

Conveyor system X180

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 X180



Features

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

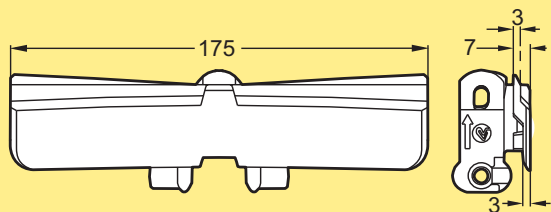
Examples of application areas

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	182 mm
Chain width	175 mm
Chain pitch	33,5 mm
Recommended item width	70–400 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

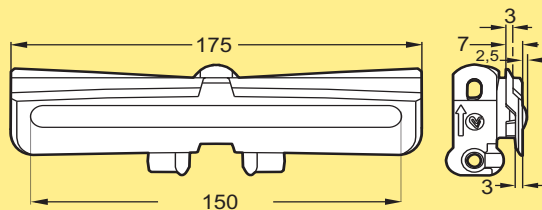
XBTP 3A175

Plain link kit *

5056651

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

Friction top chain



Friction top chain
Length 3 m PAR 1

XBTP 3A175 F

Friction top chain
Length 3 m PAR 2-20

XBTP 3A175 FP

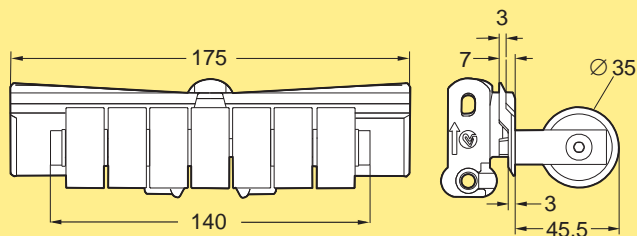
Use the online configurator to specify and order.

Friction top link kit *

5056653

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

Roller cleat link



Roller cleat link

XBTL 175x46 R

Roller cleat chain must be ordered as plain chain plus desired number of roller cleat links. Cannot be ordered as chain.

Other chains

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

Chain installation

See Appendix C, page 487, for installation instructions.

Chain accessories X180

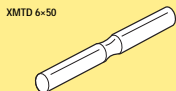
Plastic pivot



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

5111169

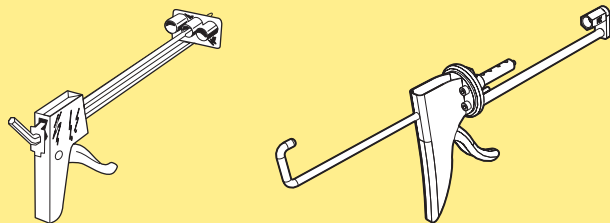
Steel pin



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

5111172

Pin insertion tool for chain



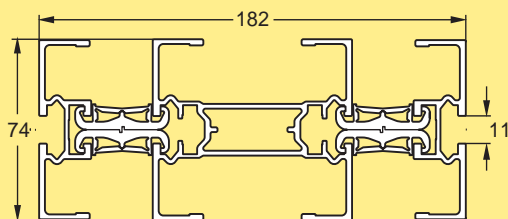
Pin insertion tool
X85-X180-X300
X85-X180-X300-XH, PRO version*

XMMJ 6
XBMJ 6 P

*This tool is recommended for frequent users

Beam components X180

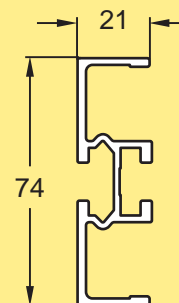
Beam section



Beam section (assembled)
Length 3 m (3030 ±5 mm) **XBCB 3A180**
Length to order (500- 3000 mm) **XBCB LA180**

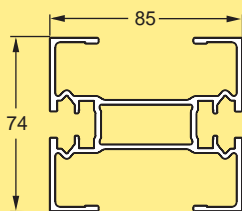
Slide rail: see page 235

Beam (outer section)



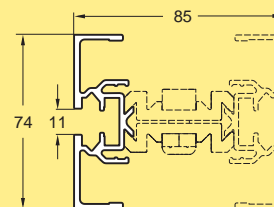
Beam (outer section)
Length 3 m (3030 ±5 mm) **XBCB 3A H**
Length to order (500- 3000 mm) **XBCB LA H**

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)

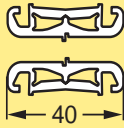


Profile for split conveyor beam
Length 3 m (3030 ±5 mm) **XBCB 3A85 H**
Length to order (500- 3000 mm) **XBCB LA85 H**

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

Beam components X180 (continued)

Clip kit for outer beam sections

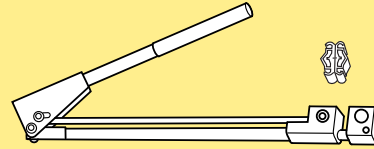


Snap-fit clip kit for outer beam sections

XBCE 40

Each kit contains two clips. For construction of 182 mm wide beam sections. Mounting tool: see below. Maximum distance between clips is 0,5 m.

