Stainless steel conveyor system X85X

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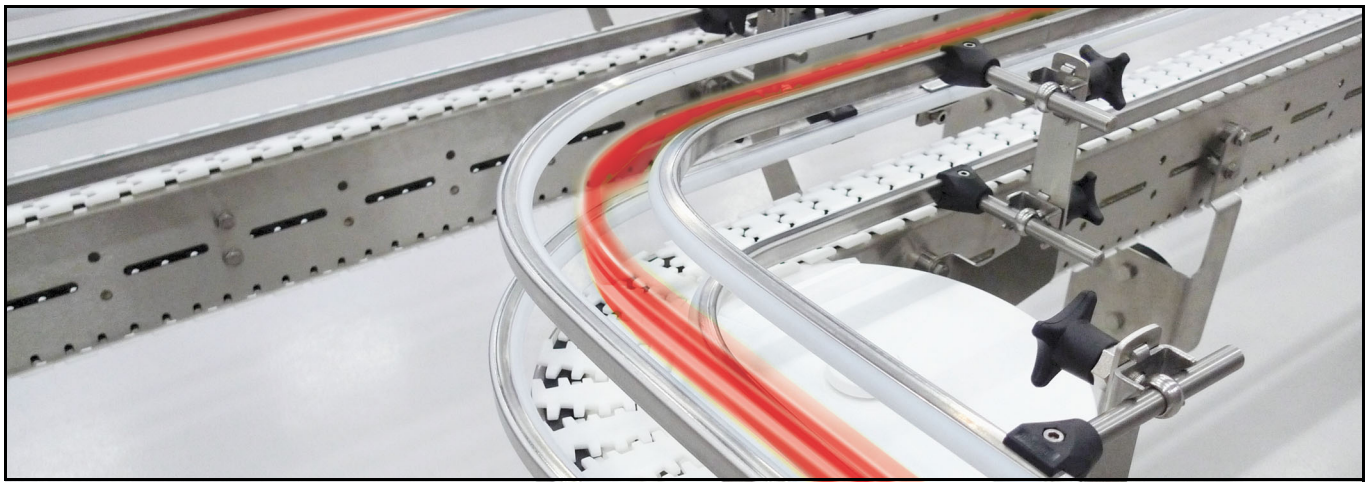
System information



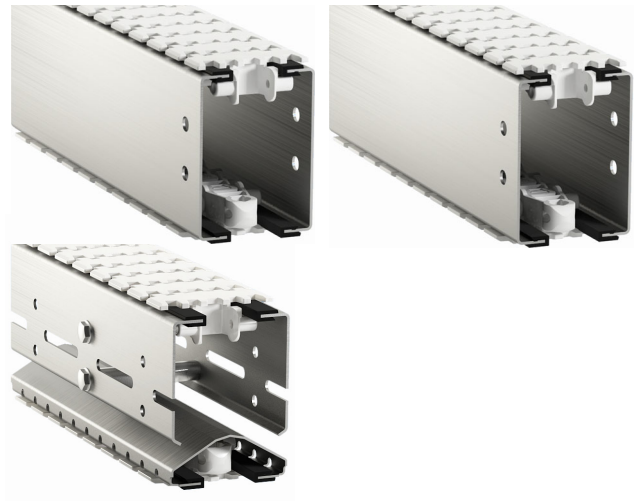
Conveyor with focus on robustness and cleanliness

The stainless steel conveyor X85X was designed to suit the requirements of food, personal products, cosmetic, pharmaceutical and dairy applications.

Environment

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

Chain width 83 mm



Improved cleanliness conveyor

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

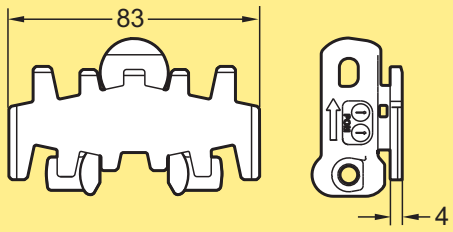
Compatibility

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

Plain chain

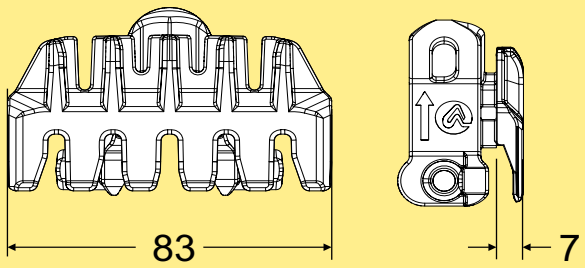


Plain chain
Length 5 m
Standard material — **XBTPX 5A85**
Ultra low wear — **XBTP 5A85 C**

Plain link kit *
Standard material — **5110512**
Ultra low wear — **5110533**

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

Plain chain

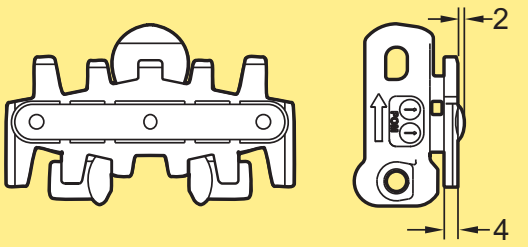


Plain chain
Length 5 m — **XBTPX 5A85 K**

Plain chain link kit * — **FLX1003437**

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

Friction top chain

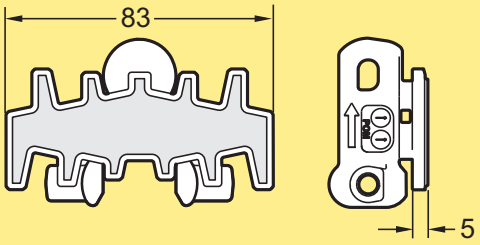


Friction top chain
Length 5 m
All links are friction type — **XBTP 5A85 F**
Every 2nd link is friction type — **XBTP 5A85 F2**

