

Stainless steel conveyor system X85X, X85Y, X85C

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System information



PO
X70X
X85X
X180X
X300X

Conveyor with focus on robustness and cleanliness

X85X - Standard version: Designed to suit requirements for food, personal products, cosmetics pharmaceutical and dairy applications.

X85Y - Covered return chain version: Designed with self-drainage to avoid malfunction of the chain in case of machine spillage.

X85C - Wipe off version: Closed surface design with minimum holes or slots for easier cleaning and even better hygiene.

Chain width 83 mm



X85X

X85Y

X85C

Environment

- Operating temperatures –20 °C to +60 °C
- Operating humidity 10% to 95% RH
- See chapter Technical reference for Noise level

Improved cleanliness conveyor

The X85X conveyor system has been evaluated based on field experience and suggestions from customers. With focus on structure rigidity and robustness, easy design, and easier cleaning, several components have been improved with features like better drainage and smaller contact surfaces.

Compatibility

Note that the new X85X products are possible to use with old XMY systems in certain cases. Please contact your local FlexLink office for more information

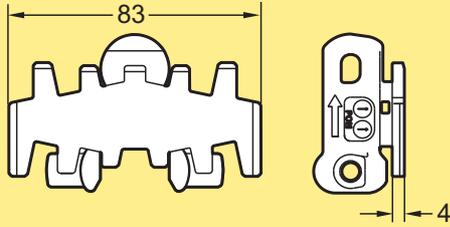
Technical characteristics

Drive unit capacity	1250 N
Chain tension limit	1250 N
Beam width	85 mm
Chain width	83 mm
Chain pitch.....	33,5 mm
Item width	70–400 mm
Maximum item weight.....	15 kg
Maximum weight on conveyor	200 kg
Maximum conveyor length.....	30 m

WL
222X
WL
273X
WL
374X
WL
526X
WL
678X
CSX
GRX
FSTX
TR
APX
IDX

Conveyor chain

Plain chain



Plain chain
Length 5 m
Standard material
Ultra low wear

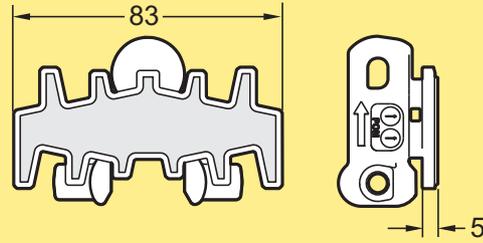
XBTPX 5A85
XBTP 5A85 C

Plain link kit *
Standard material
Ultra low wear

5110512
5110533

* Link kit contains 10 links, 10 pivots, 10 steel pins
Do not use this chain with pallets type BR or R.

Flat friction top chain



Flat friction top chain
Length 5 m

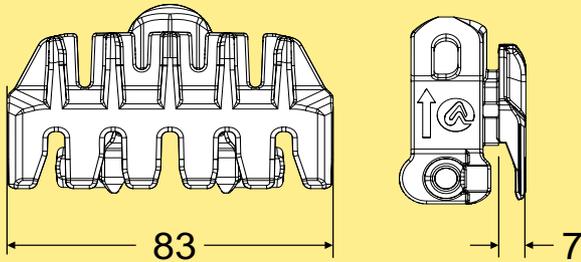
XBTP 5A85 FA

Friction top link kit *

5110528

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

Plain chain



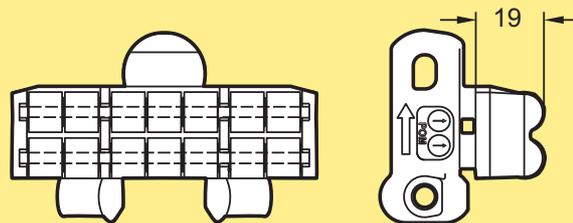
Plain chain
Length 5 m

XBTPX 5A85 K
FLX1003437

Plain chain link kit *

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

Roller top chain



Roller top chain
Length 5 m

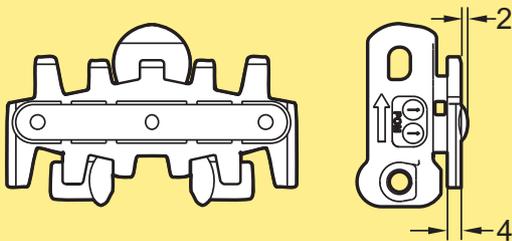
XBTR 5A85

Roller top link kit *

5110520

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

Friction top chain



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

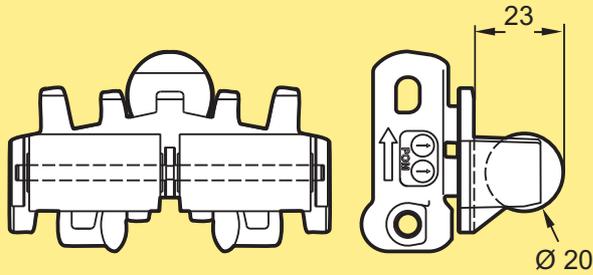
XBTP 5A85 F
XBTP 5A85 F2

Friction top link kit *

5110518

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

Chain with 23 mm roller cleats



Chain with 23 mm roller cleats *
Length 5 m

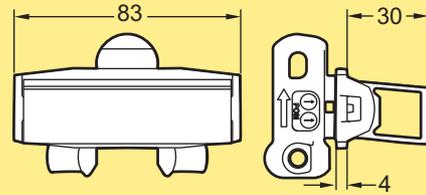
XBTF 5A85x23 R

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

Roller cleat link kit ** **5110521**

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

Flexible cleat chain, Type D



Flexible cleat chain Type D
Length 5 m

XBTE 5A85 D

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

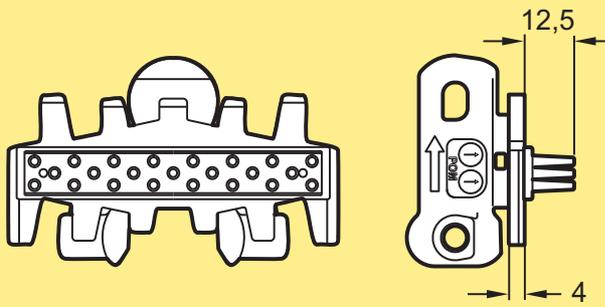
5110582

Flexible cleat top (replacement) ** **5110524**

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

** Cleat kit contains 10 flexible cleat tops

Flexible cleat chain, Type B



Flexible cleat chain Type B *
Length 5 m

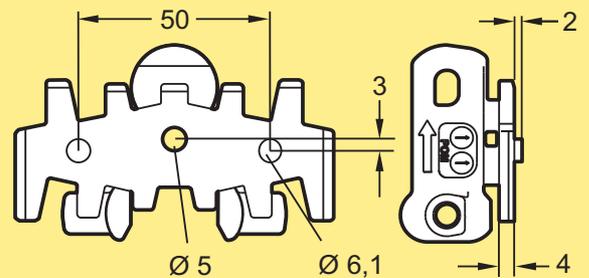
XBTE 5A85 B

* 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

Universal chain



Universal chain*
Length 5 m

XBTF 5A85 U

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

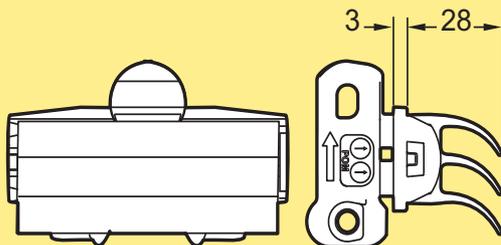
The link has a hole for an M5 screw. An M5 nut will fit inside the link.

