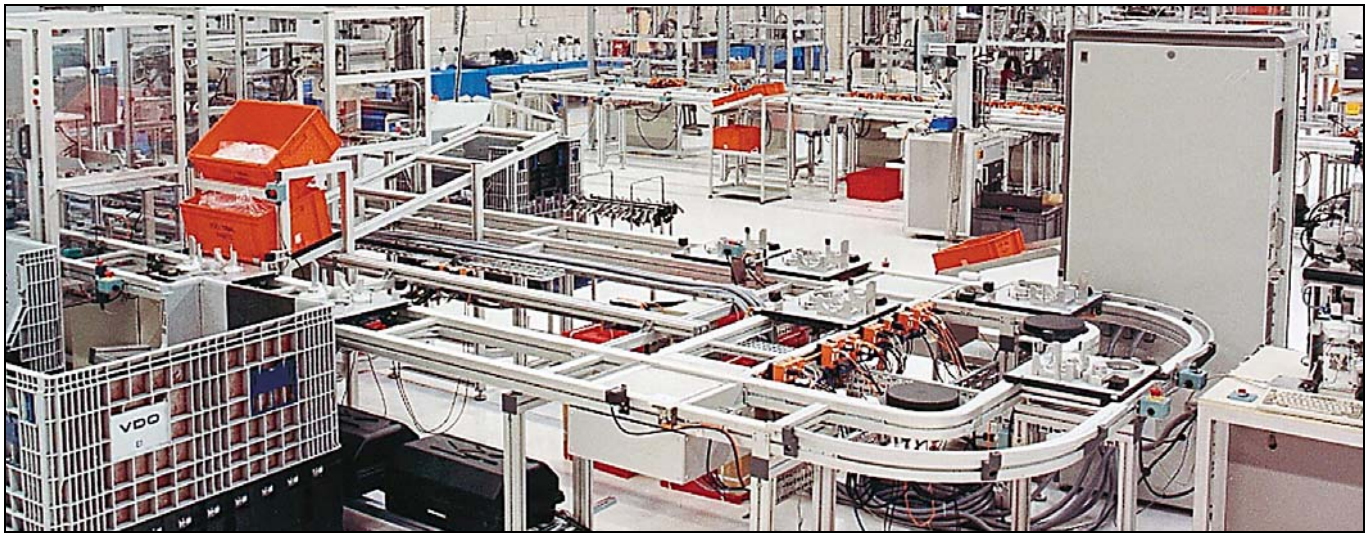


# Modular pallet conveyor system XT

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## Introduction



### System description

The XT conveyor is a twin-track, flexible plastic chain pallet conveyor. The system is especially well suited for manual and automatic assembly and test systems in the automotive and electrical/electronics industries. The modular concept allows simplified engineering and ordering, as well as fast configuration together with plug and play capabilities for improved productivity.

### Examples of application areas

Manual and automatic assembly and test systems in the automotive and electrical/electronics industries. Examples: gearboxes, computers, sewing machines, mobile phones, automotive seat guiderails, eyeglasses, injection-moulded parts, fishing reels, car instrument kits

### Module concept

The standard modules can be split into six groups – conveyors, transfers, stops, locates, lift-and-rotates and supports. Each module is quickly adaptable and reusable for future demands and can easily be integrated with FlexLink's large range of single strand pallet conveyor systems.

### Pallets

FlexLink's standard chains and integrated guide rails systems allow for accumulation through the entire system, including bends, as well as easy and straightforward integration of stops, locate stations as well as transfer units with a minimum of controls.

## System data

- 25 m maximum conveyor length
- 20 m/min maximum conveyor speed
- Standard pallet sizes from 240×240 mm up to 640×640 mm, including rectangular sizes
- 30 kg maximum pallet weight (8 kg pallet weight/100 mm conveyor)
- 250 kg maximum accumulated weight at 5 m/min.
- Maximum permitted load per link 0,5 Kg (XT-Compact)
- Maximum permitted load per link 1,0 Kg

## Typical noise levels

During normal conditions a noise level below 65 dB(A) can be obtained in an XT conveyor system, including transfers, stops, etc. However, be aware that the pneumatic components (valves, etc.) very much affect the noise level if they are not enclosed correctly. Also, throttle valves must be adjusted correctly at transfers, stops, etc. The following table shows typical noise levels.

Speed m/min.	5	10	15	20	30*
dB(A)	56	58	61	65	70

\*No standard speed

## The modular concept

### Introduction

The modular concept includes six groups of modules that have been defined to suit the various industrial demands.

Most of the conveyor modules can be connected back to back by a connecting kit to form the desired conveyor layout. Other modules such as the transfer module or the locating function module can be incorporated as required.

The module groups are:

- Conveyor modules
- Support modules
- Transfer modules
- Stop function module
- Locating function modules
- Lift-and-rotate modules

Each module is explained in more detail later on in this section of the catalogue.

### Accessories and spare parts

Accessories and spare parts for the XT modules can also be ordered. Those products are listed after the module descriptions. See page 353 to 379.

### Ordering process

Every XT module has its own unique order code which can be found in each module description. The various options available for each module are shown in the order code and all the parameters have to be specified when ordering.

It is important to know that by ordering for example a conveyor module, you do not automatically get a support module. This has to be ordered separately.

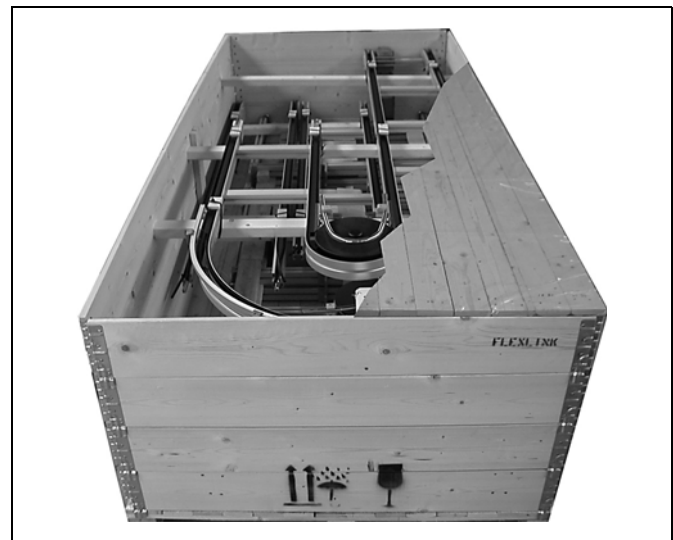
### Product configurator

The easiest way to order XT modules is by using the online product configurator.

You can find this webbased configurator at the Flex-Link website <http://www.flexlink.com>.