Friction top link kit * — **5110518**

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

Flat friction top chain

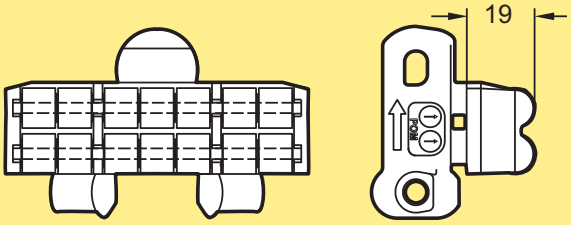


Flat friction top chain
Length 5 m — **XBTP 5A85 FA**

Friction top link kit * — **5110528**

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

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*

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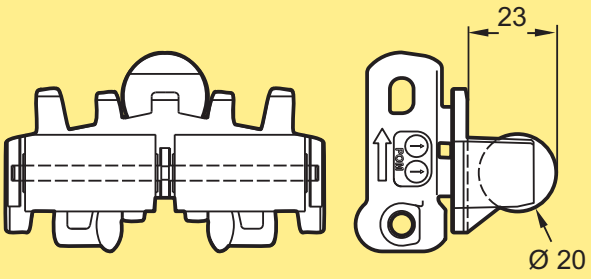
Chain with 23 mm roller cleats



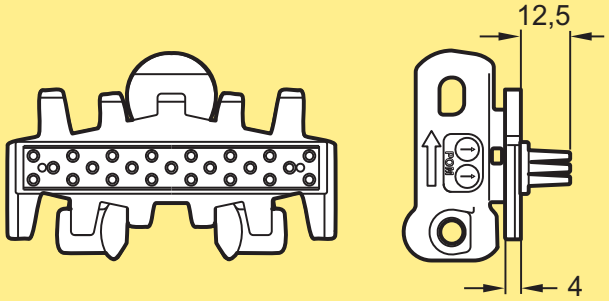
Chain with 23 mm roller cleats *
Length 5 m **XBTF 5A85×23 R**

** 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 B



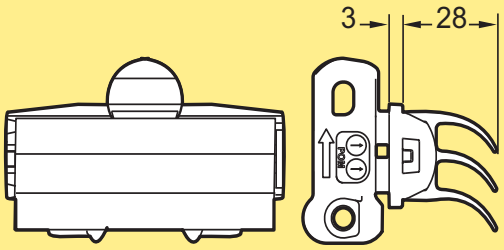
Flexible cleat chain Type B *
Length 5 m **XBTE 5A85 B**

** 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*

Flexible cleat chain, Type C



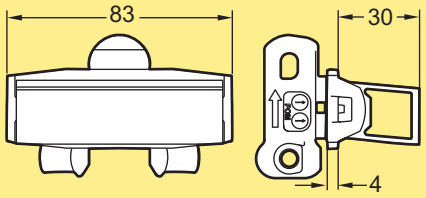
Flexible cleat chain Type C
Length 5 m **XBTE 5A85 C**

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*

Flexible cleat chain, Type D



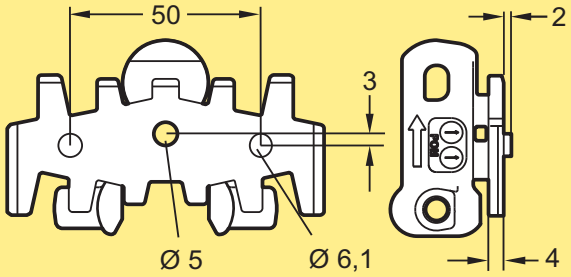
Flexible cleat chain Type D
Length 5 m **XBTE 5A85 D**

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*

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*

Other chains

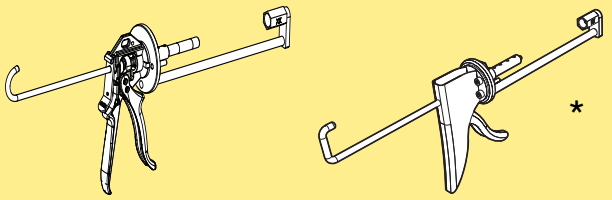
See the Chain guide for selection of other chains.

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.

Chain accessories

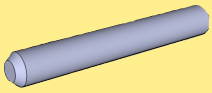
Pin insertion tool for chain



Pin insertion tool PRO version*	**XMMJ 6** **XBMJ 6 P**

**This tool is recommended for frequent users*

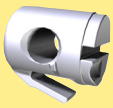
Stainless steel pin



Steel pin Stainless steel	**5111172**

Steel pin kit, 25 pc

Plastic pivot for chain



Plastic pivot kit	**5111169**

Spare parts kit, contains 25 pcs

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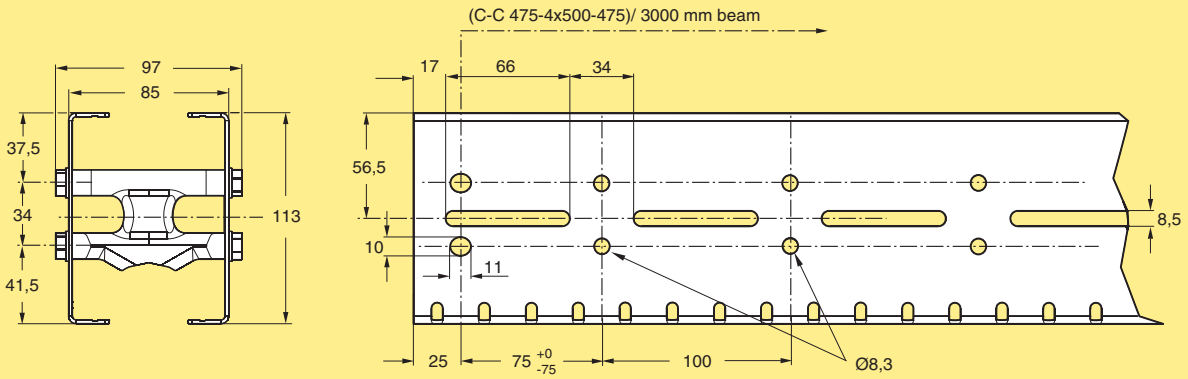
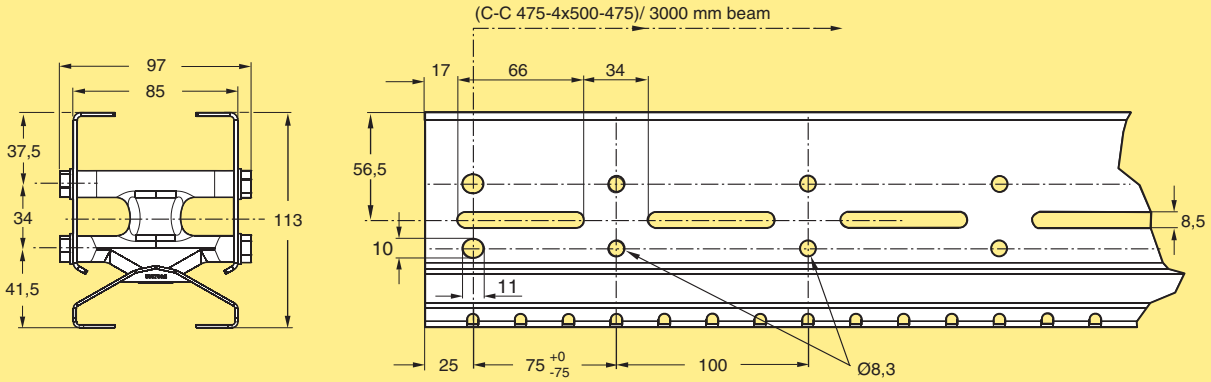
Conveyor beam, type X, 85 mm



Conveyor Beam
Length 3 m (3000 ±1,5 mm) **XBCBX 3A85**
Length to order (150- 2999 mm) **XBCBX LA85**

All X85X beams are delivered fully assembled.