Universal link kit **

5110526

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

Flexible cleat chain, Type C



Flexible cleat chain Type C
Length 5 m

XBTE 5A85 C

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

Other chains

See the Chain guide for selection of other chains.

Note!

Any application incorporating cleated chains requires careful safety consideration. Pinch and shear points are generated throughout the assembly of the incorporated components. Do not use cleated chains in wet applications.

PO

X70X

X85X

X180X

X300X

WL
222X

WL
273X

WL
374X

WL
526X

WL
678X

CSX

GRX

FSTX

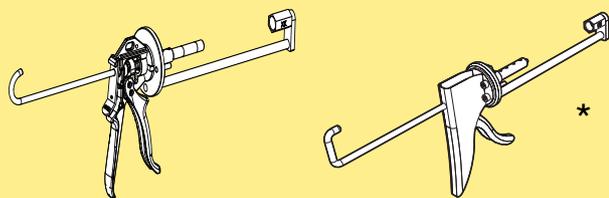
TR

APX

IDX

Chain accessories

Pin insertion tool for chain

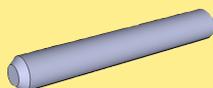


Pin insertion tool
PRO version*

XMMJ 6
XBMJ 6 P

**This tool is recommended for frequent users*

Stainless steel pin



Steel pin
Stainless steel

5111172

Steel pin kit, 25 pc

Plastic pivot for chain



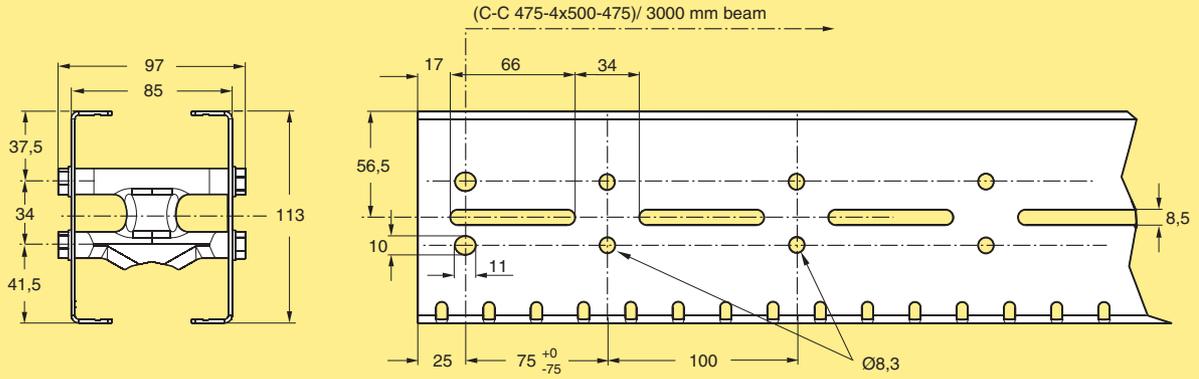
Plastic pivot kit

5111169

Spare parts kit, contains 25 pcs

Conveyor beams

Conveyor beam, type X, 85 mm



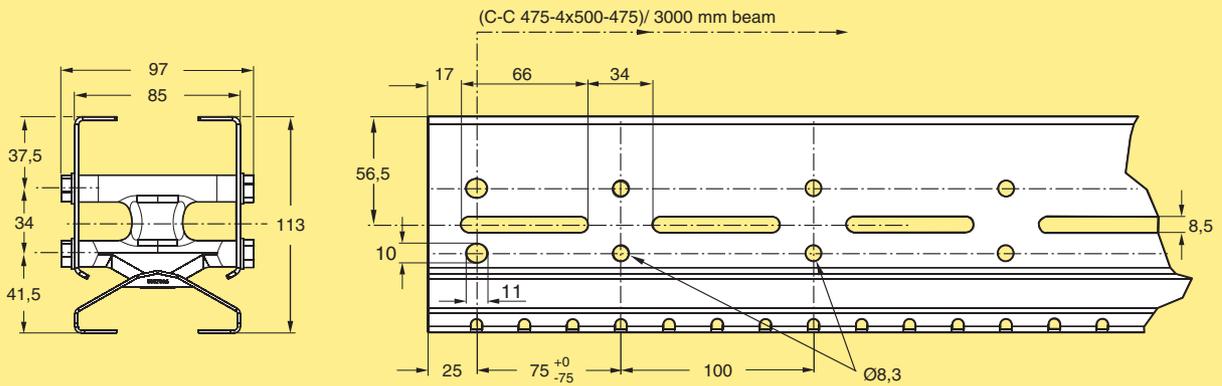
Conveyor Beam

Length 3 m (3000 ±1,5 mm)
Length to order (150- 2999 mm)

XBCBX 3A85
XBCBX LA85

All X85X beams are delivered fully assembled.

Conveyor beam, type Y, 85 mm



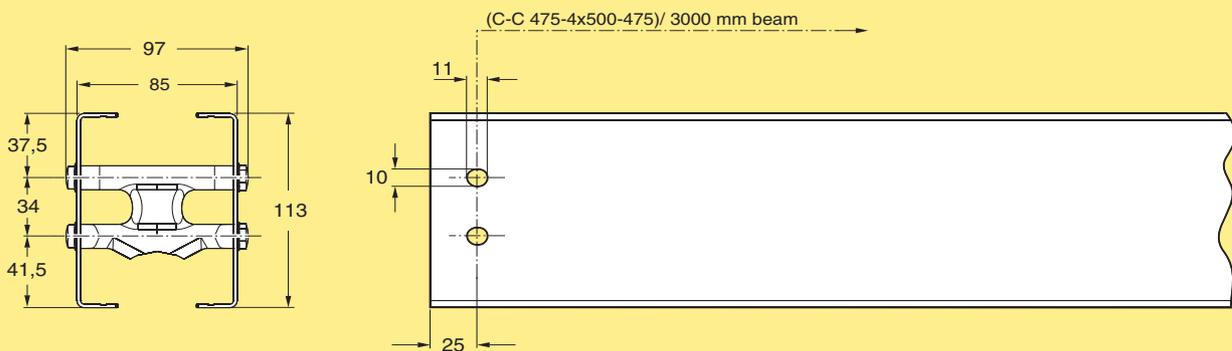
Conveyor Beam

Length 3 m (3000 ±1,5 mm)
Length to order (150- 2999 mm)

XBCBX 3A85Y
XBCBX LA85Y

All X85Y beams are delivered fully assembled, including 2 pcs of Screw kit 5114562.

Conveyor beam, type C, 85 mm



Conveyor Beam

Length 3 m (3000 ±1,5 mm)
Length to order (150- 2999 mm)

XBCBX 3A85C
XBCBX LA85C

All X85X beams are delivered fully assembled.