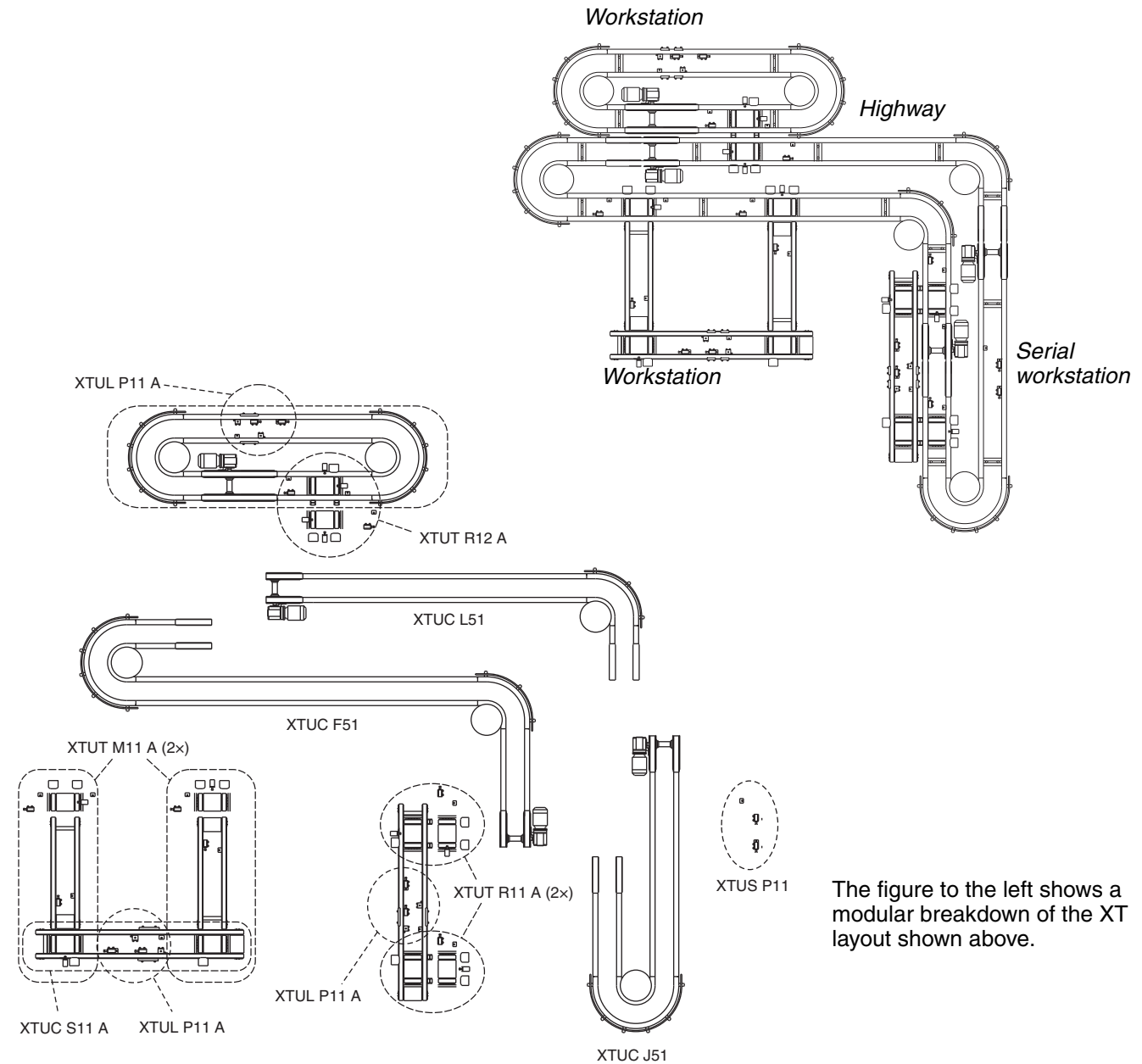
### Shipment

Modules are normally delivered in flat boxes with a maximum length of approximately 3 m. See photo below. Conveyor modules will be delivered in sections of maximum 3 m which are easy to reassemble. More detailed information regarding each module is provided in the section describing the modules. An assembly manual is available describing how to assemble and connect the modules. Maintenance and spare parts manuals are also available.



**Typical XT conveyor layout**

The figure below shows a typical conveyor layout, built by connecting various XT modules. Note that support modules are not shown in this overview. For each conveyor- and transfer module, a support module has to be ordered separately, see page 343, "XT support modules".



**Pallet flow in a highway**

Characteristic for a highway is a continuous circulation of pallets, waiting for calling from a transfer operation into a parallel flow, for instance a workstation. In order to minimize the noise level and not disturbing the pallet more than necessary in a highway, the FlexLink philosophy is that *by default most stop functions attached to a highway are not activated*. The stop function will only be activated if a pallet has to be transferred out from or into the highway.

**Exception**

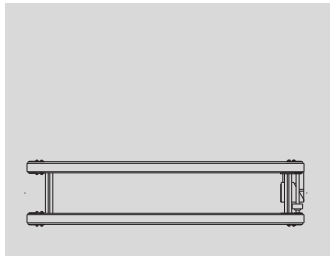
A Stop function module or a Locating function module attached directly to a highway will be seen as a serial workstation and the stop function of these are therefore always activated by default, i.e. all single pallets will be stopped. This philosophy applies to all XT standard modules.

PO  
CC  
X45  
XS  
X65  
X65P  
X85  
X85P  
XH  
XK  
XKP  
X180  
X300  
GR  
CS  
XT  
WL  
WK  
XC  
XF  
XD  
ELV  
CTL  
FST  
TR  
APX  
IDX

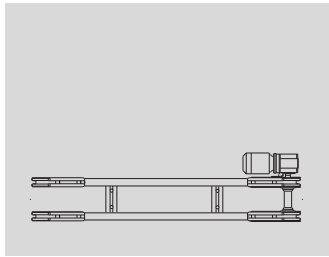
## Available XT modules

Below is an overview of the various modules presented. The conveyor modules can be connected back to back to form the desired conveyor layout. Transfer and locating modules can be incorporated as required.

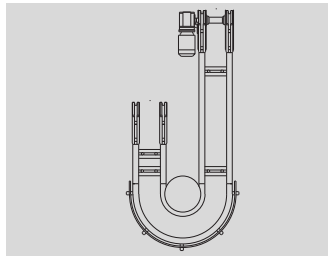
For more information about the modules, please see the detailed information under each module section later on in this document.