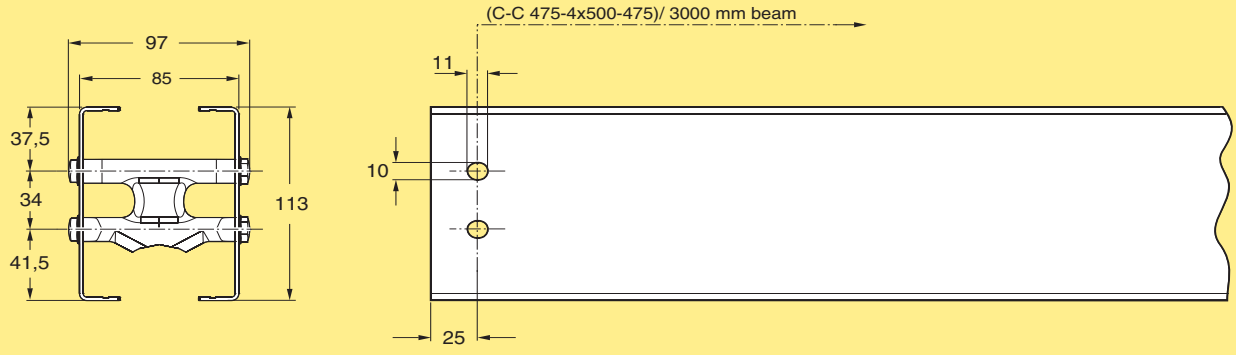
Conveyor beam, type Y, 85 mm



Conveyor Beam
Length 3 m (3000 ±1,5 mm) **XBCBX 3A85Y**
Length to order (150- 2999 mm) **XBCBX LA85Y**

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

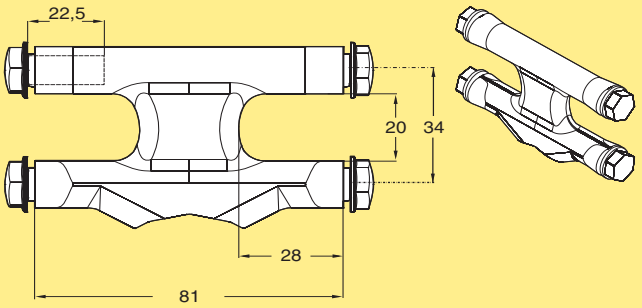
Conveyor beam, type C, 85 mm



Conveyor Beam
Length 3 m (3000 ±1,5 mm) **XBCBX 3A85C**
Length to order (150- 2999 mm) **XBCBX LA85C**

All X85X beams are delivered fully assembled.

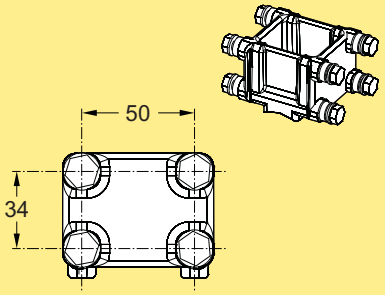
Beam spacer kit



Beam spacer kit for X85X
Stainless steel **XBCEX A85**

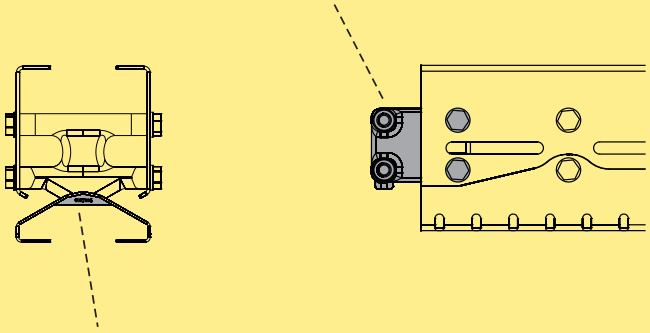
Including screws.
The beams have predrilled 8,3 mm holes at 100 mm intervals that need to be increased to 10 mm see figure.

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.

