Conveyor system X180

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System information

Chain X180

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

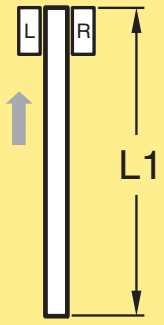
Features

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.

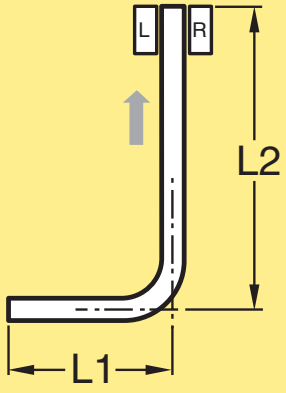
Straight conveyor



Conveyor module – straight * **5990226**

**Use online configurator when ordering*

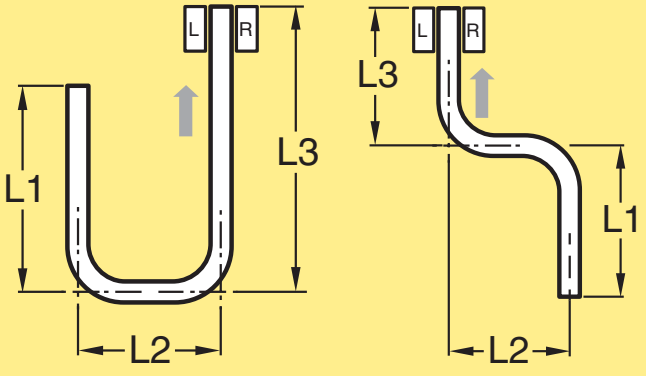
One bend conveyor



Conveyor module – one bend * **5990230**

**Use online configurator when ordering*

Two bend conveyor



Conveyor module – two bends * **5990237**

**Use online configurator when ordering*

Support modules – single and multi-lane

	5995392	Single XB
	5995393	Multi single 2 lane
	5995394	Multi single 3 lane
	5995395	Multi single 4 lane
	5995396	Multi double 2lane
	5995397	Multi double 3 lane
	5995398	Multi double 4 lane

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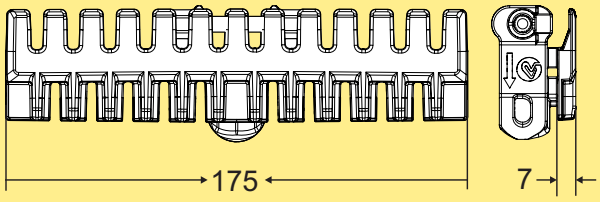
Plain chain

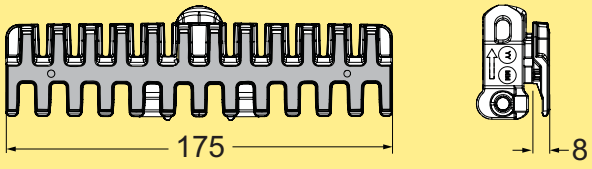


Plain chain
Length 3 m
Food & Wet applications **XBTP 3A180 K**
XBTPX 3A180 K

Plain link kit *
Food & Wet applications **FLX1004629**
5129849

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

Friction top chain

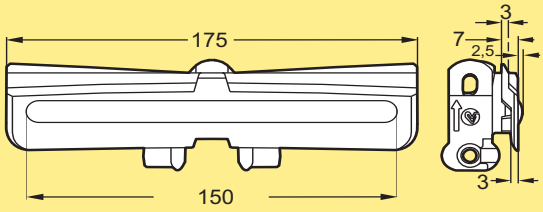


Friction top chain
Length 3 m **XBTPX 3A180 K FA**

Friction top link kit* **FLX1009390**

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

Friction top chain



Friction top chain
Length 3 m PAR 1 **XBTP 3A175 F**

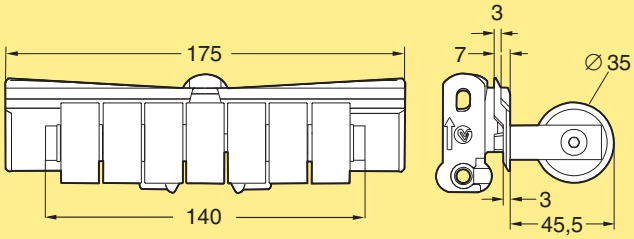
Friction top chain
Length 3 m PAR 2-20 **XBTP 3A175 FP**

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 **5056654**

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 “D. Chain installation” on page 530, for installation instructions.