PO

X70X

X85X

X180X

X300X

WL

222X

WL

273X

WL

374X

WL

526X

WL

678X

CSX

GRX

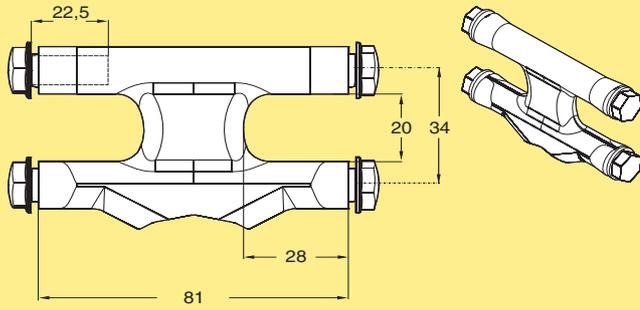
FSTX

TR

APX

IDX

Beam spacer kit

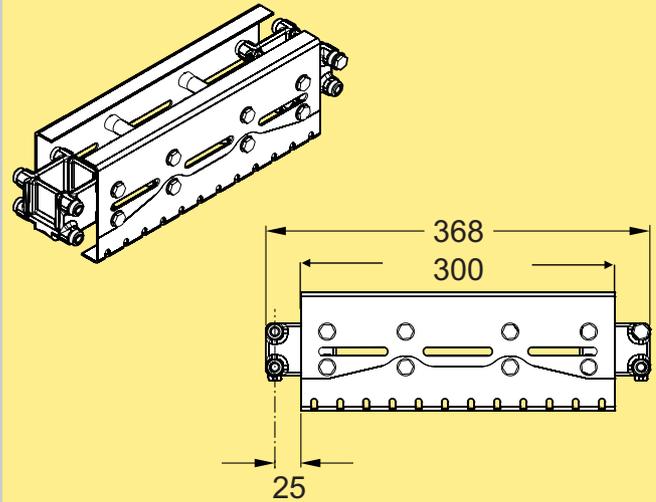


Beam spacer kit for X85X
Stainless steel

XBCEX A85

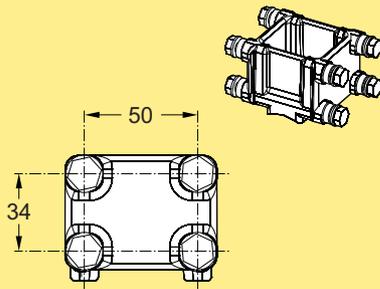
*Including screws.
The beams have predrilled 8,3 mm holes at 100 mm intervals that need to be increased to 10 mm see figure.*

Beam section for chain installation



Beam section for chain installation **XBCCX 300A85**
*Including 2 Connecting brackets
XBCJX A85*

Connecting bracket kit

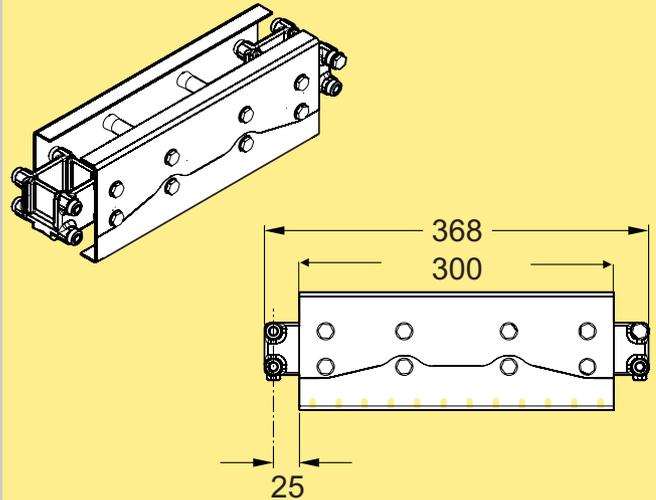


Connecting bracket kit for X85X
and X85Y, used to joint two beams
see figure.
Stainless steel

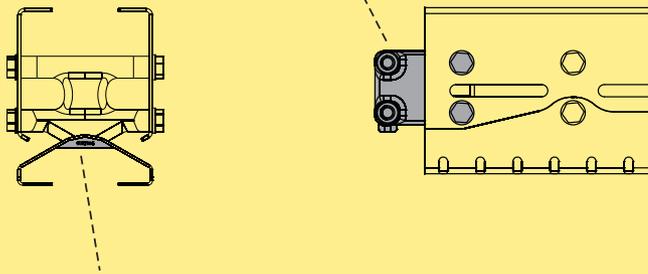
XBCJX A85

*Including screws.
The beams have predrilled 10 mm holes, see XBCBX
3A85.*

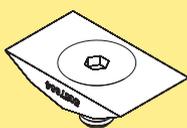
Beam section for chain installation



Beam section for chain installation **XBCCX 300A85C**
*Including 2 Connecting brackets
XBCJX A85C*



Screw kit

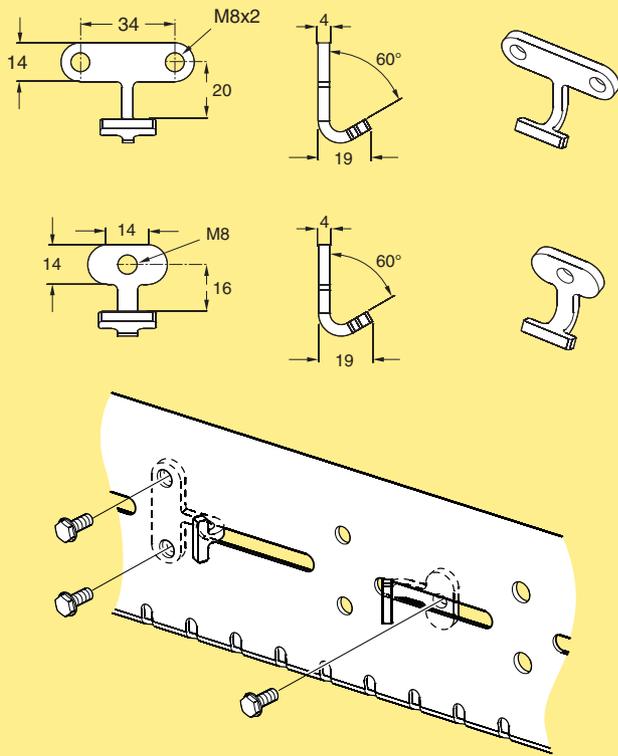


Screw kit

5114562

For return beam, type Y, 85 mm, or Drip catcher kit.

