FlexLink XM catalogue

FlexLink®

	Product overview	PO
Aluminium based systems	Conveyor system XS	XS
	Conveyor system XL	XL
	Pallet handling components XL	XLP
	Conveyor system XM	**XM**
	Pallet handling components XM	**XMP**
	Conveyor system XH	XH
	Conveyor system XK	XK
	Pallet handling components XK	XKP
	Conveyor system XB	XB
	Guide rail components	GR
	Conveyor support components	CS
	Modular pallet conveyor system XT	XT
	Structural system XC	XC
	Structural system XF	XF
	Fasteners	FST
Stainless steel systems	Hygienic conveyor system Series XMY	XMY
	Conveyor system Series XLX	XLX
	Conveyor system Series XMX	XMX
	Conveyor system Series XHX	XHX
	Guide rail components Series X	GRX
	Support components Series X	CSX
	Appendixes	APX
	Product index	IDX

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Patents

Essential parts of the FlexLink product range are protected by patents and design regulations.

Drawings are made to European standards.

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Conveyor system XM

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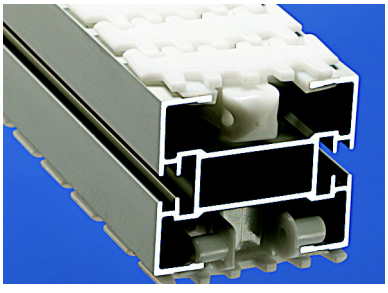
System information

Chain width 83 mm

The XM conveyor is also available in a stainless steel version.



Features

Suitable for a wide range of applications. Higher capacity than XS and XL. Includes components for pallet handling and vertical wedge conveyors.

Examples of application areas

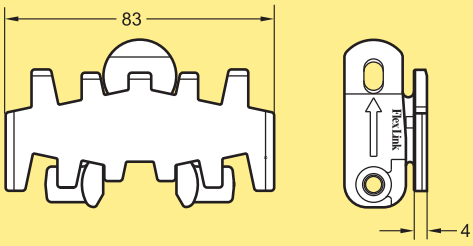
Ball valves, water meters, disk drives, pie packages, film cartridges, plastic bottles, beverage cans, products on pallets, paint cans, socks.

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	20–200 mm
	40–300 mm*
Maximum item weight	
Horizontal transport	15 kg
Vertical transport	10/2* kg
Maximum weight on conveyor	200/80* kg
Maximum conveyor length	30/8* m

*Applies to vertical wedge conveyor.

Plain chain



Plain chain
Length 5 m — **XMTP 5**

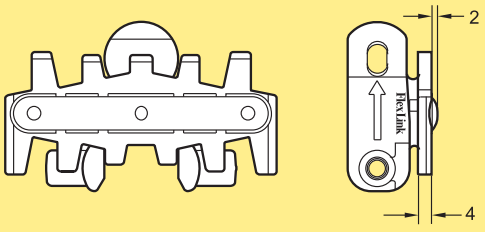
Plain link — **XMTL 83***

Plain chain (Ultra low wear)
Length 5 m — **XMTP 5 C**

Plain link — **n.a.**

**Note. Links must be ordered in multiples of 10*

Friction top chain



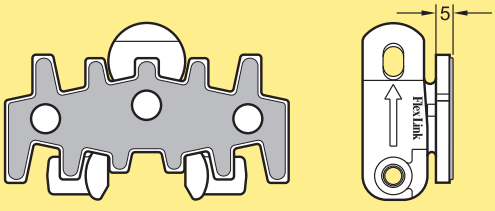
Friction top chain
Length 5 m — **XMTP 5 F**

Use the online configurator to specify and order.

Friction top link — **XMTL 83 F***

**Note. Links must be ordered in multiples of 10*

Steel top chain



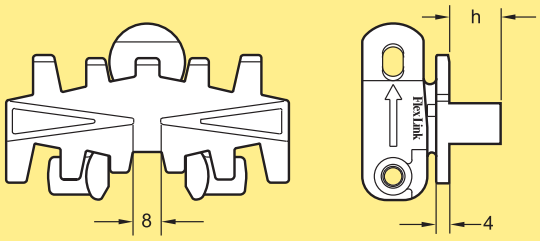
Steel top chain
Length 5 m — **XMTP 5 TF**

Steel top link — **XMTL 83 TF***

**Note. Links must be ordered in multiples of 10*

Top part has steel cover for improved wear resistance.

Cleated chain, Type A



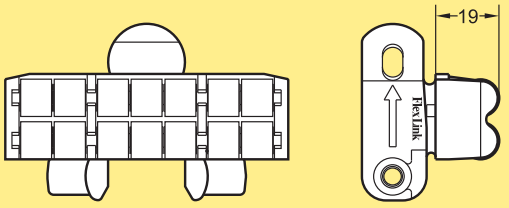
Cleated chain
Type A cleats
Length 5 m
h=15 mm — **XMTF 5×15 A**
h=30 mm — **XMTF 5×30 A**

Use the online configurator to specify and order.

Cleated link
h=15 mm — **XMTL 83×15 A***
h=30 mm — **XMTL 83×30 A***

**Note. Links must be ordered in multiples of 10*

Roller top chain

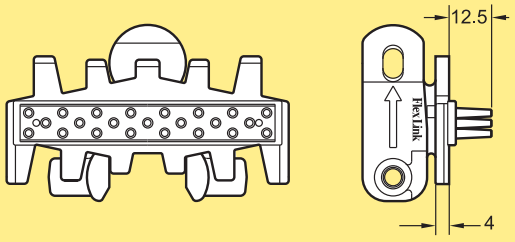


Roller top chain
Length 5 m — **XMTR 5**

Roller top link — **XMTL 83 R***

**Note. This link cannot be combined with plain links*

Flexible cleat chain, Type B



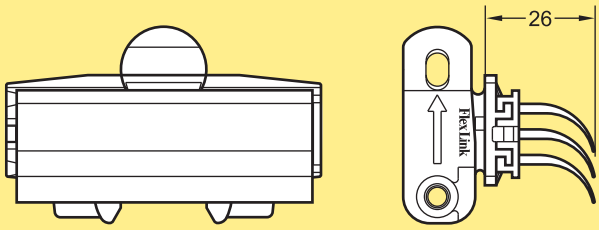
Flexible cleat chain Type B
Length 5 m — **XMTE 5 B**

Use the online configurator to specify and order.

Flexible cleat link — **XMTL 83 B***

**Note. Links must be ordered in multiples of 10*

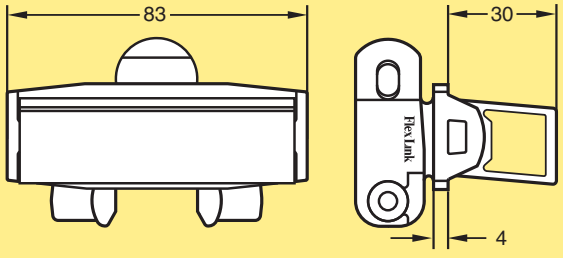
Flexible cleat chain, Type C



Flexible cleat chain Type C Length 5 m	**XMTE 5 C**
Flexible cleat link assembly Type C (link base and flexible cleat top)	**XMTM 83 C***
Flexible cleat top (replacement)	**XMTX 78 C***

**Note. Links must be ordered in multiples of 10*

Flexible cleat chain, Type D



Flexible cleat chain Type D Length 5 m	**XMTE 5 D**
Flexible cleat link assembly Type D (link base and flexible cleat top)	**XMTM 83 D***
Flexible cleat top (replacement)	**XMTX 75 D***

**Note. Links must be ordered in multiples of 10*

Other chains

See the *FlexLink chain guide* for a selection of other chains.

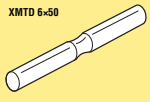
Chain accessories XM

Plastic pivot

Plastic pivot XM — **XMTT 13×16**

Note. Must be ordered in multiples of 25

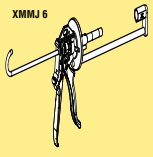
Steel pin



Steel pin XM — **XMTD 6×50**

Note. Must be ordered in multiples of 25

Pin insertion tool for chain



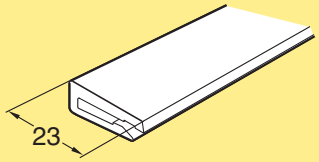
Pin insertion tool XM, XB — **XMMJ 6**

Lubricant for chain

Silicone-based lubricant — **LDSS 450**

Accessories for use with steel chain 5056849

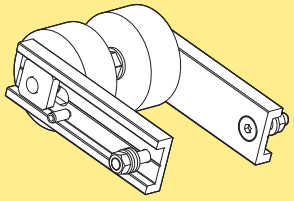
Slide rail for steel top chain 5056849



Slide rail, PVDF
Length 3 m **5057212**

This thicker slide rail is required since the chain top is thinner than the standard chain top.