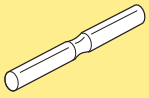
Chain accessories X180

Plastic pivot

Plastic pivot X180-X300 kit **5111169**

Each kit contains 25 items.

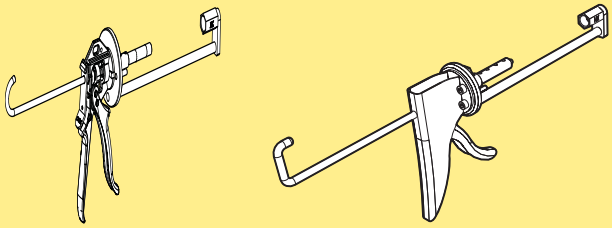
Steel pin



Steel pin -X180-X300 kit **5111172**

Each kit contains 25 items.

Pin insertion tool for chain

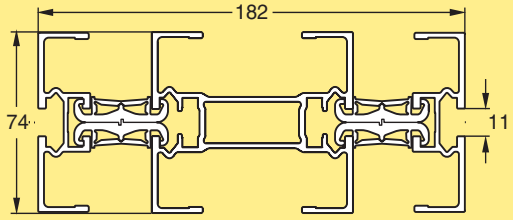


Pin insertion tool
X85-X180-X300 **XMMJ 6**
X85-X180-X300-XH, PRO version* **XBMJ 6 P**

**This tool is recommended for frequent users*

Beam components X180

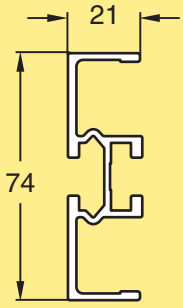
Beam section



Beam section (assembled)
Length 2995 ±1 mm **XBCB 3A180**
Length to order (160- 2995 mm) **XBCB LA180**

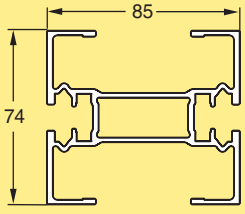
Slide rail: see page 278

Beam (outer section)



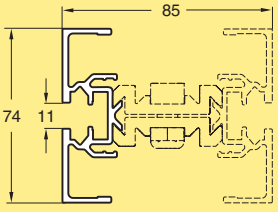
Beam (outer section)
Length 3000 +10/-0 mm **XBCB 3A H**
Length to order (500- 3000 mm) **XBCB LA H**

Beam (mid-section)



Beam (mid-section)
Length 3000 +10/-0 mm **XBCB 3A85**
Length to order (500- 3000 mm) **XBCB LA85**

Profile for split conveyor beam (inner section)



Profile for split conveyor beam
Length 3000 +10/-0 mm **XBCB 3A85 H**
Length to order (500- 3000 mm) **XBCB LA85 H**

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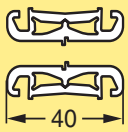
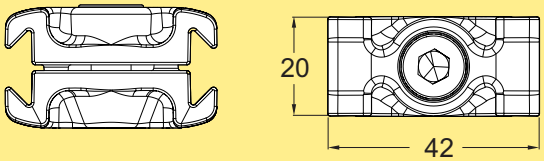
Clip kit for outer beam sections



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.

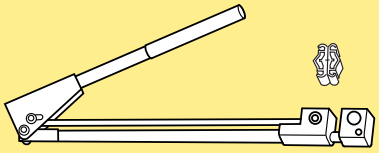
Beam clip assembly



Beam clip assembly **XBCE 42×20 A**

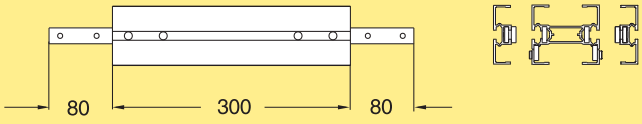
Including M8 screw and locking nut. Use minimum 5 clips per meter. Place clips 100 mm from each end. Note. Contains 10 pcs..

Mounting tool for clip kit



Mounting tool for aluminium clip kit XBCE 40 **3923518**

Beam section for chain installation

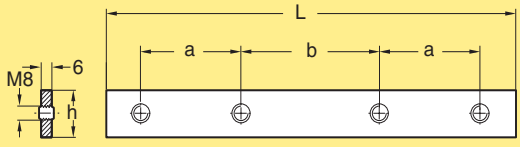


Beam section for chain installation
Including connecting strips and screws **XBCC 300A**

Can only be mounted between two straight beam sections.