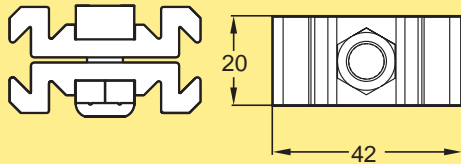
Mounting tool for clip kit



Mounting tool for aluminium clip kit
XBCE 40

3923518

Beam clip assembly

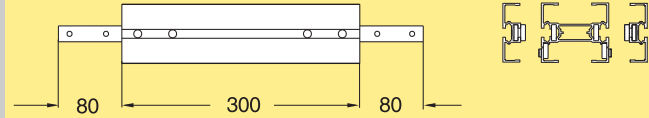


Beam clip assembly

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

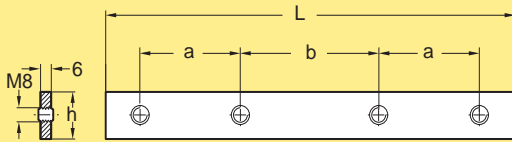


Beam section for chain installation
Including connecting strips and screws

XBCC 300A

Beam accessories X180

Connecting strip with set screws

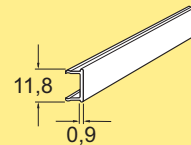


Connecting strip with set screws
h=20, a=44, b=44, L=160

XSCJ 6x160

Note. Must be ordered in multiples of 10

Cover strip for T-slot, aluminium

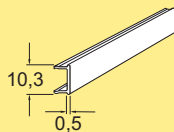


Cover strip for T-slot
Aluminium, anodized
Length 2 m

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

Plastic slide rail for X180/X300 beam

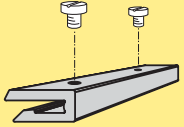


Slide rail
 Length 25 m
 HDPE (Black)
 PA-PE (Grey)
 PVDF (Natural white)

XBCR 25
XBCR 25 H
XBCR 25 P

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

Plastic screws for slide rail



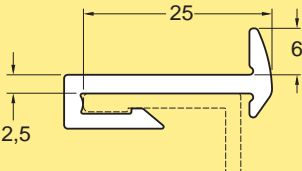
Plastic screws 5 mm for XS-XL-X85-XH-X180-X300 beams

XLAG 5

Note. Must be ordered in multiples of 50

X45
 XS
 XL
 XLP
 X85

Plastic slide rail for X180/X300 beam, outer

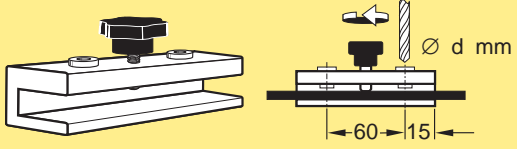


Slide rail, outer
 UHMW-PE ($\mu=0,1-0,25$) (White)
 Length 3 m

XBCR 3 UA

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

Drill fixture for slide rail

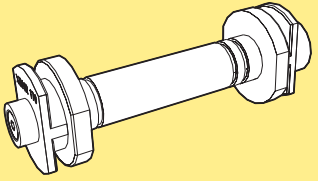


Drill fixture for XL-X85-XH-XK-X180-X300 slide rail
 d=4,2 mm

3920500

X85P
 XH
 XK
 XKP
X180
 X300

Mounting tool for slide rail, X180/X300



Mounting tool for slide rail

XBMR 170

Rivet crimping pliers

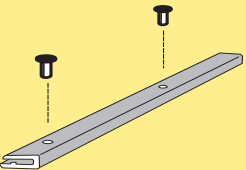


Rivet crimping pliers for XL-X85-XH-XK-X180-X300
 For 4 mm rivets

5051395

GR
 CS
 XT
 WL
 XC

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 clamp



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

3923005

XF
 XD
 XLX
 X85X
 X180X

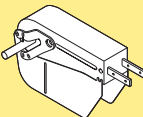
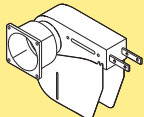
X300X
 GRX
 CSX
 ELV
 CTL
 FST
 TR
 APX
 IDX