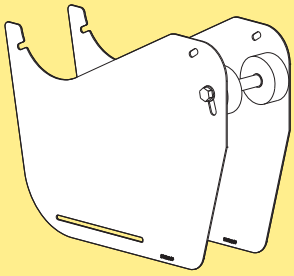
Rebuilding kit for end drive unit



Rebuilding kit for end drive unit **5058263**

Kit includes support rolls for guidance of chain under the drive unit. Rebuilding instructions are delivered with the chain.

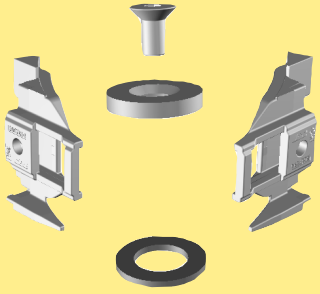
Rebuilding kit for direct drive



Rebuilding kit for end drive unit, direct drive **5058269**

Kit includes support rolls for guidance of chain under the drive unit, and side plates for replacement. Rebuilding instructions are delivered with the chain.

Rebuilding kit for wheel bend

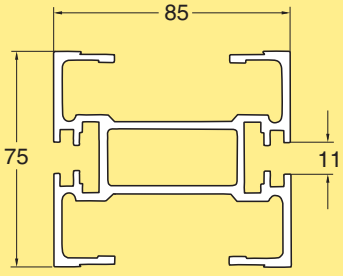


Rebuilding kit for wheel bend **5058270**

Kit includes new guides and washers and screw for raising the top disc of the wheel bend 2 mm. Rebuilding instructions are delivered with the chain.

Beams XM

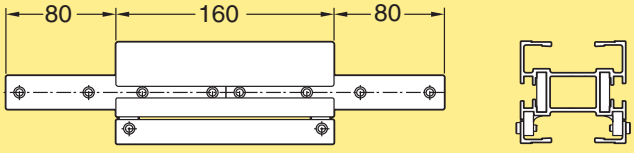
Conveyor beam



Beam
Length 3 m **XMCB 3**
Length to order **XMCB L**

Slide rail: see page 35
Beam accessories: see page 21

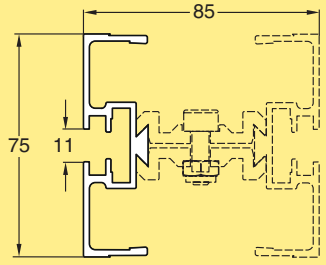
Beam section for chain installation



Beam section for chain installation **XMCC 160**

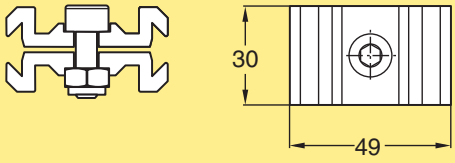
Including connection strips and screws

Profile for split conveyor beam



Profile for split conveyor beam
Length 3 m **XMCB 3 H**
Length to order **XMCB L H**

Beam clip assembly

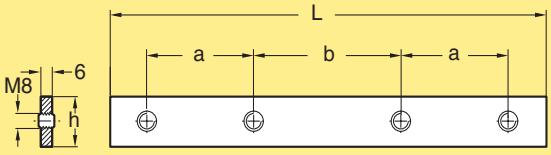


Beam clip assembly **XMCE 49×30**

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

Beam accessories XM

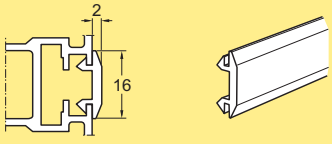
Connecting strip with set screws



Connecting strip with set screws
h=25, a=30, b=50, L=130 **XLCJ 6×130**
h=25, a=44, b=44, L=160 **XLCJ 6×160**

Note. Must be ordered in multiples of 10

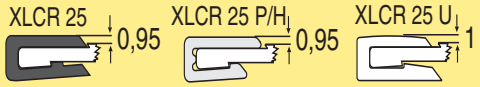
Cover strip for T-slot, PVC



Cover strip for T-slot, PVC
Length 25 m **XLAB 25**

For XS-XL-XM-XH

Plastic slide rails for XL, XM, XH beams



Slide rail
Length 25 m

HDPE (μ=0,1–0,25)	**XLCR 25**
PVDF (μ=0,15–0,35)	**XLCR 25 P**
UHMW-PE (μ=0,1–0,25)	**XLCR 25 U**
PA-PE (μ=0,1–0,25)	**XLCR 25 H**

See Appendix A, page 321 for selection guidelines and assembly instructions.

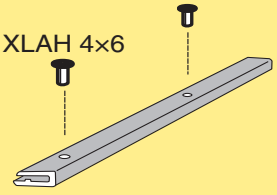
Steel slide rail for XL, XM, XH beams

Slide rail (μ=0,15–0,35)
Length 3 m
Acid resistant stainless steel **XLCR 3 TA**

Mounting tool for slide rail

Mounting tool for slide rail XM **XMMR 140**

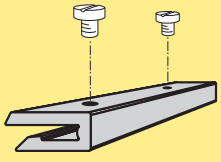
Aluminium rivets



Aluminium rivets 4 mm for XL-XM-XH conveyors **XLAH 4×6**

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

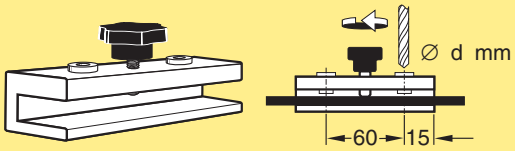
Plastic screws for slide rail



Plastic screws 5 mm for XS-XL-XM-XH-XB beams **XLAG 5**

Note. Must be ordered in multiples of 50

Drill fixture for slide rail



Drill fixture for XL-XM-XH-XK-XB slide rail
d=4,2 mm **3920500**

Rivet crimping pliers

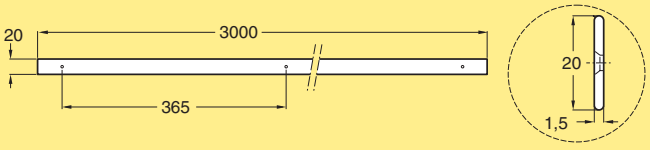
Rivet crimping pliers for XL-XM-XH-XK-XB
For 4 mm rivets **5051395**

Rivet crimping clamp

Rivet crimping clamp for XL-XM-XH-XK-XB
For 4 mm rivets **3923005**

Slide rails XM, hardened steel

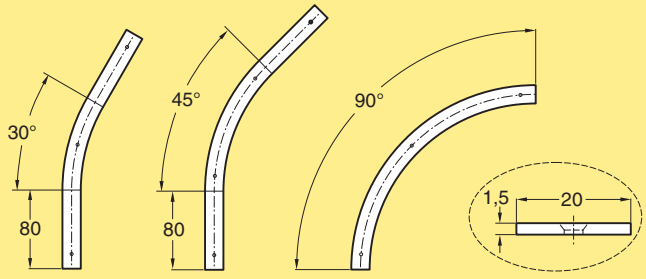
Steel slide rail, straight



Slide rail, hardened steel
Length 3 m **XLCR 3 TH**

Delivered with 9 predrilled holes

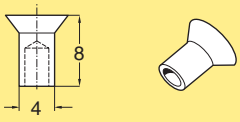
Steel slide rail for bends



Slide rail for bends, hardened steel
Slide rail for bend, XM 30° **XMCR W30 TH**
Slide rail for bend, XM 45° **XMCR W45 TH**
Slide rail for bend, XM 90° & 180° **XMCR W90 TH**

180°: Use 2 pieces of steel slide rail 90°

Brass rivets



Brass rivets (100 pcs) **5056167**

Rivets for anchoring the slide rails

Cleaner 3M

Cleaner (100 sachets) **5057207**

Use cleaner on beam and slide rail before attaching glue tape.