Beam accessories X180

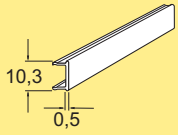
Connecting strip with set screws



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

Note. Contains 10 pcs.

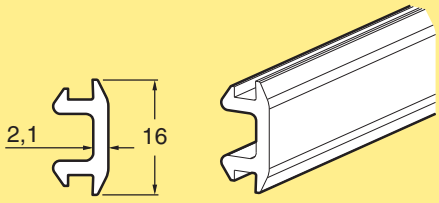
Cover strip for T-slot, PVC



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

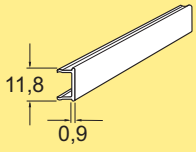
Note! Can't be used with bends

Cover strip for T-slot, PVC



Cover strip for T-slot
Length 25 m
Grey PVC **XCAC 25 P**

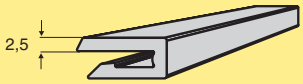
Cover strip for T-slot, aluminium



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

Note! Can't be used with bends

Plastic slide rail for X180/X300 beam

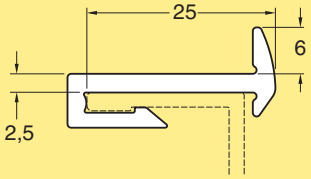


Slide rail
Length 25 m

HDPE (Black)	**XBCR 25**
PA-PE (Grey)	**XBCR 25 H**
PVDF (Natural white)	**XBCR 25 P**
PE-UHMW (White)	**XBCR 25 U**
PE-UHMW (Blue)	**XBCR 25 UL A**
PE-UHMW conductive (Black)	**XBCR 25 E**

See Appendix A, page 521 for selection guidelines and assembly instructions.

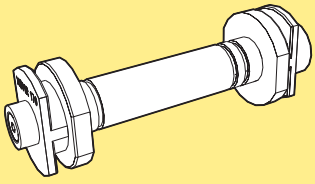
Plastic slide rail for X180/X300 beam, outer



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

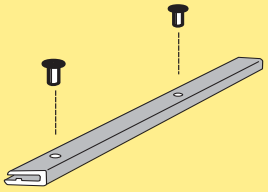
See Appendix A, page 521 for selection guidelines and assembly instructions.

Mounting tool for slide rail



Mounting tool for slide rail (X85) **XBMR 170**

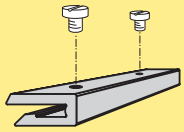
Aluminium rivets



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. Contains 250 pcs..

Plastic screws for slide rail

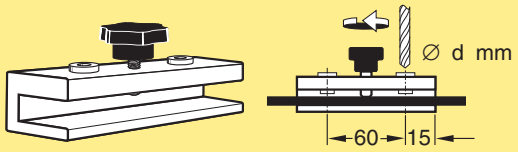


Plastic screws 5 mm for XS-X65-X85-XH-X180-X300 beams **XLAG 5**

See mounting instruction "Anchoring slide rail using plastic screws" on page 526

Note. Contains 50 pcs.

Drill fixture for slide rail

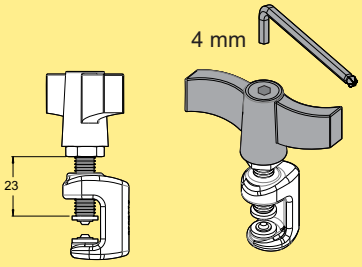


Drill fixture for X65-X85-XH-XK-X180-X300 slide rail
d=4,2 mm **3920500**

Rivet crimping pliers

Rivet crimping pliers for X65-X85-XH-XK-X180-X300
For 4 mm rivets **5051395**

Rivet crimping clamp



Rivet crimping clamp for X65-X85-XH-XK-X180-X300
For 4 mm rivets
(Allen key not included) **3923005**

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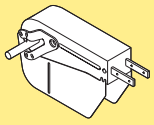
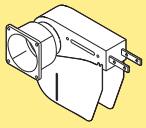
Drive unit types

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.

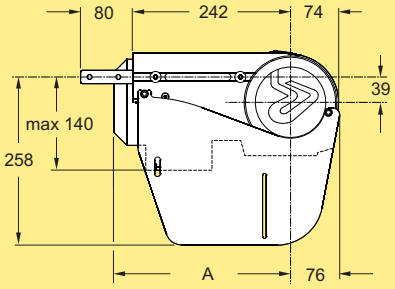
Drive units *without* motors can be ordered using the designations in the catalogue.

