

Conveyor system X300

PO
X45
XS
XL
XLP
X85
X85P
XH
XK
XKP
X180
X300
GR
CS
XT
WL
XC
XF
XD
XLX
X85X
X180X
X300X
GRX
CSX
ELV
CTL
FST
TR
APX
IDX

System information



Chain X300



Features

Chain travels on four slide rails. Wide track sideflexing safety chain. Compact horizontal and vertical bends. Suitable for soft packages.

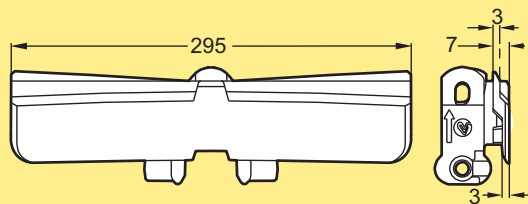
Examples of application areas

Large cardboard boxes, products in soft plastic bags. Examples: detergent powder, wrapped tissue paper rolls, food products, personal care products.

Technical characteristics

Drive unit capacity	1250 N
Chain tension limit	1250 N
Beam width	300 mm
Chain width	295 mm
Chain pitch	33,5 mm
Recommended item width	70–500 mm
Maximum item weight	15 kg
Maximum weight on conveyor	200 kg
Maximum conveyor length	30 m
Maximum permitted load per link	2,5 kg

Plain chain



Plain chain
Length 3 m

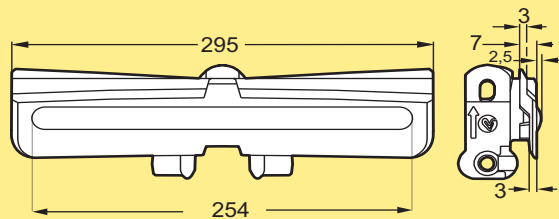
XBTP 3A295

Plain link kit *

5056652

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

Friction top chain



Friction top chain
Length 3 m

XBTP 3A295 F

Friction top chain
Length 3 m

XBTP 3A295 FP

Use the online configurator to specify and order.

Friction top link kit
Kit with 10 links *

5054874

*Note. Links are delivered as a kit containing 10 links and the necessary steel pins and plastic pivots.

Other chains

See the *Chain guide* for a selection of other chains.

Chain installation

See Appendix C, page 487, for installation instructions.

Chain accessories X300

PO

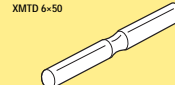
Plastic pivot



Plastic pivot -X180-X300 kit **5111169**
 Each kit contains 25 items.

X45

Steel pin



Steel pin X180-X300 kit **5111172**
 Each kit contains 25 items.

XS

XL

XLP

X85

X85P

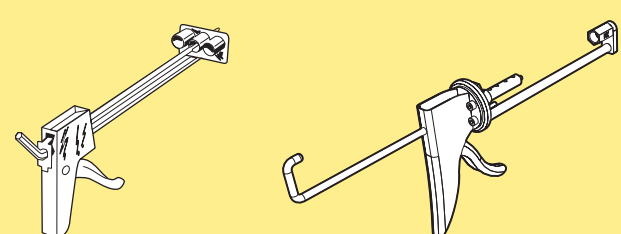
XH

XK

XKP

X180

Pin insertion tool for chain



Pin insertion tool
 X85--X180-X300 **XMMJ 6**
 X85-X180-X300-XH, PRO version* **XBMJ 6 P**
 *This tool is recommended for frequent users

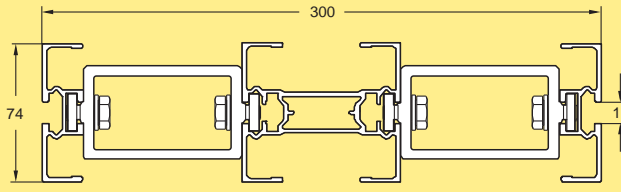
Beam components X300

XK

XKP

X180

Beam section kit (300 mm version)