Glue tape 3M

Glue tape (for XL, XM, XH)
Length 30 m **5057208**

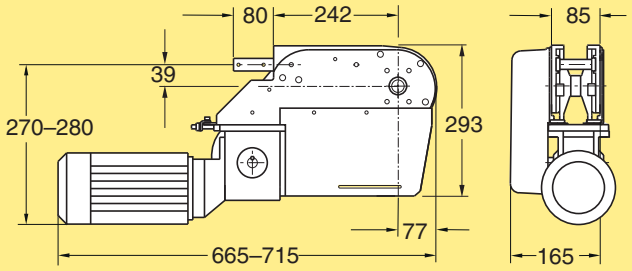
Mounting tool for slide rail

Mounting tool for XM **5057676**

The fixture consists of 4 pieces

End drive units XM

End drive unit HL/HLA

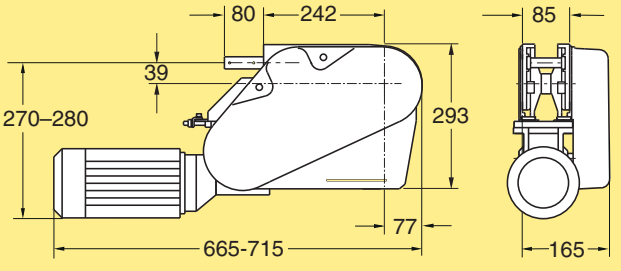


End drive unit
Suspended 3-phase motor
Transmission on left side
50 Hz 230/400 V
60 Hz 230/460 V

XMEB # HL
XMEB # HLA

Insert desired speed instead of # in designation:
50 Hz: 5-10-15-20-25-30-40-50-60 m/min.
60 Hz: 6-10-12-16-18-20-25-27-33-37-46-55-58 m/min.
Maximum traction force: 1250 N. See page 16.
Effective track length: 0,80 m

End drive unit HR/HRA



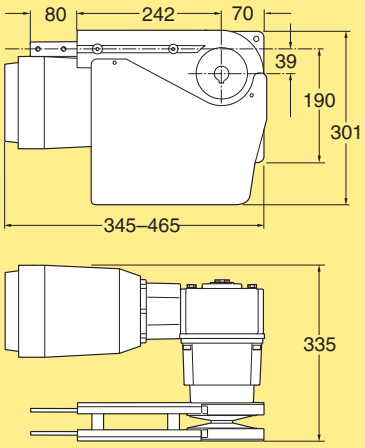
End drive unit
Suspended 3-phase motor
Transmission on right side
50 Hz 230/400 V
60 Hz 230/460 V

XMEB # HR
XMEB # HRA

Insert desired speed instead of # in designation:
50 Hz: 5-10-15-20-25-30-40-50-60 m/min.
60 Hz: 6-10-12-16-18-20-25-27-33-37-46-55-58 m/min.
Maximum traction force: 1250 N. See page 16.
Effective track length: 0,80 m

End drive units XM, direct drive with slip clutch

End drive unit HLP/HLAP

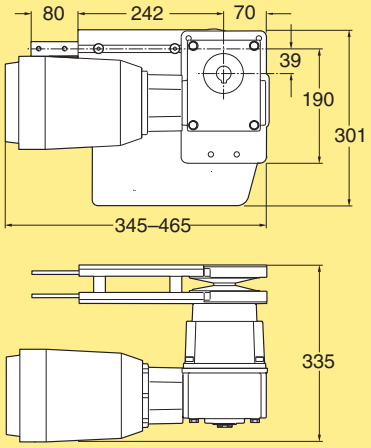


End drive unit, direct drive
3-phase motor on left side
50 Hz 230/400 V
60 Hz 230/460 V

XMEB # HLP
XMEB # HLAP

Insert desired speed instead of # in designation:
50 Hz: 5-10-15-20-25-30-40-50-60 m/min.
60 Hz: 6-10-16-19-31-36-44-63 m/min.
Maximum traction force: 1250 N. See page 16.
Effective track length: 0,80 m
Variable speed motors: see page 335.

End drive unit HRP/HRAP



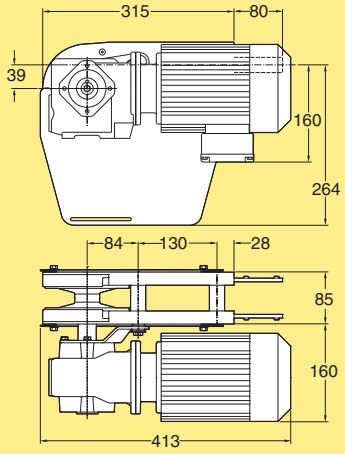
Drive unit, direct drive
3-phase motor on right side
50 Hz 230/400 V
60 Hz 230/460 V

XMEB # HRP
XMEB # HRAP

Insert desired speed instead of # in designation:
50 Hz: 5-10-15-20-25-30-40-50-60 m/min.
60 Hz: 6-10-16-19-31-36-44-63 m/min.
Maximum traction force: 1250 N. See page 16.
Effective track length: 0,80 m
Variable speed motors: see page 335.

End drive units XM Type H, direct drive, no slip clutch

End drive unit HNLP/HNLAP

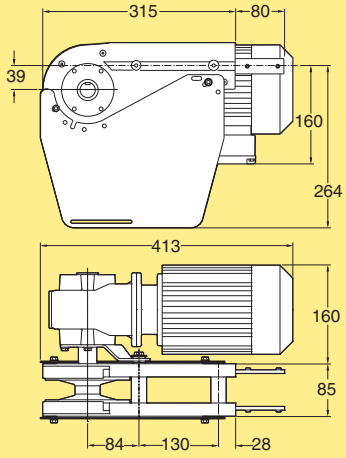


End drive unit, max 1250 N
3-phase motor on left side
50 Hz 230/400 V
60 Hz 230/460 V

XMEB # HNLP
XMEB # HNLAP

Insert desired speed instead of # in designation:
50 Hz: 5-10-15-20-30-40-50-60 m/min.
60 Hz: 6-10-16-19-31-44-63 m/min.
Maximum traction force: see diagram, page 16.
Effective track length: 0,80 m
Variable speed motors: see page 335.

End drive unit HNRP/HNRAP



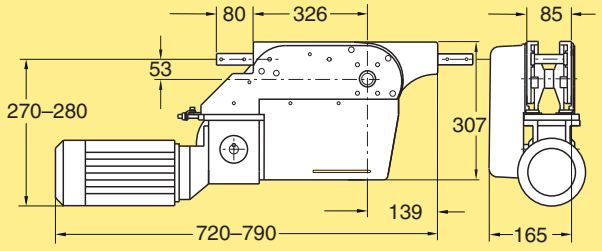
End drive unit, max 1250 N
3-phase motor on right side
50 Hz 230/400 V
60 Hz 230/460 V

XMEB # HNRP
XMEB # HNRAP

Insert desired speed instead of # in designation:
50 Hz: 5-10-15-20-30-40-50-60 m/min.
60 Hz: 6-10-16-19-31-44-63 m/min.
Maximum traction force: see diagram, page 16.
Effective track length: 0,80 m
Variable speed motors: see page 335.

Intermediate drive units XM

Intermediate drive unit HL/HLA

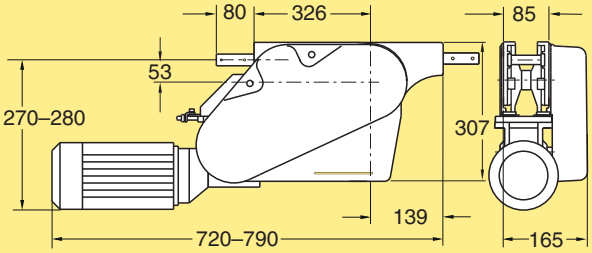


Intermediate drive unit
Suspended 3-phase motor
Transmission on left side
50 Hz 230/400 V
60 Hz 230/460 V

XMER # HL
XMER # HLA

Insert desired speed instead of # in designation:
50 Hz: 5-10-15-20-25 m/min.
60 Hz: 6-9-12-15-19-25 m/min.
Maximum traction force: 200 N. See page 16.
Effective track length: 1,00 m

Intermediate drive unit HR/HRA

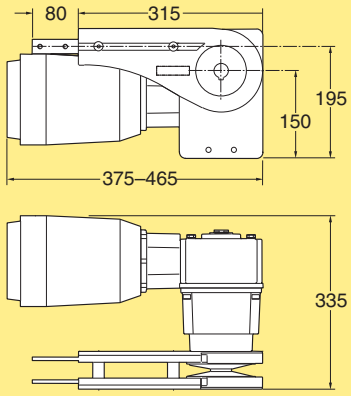


Intermediate drive unit
Suspended 3-phase motor
Transmission on right side
50 Hz 230/400 V
60 Hz 230/460 V

XMER # HR
XMER # HRA

Insert desired speed instead of # in designation:
50 Hz: 5-10-15-20-25 m/min.
60 Hz: 6-9-12-15-19-25 m/min.
Maximum traction force: 200 N. See page 16.
Effective track length: 1,00 m