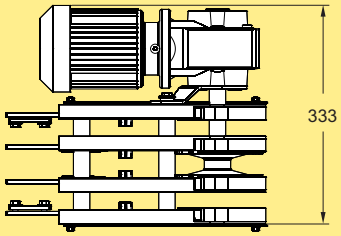
Dimension drawings in catalogue

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.

End drive units X180, direct drive, no slip clutch

End drive unit, direct drive





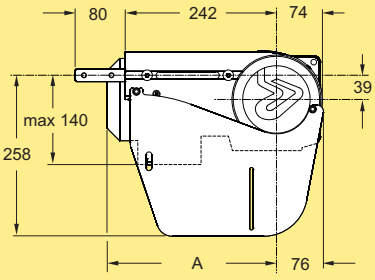
End drive unit, direct drive
- Fixed speed up to 60 m/min
- Variable speed up to 80 m/min
- Motor on left side
- Fixed/variable speed * — **XBEB A180** **XBEB 0A180HNLP**
- Without motor

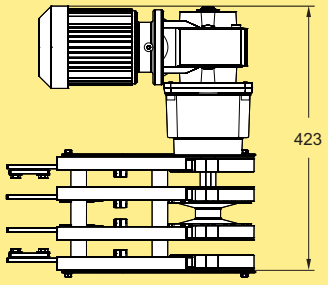
- Motor on right side
- Fixed/variable speed * — **XBEB A180** **XBEB 0A180HNRP**
- Without motor

Maximum traction force: 1250 N. See page 22.
Effective track length: 0,80 m
**Use online configurator when ordering.*

End drive units X180, direct drive, slip clutch

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 * — **XBEB A180** **XBEB 0A180HLP**
- Without motor

- Motor on right side
- Fixed/variable speed * — **XBEB A180** **XBEB 0A180HRP**
- Without motor

Maximum traction force: 1250 N. See page 22.
**Use online configurator when ordering.*
Effective track length: 0,80 m

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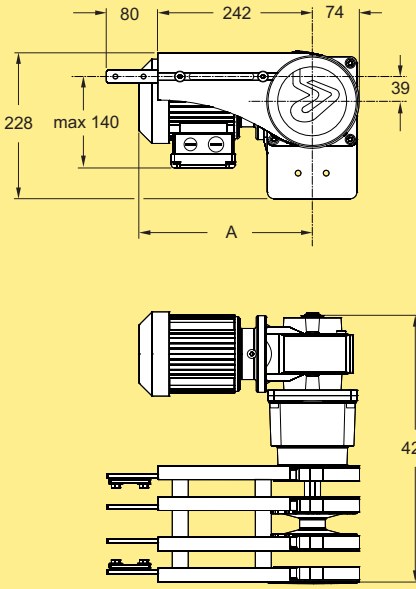
End drive units X180, direct drive, slip clutch, guided

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:

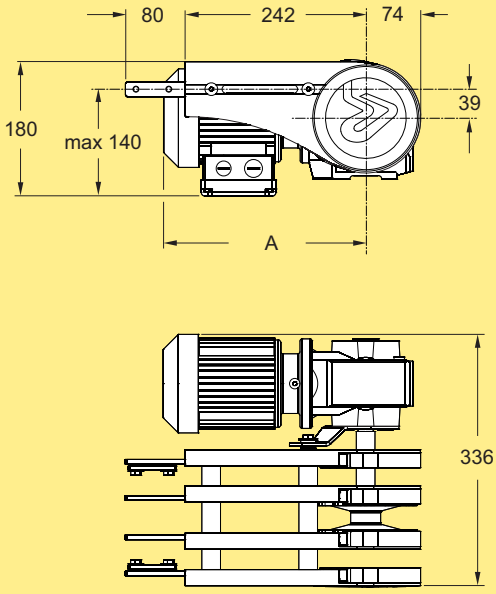
Fixed/variable speed *	**XBEB A180**
Without motor	**XBEB 0A180HRGP**

**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**

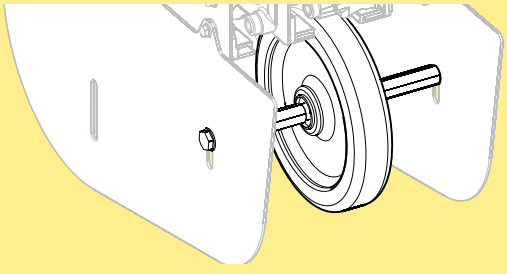
Motor on right side:

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

**Use online configurator when ordering.*

Effective track length: 0,80 m

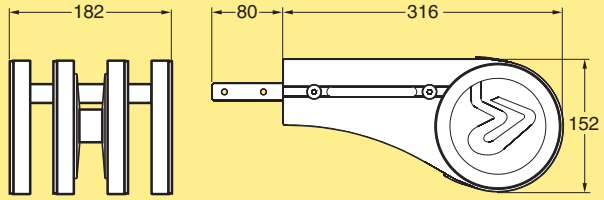
Guide wheel kit 180



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) or use for a more quiet operation at lower speed.