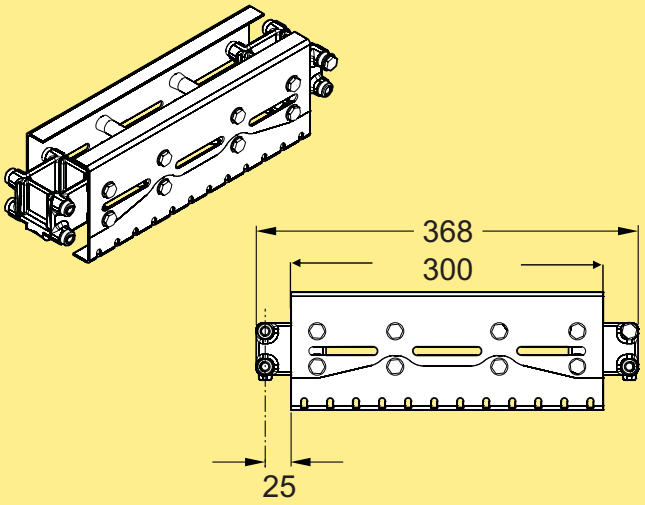


Screw kit

Screw kit **5114562**

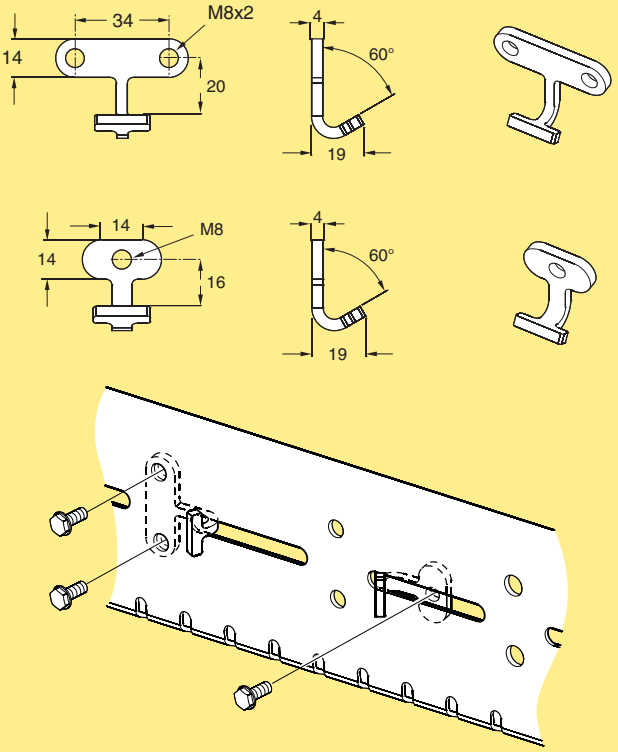
For return beam, type Y, 85 mm, or Drip catcher kit.

Beam section for chain installation



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

Nut, stainless steel



Nut 2xM8 **5113998**
Nut 1xM8 **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.

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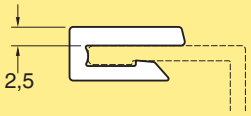
Slide rails

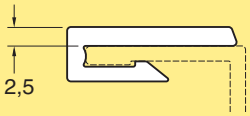
Plastic slide rails, narrow



Slide rail
Length 25 m

HDPE (Black)	**XBCR 25**
PE-UHMV (White)	**XBCR 25 U**
PVDF (Transparent white)	**XBCR 25 P**
PA-PE (Grey) (Should not be used in wet applications)	**XBCR 25 H**

Plastic slide rails, wide

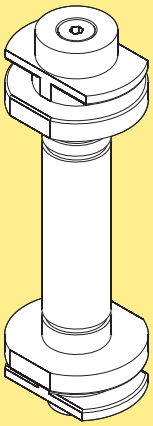


Slide rail
Length 25 m

HDPE (Black)	**XBCR 25 B**
PE-UHMV (White)	**XBCR 25 UB**
PVDF (Transparent white)	**XBCR 25 PB**
PA-PE (Grey) (Should not be used in wet applications)	**XBCR 25 HB**

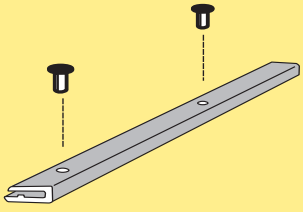
Note. The wide slide rails are not suitable for use in bends.

Mounting tool for slide rail



Mounting tool for slide rail **XBMR 170**

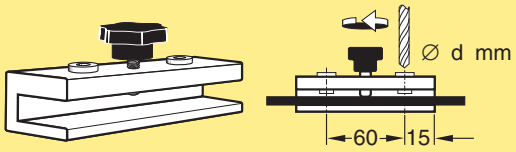
Stainless steel rivet



Stainless steel rivet, 4 mm **XLAHX 4×7**

Note. Contains 25 pcs.

Drill fixture for slide rail

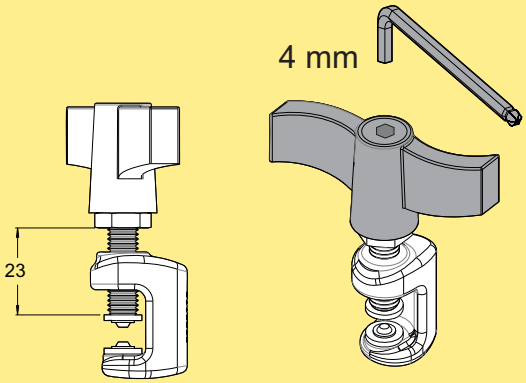


Drill fixture for slide rail
d=4,2 mm **3920500**

Rivet crimping pliers

Rivet crimping pliers
For 4 mm rivets **5051395**

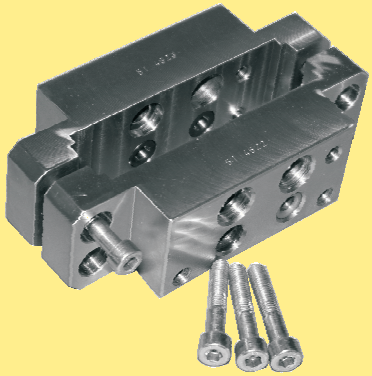
Rivet crimping clamp



Rivet crimping clamp
For 4 mm rivets
(note: Allen key not included) **3923005**

Tools for conveyor beam

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, head and acid-proof steels (up to 1400 N/mm² tensile strength).

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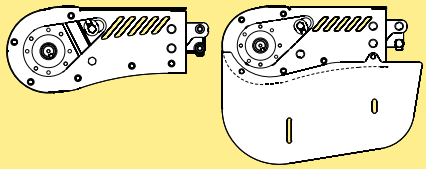
Drive unit types

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)

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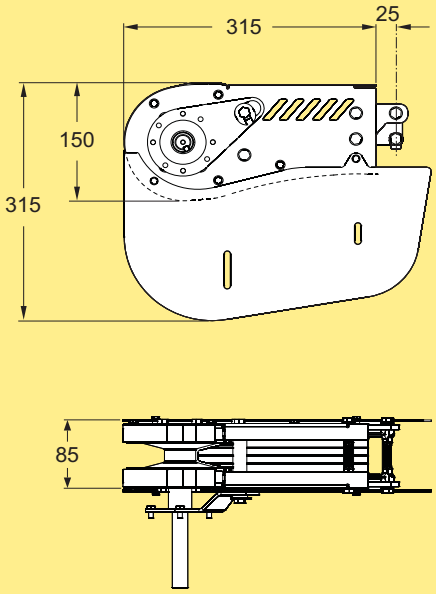
End drive units

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 *	XBEBX A85
Without motor	**XBEBX 0A85HNLP**