Direct drive unit for vertical wedge conveyor

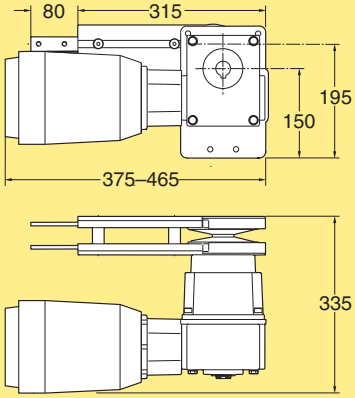


Direct drive unit for vertical wedge conveyor
- Without chain slack
- 3-phase motor on left side
- 50 Hz 230/400 V
- 60 Hz 230/460 V

XMEB # HLGP
XMEB # HLAGP

Insert desired speed instead of # in designation:
50 Hz: 5-10-15-20-25-30-40-50-60 m/min.
60 Hz: 6-10-16-19-31-36-44-63 m/min.
Maximum traction force: 1250 N. See page 16.
Effective track length: 0,80 m

Direct drive unit for vertical wedge conveyor

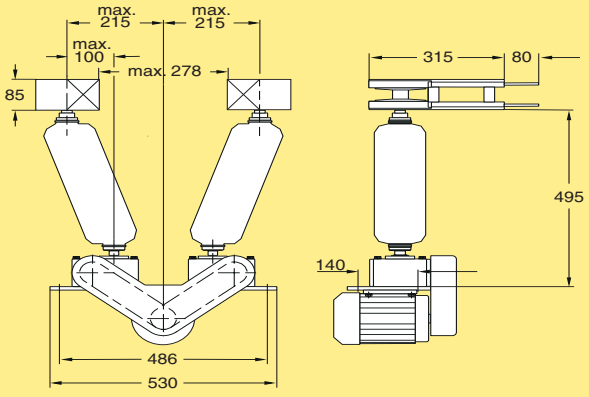


Direct drive unit for vertical wedge conveyor
- Without chain slack
- 3-phase motor on right side
- 50 Hz 230/400 V
- 60 Hz 230/460 V

XMEB # HRGP
XMEB # HRAGP

Insert desired speed instead of # in designation:
50 Hz: 5-10-15-20-25-30-40-50-60 m/min.
60 Hz: 6-10-16-19-31-36-44-63 m/min.
Maximum traction force: 1250 N. See page 16.
Effective track length: 0,80 m

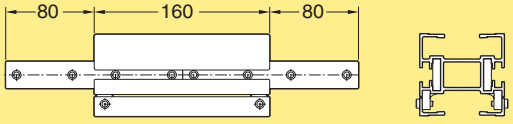
Synchronous drive unit for vertical wedge conveyors



Synchronous drive unit
50 Hz 230/400 V **XMED # H**

Insert desired speed instead of # in designation:
50 Hz: 5-10-15-18-22-27-35-45-55 m/min.
60 Hz: –
Maximum traction force: 1250 N. See page 16.
Effective track length: 0,80 m
Including two basic units, two cardan shafts, two gear reducers, 3-phase motor, two timing belts and reducer pulleys, motor pulley, transmission cover, mounting plate

Beam section for chain installation

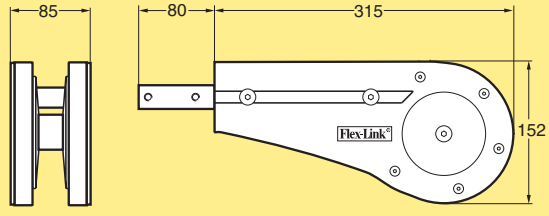


Beam section for chain installation **XMCC 160**

Including connection strips and screws

Idler units XM

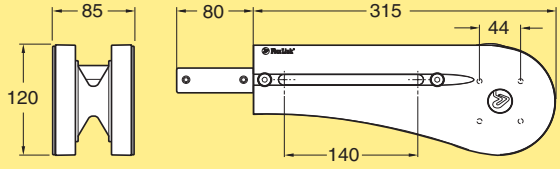
Idler end unit



Idler end unit **XMEJ 315**

Effective track length: 0,80 m

Idler end unit Type S

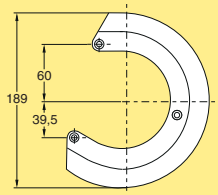


Idler end unit
Compact version **XMEJ 315 S**

Effective track length: 0,70 m

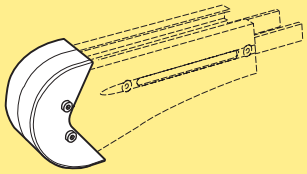
Each side plate has four unfinished holes for attachment of accessories. Requires drilling through side plate. A drill fixture (5057144) is available.

Protective cover for idler end unit



Protective cover for XMEJ 315 **XMSJ 189**

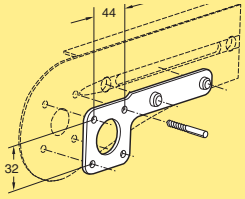
Protective cover for idler end unit



Protective cover for XMEJ 315 S **XMSJ 146**

Including mounting screws (M8). Requires drilling of two holes in each side plate. Use drill fixture 5057144.

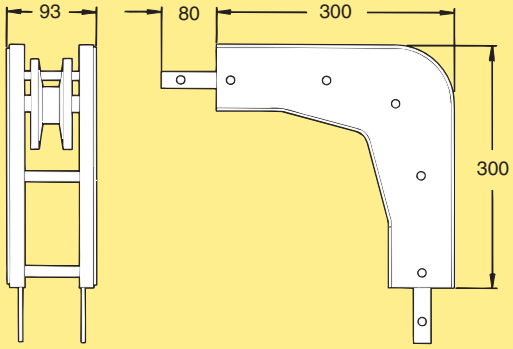
Drill fixture for idler end unit



Drill fixture for XMEJ 315 S **5057144**

The drill fixture is used when drilling holes for attachment of accessories. The side plates of idlers and drive units are prepared for easy drilling of 6,5 mm holes. The holes are suitable for threading (M8).

Idler bend unit, 90°

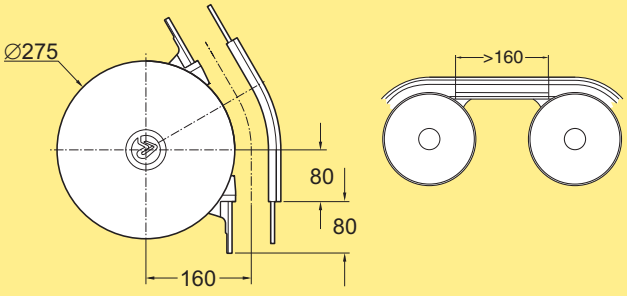


Idler bend unit, 90° **XMEK 90R50**

Effective track length: 0,60 m.
Note. Cannot be used with a return chain

Wheel bends XM

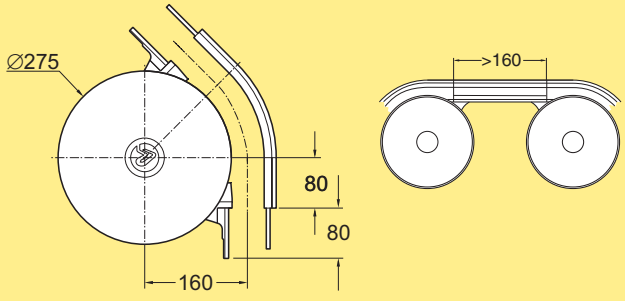
Wheel bend, 30°



Wheel bend, 30° **XMBH 30R160 A**

Effective track length: 0,25 m 1-way (0,50 m 2-way)

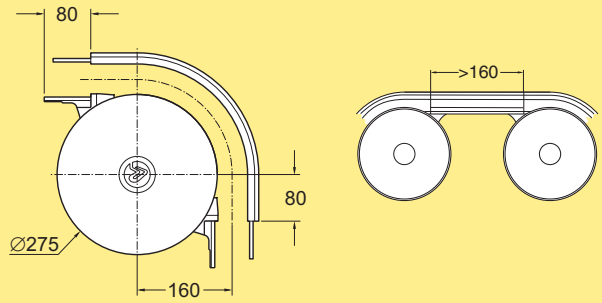
Wheel bend, 45°



Wheel bend, 45° **XMBH 45R160 A**

Effective track length: 0,30 m 1-way (0,60 m 2-way)

