths:
- R300: 0.65 m 1-way (1.30 m 2-way)
- 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 bend, 60°**

Plain bend, 60° ± 1°

- R = 500 ± 10 mm  XBBP 60A85R5
- R = 700 ± 10 mm  XBBP 60A85R7
- R = 1000 ± 10 mm XBBP 60A85R10

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 = 300 ± 10 mm  XBBP 90A85R3
- R = 500 ± 10 mm  XBBP 90A85R5
- R = 700 ± 10 mm  XBBP 90A85R7
- R = 1000 ± 10 mm XBBP 90A85R10

Effective track lengths:
- R300: 0.90 m 1-way (1.75 m 2-way)
- 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)

Cross-section of plain bend with narrow slide rails on the top and an extra slide rail in the inner part of the bend.
Vertical bends

**Vertical bend, 5°**

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

- Vertical bend, 5°
  - R=400, A=195, B=9
  - R=750*, A=225, B=10
  - Effective track length:
    - R400: 0.20 m 1-way (0.40 m 2-way)
    - R750*: 0.25m 1-way (0.50 m 2-way)
  - *Note! Combination molded Vertical bend-Wheel bend is not possible.

**Vertical bend, 7°**

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

- Vertical bend, 7°
  - Effective track length: 0.25 m 1-way (0.45 m 2-way)

**Vertical bend, 15°**

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

- Vertical bend, 15°
  - R=400, A=261, B=34
  - R=750*, A=351, B=46
  - Effective track length:
    - R400: 0.30 m 1-way (0.55 m 2-way)
    - R750*: 0.40 m 1-way (0.75 m 2-way)
  - *Note! Combination molded Vertical bend-Wheel bend is not possible.

**Vertical bend, 30°**

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

- Vertical bend, 30°
  - Effective track length: 0.40 m 1-way (0.75 m 2-way)

**Vertical bend, 45°**

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

- Vertical bend, 45°
  - 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: 1.00 m 1-way (1.90 m 2-way)

**Vertical bend, 60°**

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

- Vertical bend, 60°
  - Effective track length: 0.65 m 1-way (1.20 m 2-way)
Vertical bends (continued)

Vertical bend, 90°

Vertical bend, 90°
R= 400, A= 480
R=1000, A=1080
XBBV 90A85R4
XBBV 90A85R10

Effective track length:
R400: 0,85 m 1-way (1,60 m 2-way)
R1000: 1,80 m 1-way (3,50 m 2-way)

Vertical bend, 5°–90°

Vertical bend, 5°–90°
R=400
R=1000
XBBV EA85R4
XBBV EA85R10

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

Angle plate, straight

Angle plate
Length 3 m
XHRP 3

Angle plate for 180° bend

Angle plate for 180° bend
Used with XMBH 180R160 and XMEW 180/5 H
Inner radius 202,5 mm
XMRM 180

Angle plate for 90° bend

Angle plate for 90° bend
Used with XMBH 90R160
Inner radius 202,5 mm
XMRM 90
Front piece

Front piece

Length 3 m

XMVF 3

Sliding strip for front piece

Length 2 m

XMVG 2

The sliding strip must be anchored to the front piece. Rivets and tools for anchoring: see page 101.

Front piece upper bend

Upper bend, 60°

XMVA 60R460

Includes connecting strip with screws

Front piece lower bend

Lower bend, 60°

XMVB 60R335

Includes connecting strip with screws

Linkage kit for front piece

W=170, D=43
W=270, D=93

XHVK 43
XHVK 93

Kit consists of two support pairs.

Bend support for front piece

D=43 mm
D=93 mm

XHVS 43
XHVS 93
Drip trays serve two purposes:

- Prevent access to the underside of the conveyor, to eliminate the risk of personal injury, especially in conjunction with cleated chains.
- Protect the floor and components against drips when oily or wet parts are conveyed.

The drip trays are attached to the conveyor beam by means of drip tray brackets. The following drip handling components are suitable for use with the X85 conveyor system.

### Drip tray components

<table>
<thead>
<tr>
<th>Item</th>
<th>Designation</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drip tray</td>
<td>XMDT 3×127 B</td>
<td>Length 3 m</td>
</tr>
<tr>
<td>Drip tray bracket</td>
<td>XLDB 21×100</td>
<td></td>
</tr>
<tr>
<td>Drip tray connector</td>
<td>XMDJ 127 B</td>
<td>With drip outlet</td>
</tr>
<tr>
<td>Drip tray connector with integrated drip catcher</td>
<td>XMDJ 127 BW</td>
<td>With drip outlet</td>
</tr>
<tr>
<td>Connecting strip</td>
<td>XLCJ 5×140</td>
<td></td>
</tr>
<tr>
<td>End pan for drip tray</td>
<td>XMDE 127 B</td>
<td>With drip outlet</td>
</tr>
<tr>
<td>End cap for drip tray</td>
<td>XMDC 127 B</td>
<td></td>
</tr>
</tbody>
</table>