Beam section kit
 Length 3 m (3030 ±5 mm) **XBCB 3A300**
 Length to order (500- 3000 mm) **XBCB LA300**
 The beam section is delivered unassembled.
 Slide rail: see page 246

X300

GR

CS

XT

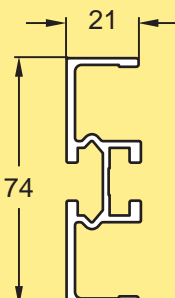
WL

XC

XF

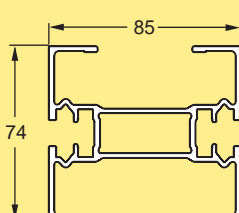
XD

Beam (outer section)



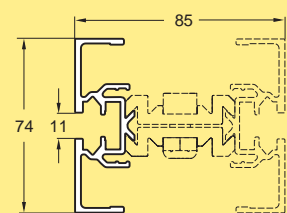
Beam (outer section)
 Length 3 m (3030 ±5 mm) **XBCB 3A H**
 Length to order (500- 3000 mm) **XBCB LA H**

Beam (mid-section)



Beam (mid-section)
 Length 3 m (3030 ±5 mm) **XBCB 3A85**
 Length to order (500- 3000 mm) **XBCB LA85**

Profile for split conveyor beam (inner section)



Profile for split conveyor beam
 Length 3 m (3030 ±5 mm) **XBCB 3A85 H**
 Length to order (500- 3000 mm) **XBCB LA85 H**

XLX

X85X

X180X

X300X

GRX

CSX

ELV

CTL

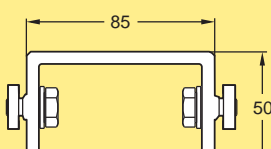
FST

TR

APX

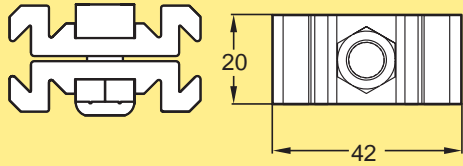
IDX

Spacer for outer beam sections



Spacer, aluminium, one pair **XBCE 85**
 Including screws and nuts. For construction of 300 mm wide beam sections. Maximum distance between spacers is 0,5 m.

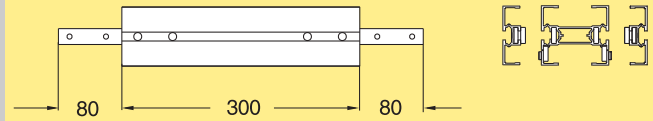
Beam clip assembly



Beam clip assembly **XBCE 42x20**

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 section for chain installation

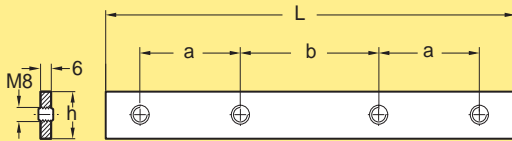


Beam section for chain installation
Including connecting strips and screws

XBCC 300A

Beam accessories X300

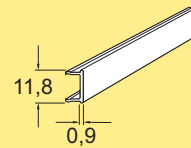
Connecting strip with set screws



Connecting strip with set screws
h=20, a=44, b=44, L=160 **XSCJ 6x160**

Note. Must be ordered in multiples of 10

Cover strip for T-slot, aluminium

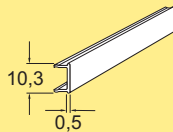


Cover strip for T-slot
Aluminium, anodized
Length 2 m

XCAC 2

For XK-X180-X300

Cover strip for T-slot, PVC



Cover strip for T-slot, grey PVC
Length 3 m **XCAC 3 P**

For XK-X180-X300

Slide rails X300

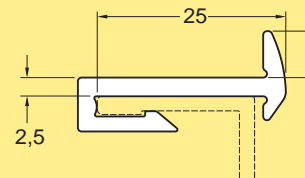
Plastic slide rail for X300 beam



Slide rail
Length 25 m
HDPE (Black) **XBCR 25**
PA-PE (Grey) **XBCR 25 H**
PVDF (Natural white) **XBCR 25 P**

See Appendix A, page 477 for selection guidelines and assembly instructions.