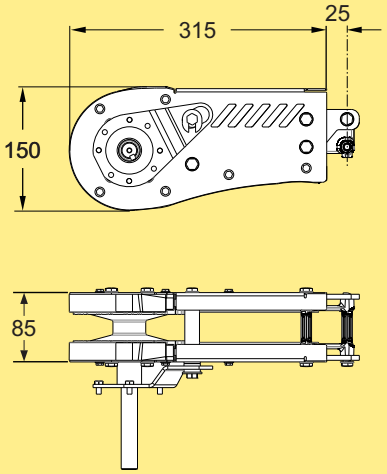
Motor on right side (not shown):

Fixed/variable speed *	XBEBX A85
Without motor	**XBEBX 0A85HNRP**

** 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 A85
Without motor	**XBEBX 0A85HNLGP**

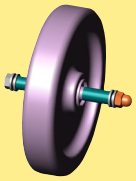
Motor on right side (not shown):

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

** Use online configurator when ordering.*

Effective track length: 0,70 m

Guide wheel kit

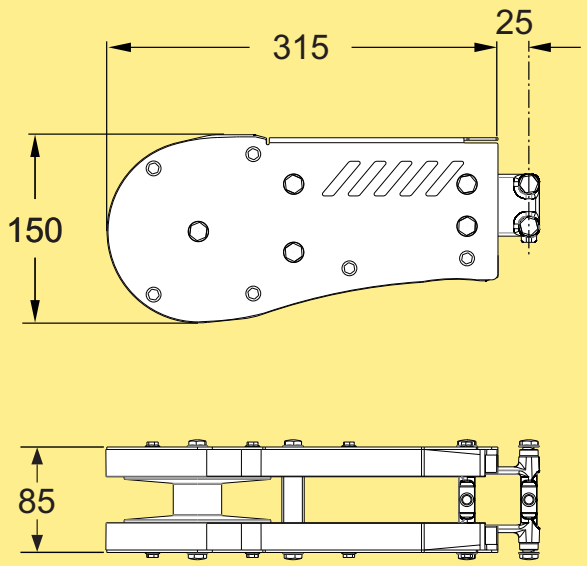


Guide wheel for drive units **5055635**

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).

Idler units

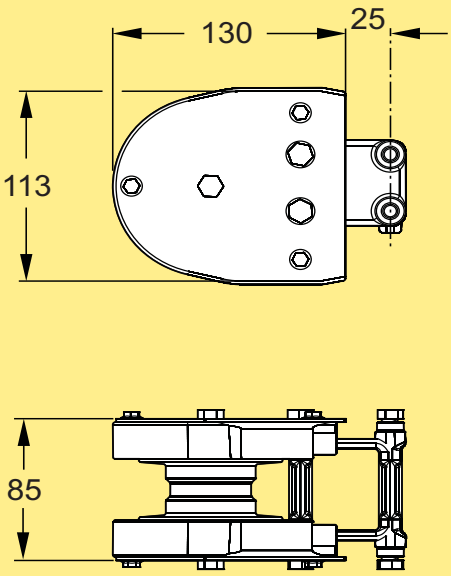
Idler end unit



Idler end unit X85X **XBEJX A85**

Effective track length: 0,70 m.

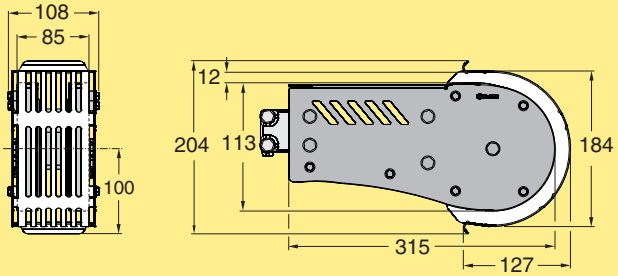
Idler end unit, Compact



Idler end unit X85X **XBEJX A85 S**

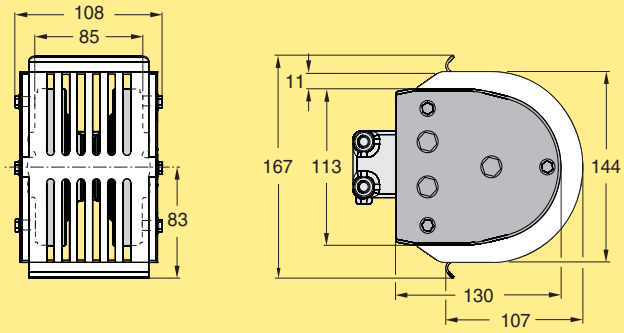
Effective track length: 0,35 m.

Protective cover for Idler end unit



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

Protective cover for Idler end unit, Compact



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

Note!

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

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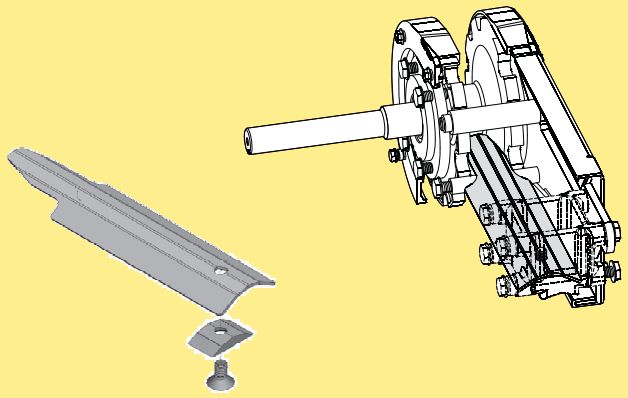
Drip catcher

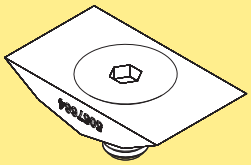
Drip catcher kit



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.