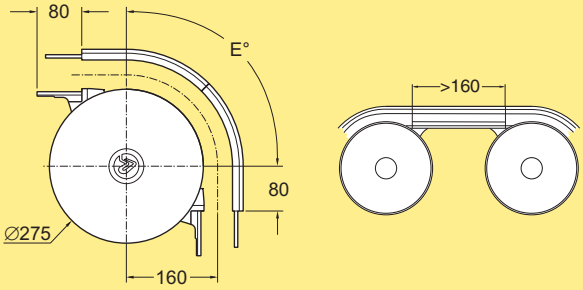
Wheel bend, 90°



Wheel bend, 90° **XMBH 90R160 A**

Effective track length: 0,40 m 1-way (0,80 m 2-way)

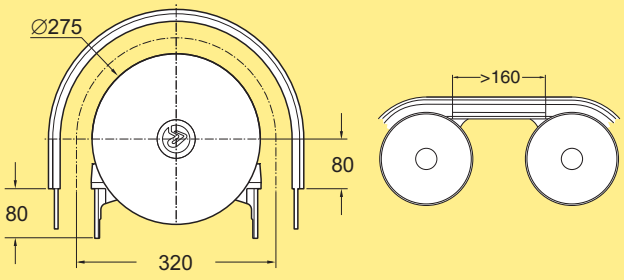
Wheel bend, 5°–180°, 210°



Wheel bend, 5°–180°, 210° **XMBH ER160 A**

The outer bend is cut in the middle to the desired angle and assembled using connecting strips. The angle "E" must be specified when ordering.

Wheel bend, 180°

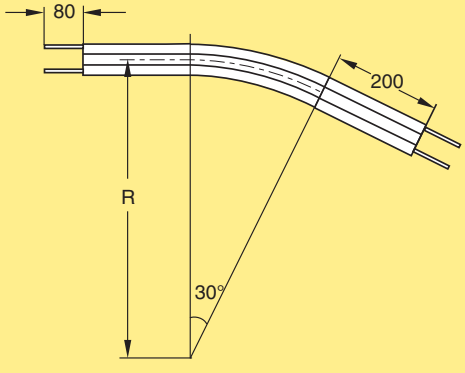


Wheel bend, 180° **XMBH 180R160 A**

Effective track length: 0,65 m 1-way (1,30 m 2-way)

Horizontal plain bends XM

Horizontal plain bend, 30°

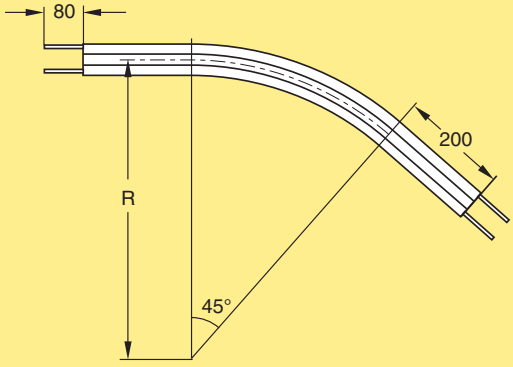


Horizontal plain bend, 30°±1°

R=300±10 mm	**XMBP 30R300**
R=500±10 mm	**XMBP 30R500**
R=700±10 mm	**XMBP 30R700**
R=1000±10 mm	**XMBP 30R1000**

Effective track lengths:
R300: 0,60 m 1-way (1,15 m 2-way)
R500: 0,70 m 1-way (1,35 m 2-way)
R700: 0,80 m 1-way (1,55 m 2-way)
R1000: 0,95 m 1-way (1,85 m 2-way)

Horizontal plain bend, 45°

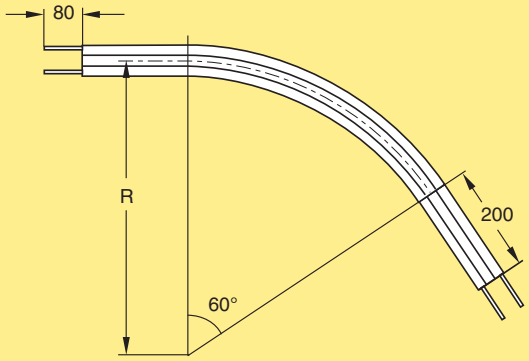


Horizontal plain bend, 45°±1°

R=300±10 mm	**XMBP 45R300**
R=500±10 mm	**XMBP 45R500**
R=700±10 mm	**XMBP 45R700**
R=1000±10 mm	**XMBP 45R1000**

Effective track lengths:
R300: 0,65 m 1-way (1,30 m 2-way)
R500: 0,80 m 1-way (1,60 m 2-way)
R700: 0,95 m 1-way (1,90 m 2-way)
R1000: 1,20 m 1-way (2,40 m 2-way)

Horizontal plain bend, 60°

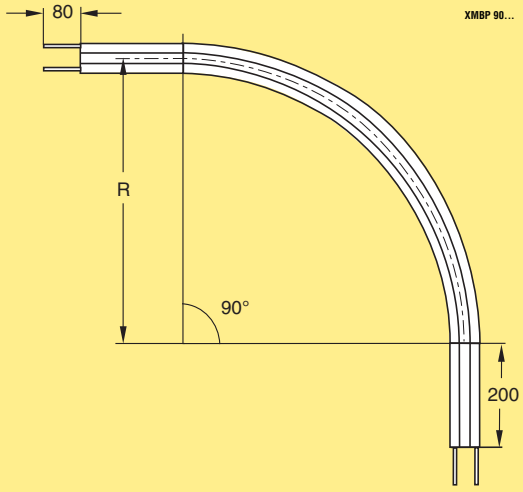


Horizontal plain bend, 60°±1°

R=500±10 mm	**XMBP 60R500**
R=700±10 mm	**XMBP 60R700**
R=1000±10 mm	**XMBP 60R1000**

Effective track lengths:
R500: 0,95 m 1-way (1,85 m 2-way)
R700: 1,15 m 1-way (2,30 m 2-way)
R1000: 1,45 m 1-way (2,90 m 2-way)

Horizontal plain bend, 90°



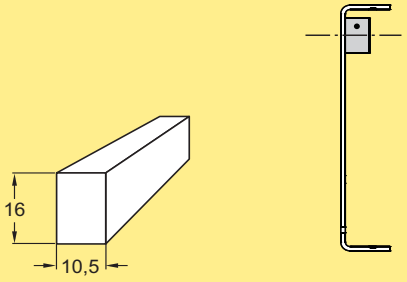
Horizontal plain bend, 90°±1°

R=300±10 mm	**XMBP 90R300**
R=500±10 mm	**XMBP 90R500**
R=700±10 mm	**XMBP 90R700**
R=1000±10 mm	**XMBP 90R1000**

Effective track lengths:
R300: 0,90 m 1-way (1,75 m 2-way)
R500: 1,20 m 1-way (2,40 m 2-way)
R700: 1,50 m 1-way (3,00 m 2-way)
R1000: 2,00 m 1-way (3,95 m 2-way)

Support rail for plain bends XM

Support rail for plain bends

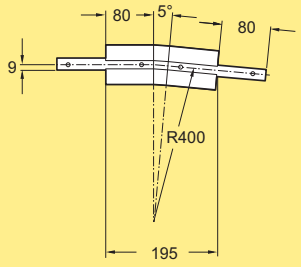


Support rail for plain bends, XM–XH
Length 2,4 m
Polyamide **5048598**

Fix with sheet metal screw BSS ST 4,2×9,5 or similar.
See page 324 for installation instructions.