### Drip catchers

<table>
<thead>
<tr>
<th>Item</th>
<th>Designation</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drip catcher 53 mm</td>
<td>XHDS 3×53</td>
<td>Length 3 m</td>
</tr>
<tr>
<td>Drip catcher 83 mm</td>
<td>XHDS 3×83</td>
<td>Length 3 m</td>
</tr>
<tr>
<td>Drip catcher bracket assembly</td>
<td>XHDR 23</td>
<td></td>
</tr>
</tbody>
</table>

### Drip pans

<table>
<thead>
<tr>
<th>Item</th>
<th>Designation</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drip pan for wheel bend 30°</td>
<td>XMDH 30×127 B</td>
<td>With drip outlet</td>
</tr>
<tr>
<td>Drip pan for wheel bend 45°</td>
<td>XMDH 45×127 B</td>
<td>With drip outlet</td>
</tr>
<tr>
<td>Drip pan for wheel bend 90°</td>
<td>XMDH 90×127 B</td>
<td>With drip outlet</td>
</tr>
<tr>
<td>Drip pan for wheel bend 180°</td>
<td>XMDH 180×127 B</td>
<td>With drip outlet</td>
</tr>
<tr>
<td>Drip pan, lower, for vertical bend</td>
<td>XMDV 30×127 BL</td>
<td></td>
</tr>
<tr>
<td>Drip pan, upper, for vertical bend</td>
<td>XMDV 30×127 BU</td>
<td></td>
</tr>
<tr>
<td>End pan for idler end unit</td>
<td>XMDD 127 B</td>
<td>With drip outlet</td>
</tr>
</tbody>
</table>

**Important**

With drip trays, standard beam support brackets for system XM must be used. Brackets for 127 mm wide drip trays are suitable. See page 317 for more information.
Drip trays

Drip tray
Length 3 m

Drip tray bracket

Drip tray connector
With drip outlet
Including screw kit

Drip tray connector with drip catcher
With drip outlet
Including screw kit

Drip tray connector with integrated drip catcher

Connecting strip
Connecting strip with set screws
Note. Must be ordered in multiples of 10

End pan for drip tray
With drip outlet
Including screw kit

End cap for drip tray
Including screw kit
Drip pans

Drip pan for wheel bend 30°
XMDH 30×127 B
Including screw kit

Drip pan for wheel bend 45°
XMDH 45×127 B
Including screw kit

Drip pan for wheel bend 90°
XMDH 90×127 B
Including screw kit

Drip pan for wheel bend 180°
XMDH 180×127 B
Including screw kit

Drip pan, upper, for vertical bend
XMDV 30×127 BU
XMDV 45×127 BU
XMDV 60×127 BU
XMDV 90×127 BU
Including screw kit

Drip pan, lower, for vertical bend
XMDV 30×127 BL
XMDV 45×127 BL
XMDV 60×127 BL
XMDV 90×127 BL
Including screw kit

Drip pan, upper, for 90° vertical bend
With drip outlet
XMDV 90×127 B
Including screw kit
Drip pans (continued)

End pan for idler end unit
With drip outlet
Including screw kit
XMDD 127 B

Drip pan 90° with drip catcher
With integrated drip catcher
Including screw kit
XMDH 90×127 BW

Drip pan 30° with drip catcher
With integrated drip catcher
Including screw kit
XMDH 30×127 BW

Drip pan 180° with drip catcher
With integrated drip catcher
Including screw kit
XMDH 180×127 BW

Drip pan 45° with drip catcher
With integrated drip catcher
Including screw kit
XMDH 45×127 BW

Drip pan, upper, with drip catcher, for vertical bend
With integrated drip catcher
Including screw kit

α = 30°  XMVD 30×127 BUW
α = 45°  XMVD 45×127 BUW
α = 60°  XMVD 60×127 BUW
α = 90°  XMVD 90×127 BUW
Drip pans (continued)

**Drip pan, lower, with drip catcher, for vertical bend**

- With integrated drip catcher
- \( \alpha = 30° \)  
- \( \alpha = 45° \)  
- \( \alpha = 60° \)  
- \( \alpha = 90° \)

- XMDV 30x127 BLW
- XMDV 45x127 BLW
- XMDV 60x127 BLW
- XMDV 90x127 BLW

*Including screw kit*

**Drip pan, upper, with drip catcher, for 90° vertical bend**

- With integrated drip catcher and drip outlet
- XMDV 90x127 BW

*Including screw kit*

**End pan with drip catcher, for idler end unit**

- End pan for idler end unit
- With integrated drip catcher and drip outlet
- XMDD 127 BW

*Including screw kit*