Nut, stainless steel



Nut 2xM8
Nut 1xM8

5113998
5114181

*Nut with threaded hole (M8) for connection of sensors and other accessories when the conveyor chain is in place. By placing nuts inside the beam at the holes, accessories can be attached using M8 A4 screws.
NOTE! Be careful when installing so no nut is dropped inside the beam, this can lead to a large additional work or operational damage.*

PO

X70X

X85X

X180X

X300X

WL
222X

WL
273X

WL
374X

WL
526X

WL
678X

CSX

GRX

FSTX

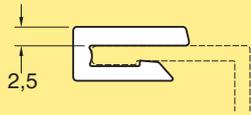
TR

APX

IDX

Slide rails

Plastic slide rails, narrow



Slide rail

Length 25 m

HDPE (Black)

PE-UHMV (White)

PE-UHMW (Blue)

PVDF (Transparent white)

PA-PE (Grey) (Should not be used in wet applications)

XBCR 25

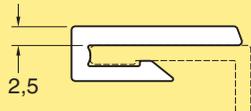
XBCR 25 U

XBCR 25 UL A

XBCR 25 P

XBCR 25 H

Plastic slide rails, wide



Slide rail

Length 25 m

HDPE (Black)

PE-UHMV (White)

PVDF (Transparent white)

PA-PE (Grey) (Should not be used in wet applications)

XBCR 25 B

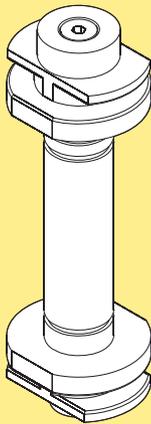
XBCR 25 UB

XBCR 25 PB

XBCR 25 HB

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

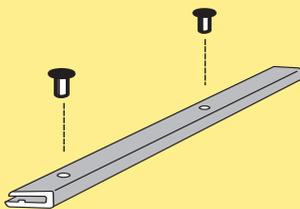
Mounting tool for slide rail



Mounting tool for slide rail

XBMR 170

Stainless steel rivet

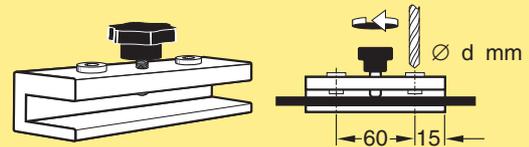


Stainless steel rivet, 4 mm

XLAHX 4x7

Note. Contains 25 pcs.

Drill fixture for slide rail



Drill fixture for slide rail
d=4,2 mm

3920500

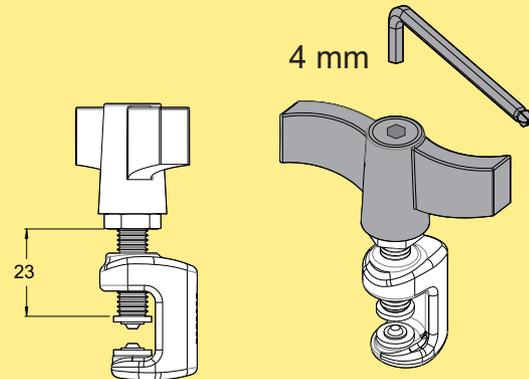
Rivet crimping pliers



Rivet crimping pliers
For 4 mm rivets

5051395

Rivet crimping clamp

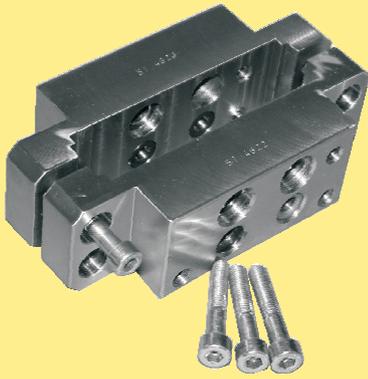


Rivet crimping clamp
For 4 mm rivets

(note: Allen key not included)

3923005

Drill fixture



Drill fixture

5114621

For use when additional holes are needed on the beam sides.

Including:

Drill 4,5 mm

Drill 8,3 mm

Drill 11,0 mm

and instructions for use.

Drill



Twist Drills DIN 338 HSS-E (Co 8)
Type N-HD Cobalt Alloyed, Split Point

Drill 11,0 mm

5115050

Drill 10,2 mm

5115056

Drill 8,3 mm

5115051

Drill 4,5 mm

5115052

Drill 4,2 mm (for 3920500)

5115053

For high strength alloys on CrNi base such as Hastelloy, Inconel, Monel, Nimonic, stainless steels, heat and acid-proof steels (up to 1400 N/mm² tensile strength).

PO

X70X

X85X

X180X

X300X

WL

222X

WL

273X

WL

374X

WL

526X

WL

678X

CSX

GRX

FSTX

TR

APX

IDX

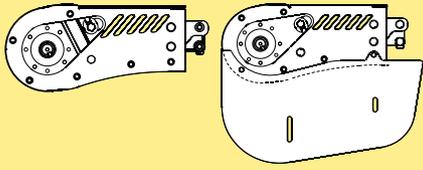
Drive and idler units – Introduction

Drive unit types

The X85X system drive units capacities is maximum 1250 N. The actual capacity depends on the speed.

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

End drive units

Size	Direct drive, no slip clutch
	
Drive unit	F, V
Drive unit, guided	F, V

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 Standard

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.

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	C	D	E	G	H	I
XBEBX A85	HNP	- L	- G	- V4	- SA37	- 50/230	- 0,18kW	- TF

Drive unit with variable speed motor

Item no	A	B	D	E	F	G	J	K
XBEBX A85	HNPV	- L	- V6-15	- SA37	- MM03	- 50/380-500	- C	- P

Item no - Drive type

XBEBX: End drive

A – 0-Unit

HNP: Direct drive, no slip clutch
V: Variable speed

B – Motor position

L: Left
 R: Right

C – End drive with guided chain

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

D – Speed

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

E – Gearbox

SA37: SEW motor type SA37
 WA30: SEW gear box type WA30

F – Movimot size

MM03: SEW Movimot type, 0,37 kW
 MM05: SEW Movimot type, 0,55 kW
 MM07: SEW Movimot type, 0,75 kW
 MM11: SEW Movimot type, 1,1 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
 50/380-500: SEW Movimot variable speed motor

H – Motor power

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

I – Thermal protection

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

J – Hybrid cable

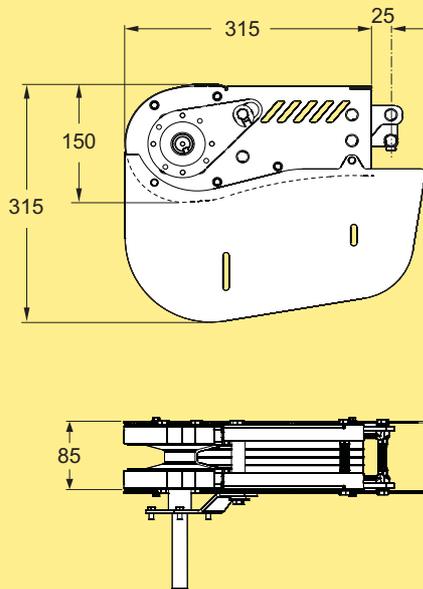
No: No hybrid cable
 C: Hybrid cable included in SEW Movimot
 (position is omitted for fixed speed motors)

K – Fieldbus

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

PO
 X70X
 X85X
 X180X
 X300X
 WL
 222X
 WL
 273X
 WL
 374X
 WL
 526X
 WL
 678X
 CSX
 GRX
 FSTX
 TR
 APX
 IDX

End drive unit, direct drive, no slip clutch



End drive unit

Direct drive. No slip clutch.

Maximum traction force: up to 1250 N.

Maximum speed 120 m/min for X85X.