Vertical bends XM

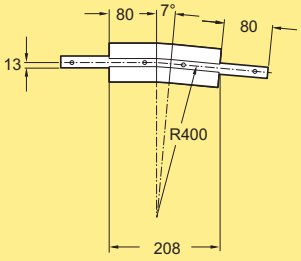
Vertical bend, 5°



Vertical bend, 5° **XMBV 5R400**

Effective track length: 0,20 m 1-way (0,40 m 2-way)

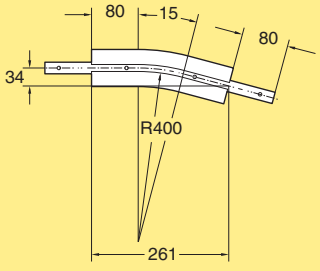
Vertical bend, 7°



Vertical bend, 7° **XMBV 7R400**

Effective track length: 0,20 m 1-way (0,45 m 2-way)

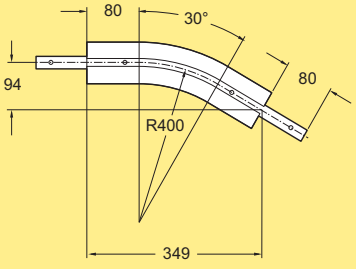
Vertical bend, 15°



Vertical bend, 15° **XMBV 15R400**

Effective track length: 0,30 m 1-way (0,55 m 2-way)

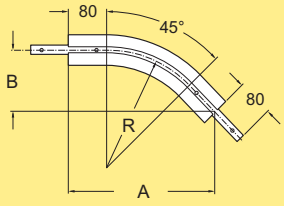
Vertical bend, 30°



Vertical bend, 30° **XMBV 30R400**

Effective track length: 0,40 m 1-way (0,75 m 2-way)

Vertical bend, 45°



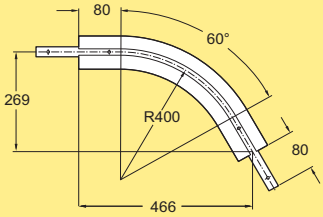
Vertical bend, 45°

R= 400, A=419, B=417 **XMBV 45R400**

R=1000, A=844, B=349 **XMBV 45R1000**

Effective track length:
R400: 0,50 m 1-way (0,95 m 2-way)
R1000: 0,95 m 1-way (1,90 m 2-way)

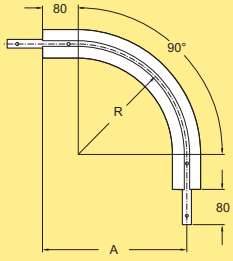
Vertical bend, 60°



Vertical bend, 60° **XMBV 60R400**

Effective track length: 0,65 m 1-way (1,20 m 2-way)

Vertical bend, 90°



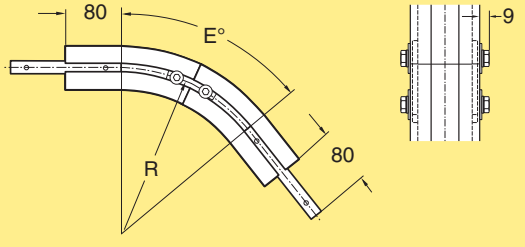
Vertical bend, 90°

R= 400, A= 480 **XMBV 90R400**

R=1000, A=1080 **XMBV 90R1000**

Effective track length:
R400: 0,85 m 1-way (1,60 m 2-way)
R1000: 1,75 m 1-way (3,50 m 2-way)

Vertical bend, 5°–90°



Vertical bend, 5°–90°

R=400 **XMBV ER400**

R=1000 **XMBV ER1000**

The bend is cut in the middle to the desired angle and assembled using connecting strips. The angle "E" must be specified when ordering.

Angle plates, Front piece, Drip trays, Drip catchers and Drip pans XM
see chapter X85 in FlexLink product catalogue 5147

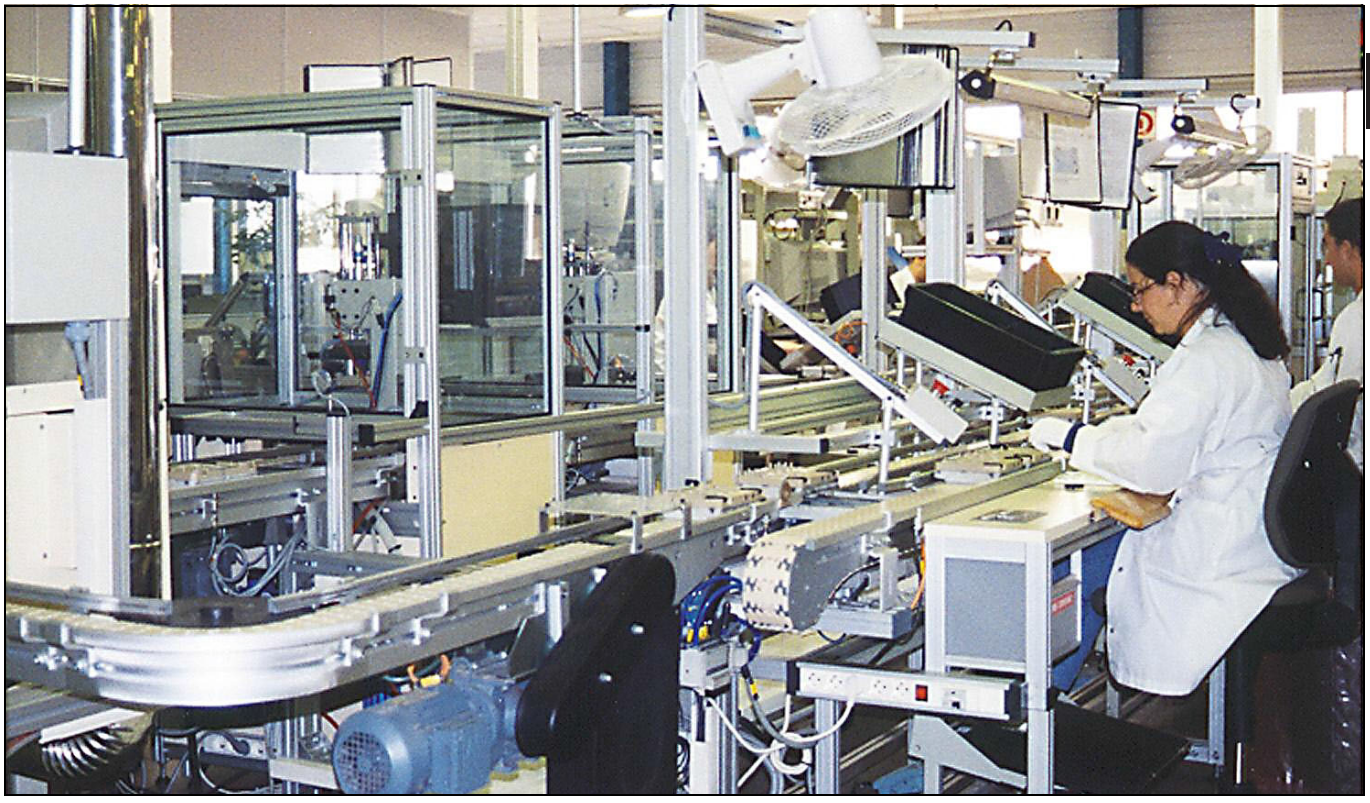
Components for track width adjustment XM
see chapter X85 in FlexLink product catalogue 5147

XM pallet handling components

Contents

System information 17
Pallets 18
Pallet accessories 18
Pallets XMPP 150×120, XMPP 150×150 19
Pallets XMPP 150×200, XMPP 150×250 20
Guide rail 21
Guide rail bracket 21
Pallet locating station 22
Pallet stop cylinder 23

System information



Pallet handling products for conveyor system XM

The pallet handling components for conveyor system XL are designed for loads up to 8 kg. The maximum size of the products on the pallets depends on the shape of the products and the location of their centre of gravity.

Guide rail brackets specifically designed for the pallet track width are available. The system also includes pre-bent guide rails for bends.

Application areas

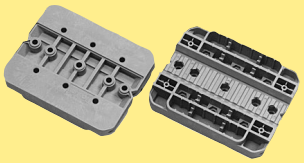
Examples of application areas are transport and assembly of spark plugs, gear wheels, fuel injectors, hydraulic pistons, headlights, brake cylinders, cellular phones, and harddisk drives.

Technical characteristics

Pallet sizes (W×L×H)	150 mm × 120 mm × 26 mm 150 mm × 150 mm × 26 mm 150 mm × 200 mm × 26 mm 150 mm × 250 mm × 26 mm
Maximum load on pallet.	5–8 kg (including pallet and fixtures)

Pallets

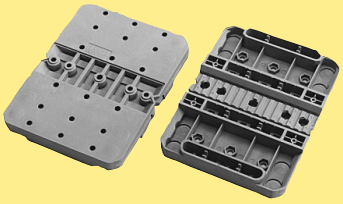
Pallet 150×120



Pallet, length 120 mm **XMPP 150×120**

Mineral reinforced PPE-PA. Weight: 0,26 kg. Max load 5,0 kg. Max load includes fixture weight.
See page 19 for detailed pallet dimensions

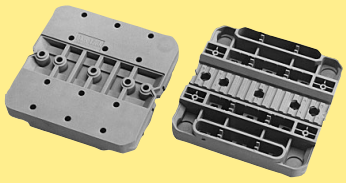
Pallet 150×200



Pallet, length 200 mm **XMPP 150×200**

Mineral reinforced PPE-PA. Weight: 0,32 kg. Max load 7,0 kg. Max load includes fixture weight.
See page 20 for detailed pallet dimensions