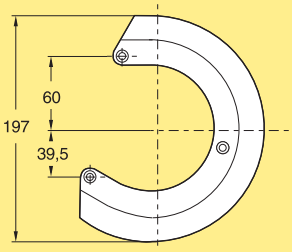
Idler end unit



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**

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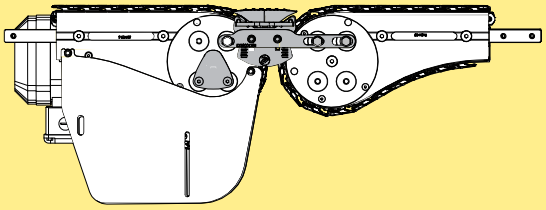
Passive bridge from conveyor to conveyor

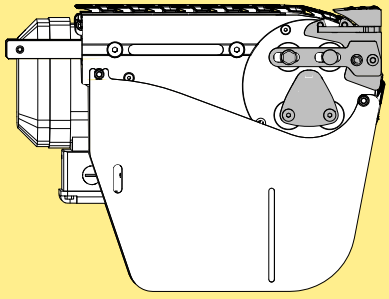


*Passive bridge** **XBNG A180**

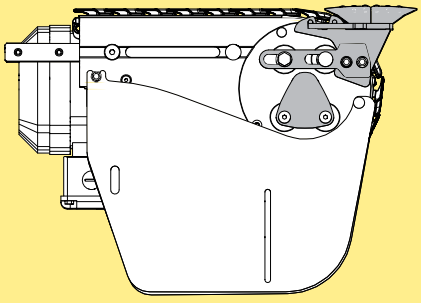
From: *To:*
Heavy Drive Heavy Idler

** Use online configurator when ordering.*

Passive bridge to or from machine or application, Single or double rollers



(1)



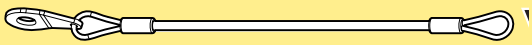
(2)

*Passive bridge**
Single roller (1) or Double roller (2) **XBNG A180**

From: *To:*
Heavy Drive External
External Heavy Idler

** Use online configurator when ordering.*

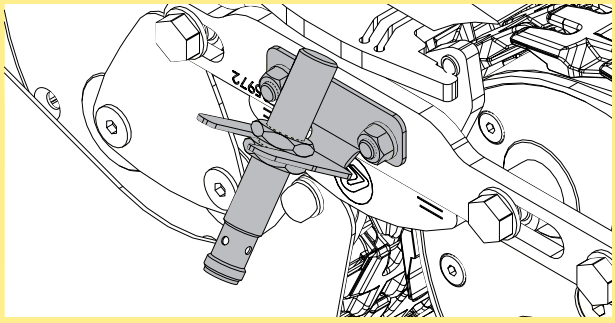
Attachment wire



Wire for attaching roller to holder **FLX1006041**

**Also available as a configuration option through XBNG A180.*

Sensor Kit

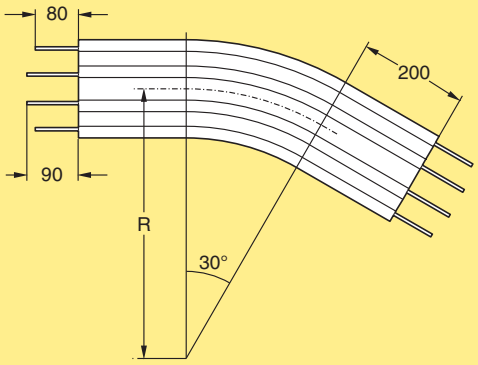


Bridge in position sensor kit
Conveyor to conveyor **FLX1006042**
External to/from Conveyor **FLX1006044**

**Also available as a configuration option through XBNG A180.*
Includes: Bracket & PNP sensor (NO), M12xL=70mm, M12 connector. No cables.

