Conveyor system X85

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

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System information 155
Conveyor modules

**Straight conveyor**

![Diagram of Straight conveyor]

Conveyor module – straight * 5990226

*Use online configurator when ordering

**One bend conveyor**

![Diagram of One bend conveyor]

Conveyor module – one bend * 5990230

*Use online configurator when ordering

**Two bend conveyor**

![Diagram of Two bend conveyor]

Conveyor module – two bends * 5990237

*Use online configurator when ordering

**Support modules – single and multi-lane**

![Diagram of Support module – single lane]

Support module – single lane *

* Use online configurator when ordering

![Diagram of Support module – multi-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, steel-plated 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 K. 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 K). It is necessary to use the online configurator.
Chains

Plain chain

Plain chain
Length 5 m
Standard material
Food & Wet applications

XBTP 5A85 K
XPBTPX 5A85K

Plain link kit *
Standard material
Food & Wet applications

FLX1003436
FLX1003437

*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.

Plain chain

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

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

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

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

Steel top chain
Length 5 m
Steel top link kit *

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

Cleated chain, Type A

Cleated chain
Type A cleats
Length 5 m
h=15 mm
h=30 mm

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

Cleated link kit **
h=15 mm
h=30 mm

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

Roller top chain
Length 5 m
*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
5110522
** Link kit contains 10 links, 10 pivots, 10 steel pins

Roller cleat link kit *
5110520

Flexible cleat chain, Type C

Flexible cleat chain Type C
Length 5 m
Flexible cleat link kit *(link base and flexible cleat top)
5110363
Flexible cleat top kit (replacement)
5110515
* Link kit contains 10 links, 10 pivots, 10 steel pins
** Cleat kit contains 10 flexible cleat tops

Roller cleat link kit **
5110521

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)
5110582
Flexible cleat top (replacement)
5056311
* Link kit contains 10 links, 10 pivots, 10 steel pins
** Cleat kit contains 10 flexible cleat tops

Flexible cleat link kit *(link base and flexible cleat top)

Flexible cleat top kit (replacement)

Flexible cleat top (replacement)

Flexible cleat link assembly Type D*
(link base and flexible cleat top)

Flexible cleat top (replacement)
Other chains
See the Chain guide for a selection of other chains.

Chain installation
See “Appendix D” for installation instructions.

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

V-block chain
Length 5 m
5110386
V-block chain kit *
* Link kit contains 10 links, 10 pivots, 10 steel pins

Steel chain, X85
Length 5 m
5056849
Steel link X85 (spare part, 10 pcs) Including pins and pivots.
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 162.
### Chain accessories

#### Plastic pivot for chain

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic pivot kit</td>
<td>5111169</td>
</tr>
<tr>
<td>Spare parts kit, 25 pcs</td>
<td></td>
</tr>
</tbody>
</table>

#### Steel pin for chain

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel pin kit</td>
<td>5111172</td>
</tr>
<tr>
<td>Spare parts kit, 25 pcs</td>
<td></td>
</tr>
</tbody>
</table>

#### Pin insertion tool for chain

- **Pin insertion tool**
  - X85-X180/X300
  - X85-X180/X300-XH, PRO version*
  - **XMMJ 6**
  - **XBMJ 6 P**

*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 rigidity, 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.

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

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.
Beams

Conveyor beam

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

Slide rail: see page 165.
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 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 3 m
Grey PVC
Note! Can’t be used with bends

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

Cover strip for T-slot
Length 25 m
Grey PVC

Beam section for chain installation

Beam section kit
Including connection strips and screws

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 (continued)

**Beam spacer**

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 (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**

**XBCH 5 V**

**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

**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

**Plastic slide rails, wide with guidance**

Slide rail
Length 3 m
PA-PE (Grey) XBCR 3 HA
PVDF (Natural white) XBCR 3 UA
PE-UHMW (White) XBCR 3 UB
PE-UHMW conductive (Black) XBCR 3 EB

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

**Mounting tool for slide rail**

**XBMR 170**

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Aluminium rivets for anchoring of slide rail

Aluminium rivets 4 mm for XK-X180/X300 conveyors, brown XLAH 4×7

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 XLAG 5

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

Slide rail in hardened steel

Steel slide rail, straight

Slide rail, hardened steel Length 3 m XBCR 3 TH Delivered with 9 predrilled holes