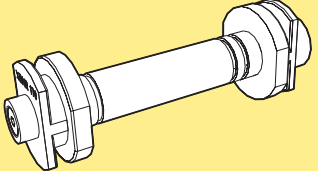
Plastic slide rail for X300 beam, outer



Slide rail, outer
UHMW-PE ($\mu=0,1-0,25$) (White)
Length 3 m **XBCR 3 UA**

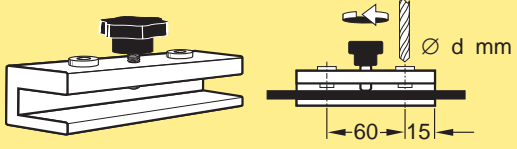
See Appendix A, page 477 for selection guidelines and assembly instructions.

Mounting tool for slide rail, X300



Mounting tool for slide rail **XBMR 170**

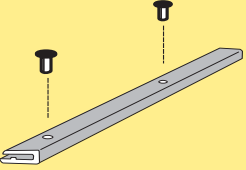
Drill fixture for slide rail



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

X45
XS
XL
XLP
X85


Aluminium rivets



Aluminium rivets 4 mm for XK-
X180-X300 conveyors, brown **XLAH 4x7**

*Extra slide rail in plain bends must be anchored using plastic screws due to lack of space for the rivet crimping tool.
Note. Must be ordered in multiples of 250.*

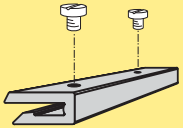
Rivet crimping pliers



Rivet crimping pliers for XL-X85-XH-
XK-X180-X300
For 4 mm rivets **5051395**

X85P
X85P
XH
XK
XKP
X180

Plastic screws for slide rail



Plastic screws 5 mm for XS-XL-X85-
XH-X180-X300 beams **XLAG 5**

Note. Must be ordered in multiples of 50

Rivet crimping clamp



Rivet crimping clamp for XL-X85-XH-XK-
X180-X300
For 4 mm rivets **3923005**

X300
GR
CS
XT
WL

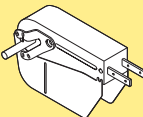
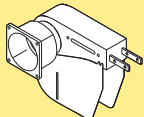
XC
XF
XD
XLX
X85X
X180X
X300X
GRX
CSX
ELV
CTL
FST
TR
APX
IDX

Drive unit types

The X300 system includes direct driven units with or without slip clutch.

Available motors include variable speed types (**V**) as well as fixed speed motors (**F**).

End drive units

Size	Direct drive, no slip clutch	Direct drive, slip clutch
		
Heavy	F, V	F, V
Heavy, guided	F, V	F, V

Motor specifications

Motors are available for 230/400 V, 50 Hz and 230/460 V or 330/575 V, 60 Hz. All motors can be connected for delta or star configuration by means of jumpers.

Variable speed motors are SEW Movimot, 380–500 V. Note that variable speed motors include a control box that adds 93 mm to the width of the motor.

Ordering information

Drive units with motors must be specified using the web-based configurator. The configurator provides detailed information and step-by-step guidance in the specification process. A product code string is generated, containing the specification details. See next page for examples of code strings.

Drive units *without* motors can be ordered using the designations in the catalogue.

Dimension drawings in catalogue

Note that dimensions relating to drive unit motors depend on the motor specified during the configuration. In most cases, the motors shown in the catalogue drawings represent the largest size. If variable speed motors are used, some dimensions may increase, indicated by dimension values xxx (V: yyy). V represents the max dimension using variable speed motor.

Drive units – configuration strings

Below, two examples of text strings obtained from the configurator with explanations are presented.