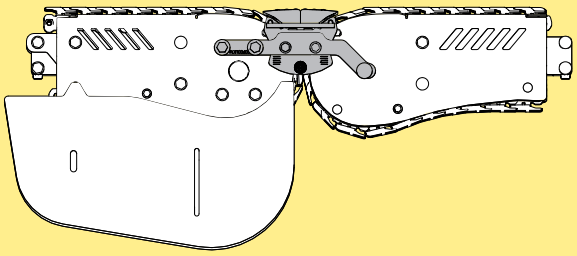
Screw kit



Screw kit **5114562**

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

Passive bridge from conveyor to conveyor

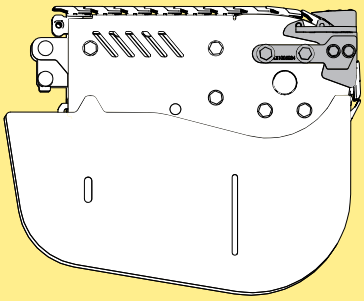


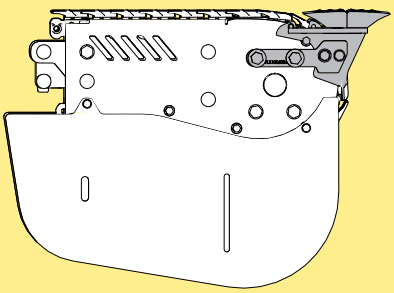
Passive bridge* **XBNGX A85**

From:	*To:*
Heavy Drive unit	Heavy Idler
Heavy Drive unit	Compact Idler

** Use online configurator when ordering.*

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



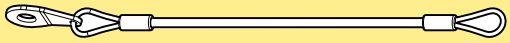


Passive bridge*
Single roller (1) or Double roller (2) **XBNGX A85**

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

** Use online configurator when ordering.*

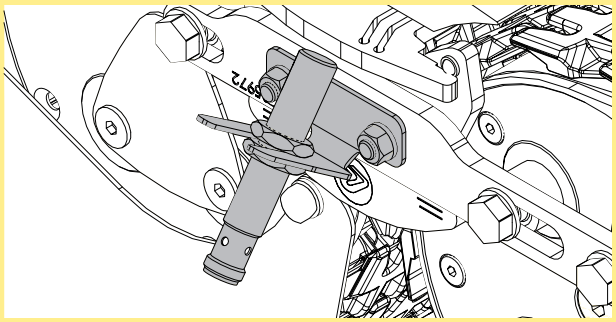
Attachment wire



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 **FLX1006042**
On beam **FLX1006044**

**Also available as a configuration option through XBNGX A85.*

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

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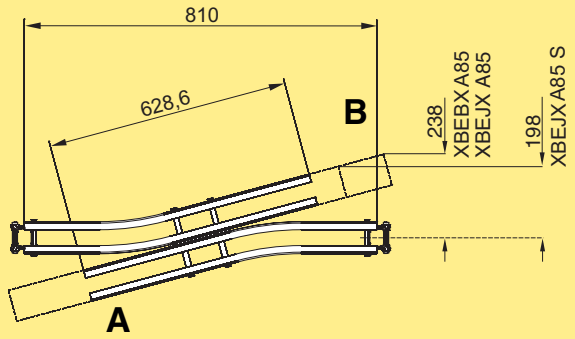
X-bend, left

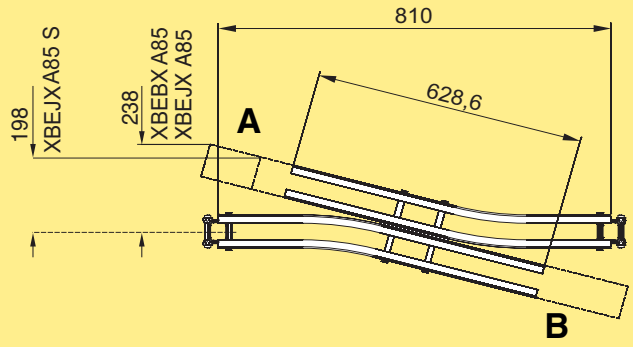


X-bend for return chain

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

Effective track length: 2,84 m

X-bend, right

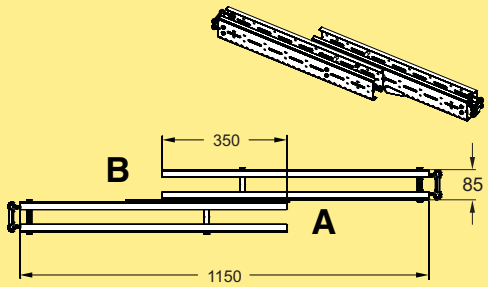


X-bend for return chain

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

Effective track length: 2,84 m

Side transfer, left

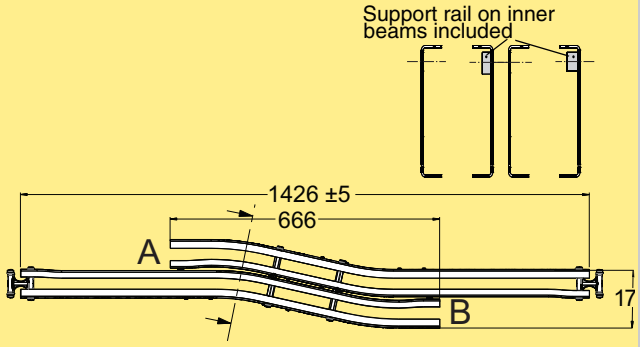


Side transfer

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

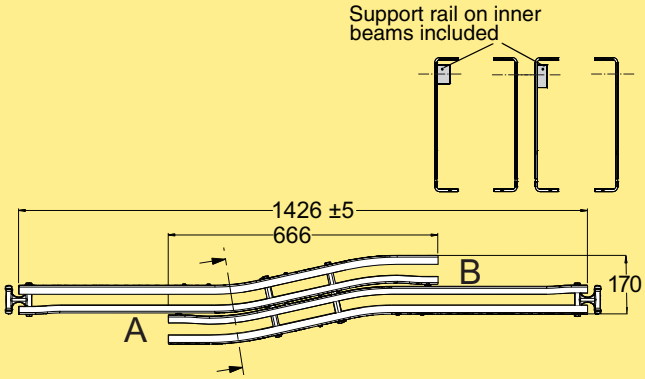


S-transfer for return chain

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

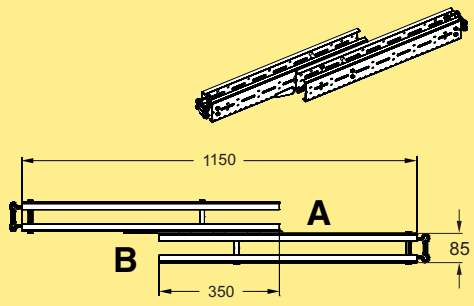


S-transfer for return chain

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

Side transfer, right

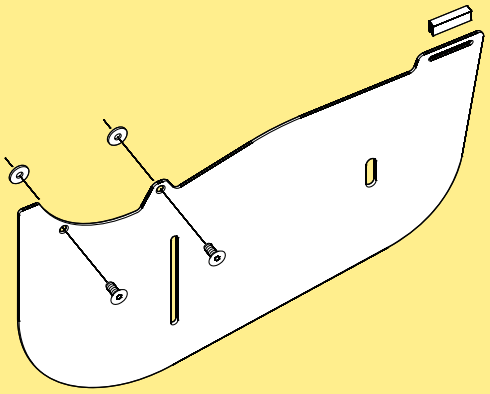


Side transfer

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

Effective track length: 3 m

Slack protection kit



Slack protection kit **5115027**

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

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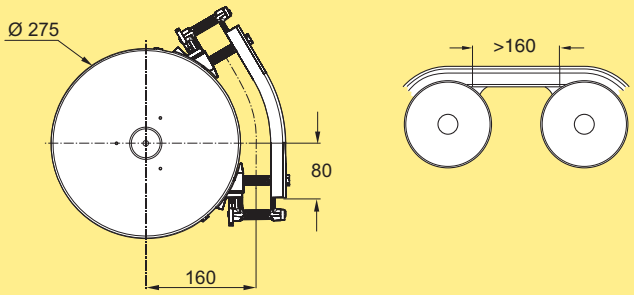
Wheel bends X85X