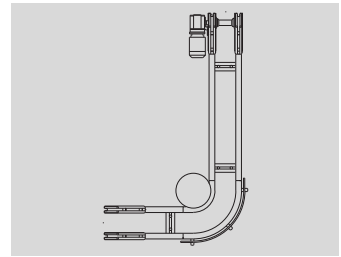
**XTUC S11**



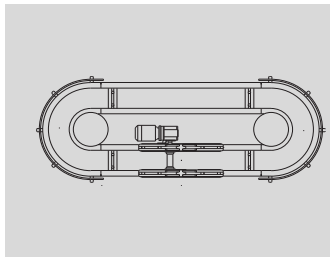
**XTUC S51**



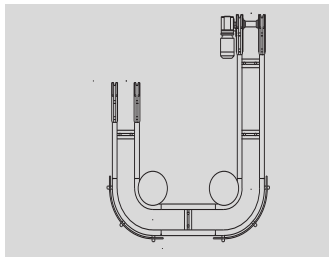
**XTUC J51/J52**



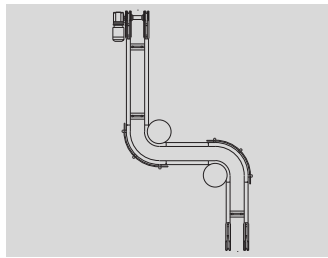
**XTUC L51/L52**



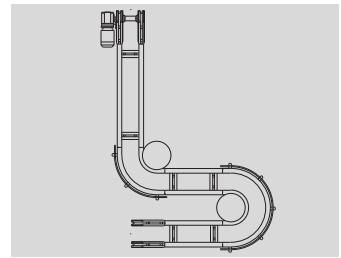
**XTUC Q51/Q52**



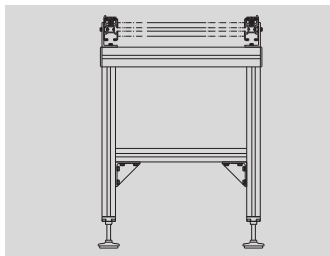
**XTUC U51/U52**



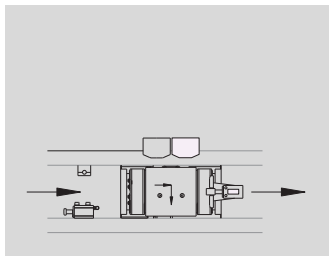
**XTUC Z51/Z52**



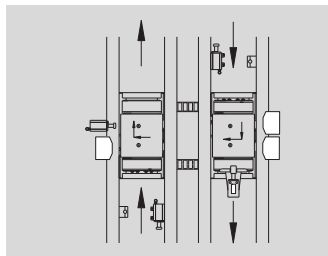
**XTUC F51/F52**



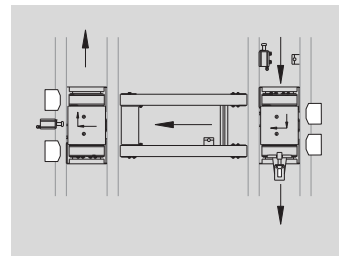
**XTUF S01A/S02A/S03A/S04**



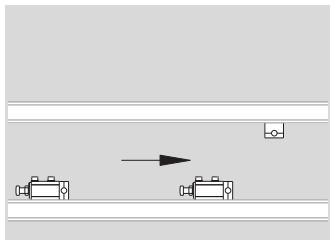
**XTUT S10 A/S11 A/S12 A**



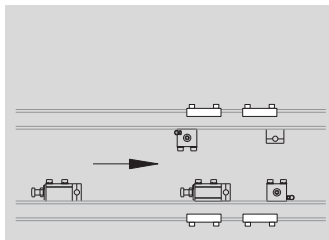
**XTUT R11 A/R12 A**



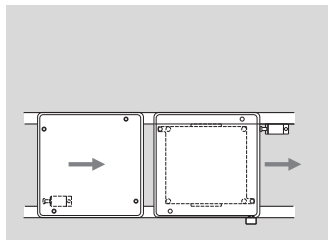
**XTUT M11 A/M12 A**



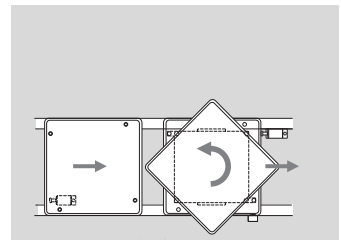
**XTUS P11**



**XTUL P11 A**



**XTUL P12**

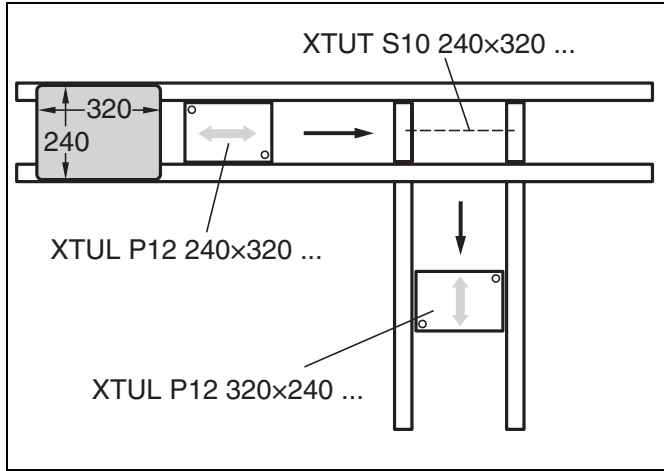


**XTUR P11**

# Definition of parameters

## Pallet width (PW) × pallet length (PL)

Pallet width and pallet length. PL is basically the pallet dimension in the direction of pallet movement in the main flow. In some modules the pallet moves “sideways”, for example when transferred from one line to another. See the module descriptions for PL/PW definitions in each specific case. The figure below shows an example.



## Length (L1, L2 and L3)

The length of each conveyor section as defined by each module drawing.

## Length (A)

Length A is the distance between the two inner beams (outer edges).

## Height (H1)

H1 is equivalent to the chain height.

## Height (H2)

H2 is equivalent to the chain height of a second, lower, conveyor, if applicable.

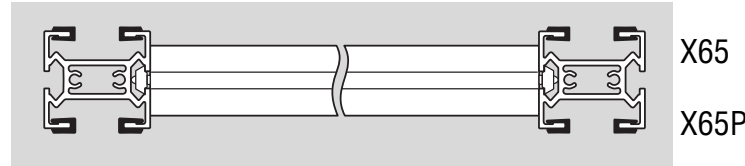
## Standard/Conductive (AS)

- Standard version (AS0)
- Conductive version (AS2). See “Static electricity” on page 339.
- Dissipative version (AS3). Only for XT Compact.

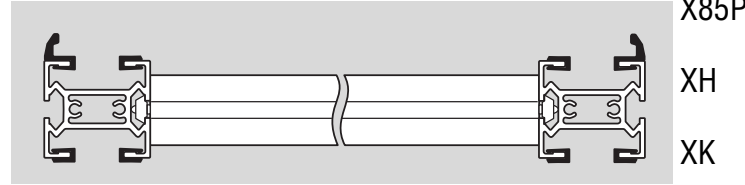
## Slide rail configuration

The following figures show the four different slide rail options applicable to XT conveyors.