Steel slide rail for wheel bends

Slide rail for bends, hardened steel Slide rail for bend, 30° XBCR W30 TH Slide rail for bend, 45° XBCR W45 TH Slide rail for bend, 90° & 180° XBCR W90 TH 180°: Use 2 pieces of steel slide rail 90°
Slide rail in hardened steel (continued)

**Brass rivets**

Brass rivets (100 pcs)  
Rivets for anchoring the slide rails  
5056167

**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  
5112114  
5057208  

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  
5057208
Drive and idler units – introduction

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 unit, guided chain**

<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>

**Motor specifications**

Motors are available for 230/400 V, 50 Hz and 230/460 V, 60 Hz. Variable speed motors are SEW Movimot, 380–500 V. Note that variable speed motors include a control box that adds 120 mm to the width of the motor.

IP55 available with standard oil.

IP65 available with food grade oil.

**Idler unit types**

Idler units are available in two versions, Compact and Heavy.

**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**

Note that dimensions relating to drive unit motors depend on the motor specified during the configuration.

**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.

Also note the special support arrangements for in-line transfer units. See page 175.
End drive units, max 1250 N

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

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 *: XEBEB A85
- Without motor (ISO): XEBEB 0A85HL
- Without motor (ANSI): XEBEB 0A85HLA

Transmission on right side (not shown):
- Fixed speed *: XEBEB A85
- Without motor (ISO): XEBEB 0A85HR
- Without motor (ANSI): XEBEB 0A85HRA

*Use online configurator when ordering.

Effective track length: 0,80 m

**End drive unit H, direct drive, 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 120 m/min.

Motor on left side:
- Fixed/variable speed *: XEBEB A85
- Without motor: XEBEB 0A85HLP

Motor on right side (not shown):
- Fixed/variable speed *: XEBEB A85
- Without motor: XEBEB 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.

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End drive units, max 1250 N 169
**End drive units, max 800 N**

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

End drive unit
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
- **XBEB A85**
- **XBEB 0A85MNLP**

Motor on right side (not shown):
Fixed/variable speed
- **XBEB A85**
- **XBEB 0A85MNRP**

*Use online configurator when ordering.

**Effective track length:** 0.70 m

**Guide wheel kit**

Guide wheel for drive units 5055635

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. 5057144

---

**End drive units, max 300 N**

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

End drive unit
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
- **XBEB A85**
- **XBEB 0A85CNLP**

Motor on right side (not shown):
Fixed speed
- **XBEB A85**
- **XBEB 0A85CNRP**

*Use online configurator when ordering.

Note. The motors for Compact drive units cannot be reconfigured from star to delta operation.

**Effective track length:** 0.70 m
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
- C-C=130–350 mm
  - Fixed/variable speed *
  - Without motor

Motor on right side (not shown):
- C-C=86 mm
  - Fixed/variable speed *
  - Without motor
- C-C=130–350 mm
  - Fixed/variable speed *
  - Without motor

*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
- C-C=130–350 mm
  - Fixed/variable speed *
  - Without motor

Motor on right side (not shown):
- C-C=86 mm
  - Fixed/variable speed *
  - Without motor
- C-C=130–350 mm
  - Fixed/variable speed *
  - Without motor

*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, slip clutch

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

XBEW A85
XBEW 18/0A85HP

*Use online configurator when ordering.

Maximum conveyor length: 20 m
Effective track length: 0.65 m

Wheel bend drive unit, no slip clutch

Wheel bend drive unit
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

XBEW A85
XBEW 18/0A85HNP

*Use online configurator when ordering.

Maximum conveyor length: 20 m
Effective track length: 0.65 m

Support adapters for wheel bend drive units

Support adapter for wheel bend drive unit
For support beam XCBM..×64 mm
For support beam XCBM..×88 mm

5110445
5110446

Including mounting hardware and mounting instructions. Note. XCBL support beams cannot be used.