Motor on left side:

Fixed/variable speed *

Without motor

XBEBX A85

XBEBX 0A85HNLP

Motor on right side (not shown):

Fixed/variable speed *

Without motor

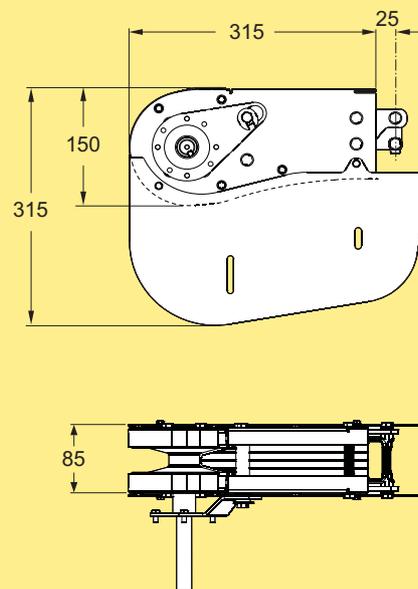
XBEBX A85

XBEBX 0A85HNRP

* Use online configurator when ordering.

Effective track length: 0,70 m

End drive unit, direct drive, no slip clutch



End drive unit

Direct drive. No slip clutch.

Maximum traction force: up to 1250 N.

Maximum speed 120 m/min for X85X.

Motor on left side:

Fixed/variable speed *

Without motor

XBEBX A85C

XBEBX 0A85HNLPC

Motor on right side (not shown):

Fixed/variable speed *

Without motor

XBEBX A85C

XBEBX 0A85HNRPC

* Use online configurator when ordering.

Effective track length: 0,70 m

Guide wheel kit



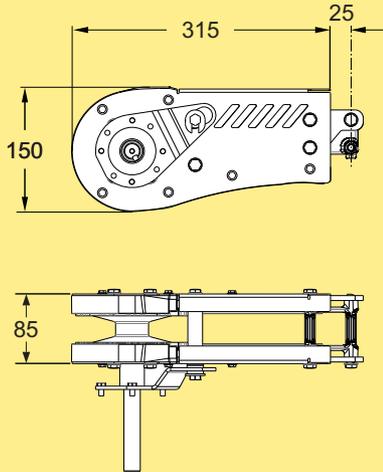
Guide wheel for drive units

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).

End drive unit, guided chain, no slip clutch



End drive unit

Direct drive with guided chain. No slip clutch.
 Maximum traction force: up to 1250 N.
 Maximum speed 120 m/min for X85X.

Motor on left side:

Fixed/variable speed * **XBEBX A85**
 Without motor **XBEBX 0A85HNLGP**

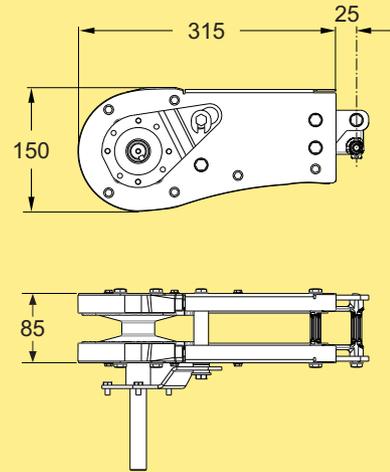
Motor on right side (not shown):

Fixed/variable speed * **XBEBX A85**
 Without motor **XBEBX 0A85HNRGP**

** Use online configurator when ordering.*

Effective track length: 0,70 m

End drive unit, guided chain, no slip clutch



End drive unit

Direct drive with guided chain. No slip clutch.
 Maximum traction force: up to 1250 N.
 Maximum speed 120 m/min for X85X.

Motor on left side:

Fixed/variable speed * **XBEBX A85C**
 Without motor **XBEBX 0A85HNLGPC**

Motor on right side (not shown):

Fixed/variable speed * **XBEBX A85C**
 Without motor **XBEBX 0A85HNRGPC**

** Use online configurator when ordering.*

Effective track length: 0,70 m

PO

X70X

X85X

X180X

X300X

WL

222X

WL

273X

WL

374X

WL

526X

WL

678X

CSX

GRX

FSTX

TR

APX

IDX

Idler end unit

Idler end unit X85X **XBEJX A85**
Effective track length: 0,70 m.

Protective cover for Idler end unit

Protective cover for Idler end unit **XBSJX A85**
XBEJX A85

Idler end unit

Idler end unit X85X **XBEJX A85C**
Effective track length: 0,70 m.

Idler end unit, Compact

Idler end unit X85X **XBEJX A85 S**
Effective track length: 0,35 m.

Protective cover for Idler end unit, Compact

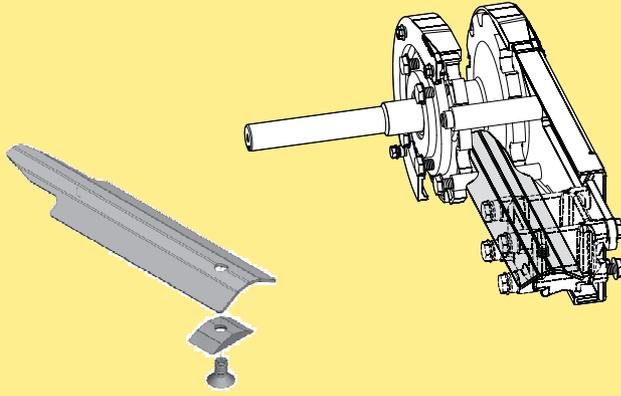
Protective cover for Idler end unit **XBSJX A85 S**
XBEJX A85 S

Note!

Always consider protective cover for idler ends when closed top chain XBTP 5A85 V is used.

Drip catcher

Drip catcher kit

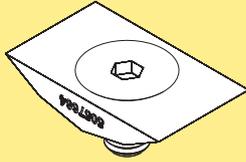


Drip catcher kit

5114763

For drive units and idler ends, to be used together with conveyor beams type Y with protected return beams including 5114562 Screw kit.

Screw kit



Screw kit

5114562

For return beam, type Y, 85 mm, or Drip catcher kit.

PO

X70X

X85X

X180X

X300X

WL
222X

WL
273X

WL
374X

WL
526X

WL
678X

CSX

GRX

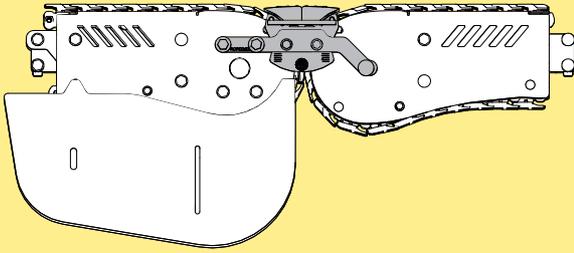
FSTX

TR

APX

IDX

Passive bridge from conveyor to conveyor



Passive bridge*

XBNGX A85

<i>From:</i>	<i>To:</i>
Heavy Drive unit	Heavy Idler
Heavy Drive unit	Compact Idler

* Use online configurator when ordering.