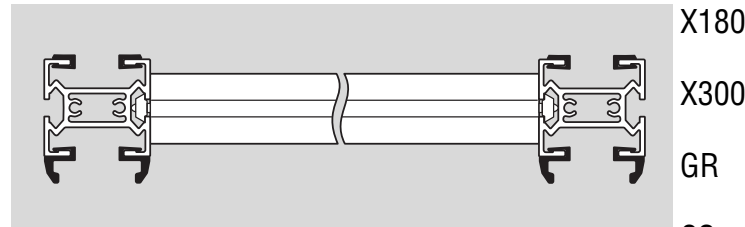
### G0: No pallet side guides



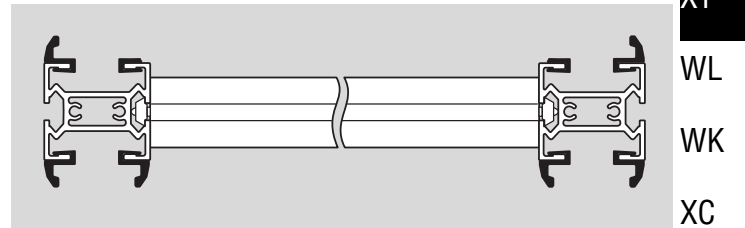
### G2: Pallet side guides



### G4: No pallet side guides, protection of return chain



### G6: Pallet side guides, protection of return chain



## Motor speed (V)

Equivalent to conveyor chain speed in m/min.

P0

CC

X45

XS

X65

X65P

X85

X85P

XH

XK

XKP

X180

X300

GR

CS

XT

WL

WK

XC

XF

XD

ELV

CTL

FST

TR

APX

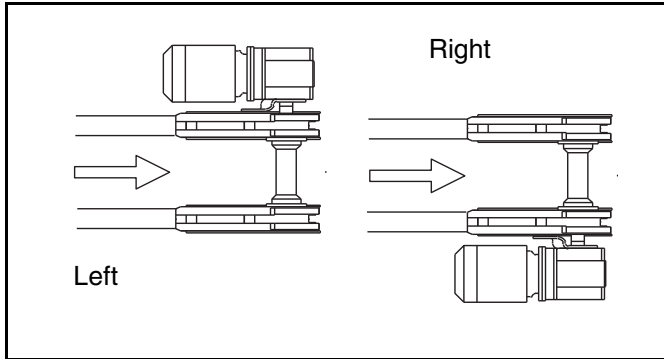
IDX

### Motor type (MT)

The motor unit can be mounted on the:

- Left side of the conveyor
- Right side of the conveyor
- Below the conveyor (mid-mounted)

Left/Right refers to the location of the motor in relation to the direction of chain travel. See figure.



### European /American motor (Hz)

Operating frequency of the motor:

- European, 50 Hz
- American, 60 Hz.

### Queue stop (Q)

Queue stop is used for queue accumulation

- Queue stop Q01
- No queue stop Q00

### Pallet damping (D)

This parameter determines if a non-shock absorbing or shock absorbing stopper is needed.

- No damping of pallet, max queue 200 kg (D00)
- Max damping of pallet, max queue 35 kg (D01)
- Max damping of pallet, max queue 100 kg (D02).

### Function (F)

- Use of **F** depends on module. Currently used with support modules XTUF and modules XTUL P11 A and XTUL P12.

### Electric control (E)

Options: E00–E02

- Without sensors
- With PNP sensors
- With NPN sensors

Currently used with modules XTUL P12 and XTUR P11. See module descriptions for details.

## General information

### Support modules

Note that the conveyors and transfers are not delivered with support modules. They must be ordered separately (see page 343).

### Standard or conductive

The conveyors and transfers can be delivered in standard and conductive versions, see “Ordering information”. See also “Static electricity” on page 339.

### Note on energy consumption

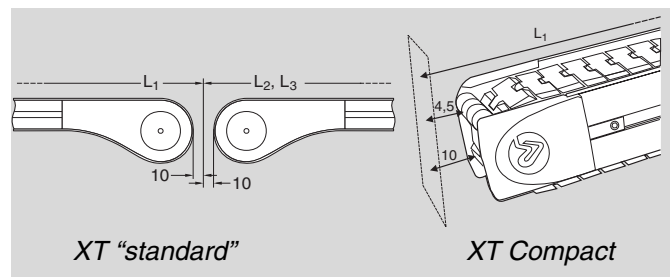
Since friction build-up is maximum in the bends, keep conveyor sections which are separated from the drive unit by bends as short as possible, to minimize energy consumption.

### Components and accessories

For detailed component information, see page 353– 378.

### Minimum clearance distance

When two conveyors meet end to end, they must be separated by a minimum clearance distance. See the figure. The dimensions shown in the product drawings ( $L_1/L_2/...$ ) include this clearance distance.