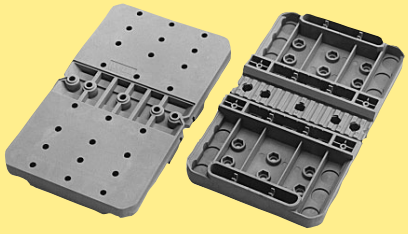
Pallet 150×150



Pallet, length 150 mm **XMPP 150×150**

Mineral reinforced PPE-PA. Weight: 0,28 kg. Max load 6,0 kg. Max load includes fixture weight.
See page 19 for detailed pallet dimensions

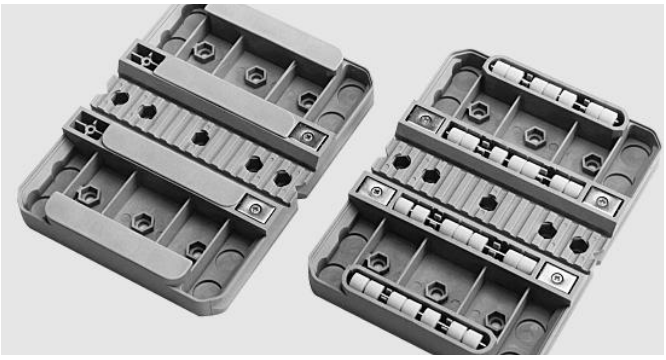
Pallet 150×250



Pallet, length 250 mm **XMPP 150×250**

Mineral reinforced PPE-PA. Weight: 0,38 kg. Max load 8,0 kg. Max load includes fixture weight.
See page 20 for detailed pallet dimensions

Pallet accessories



Shaft and roller kit

Shaft and roller kit **5056002**

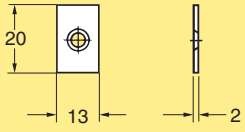
Rollers: Polyacetal resin
Shaft: Stainless steel
4 shafts, 28 rollers. 1 kit is needed for each pallet.

Slide block for pallet

Slide block for pallet **XMPS 100**

Polyamide
1 slide block. 4 slide blocks are needed for each pallet.
Note. Must be ordered in multiples of 10