Attachment wire

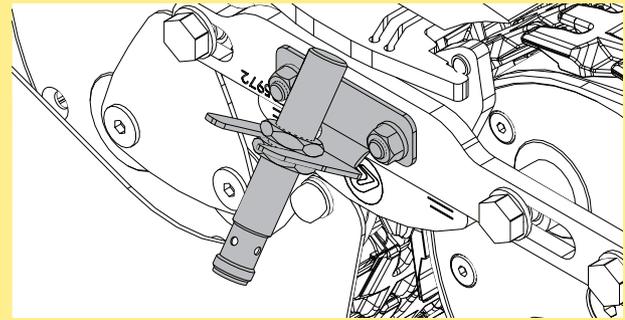


Wire for attaching roller to holder

FLX1006041

*Also available as a configuration option through XBNGX A85.

Sensor Kit



Bridge in position sensor kit

On bridge
On beam

FLX1006042

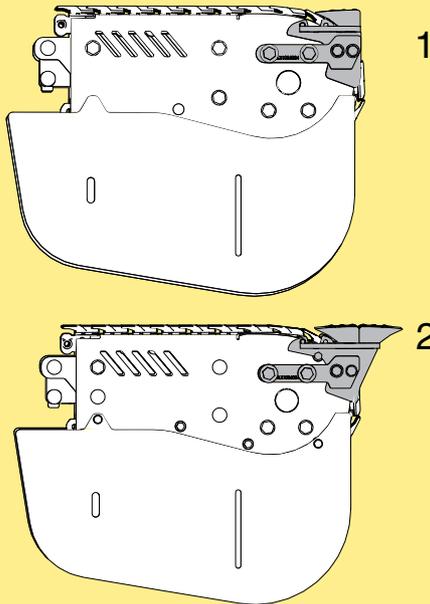
FLX1006044

*Also available as a configuration option through XBNGX A85.

*Note

Bridges can not be used with cleated chain.

Passive bridge, connecting drive/idler to machine or external application



Passive bridge*

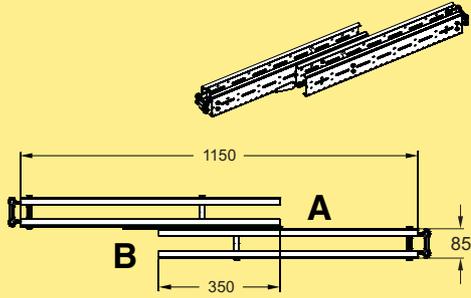
Single roller (1) or Double roller (2) **XBNGX A85**

<i>From:</i>	<i>To:</i>
Heavy Drive	External
External	Heavy Idler
External	Compact Idler

* Use online configurator when ordering.

Transfer units

Side transfer, right

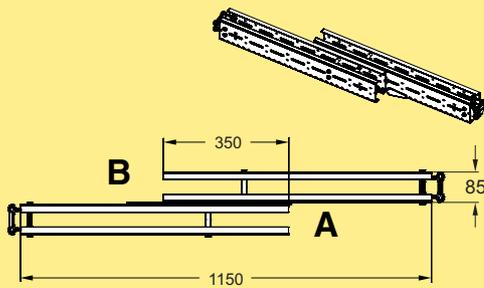


Side transfer

For optional mounting of Idler end unit or Drive unit at the end (A) or (B) **XBCPX 85 R**

Effective track length: 3 m

Side transfer, left

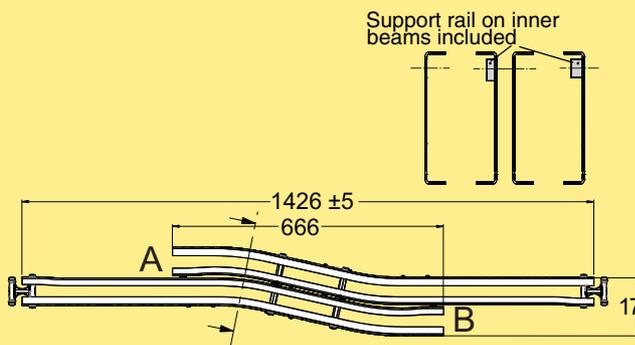


Side transfer

For optional mounting of Idler end unit or Drive unit at the end (A) or (B) **XBCPX 85 L**

Effective track length: 2,84 m

S-Transfer, right



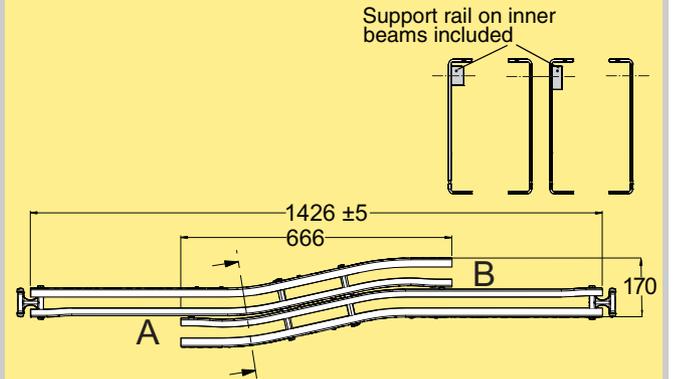
S-transfer for return chain

For optional mounting of Idler end unit or Drive unit at the end (A) or (B)

XBCYX A85 DR

Effective track length: 4,2 m

S-Transfer, left



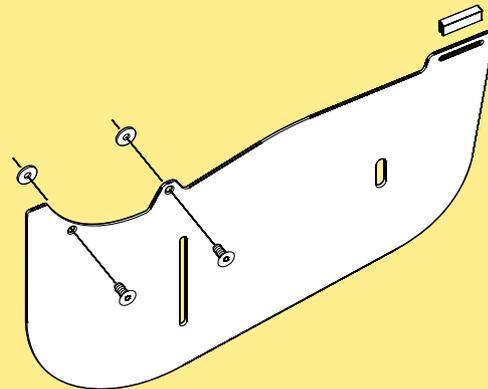
S-transfer for return chain

For optional mounting of Idler end unit or Drive unit at the end (A) or (B)

XBCYX A85 DL

Effective track length: 4,2 m

Slack protection kit



Slack protection kit

5115027

Recommended use when Side transfer is installed with End drive unit, direct drive, no slip clutch.