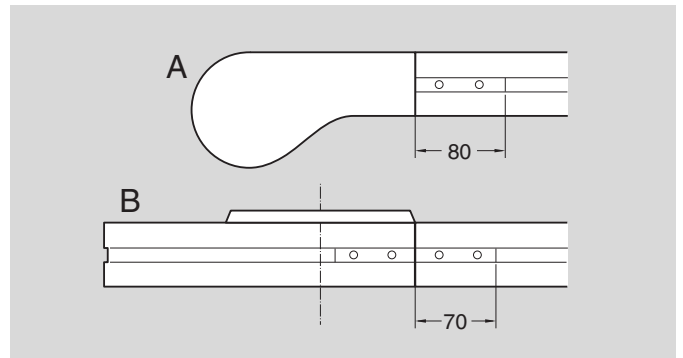
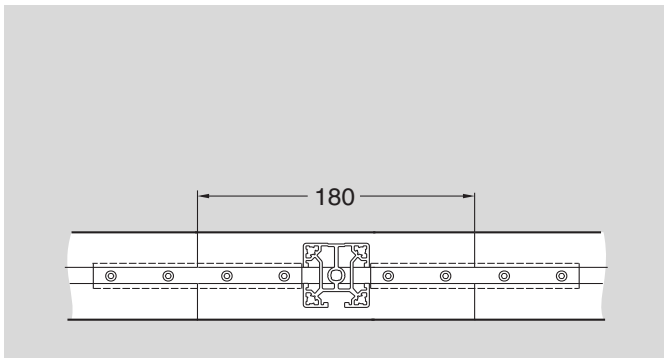
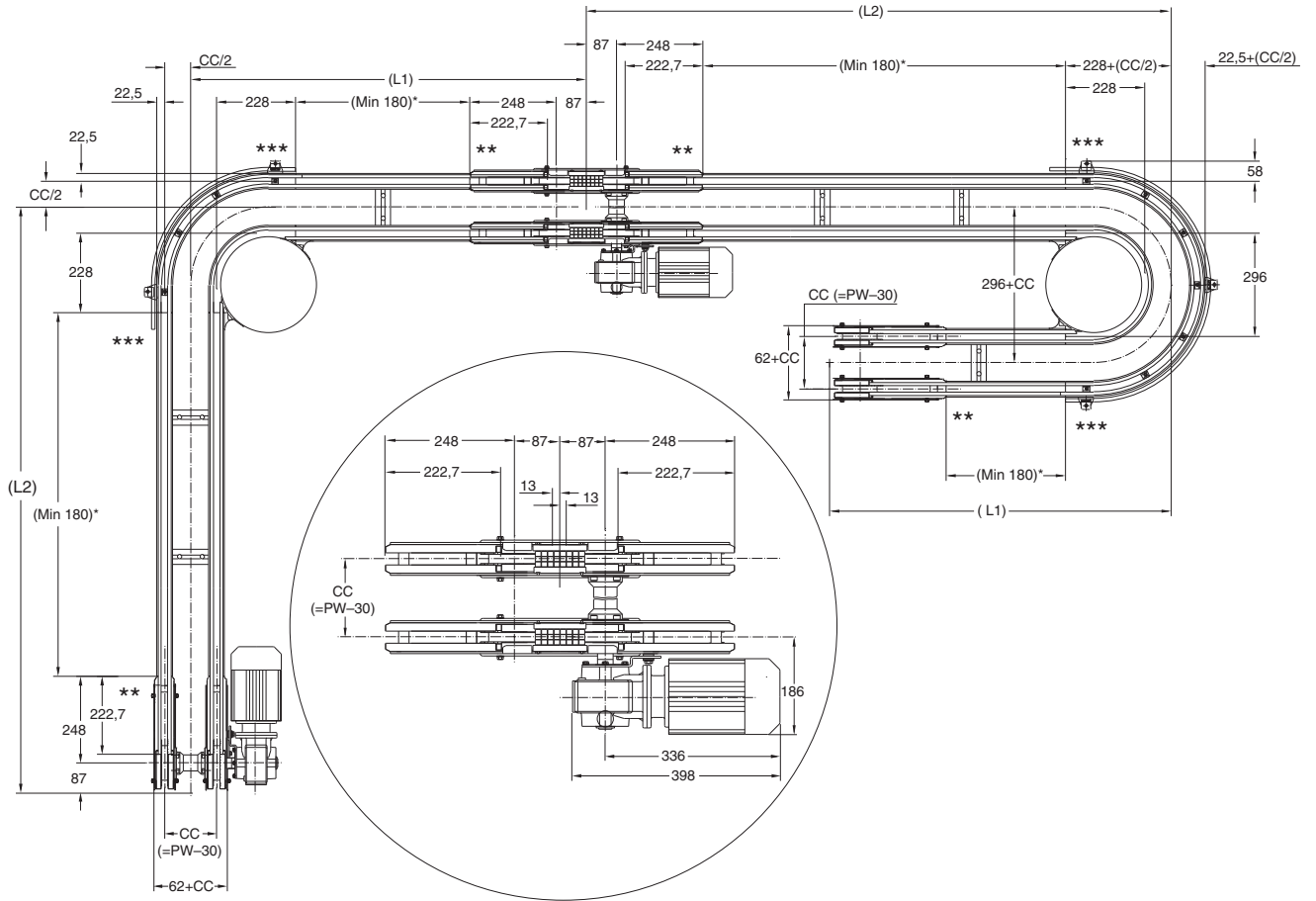
### Maximum load on conveyors

See “Chain tension calculations” software, and “Technical information” on page 338.

### More information

For logic flowchart and pneumatic diagram: see separate document *XT logic flowcharts*.

General dimensions



\* Minimum length of conveyor beam section.

Note

Attachment of a support module normally requires more space in this section than 180 mm.

Near a drive unit\*\* or idler end unit\*\* (Fig. A), or a wheel bend\*\*\* (Fig. B), the T-slots are occupied by connecting strips.

PO  
CC  
X45  
XS  
X65  
X65P  
X85  
X85P  
XH  
XK  
XKP  
X180  
X300  
GR  
CS  
XT  
WL  
WK  
XC  
XF  
XD  
ELV  
CTL  
FST  
TR  
APX  
IDX

## Chain tension calculations

### Chain tension limit, XT conveyor

See diagrams 1 and 2. See also chain tension calculation software.

(AS0 = standard chain; AS1 = ISD chain; AS2 = conductive chain)

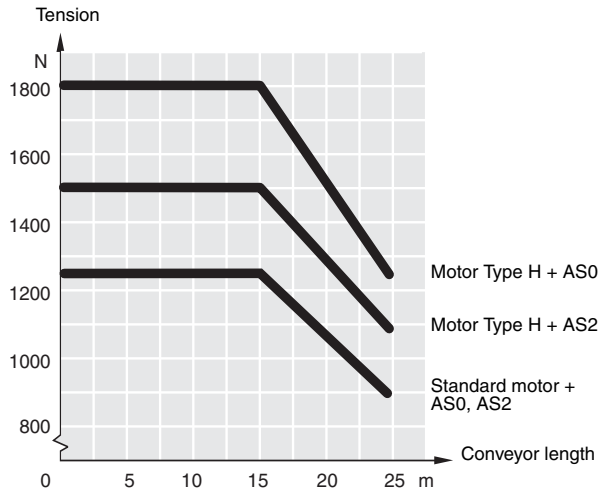


Diagram 1. Maximum chain tension vs. conveyor length

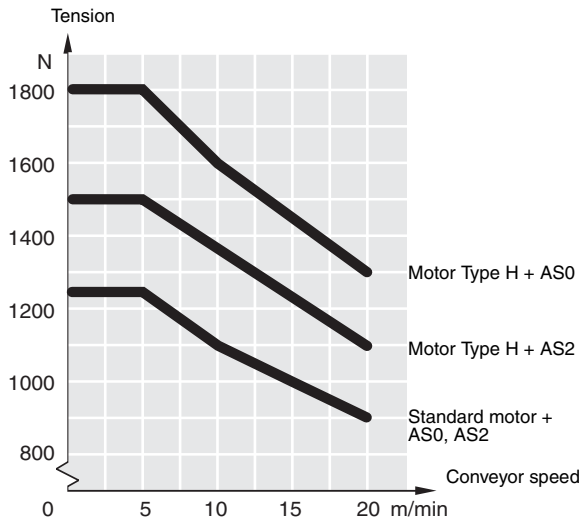


Diagram 2. Maximum chain tension vs. conveyor speed

### Chain tension limit, XT Compact conveyor

Use chain calculation software.