Synchronous drive unit X85

Synchronous drive unit for vertical wedge conveyors

Synchronous drive unit
50 Hz 230/400 V

XBED A85H

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
Intermediate drive units, max 200 N

Intermediate drive unit M, no slip clutch

Intermediate drive unit M, slip clutch

Intermediate drive unit H, no slip clutch

Intermediate drive unit H, max 875 N

Intermediate drive unit
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 * XBER A85
Without motor XBER 0A85MNLP

Motor on right side (not shown):
Fixed/variable speed * XBER A85
Without motor XBER 0A85MNRP

*Use online configurator when ordering.
Effective track length: 1,40 m

Motor on left side:
Fixed/variable speed * XBER A85
Without motor XBER 0A85MLP

Motor on right side (not shown):
Fixed/variable speed * XBER A85
Without motor XBER 0A85MRP

*Use online configurator when ordering.
Effective track length: 1,40 m

Intermediate drive unit
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 * XBER A85
Without motor XBER 0A85HNLP

Motor on right side (not shown):
Fixed/variable speed * XBER A85
Without motor XBER 0A85HNRP

*Use online configurator when ordering.
Effective track length: 2,5m

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 * XBER A85
Without motor XBER 0A85HNLP

Motor on right side (not shown):
Fixed/variable speed * XBER A85
Without motor XBER 0A85HNRP

*Use online configurator when ordering.
Effective track length: 2,5m

SEW Movimot
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 * XBEB A85
- XBEB 0A85HLGP

Motor on right side (not shown):
- Fixed/variable speed * XBEB A85
- XBEB 0A85HRGP

*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 * XBEB A85
- XBEB 0A85HNLGP

Motor on right side (not shown):
- Fixed/variable speed * XBEB A85
- XBEB 0A85HNRGP

*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.
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 660 mm](image)

Width adjustment actuator 950 mm

![Width adjustment actuator 950 mm](image)

Angle gear unit

![Angle gear unit](image)

Shaft

![Shaft](image)

Handwheel for 10 mm shaft

![Handwheel for 10 mm shaft](image)
Idler units

**Idler end unit – Heavy**

Idler end unit - Heavy

*Effective track length: 0,80 m*

**Idler end unit – Compact**

Idler end unit - Compact

*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 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 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 170).

**Idler bend unit, 90°**

Idler bend unit, 90°

*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)  511114
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°](image)

*Effective track length: 0,25 m 1-way (0,50 m 2-way)*

**Wheel bend, 45°**

![Wheel bend, 45°](image)

*Effective track length: 0,30 m 1-way (0,60 m 2-way)*

**Wheel bend, 90°**

![Wheel bend, 90°](image)

*Effective track length: 0,45 m 1-way (0,85 m 2-way)*

**Wheel bend, 180°**

![Wheel bend, 180°](image)

*Effective track length: 0,70 m 1-way (1,35 m 2-way)*

**Wheel bend, 210°**

![Wheel bend, 210°](image)

*Effective track length: 0,75 m 1-way (1,50 m 2-way)*

**Wheel bend, 30°– 180°**

![Wheel bend, 30°– 180°](image)

*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](image)

*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 K. Assembly instructions 5113535.*
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

Plain bend, 30°

Plain bend, 30°±1°
R=300±10 mm
R=500±10 mm
R=700±10 mm
R=1000±10 mm

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)

XBBP 30A85R3
XBBP 30A85R5
XBBP 30A85R7
XBBP 30A85R10

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)

XBBP 60A85R5
XBBP 60A85R7
XBBP 60A85R10

Plain bend, 90°

Plain bend, 90°±1°
R=300±10 mm
R=500±10 mm
R=700±10 mm
R=1000±10 mm

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)

XBBP 90A85R3
XBBP 90A85R5
XBBP 90A85R7
XBBP 90A85R10

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°**

Vertical bend, 5°
R=400, A=195, B=9
R=750*, A=225, B=10

XBBV 5A85R4  
XBBV 5A85R750

*Effective track lengths:
**R400**: 0.20 m 1-way (0.40 m 2-way)
**R750**: 0.25 m 1-way (0.50 m 2-way)

*Note! Combination molded Vertical bend-Wheel bend is not possible.*

**Vertical bend, 7°**

Vertical bend, 7°
XBBV 7A85R4

*Effective track length: 0.25 m 1-way (0.45 m 2-way)*

**Vertical bend, 15°**

Vertical bend, 15°
R=400, A=261, B=34
R=750*, A=351, B=46

XBBV 15A85R4  
XBBV 15A85R750

*Effective track length:
R=400: 0.30 m 1-way (0.55 m 2-way)
R=750*: 0.40 m 1-way (0.75 m 2-way)

*Note! Combination molded Vertical bend-Wheel bend is not possible.*

**Vertical bend, 30°**

Vertical bend, 30°
XBBV 30A85R4

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

**Vertical bend, 45°**

Vertical bend, 45°
R= 400, A=419, B=174
R=1000, A=844, B=349

XBBV 45A85R4  
XBBV 45A85R10

*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°**

Vertical bend, 60°
XBBV 60A85R4

*Effective track length: 0.65 m 1-way (1.20 m 2-way)*
Vertical bends (continued)