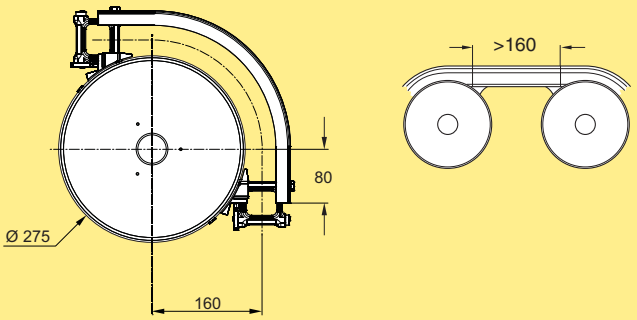
Wheel bend, 30°



Wheel bend, 30° **XBBHX 30A85R160**
Wheel bend, 30° type C **XBBHX 30A85R16C**

Effective track length (top + bottom): 0,50 m

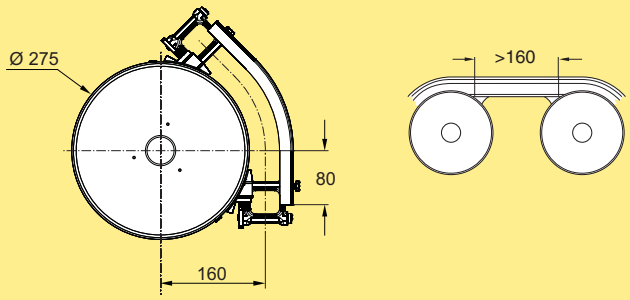
Wheel bend, 90°



Wheel bend, 90° **XBBHX 90A85R160**
Wheel bend, 90° type C **XBBHX 90A85R16C**

Effective track length (top + bottom): 0,85 m

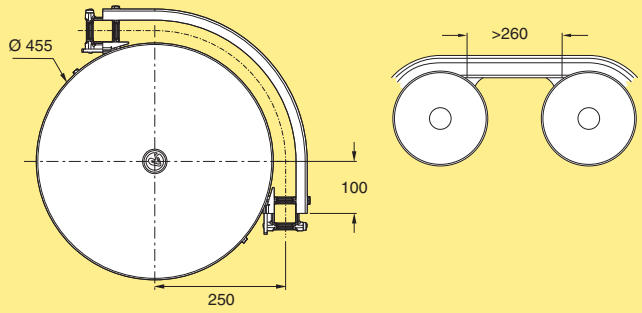
Wheel bend, 45°



Wheel bend, 45° **XBBHX 45A85R160**
Wheel bend, 45° type C **XBBHX 45A85R16C**

Effective track length (top + bottom): 0,60 m

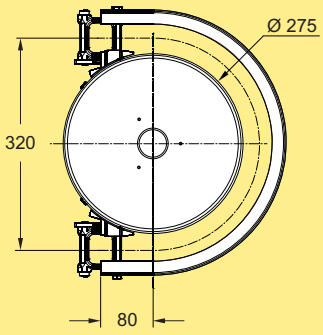
Wheel bend, 90°



Wheel bend, 90° **XBBHX 90A85R250**

Effective track length (top + bottom): 1,2 m

Wheel bend, 180°



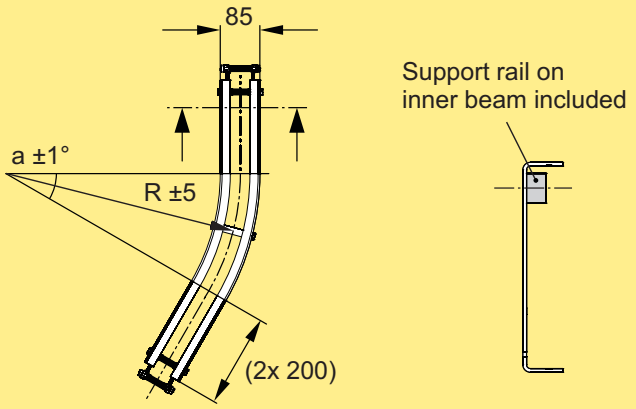
Wheel bend, 180° **XBBHX180A85R160**
Wheel bend, 180° type C **XBBHX180A85R16C**

Effective track length (top + bottom): 1,35 m

Plain bends

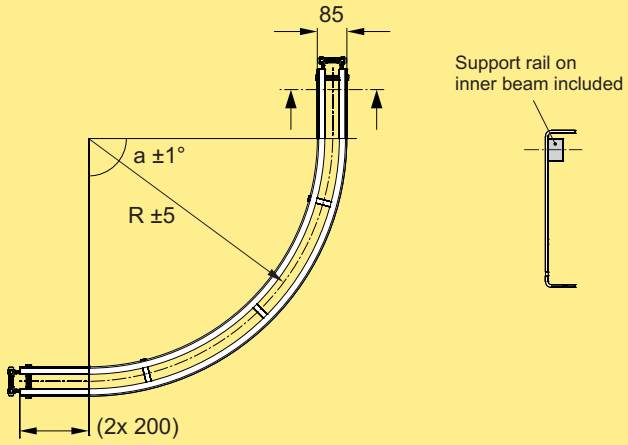
Item no	Angle (a)	Radius (R)	Effective track length	Slide rails (m)
XBBPX 30A85R5	30°	500 mm	0,70 m (1,40 m 2-way)	2,70 m
XBBPX 30A85R7	30°	700 mm	0,80 m (1,60 m 2-way)	3,10 m
XBBPX 30A85R10	30°	1000 mm	0,92 m (1,85 m 2-way)	3,70 m
XBBPX 45A85R5	45°	500 mm	0,80 m (1,60 m 2-way)	3,20 m
XBBPX 45A85R7	45°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