#### 50 Hz motor

Speed (m/min)	V05	V10	V15	V20
Fmax (N)	360	350	220	190

#### 60 Hz motor

Speed (m/min)	V06	V12	V18
Fmax (N)	360	280	170

### Chain tension limit per track

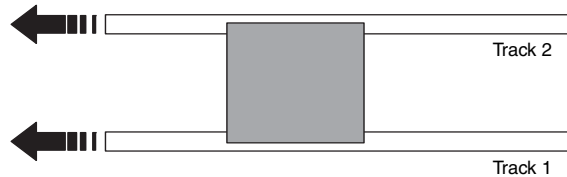
#### XT conveyor

Chain type	AS0	AS1	AS2
Fmax (N)	900	450	750

#### XT Compact conveyor

Chain type	AS0	AS1	AS2
Fmax (N)	180	180	180

(AS0 = standard chain; AS1 = ISD chain; AS2 = conductive chain)



## Technical data

### Drive units

Drive unit	Maximum traction force, N
End drive unit	1250
End drive unit, Type H	1800
Catenary drive unit	1250

### Chains, general specifications

Parameter	XT	XT Compact
Weight (plain chain) kg/m	0,62	0,28
Tensile strength at 20 °C	900 450 (ISD) 750 (conductive)	180 180 (ISD) 180 (conductive)
Hardness H <sub>RB</sub>	120	120
Water absorption after 24 h at 20 °C	0,2 %	0,2 %

### Chain strength and expansion vs. temperature

Temperature °C	-20	0	20	40	60	80	100	120
Tensile strength factor	1,2	1,1	1,0	0,9	0,8	0,6	0,5	0,3
Linear expansion %	-0,4	-0,2	0	0,2	0,5	0,8	1,0	1,3

### Friction between chain and slide rail

#### XTCR 25 U/ XTCR 3 UB

(UHMW-PE, white)..... 0,15–0,3

The coefficient of friction is normally the lower value at the startup of a new conveyor. It will increase as the contact surfaces wear in. Lubrication will reduce the coefficient of friction.



*Friction between chain and pallet*

CC

In most cases, the coefficient of friction for contact between plain chain and pallet is between 0,1 and 0,35.

X45

*Temperature limits*

XS

A conveyor can operate continuously at environment temperatures from -20 °C to +60 °C. Temperatures up to +100 °C can be tolerated for short periods (cleaning, rinsing).

X65

X65P

*Maximum conveyor length*

X85

The maximum length of a conveyor depends on the tension in the chain, the speed, and the capacity of the drive unit.

X85P

It is important to calculate and compare the maximum chain tension and the capacity of the drive unit in the following situations:

XH

- Heavy load
- Accumulation
- High speed
- Long conveyor
- Frequent starts and stops (high service factor).

XK

XKP

X180

X300

*Static electricity*

GR

The standard plastic materials used for conveyors all have low electrical conductivity. This means that static electricity can build up on the conveyor. If the chain runs on plastic slide rails, no inherent discharge path exists for the static electricity.

CS

When a conveyor is running under normal operating conditions but without pallets, the following static build-up can be measured:

XT

- At the drive unit ..... 2000–2500 V
- At the idler end unit ..... 400–500 V
- At a wheel bend ..... 400–500 V
- At a straight section..... 300–400 V

WL

WK

A pallet running on the conveyor can also build up static electricity. The worst case is with accumulated pallets. Discharge is normally taking place when the pallets are transferred to or from the conveyor. In static sensitive applications, a number of measures can be taken to reduce the risk of excessive static charges.

XC

XF

XD

- 1 Ensure that the relative humidity is minimum 40%.
- 2 Install static discharge wipers immediately before sensitive points on the conveyor.

ELV

CTL

*Components for static sensitive environments*

FST

Some of FlexLink's chains and slide rails can be ordered in carbon loaded versions. The carbon loaded material has high conductivity.

TR

Contact your FlexLink Systems representative for additional information.

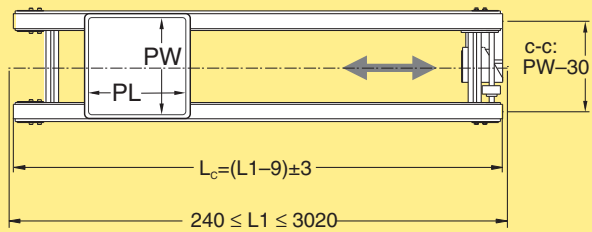
APX

IDX

# XT Compact conveyor module

## Conveyor module S11 Compact

### Straight conveyor, Compact



Straight conveyor module, Compact **XTUC S11 ...**

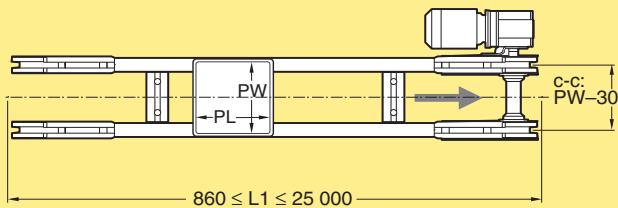
XT Compact products use standard 1-phase motors, 240 V 50 Hz or 115 V 60 Hz. For use as stand-alone unit, as perpendicular link between two XT conveyor modules, or in-line with another conveyor module. Reversible operation is possible. The module is delivered fully assembled.  
Configuration: see page 342.

The Compact series modules use a different type of conveyor beam and chain as compared to other modules. Type XTUC S11 ... is the only stand-alone Compact conveyor module, but Compact conveyors are used in Transfer modules.

# XT conveyor modules

## Conveyor module S51

### Straight conveyor



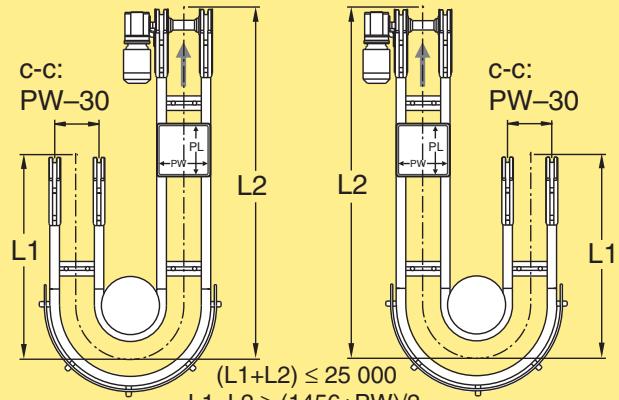
Straight conveyor module **XTUC S51 ...**

For use as a stand alone unit, in-line with or perpendicular to another module. Reversible operation is not possible.  
Configuration: see page 342.