Drive unit types

The X180 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 A180	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 A180	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)

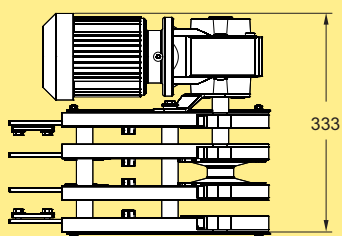
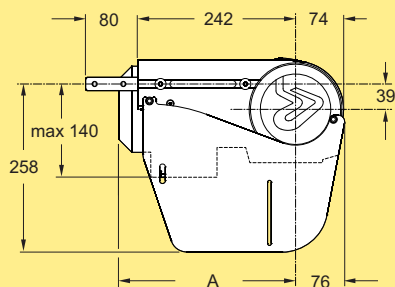
G – Electrical environment

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 X180, direct drive, no slip clutch

End drive units X180, direct drive, slip clutch

End drive unit, direct drive



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

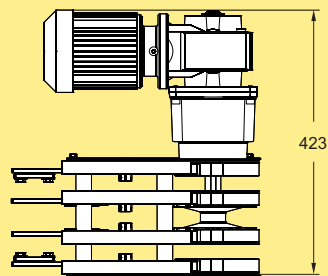
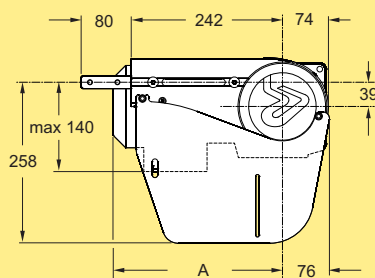
XBEB A180
XBEB 0A180HNLP

Motor on right side
 Fixed/variable speed *
 Without motor

XBEB A180
XBEB 0A180HNRP

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

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 A180
XBEB 0A180HLP

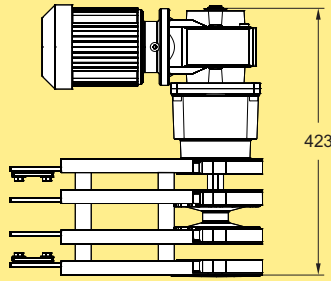
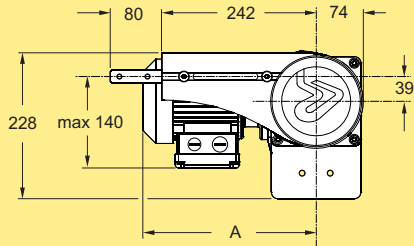
Motor on right side
 Fixed/variable speed *
 Without motor

XBEB A180
XBEB 0A180HRP

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

End drive units X180, 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 A180**
Without motor **XBEB 0A180HLGP**

Motor on right side:

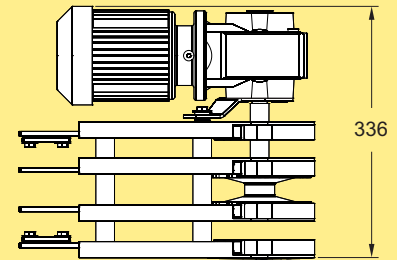
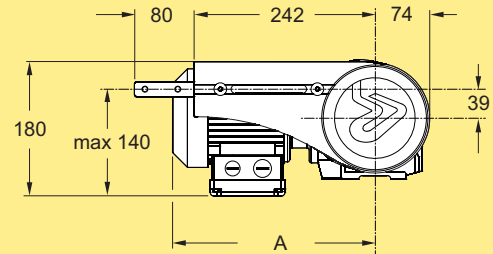
Fixed/variable speed * **XBEB A180**
Without motor **XBEB 0A180HRGP**

* Use online configurator when ordering.

Effective track length: 0,80 m

End drive units X180, 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 A180**
Without motor **XBEB 0A180HNLGP**

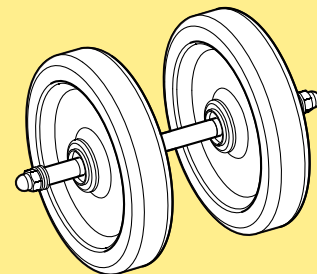
Motor on right side:

Fixed/variable speed * **XBEB A180**
Without motor **XBEB 0A180HNRGP**

* Use online configurator when ordering.