Drive unit with fixed speed motor

Item no	A	B	D	E	G	H	I
XBEB A300	HNP	- L	- V4	- SA37	- 50/230	- 0,18kW	- TF

Drive unit with variable speed motor

Item no	A	B	D	E	F	G	J	K
XBEB A300	HPV	- L	- V6-15	- WA20	- MM03	- 50/380-500	- C	- P

Item no - Drive type

XBEB: End drive

H – Motor power

... kW: Motor power, kW
(position is omitted for variable speed motors
see position F)

A – 0-Unit

HNP: Heavy, direct drive, no slip clutch
HP: Heavy, direct drive, slip clutch
....V: Variable speed

I – Thermal protection

No: No thermal protection
TF: Thermal protection type TF
TH: Thermal protection type TH
(position is omitted for variable speed motors)

B – Motor position

L: Left
R: Right

J – Hybrid cable

No: No hybrid cable
C: Hybrid cable included in SEW Movimot
(position is omitted for fixed speed motors)

C – End drive with guided chain

G: Guided (position is omitted for non-guided)

K – Fieldbus

No: No fieldbus
P: Profibus fieldbus, maintenance switch
D: DeviceNet fieldbus, maintenance switch
(position is omitted for fixed speed motors)

D – Speed

V...: Fixed speed... m/min
V... -...: Variable speed range...-... m/min

E – Gearbox

SA37: SEW motor type SA37

F – Movimot size

MM03: SEW Movimot type, 0,33 kW
MM05: SEW Movimot type, 0,55 kW
MM07: SEW Movimot type, 0,75 kW
(position is omitted for fixed speed motors)

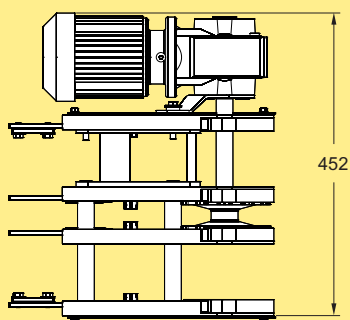
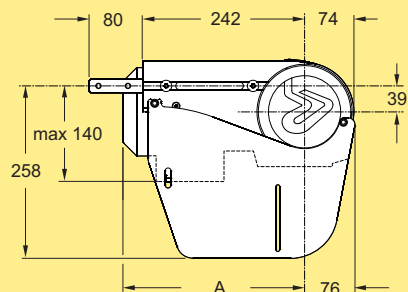
G – Electrical environment

50/230: 50 Hz, 230 V
50/400: 50 Hz, 400 V
60/230: 60 Hz, 230 V
60/460: 60 Hz, 460 V
60/575: 60 Hz, 575 V
50/380-500: SEW Movimot variable speed motor
60/380-500: SEW Movimot variable speed motor

End drive units X300, direct drive, no slip clutch

End drive units X300, direct drive, slip clutch

End drive unit, direct drive, no slip clutch



End drive unit, direct drive
 Fixed speed up to 60 m/min
 Variable speed up to 80 m/min
 Motor on left side
 Fixed/variable speed *
 Without motor

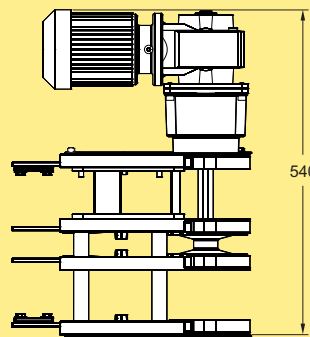
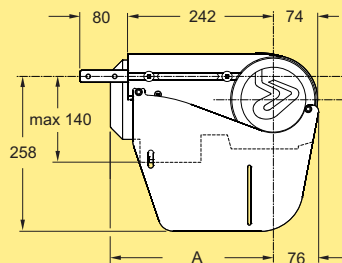
XBEB A300
XBEB 0A300HNLP

Motor on right side
 Fixed/variable speed *
 Without motor

XBEB A300
XBEB 0A300HNRP

Maximum traction force: 1250 N. See page 19.
 * Use online configurator when ordering.
 Effective track length: 0,80 m

End drive unit, direct drive, slip clutch



End drive unit, direct drive
 Fixed speed up to 60 m/min
 Variable speed up to 80 m/min
 Motor on left side
 Fixed/variable speed *
 Without motor