# XT conveyor modules (continued)

## Conveyor module J51/J52

### Conveyor J



**XTUC J51**

**XTUC J52**

Conveyor module type J51  
Conveyor module type J52

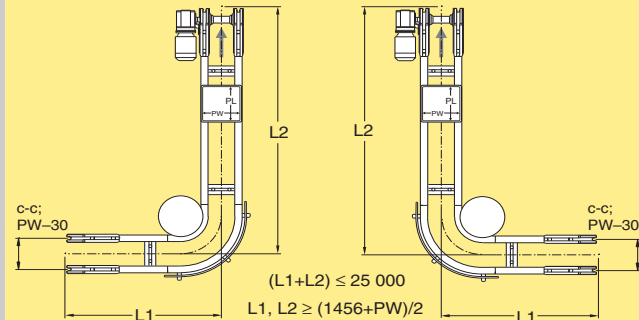
**XTUC J51 ...**  
**XTUC J52 ...**

For use as a stand alone unit, in-line with or perpendicular to another module. Reversible operation is not possible.

Configuration: see page 342.

## Conveyor module L51/L52

### Conveyor L



**XTUC L51**

**XTUC L52**

Conveyor module type L51  
Conveyor module type L52

**XTUC L51 ...**  
**XTUC L52 ...**

For use as a stand alone unit, in-line with or perpendicular to another module. Reversible operation is not possible.

Configuration: see page 342.

Conveyor module Q51/Q52

**Conveyor Q**

**XTUC Q51**

**XTUC Q52**

Conveyor module type Q51  
Conveyor module type Q52

**XTUC Q51 ...**  
**XTUC Q52 ...**

This type of module uses a catenary drive unit, which means that the chain runs on the top side only. For use as a stand alone unit or as a transfer module to another module. Reversible operation is not possible. Configuration: see page 342.

Conveyor module U51/U52

**Conveyor U**

**XTUC U51**

**XTUC U52**

Conveyor module type U51  
Conveyor module type U52

**XTUC U51 ...**  
**XTUC U52 ...**

For use as a stand alone unit, in-line with or perpendicular to another module. Reversible operation is not possible. Configuration: see page 342.

Conveyor module Z51/Z52

**Conveyor Z**

**XTUC Z51**

**XTUC Z52**

Conveyor module type Z51  
Conveyor module type Z52

**XTUC Z51 ...**  
**XTUC Z52 ...**

For use as a stand alone unit, in-line with or perpendicular to another module. Reversible operation is not possible. Configuration: see page 342.

Conveyor module F51/F52

**Conveyor F**

**XTUC F51**

**XTUC F52**

Conveyor module type F51  
Conveyor module type F52

**XTUC F51 ...**  
**XTUC F52 ...**

For use as a stand alone unit, in-line with or perpendicular to another module. Reversible operation is not possible. Configuration: see page 342.

PO  
CC  
X45  
XS  
X65  
X65P  
X85  
X85P  
XH  
XK  
XKP  
X180  
X300  
GR  
CS  
XT  
WL  
WK  
XC  
XF  
XD  
ELV  
CTL  
FST  
TR  
APX  
IDX

# Conveyor module configuration examples

Parameter	Pallet width × Pallet length (mm)	Lengths (mm)	Standard/Conductive/Dissipative			Slide rail configuration				Motor speed (m/min)										Motor type				50 Hz/60 Hz motor					
	PW×PL		L1-L2-L3	AS			G				V										MT				Hz				
Options	240×240 240×320 320×240 320×320 320×400 400×320 400×400 400×480 400×640 480×400 480×480 480×640 640×480 640×640	Dimension ranges: see module drawings	AS0 Standard version	AS2 Conductive version	AS3 Dissipative version	G0	G2	G4	G6	V00**	V05	50 Hz			V10	V12	60 Hz			V16	V18	V20*	L Left-mounted	R Right-mounted	M Mid-mounted	HM Heavy mid-mounted	E1 European (50 Hz)	A1 American (60 Hz)	
<b>XTUC S11</b>	<b>PW</b>	<b>L1</b>	<b>AS</b>			<b>G</b>				<b>V</b>										<b>MT</b>				<b>Hz</b>					
XTUC S11	240	1834	AS0			G2				---	V10														M		E1		
<b>XTUC S51</b>	<b>PW</b>	<b>L1</b>	<b>AS</b>			<b>G</b>				<b>V</b>										<b>MT</b>				<b>Hz</b>					
XTUC S51	240	12350	AS2	---		G0								V06									L					A1	
<b>XTUC J51/J52</b> <b>XTUC L51/L52</b>	<b>PW×PL</b>	<b>L1- L2</b>	<b>AS</b>			<b>G</b>				<b>V</b>										<b>MT</b>				<b>Hz</b>					
XTUC J51	240×240	2350-4750	AS2	---		G4								V10												HM		A1	
<b>XTUC Q51/Q52</b>	<b>PW×PL</b>	<b>L1-L2</b>	<b>AS</b>			<b>G</b>				<b>V</b>										<b>MT</b>				<b>Hz</b>					
XTUC Q52	400×480	900-3000	AS0		---	G2	-	-			V10												L		---	---	E1		
<b>XTUC U51/U52</b> <b>XTUC Z51/Z52</b> <b>XTUC F51/F52</b>	<b>PW×PL</b>	<b>L1-L2-L3</b>	<b>AS</b>			<b>G</b>				<b>V</b>										<b>MT</b>				<b>Hz</b>					
XTUC U51	240×320	1200-1350-1550	AS0		---	G2				V00																	HM	E1	

Parameters: see page 335.

Support modules S01A/S02A/S03A/S04

**Support module for single conveyor module**

Support module **XTUF S01A ...**  
 Including beam support brackets and floor attachment brackets XCFA 170 S.

**Support module for conveyor modules at two levels**

Support module **XTUF S03A ...**  
 Including beam support brackets and floor attachment brackets XCFA 170 S.

**Support module for two parallel conveyor modules**

Support module **XTUF S02A ...**  
 Including beam support brackets and floor attachment brackets XCFA 170 S.

**Support module for wheel bends**

Support module **XTUF S04 ...**  
 Including beam support brackets and floor attachment brackets XCFA 170 S.

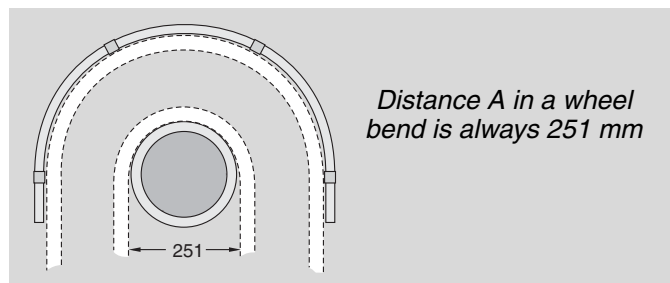
Note.

Two types of beam support brackets are used in the modules: type 5052899 for standard XT, and type 5052621 for XT Compact. The brackets are also available separately. See page 365.