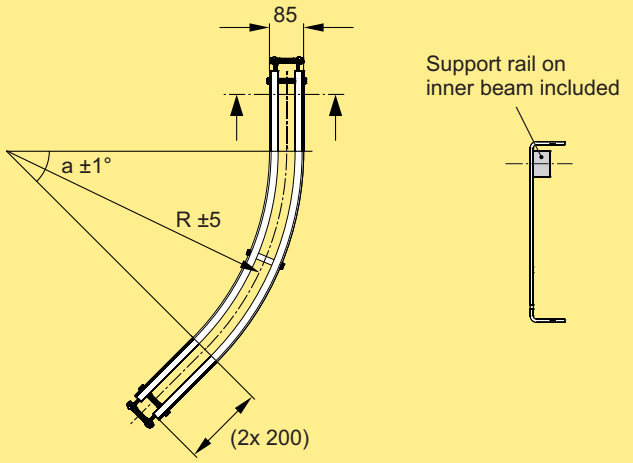
Plain bend, 30° X85X
R=500 mm **XBBPX 30A85R5**
R=700 mm **XBBPX 30A85R7**
R=1000 mm **XBBPX 30A85R10**

Plain bend, 90°



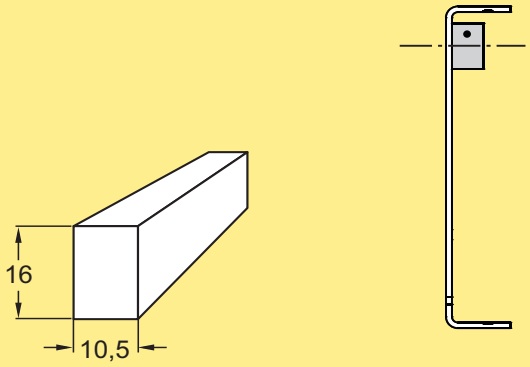
Plain bend, 90° X85X
R=500 mm **XBBPX 90A85R5**
R=700 mm **XBBPX 90A85R7**
R=1000 mm **XBBPX 90A85R10**

Plain bends, 45°



Plain bend, 45° X85X
R=500 mm **XBBPX 45A85R5**
R=700 mm **XBBPX 45A85R7**
R=1000 mm **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 4,2×9,5 or similar.

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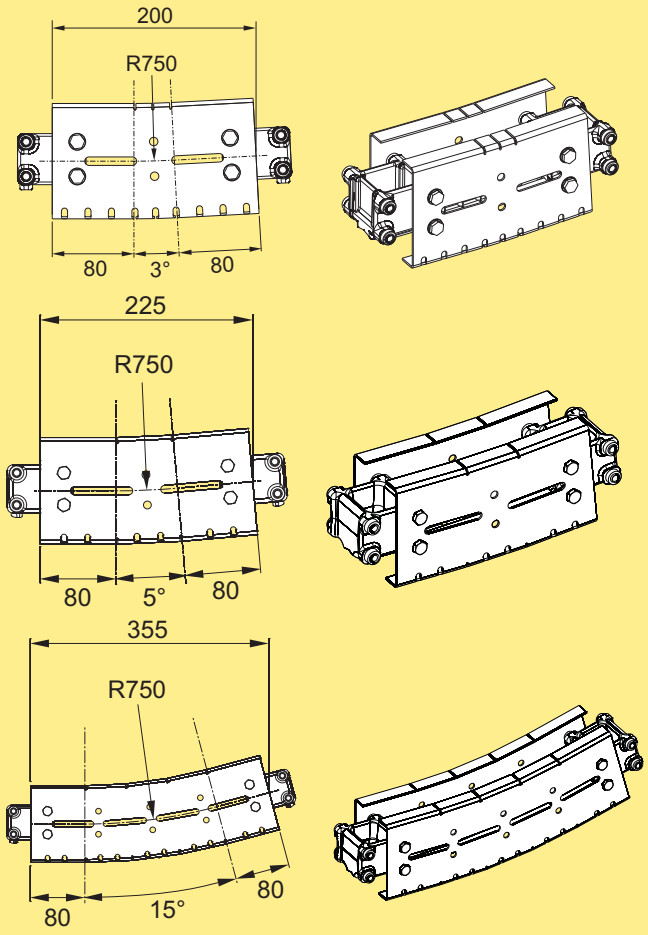
Vertical bends

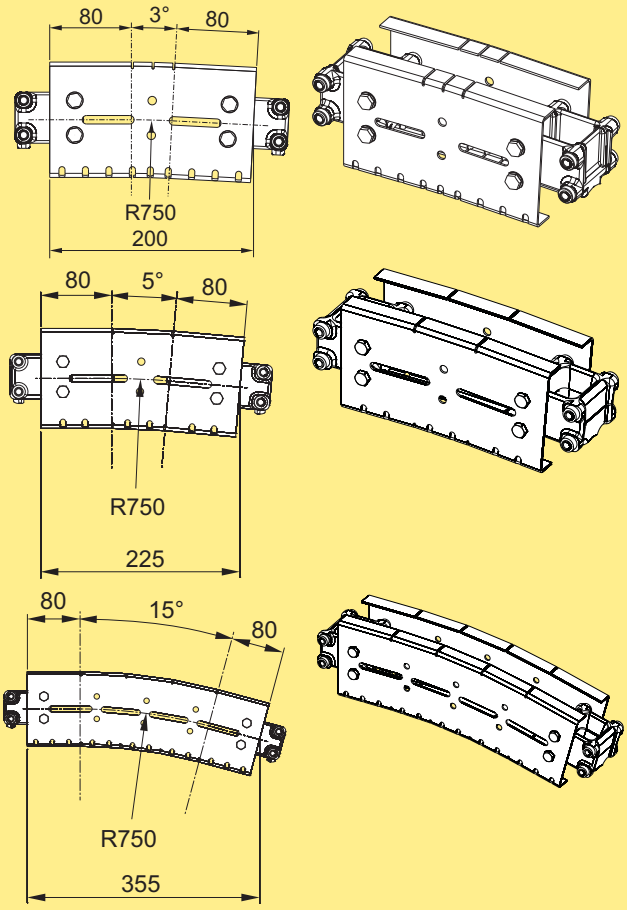
Vertical bend, positive angle



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, 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

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