PO

X70X

X85X

X180X

X300X

WL

222X

WL

273X

WL

374X

WL

526X

WL

678X

CSX

GRX

FSTX

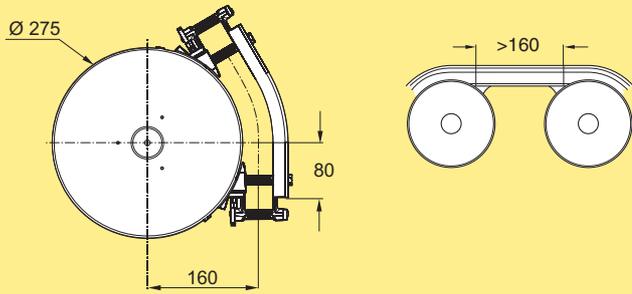
TR

APX

IDX

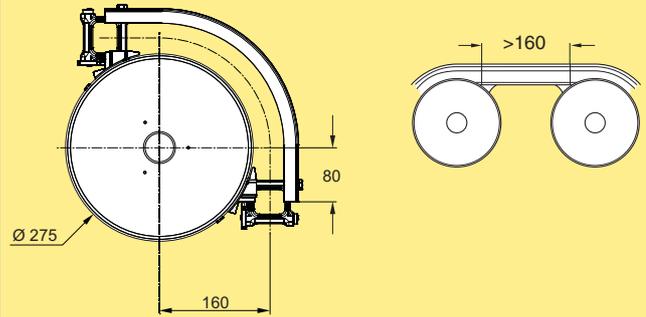
Wheel bends X85X

Wheel bend, 30°



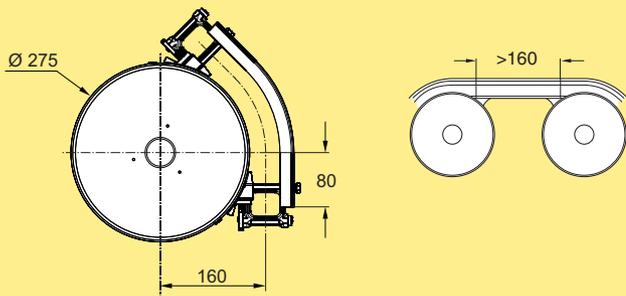
Wheel bend, 30°
 Wheel bend, 30° type C
XBBHX 30A85R160
XBBHX 30A85R16C
 Effective track length (top + bottom): 0,50 m

Wheel bend, 90°



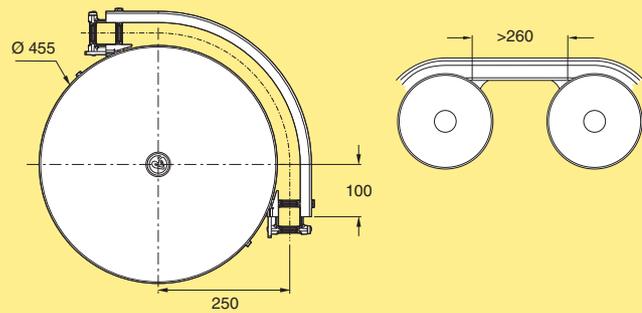
Wheel bend, 90°
 Wheel bend, 90° type C
XBBHX 90A85R160
XBBHX 90A85R16C
 Effective track length (top + bottom): 0,85 m

Wheel bend, 45°



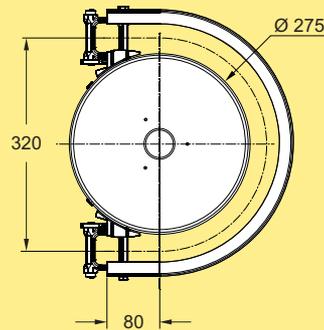
Wheel bend, 45°
 Wheel bend, 45° type C
XBBHX 45A85R160
XBBHX 45A85R16C
 Effective track length (top + bottom): 0,60 m

Wheel bend, 90°



Wheel bend, 90°
XBBHX 90A85R250
 Effective track length (top + bottom): 1,2 m

Wheel bend, 180°



Wheel bend, 180°
 Wheel bend, 180° type C
XBBHX180A85R160
XBBHX180A85R16C
 Effective track length (top + bottom): 1,35 m

Plain bends

Item no	Angle (a)	Radius (R)	Effective track length	Slide rails (m)
XBBPX 30A85R5	30°	500 mm	0,70 m (1,40 m 2-way)	2,70 m
XBBPX 30A85R7	30°	700 mm	0,80 m (1,60 m 2-way)	3,10 m
XBBPX 30A85R10	30°	1000 mm	0,92 m (1,85 m 2-way)	3,70 m
XBBPX 45A85R5	45°	500 mm	0,80 m (1,60 m 2-way)	3,20 m
XBBPX 45A85R7	45°	700 mm	0,95 m (1,90 m 2-way)	3,80 m
XBBPX 45A85R10	45°	1000 mm	1,12 m (2,40 m 2-way)	4,70 m
XBBPX 90A85R5	90°	500 mm	1,20 m (2,40 m 2-way)	4,50 m
XBBPX 90A85R7	90°	700 mm	1,50 m (3,0 m 2-way)	5,60 m
XBBPX 90A85R10	90°	1000 mm	2,00 m (4,0 m 2-way)	7,80 m

Plain bend, 30°

Support rail on inner beam included

Plain bend, 30° X85X
R=500 mm
R=700 mm
R=1000 mm

**XBBPX 30A85R5
XBBPX 30A85R7
XBBPX 30A85R10**

Plain bend, 90°

Support rail on inner beam included

Plain bend, 90° X85X
R=500 mm
R=700 mm
R=1000 mm

**XBBPX 90A85R5
XBBPX 90A85R7
XBBPX 90A85R10**

Plain bends, 45°

Support rail on inner beam included

Plain bend, 45° X85X
R=500 mm
R=700 mm
R=1000 mm

**XBBPX 45A85R5
XBBPX 45A85R7
XBBPX 45A85R10**

Support rail for plain bends (spare part)

Support rail for plain bends,
Length 2,4 m

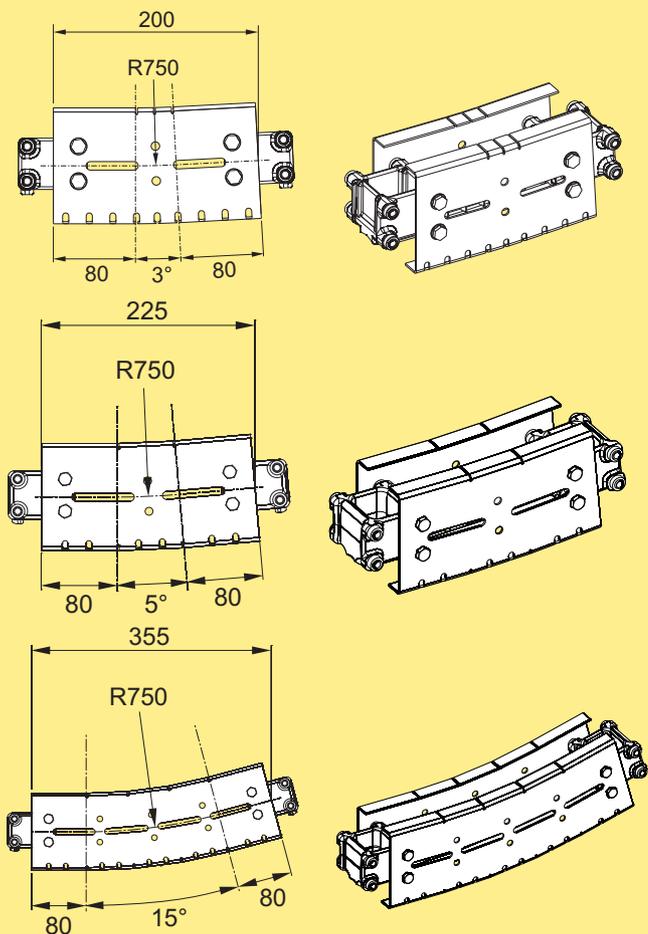
5048598

Fix with sheet metal screw ISO 7049 4,2x9,5 or similar.