Effective track length: 0,80 m

Guide wheel kit 180

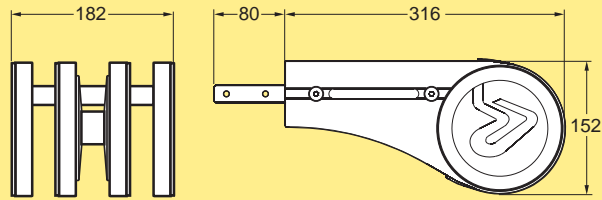


Guide wheel for drive units **5114932**

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).

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

Idler end unit

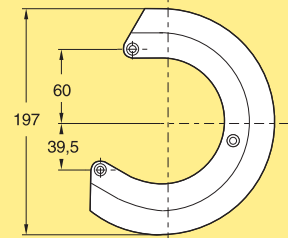


Idler end unit

XBEJ A180

Effective track length: 0,80 m

Protective cover for idler end unit

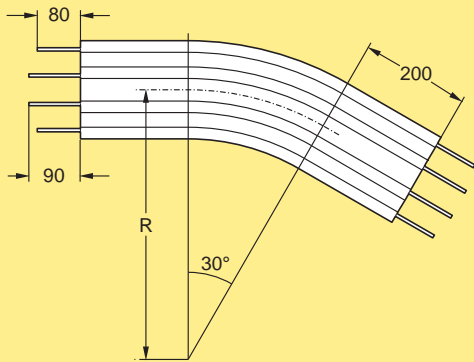


Protective cover for idler end unit

XBSJ 197A180

Plain bends X180

Plain bend, 30°



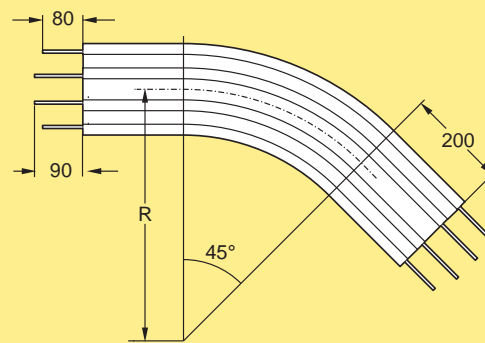
Plain bend, 30°±1°

R=500±10 mm
R=700±10 mm
R=1000±10 mm

XBBP 30A180R5
XBBP 30A180R7
XBBP 30A180R10

Effective track lengths:
R500: 1,35 m (top+bottom)
R700: 1,55 m (top+bottom)
R1000: 1,85 m (top+bottom)

Plain bend, 45°



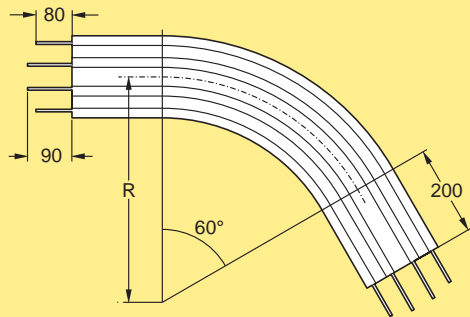
Plain bend, 45°±1°

R=500±10 mm
R=700±10 mm
R=1000±10 mm

XBBP 45A180R5
XBBP 45A180R7
XBBP 45A180R10

Effective track lengths:
R500: 1,60 m (top+bottom)
R700: 1,90 m (top+bottom)
R1000: 2,40 m (top+bottom)

Plain bend, 60°



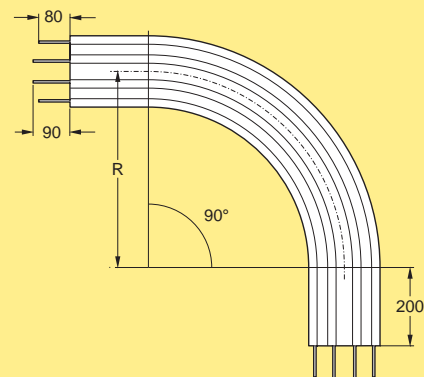
Plain bend, 60°±1°

R=500±10 mm
R=700±10 mm
R=1000±10 mm

XBBP 60A180R5
XBBP 60A180R7
XBBP 60A180R10

Effective track lengths:
R500: 1,85 m (top+bottom)
R700: 2,30 m (top+bottom)
R1000: 2,90 m (top+bottom)

Plain bend, 90°



Plain bend, 90°±1°

R=500±10 mm
R=700±10 mm
R=1000±10 mm

XBBP 90A180R5
XBBP 90A180R7
XBBP 90A180R10

Effective track lengths:
R500: 2,40 m (top+bottom)
R700: 3,00 m (top+bottom)
R1000: 3,95 m (top+bottom)