**Vertical bend, 90°**

![Diagram of vertical bend, 90°]

Vertical bend, 90°
- R = 400, A = 480
- R = 1000, A = 1080

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)

**Angle plates**

**Angle plate, straight**

![Diagram of angle plate, straight]

Angle plate, straight
- Length 3 m

**Angle plate for 90° bend**

![Diagram of angle plate for 90° bend]

Angle plate for 90° bend
- Used with XMBH 90R160
- Inner radius 202.5 mm

**Angle plate for 180° bend**

![Diagram of angle plate for 180° bend]

Angle plate for 180° bend
- Used with XMBH 180R160 and XMEW 180/5 H
- Inner radius 202.5 mm

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

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 & drip pans – introduction

Drip handling

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>XLDDB 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 5x140</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 3x53</td>
<td>Length 3 m</td>
</tr>
<tr>
<td>Drip catcher 83 mm</td>
<td>XHDS 3x83</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 30x127 B</td>
<td>With drip outlet</td>
</tr>
<tr>
<td>Drip pan for wheel bend 45°</td>
<td>XMDH 45x127 B</td>
<td>With drip outlet</td>
</tr>
<tr>
<td>Drip pan for wheel bend 90°</td>
<td>XMDH 90x127 B</td>
<td>With drip outlet</td>
</tr>
<tr>
<td>Drip pan for wheel bend 180°</td>
<td>XMDH 180x127 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

Drip tray connector with drip catcher

Drip tray connector with integrated drip catcher

With drip outlet

Including screw kit

Drip tray connector with drip catcher

XMDT 3×127 B

XLDB 21×100

XMDJ 127 B

XMDJ 127 BW

Connecting strip

Connecting strip with set screws

XLCJ 5×140

Note. Must be ordered in multiples of 10

End pan for drip tray

End pan for drip tray

With drip outlet

Including screw kit

End cap for drip tray

End cap for drip tray

Including screw kit

XMDE 127 B

XMDC 127 B
Drip pans

Drip pan for wheel bend 30°

Drip pan for wheel bend 45°

Drip pan for wheel bend 90°

Drip pan for wheel bend 180°

Drip pan, upper, for vertical bend

Drip pan, lower, for vertical bend

Drip pan, upper, for 90° vertical bend

Including screw kit

Including screw kit

Including screw kit

Including screw kit

Including screw kit

Including screw kit

Including screw kit

Drip pan, upper, for vertical bend

Drip pan, upper, for 90° vertical bend

XMDH 30×127 B

XMDH 45×127 B

XMDH 90×127 B

XMDH 180×127 B

XMDV 30×127 BU

XMDV 45×127 BU

XMDV 60×127 BU

XMDV 90×127 BU

XMDV 30×127 BL

XMDV 45×127 BL

XMDV 60×127 BL

XMDV 90×127 BL

XMDV 90×127 B

Drip pan for wheel bend 30°

Drip pan for wheel bend 45°

Drip pan for wheel bend 90°

Drip pan for wheel bend 180°

Drip pan, upper, for vertical bend

Drip pan, lower, for vertical bend

Drip pan, upper, for 90° vertical bend

Including screw kit

Including screw kit

Including screw kit

Including screw kit

Including screw kit

Including screw kit

X85
Drip pans (continued)

**End pan for idler end unit**

With drip outlet
Including screw kit

**Drip pan 30° with drip catcher**

With integrated drip catcher
Including screw kit

**Drip pan 45° with drip catcher**

With integrated drip catcher
Including screw kit

**Drip pan 90° with drip catcher**

With integrated drip catcher
Including screw kit

**Drip pan 180° with drip catcher**

With integrated drip catcher
Including screw kit

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

With integrated drip catcher
Including screw kit

α = 30°  
α = 45°  
α = 60°  
α = 90°

Including screw kit
Drip pans (continued)

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

With integrated drip catcher

$\alpha=30^\circ$

$\alpha=45^\circ$

$\alpha=60^\circ$

$\alpha=90^\circ$

Including screw kit

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

With integrated drip catcher and drip outlet

Including screw kit

End pan with drip catcher, for idler end unit

With integrated drip catcher and drip outlet

Including screw kit