PO
X70X
X85X
X180X
X300X
WL 222X
WL 273X
WL 374X
WL 526X
WL 678X
CSX
GRX
FSTX
TR
APX
IDX

Vertical bends

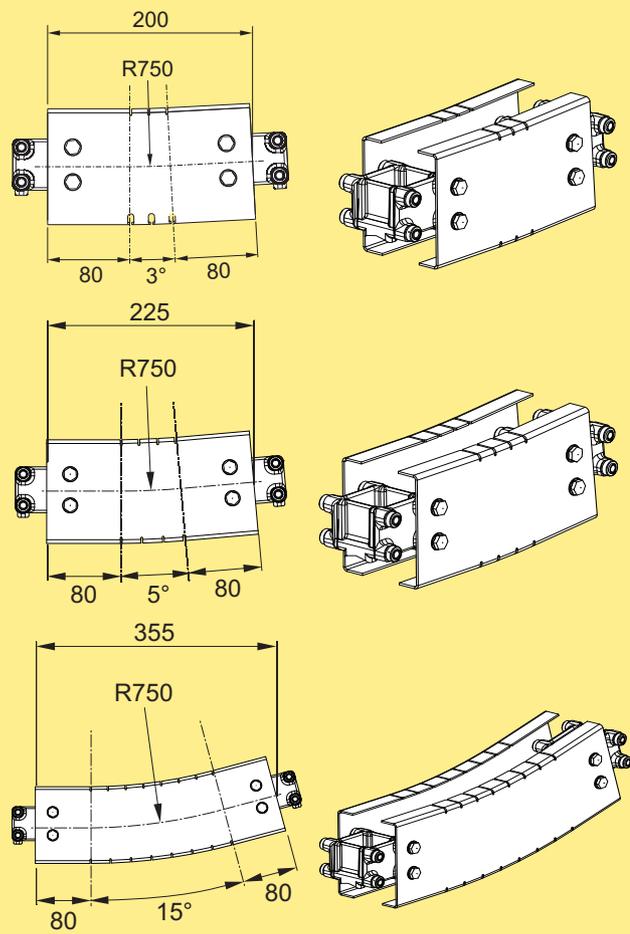
Vertical bend, positive angle



- Vertical bend, pos., 3° **XBBVX 3A85R7P**
- Vertical bend, pos., 5° **XBBVX 5A85R7P**
- Vertical bend, pos., 15° **XBBVX 15A85R7P**

Effective track length (top + bottom): 5°: 0,50 m, 15°: 0,75 m

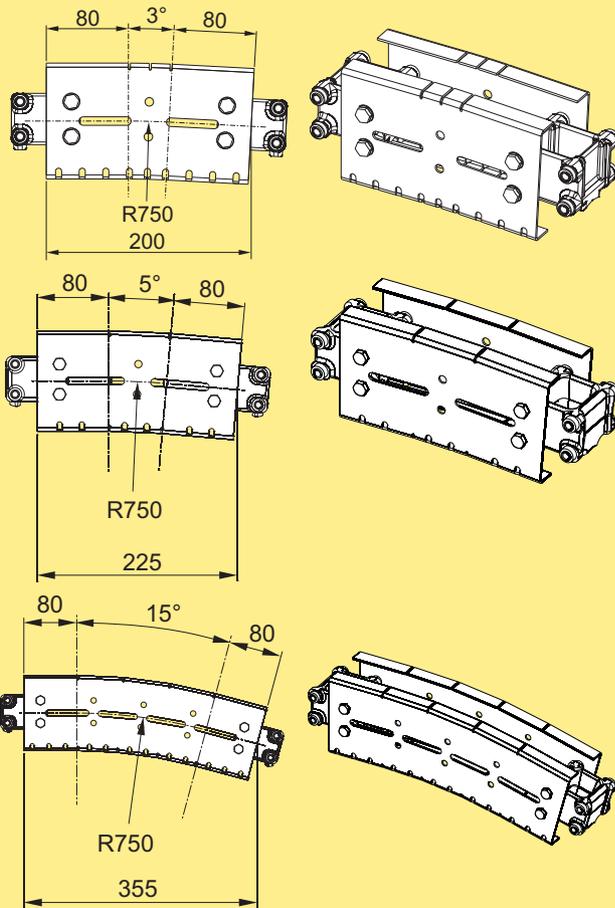
Vertical bend, positive angle



- Vertical bend, pos., 3° **XBBVX 3A85R7PC**
- Vertical bend, pos., 5° **XBBVX 5A85R7PC**
- Vertical bend, pos., 15° **XBBVX 15A85R7PC**

Effective track length (top + bottom): 5°: 0,50 m, 15°: 0,75 m

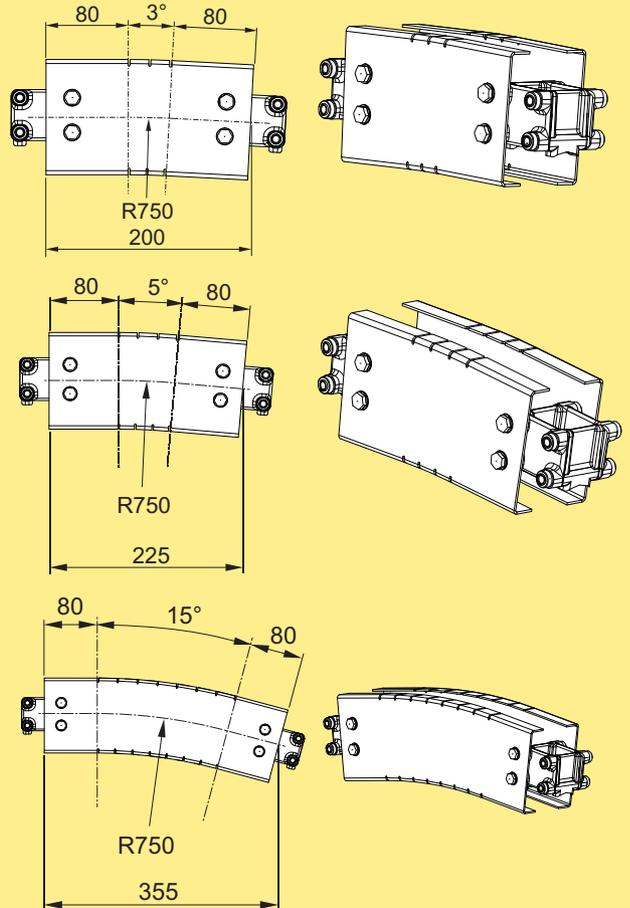
Vertical bend, negative angle



Vertical bend, neg., 3° **XBBVX 3A85R7N**
 Vertical bend, neg., 5° **XBBVX 5A85R7N**
 Vertical bend, neg., 15° **XBBVX 15A85R7N**

Effective track length (top + bottom): 5°: 0,50 m, 15°: 0,75 m

Vertical bend, negative angle



Vertical bend, neg., 3° **XBBVX 3A85R7NC**
 Vertical bend, neg., 5° **XBBVX 5A85R7NC**
 Vertical bend, neg., 15° **XBBVX 15A85R7NC**

Effective track length (top + bottom): 5°: 0,50 m, 15°: 0,75 m

- P0
- X70X
- X85X**
- X180X
- X300X
- WL 222X
- WL 273X
- WL 374X
- WL 526X
- WL 678X
- CSX
- GRX
- FSTX
- TR
- APX
- IDX