XBEB A300
XBEB 0A300HLP

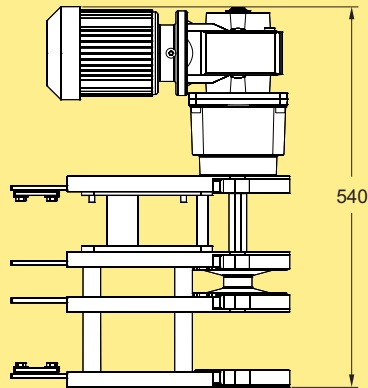
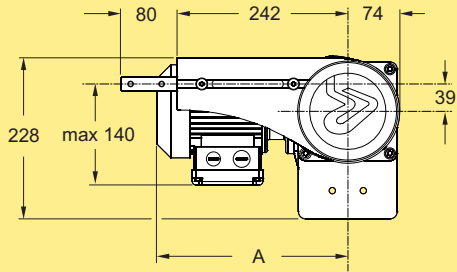
Motor on right side
 Fixed/variable speed *
 Without motor

XBEB A300
XBEB 0A300HRP

Maximum traction force: 1250 N. See page 19.
 * Use online configurator when ordering.
 Effective track length: 0,80 m

End drive units X300, direct drive, slip clutch, guided

End drive unit H, guided chain, slip clutch



End drive unit

Direct drive with guided chain. Adjustable slip clutch.
Maximum traction force: up to 1250 N.
Fixed speeds up to 60 m/min.
Variable speed up to 80 m/min.

Motor on left side:

Fixed/variable speed * **XBEB A300**
Without motor **XBEB 0A300HLGP**

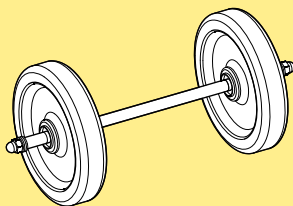
Motor on right side:

Fixed/variable speed * **XBEB A180**
Without motor **XBEB 0A300HRGP**

* Use online configurator when ordering.

Effective track length: 0,80 m

Guide wheel kit 300

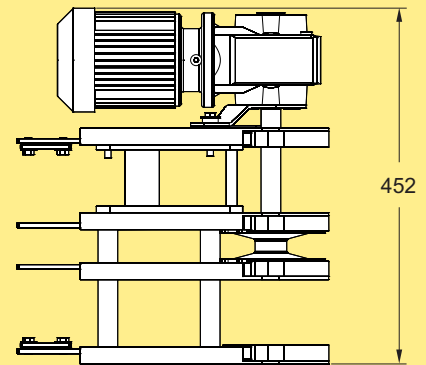
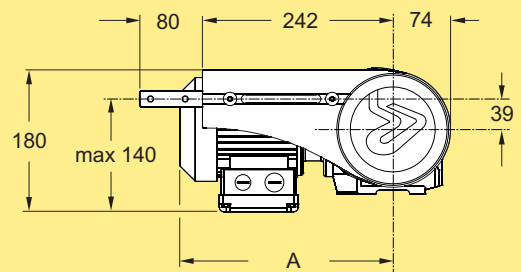


Guide wheel for drive units **5114930**

Including wheel, shaft and mounting hardware.
Note. Can only be used with plain chain. For use in high speed operation (60 m/min and above).

End drive units X300, direct drive, no slip clutch, guided

End drive unit H, guided chain, no slip clutch



End drive unit

Direct drive with guided chain. No slip clutch.
Maximum traction force: up to 1250 N.
Fixed speeds up to 60 m/min.
Variable speed up to 80 m/min.

Motor on left side:

Fixed/variable speed * **XBEB A300**
Without motor **XBEB 0A300HNLGP**

Motor on right side:

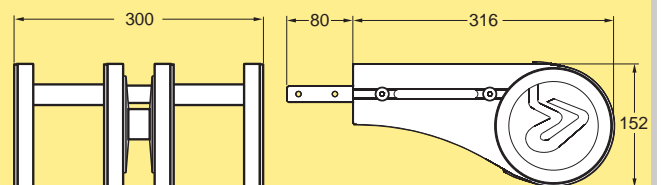
Fixed/variable speed * **XBEB A300**
Without motor **XBEB 0A300HNRGP**

* Use online configurator when ordering.