Initiator plate

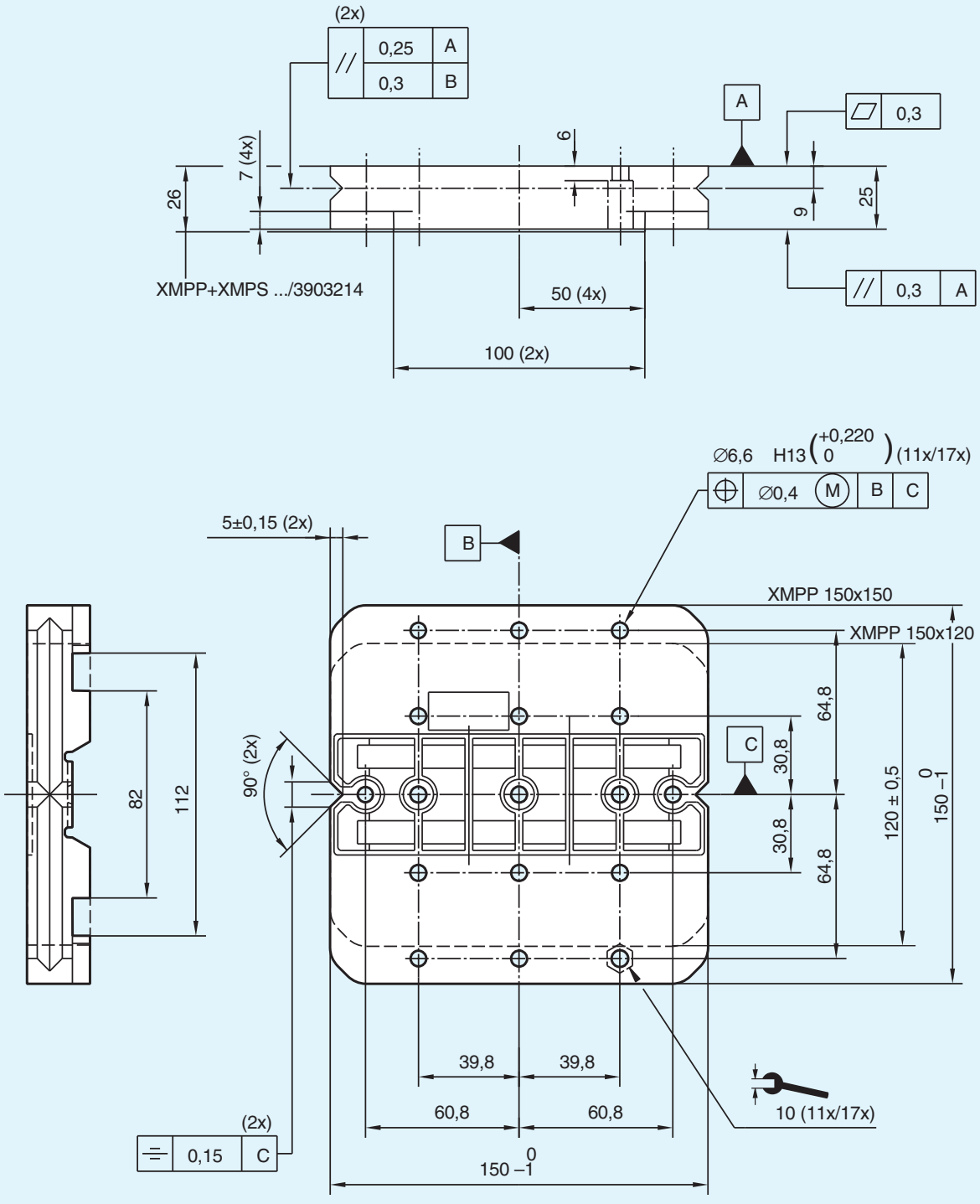


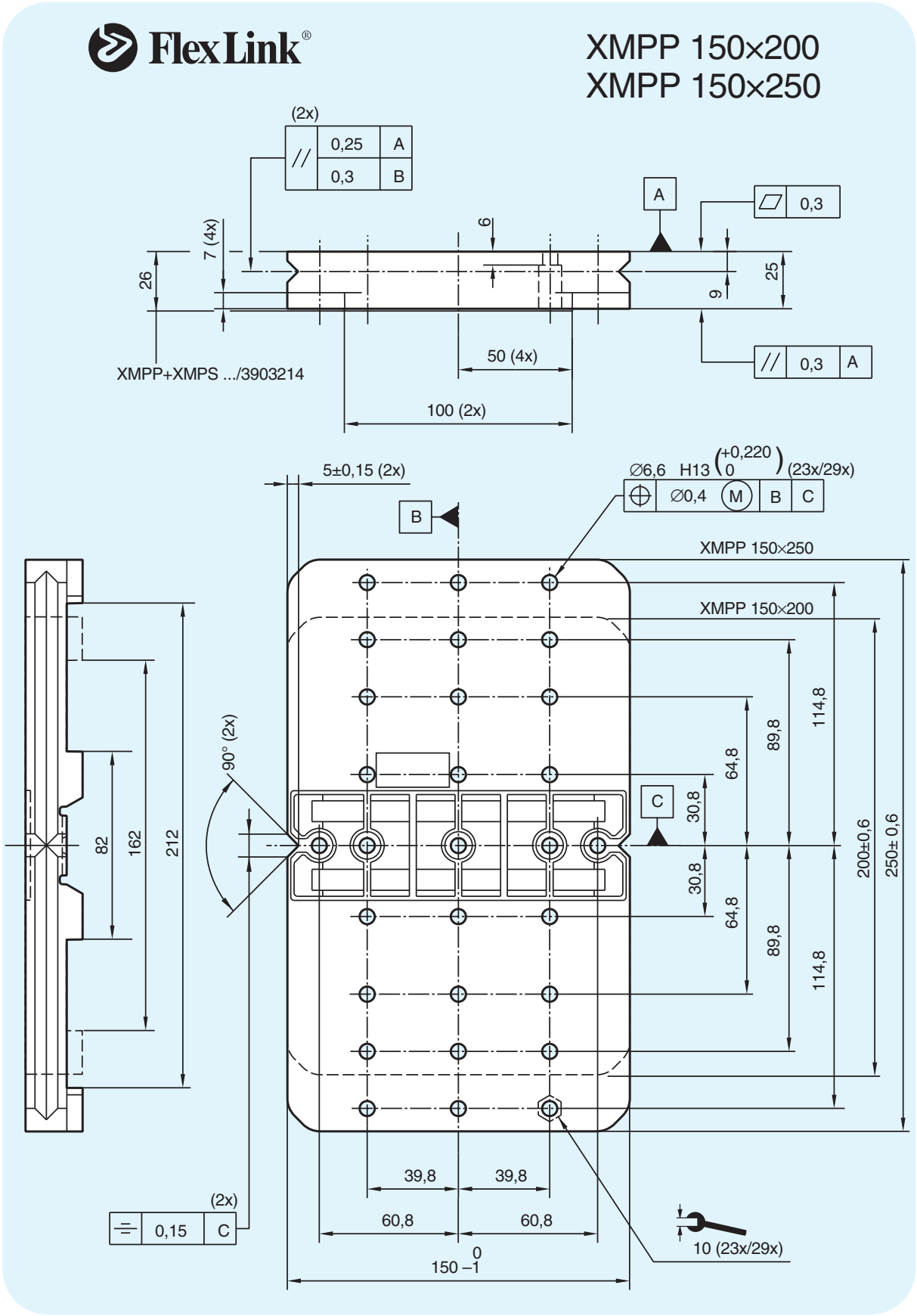
Initiator plate **XMPL 13×20**

Steel. Including screw
1 to 4 initiator plates can be fitted to a pallet.
Note. Must be ordered in multiples of 25

FlexLink®

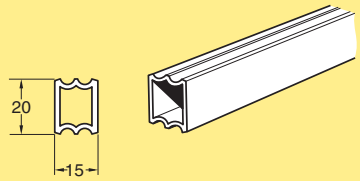
XMPP 150×120
XMPP 150×150




FlexLink®
XMPP 150×200
XMPP 150×250
(2x)
// 0,25 A
0,3 B
A
0,3
7 (4x)
6
26
25
9
50 (4x)
100 (2x)
XMPP+XMPS .../3903214
// 0,3 A
5±0,15 (2x)
B
Ø6,6 H13 (+0,220 0) (23x/29x)
Ø0,4 M B C
XMPP 150×250
XMPP 150×200
90° (2x)
C
82
162
212
64,8
89,8
114,8
30,8
200±0,6
250± 0,6
39,8
39,8
60,8
60,8
150 0 –1
10 (23x/29x)
(2x)
0,15 C

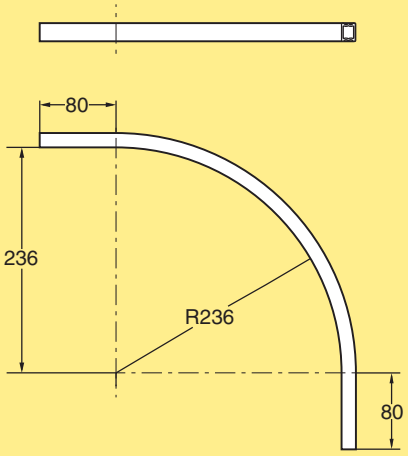
Guide rail

Guide rail 15 mm, aluminium



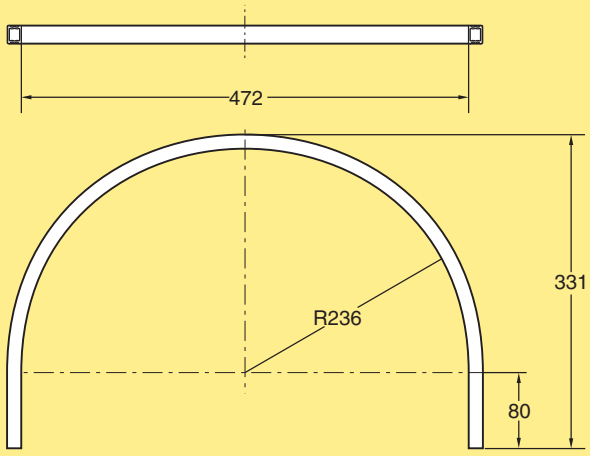
Straight rail 15 mm
Aluminium, length 3 m **XLRS 3×15**

Guide rail for pallets in 90° bends



Outer guide rail for 90° bend **3904899**

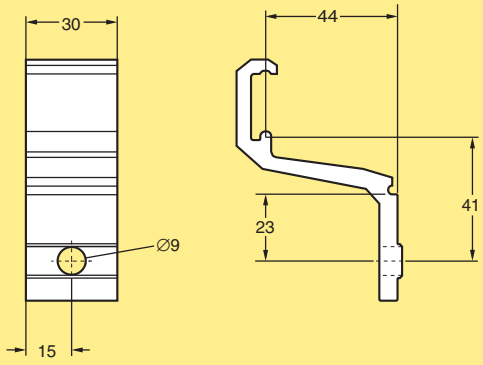
Guide rail for pallets in 180° bends



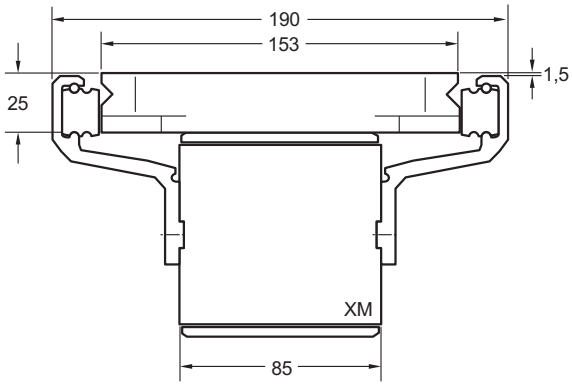
Outer guide rail for 180° bend **3904898**

Guide rail bracket

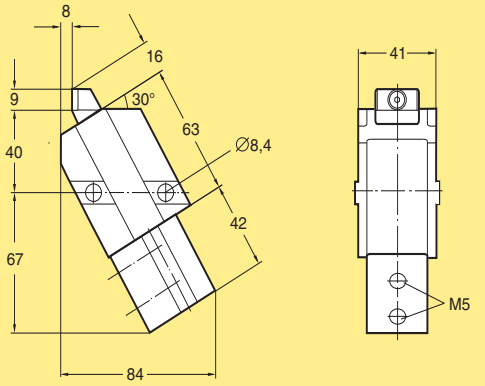
Fixed guide rail bracket



Guide rail bracket **XLRB 49×42**



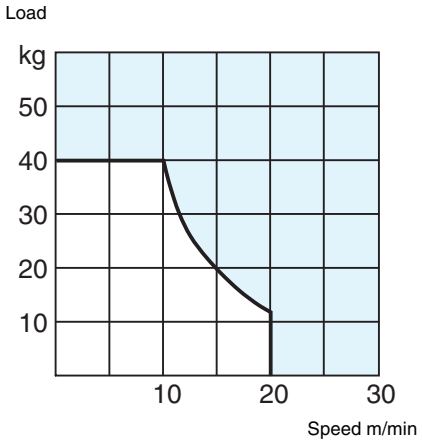
Pallet stop cylinder



Pneumatic stop cylinder
Double-actuated

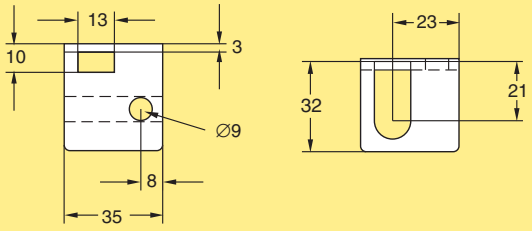
XMPD 20×10 EA

Housing, cover: anodized aluminium
Plunger: polyamide with steel top
Stroke: 10 mm. Theoretical force at 0,6 MPa: 130 N (minus direction)
For use with cylinder position sensor. Including Ø6 pipe connections and the necessary mounting hardware.



The diagram shows the maximum permissible weight of a group of pallets (product weight + pallet weight) that the stop cylinder is capable of stopping, as a function of the conveyor speed.

Bracket for proximity switch

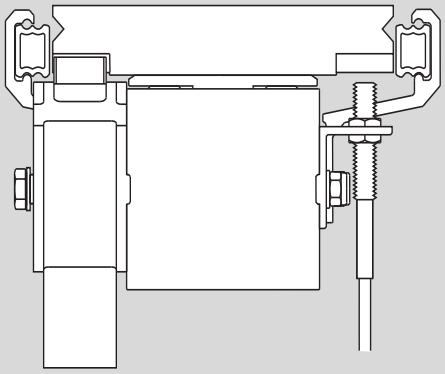


Bracket for proximity switch
Ø12 mm

XMPB 12

Anodized aluminium

Pallet stop cylinder on conveyor beam



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