**Note*
Bridges can not be used with cleated chain.

Plain bend, 30°

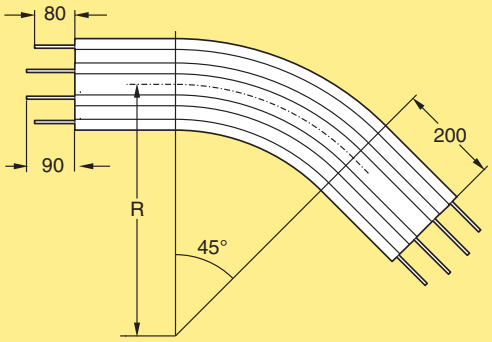


Plain bend, 30°±1°
R=500±10 mm
R=700±10 mm
R=1000±10 mm

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°

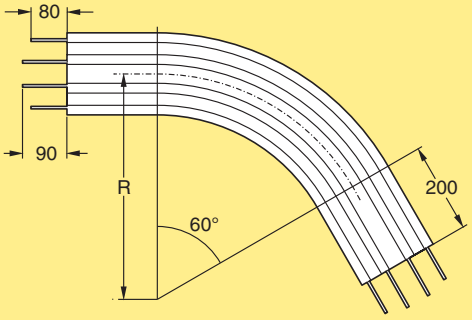


Plain bend, 45°±1°
R=500±10 mm
R=700±10 mm
R=1000±10 mm

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°

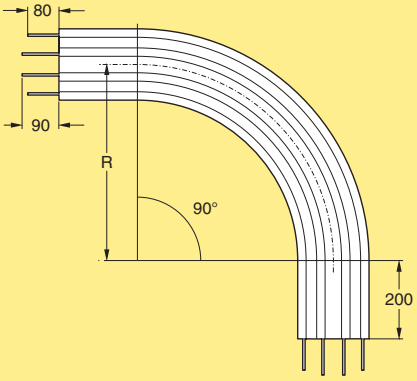


Plain bend, 60°±1°
R=500±10 mm
R=700±10 mm
R=1000±10 mm

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)

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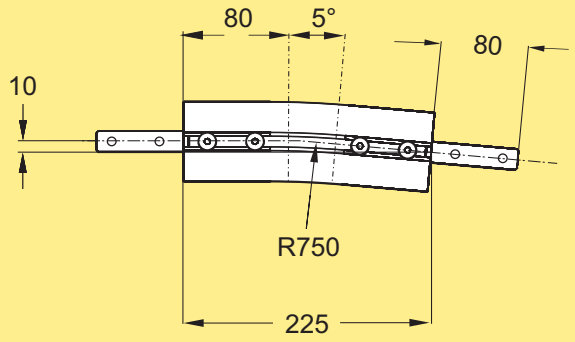
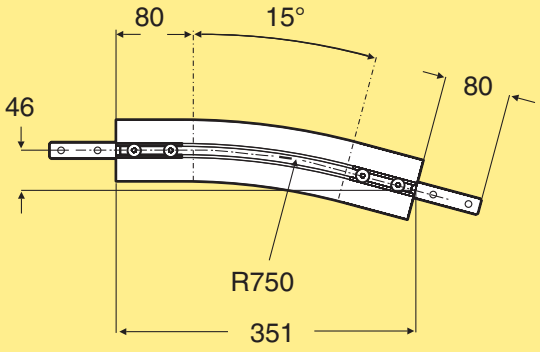
Vertical bend, 5°



Vertical bend, 5° **XBBV 5A180R750**

Four outer section beam pieces, unassembled.
Effective track length: 0,50 m (top+bottom)

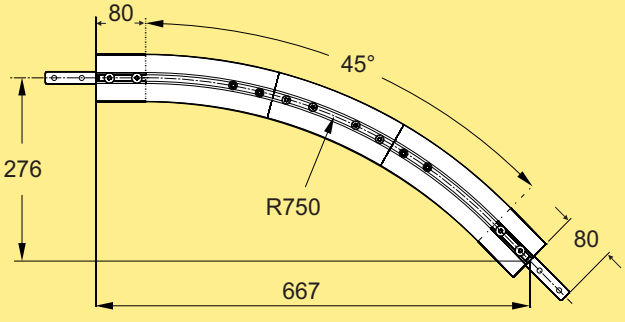
Vertical bend, 15°



Vertical bend, 15° **XBBV 15A180R750**

Four outer section beam pieces, unassembled.
Effective track length: 0,75 m (top+bottom)

Vertical bend, 45°



Vertical bend, 45° **XBBV 45A180R750**

Four outer section beam pieces, unassembled.
Effective track length: 1,5 m (top+bottom)

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