Effective track length: 0,80 m

Idlers X300

Idler end unit



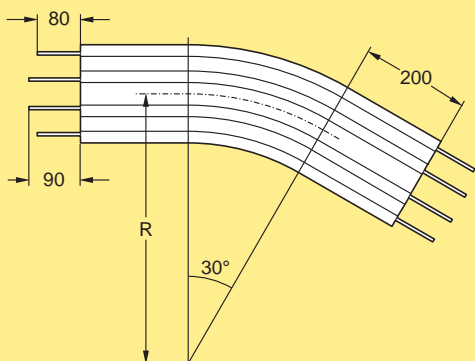
Idler end unit

XBEJ A300

Effective track length: 0,80 m

PO
X45
XS
XL
XLP
X85
X85P
XH
XK
XKP
X180
X300
GR
CS
XT
WL
XC
XF
XD
XLX
X85X
X180X
X300X
GRX
CSX
ELV
CTL
FST
TR
APX
IDX

Plain bend, 30°

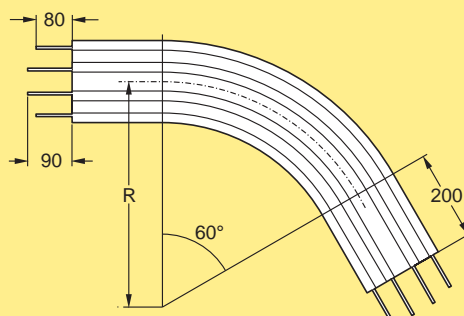


Plain bend, 30°±1°
 R=700±10 mm
 R=1000±10 mm

XBBP 30A300R7
XBBP 30A300R10

Effective track lengths:
 R700: 1,55 m (top+bottom)
 R1000: 1,85 m (top+bottom)

Plain bend, 60°

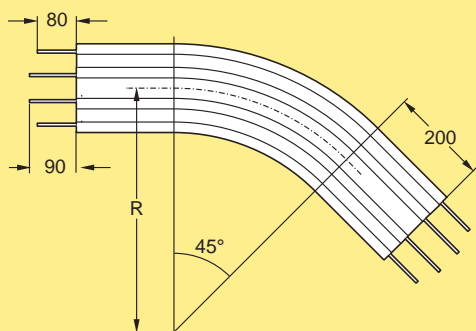


Plain bend, 60°±1°
 R=700±10 mm
 R=1000±10 mm

XBBP 60A300R7
XBBP 60A300R10

Effective track lengths:
 R700: 2,30 m (top+bottom)
 R1000: 2,90 m (top+bottom)

Plain bend, 45°

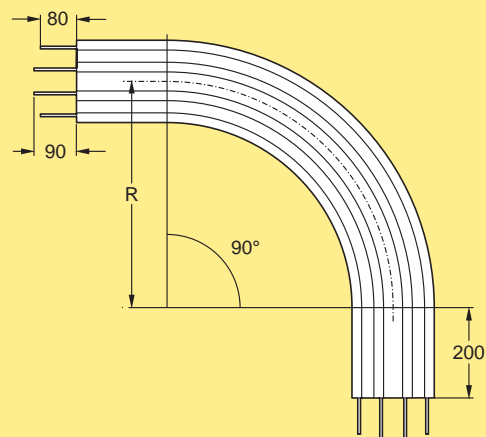


Plain bend, 45°±1°
 R=700±10 mm
 R=1000±10 mm

XBBP 45A300R7
XBBP 45A300R10

Effective track lengths:
 R700: 1,90 m (top+bottom)
 R1000: 2,40 m (top+bottom)

Plain bend, 90°



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

XBBP 90A300R7
XBBP 90A300R10

Effective track lengths:
 R700: 3,00 m (top+bottom)
 R1000: 3,95 m (top+bottom)