## XT support modules (continued)

### Distance A

If two parallel conveyor modules are joined by a wheel bend, the distance between conveyors is fixed. In this case “distance A” in the designation code is always 251 mm. See figure.

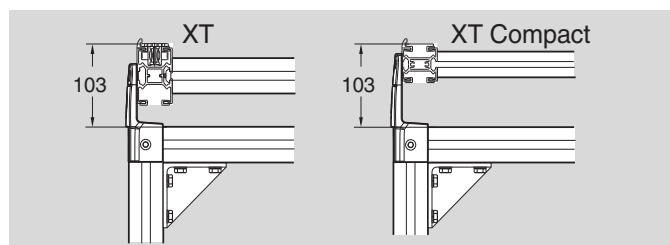


### Delivery

The modules will be delivered fully assembled including beam support brackets and feet, and the screws and nuts required for connecting to an XT or XT Compact conveyor. Fasteners for connecting the support modules to the floor are not included. See also page 332, “The modular concept/shipment”.

### Application usage

Recommended distance between two support modules is maximum 2 m.



### Ordering information

See configuration examples below. The parameter F is used to ensure that the support module is delivered with the correct beam support brackets. It indicates the type of XT conveyor supported by the module (XT or XT Compact, or a combination of both).

- Bracket type (F)

(Definitions of P1 and P2: see figures on page 343.)

Type XTUF...	F	P1	P2
S01A	01	XT	–
	02	XT Compact	–
S02A	01	XT	XT
	02	XT Compact	XT Compact
	03	XT	XT Compact
S03A	01	XT	XT
	02	XT Compact	XT Compact
	03	XT	XT Compact
	04	XT Compact	XT

## Support module configuration examples

Parameter	Pallet width (mm)	Distance (mm)	Height 1 (mm)	Height 2 (mm)	Bracket type			
	PW	A	H1	H2	F			
Options	240 320 400 480 640	Dimension ranges: see module drawings.			Parameter descriptions, see table above			
					F01	F02	F03	F04
<b>XTUF S01 A</b>	<b>PW</b>		<b>H1</b>		<b>F</b>			
XTUF S01 A	240	---	1225	---	01		---	---
<b>XTUF S02 A</b>	<b>PW</b>	<b>A</b>	<b>H1</b>		<b>F</b>			
XTUF S02 A	240	95	1375	---		02		---
<b>XTUF S03 A</b>	<b>PW</b>		<b>H1</b>	<b>H2</b>	<b>F</b>			
XTUF S03 A	240	---	850	550		02		
<b>XTUF S04</b>			<b>H1</b>					
XTUF S04	---	---	1250	---	---	---	---	---

Parameters: see page 335.

Transfer module S10 A

**Transfer module S – main to cross**

Transfer module S10 **XTUT S10 A ...**

*For transfer of pallets/products away from a conveyor.  
Maximum lifting payload: 30 kg at 6 bar.  
Configuration: see page 348.*

Transfer module S12 A

**Transfer module S – cross to mid main**

Transfer module S12 **XTUT S12 A ...**

*For receiving of pallets/products to a conveyor with oncoming traffic.  
Maximum lifting payload: 30 kg at 6 bar.  
Configuration: see page 348.*

Transfer module S11 A

**Transfer module S – cross to end main**

Transfer module S11 **XTUT S11 A ...**

*For receiving of pallets/products to a conveyor without oncoming traffic.  
Maximum lifting payload: 30 kg at 6 bar.  
Configuration: see page 348.*

Motor

The transfer units are delivered with 15 m/min (E1) or 18 m/min (A1) motor.

Included in the delivery:

- One pneumatic transfer unit including the necessary proximity sensors.
- The necessary mounting hardware required for attachment to an XT or XT Compact conveyor.
- The required number of stoppers, dampers and sensor brackets based on the options selected.

CC

X45

XS

X65

X65P

X85

X85P

XH

XK

XKP

X180

X300

GR

CS

XT

WL

WK

XC

XF

XD

ELV

CTL

FST

TR

APX

IDX

## Transfer module R11 A

**Transfer module R – cross to end main**

Transfer module R11 **XTUT R11 A ...**

*For transfer of pallets/products from one conveyor to a parallel conveyor without oncoming traffic.  
Maximum lifting payload: 30 kg at 6 bar.  
Configuration: see page 348.*

## Transfer module R12 A

**Transfer module R – cross to mid main**

Transfer module R12 **XTUT R12 A ...**

*For transfer of pallets/products from one conveyor to a parallel conveyor with oncoming traffic.  
Maximum lifting payload: 30 kg at 6 bar.  
Configuration: see page 348.*

### Motor

The transfer units are delivered with 15 m/min (E1) or 18 m/min (A1) motor.

### Included in the delivery:

- Two pneumatic transfer units including the necessary proximity sensors.
- The necessary mounting hardware required for attachment to an XT or XT Compact conveyor.
- 2 roller kits, distance A.
- The required number of stoppers, dampers and sensor brackets based on the options selected.



**Transfer module M11 A**

**Transfer module M12 A**

**Transfer module M – cross to end main**

**Transfer module M11**                      **XTUT M11 A ...**

*For transfer of pallets/products from the main conveyor to a parallel conveyor via an XT Compact conveyor, without oncoming traffic.*  
*Maximum lifting payload: 30 kg at 6 bar.*  
*If  $L1 \leq 210 + PW$  it is not possible to use queue stop in the traverse conveyor, i.e. only  $Q=Q00$  is possible*  
*Configuration: see page 348.*

**Transfer module M – cross to mid main**

**Transfer module M12**                      **XTUT M12 A ...**

*For transfer of pallets/products from one conveyor to a parallel conveyor, via an XT Compact conveyor, with oncoming traffic.*  
*Maximum lifting payload: 30 kg at 6 bar.*  
*If  $L1 \leq 210 + PW$  it is not possible to use queue stop in the traverse conveyor, i.e. only  $Q=Q00$  is possible*  
*Configuration: see page 348.*

**Motor**

The transfer units are delivered with 15 m/min (E1) or 18 m/min (A1) motor

**Included in the delivery:**

- Two pneumatic transfer units including the necessary proximity sensors.
- One XT Compact conveyor, length L1, with mounting brackets.
- The necessary mounting hardware required for attachment to an XT or XT Compact conveyor.
- The required number of stoppers, dampers and sensor brackets based on the options selected.

## Transfer module configuration examples

Parameter	Pallet width x Pallet length (mm)	Lengths (mm)	Distance (mm)	Standard/Conductive/Dissipative	Motor speed (m/min)								Motor type	European/American motor	Queue stop traverse conveyor	Pallet damping
					AS		V									
Options	240x240 240x320 320x240 320x320 320x400 400x320 400x400 400x480 400x640 480x400 480x480 480x640 640x480 640x640	Dimension ranges: see module drawings		AS0 Standard version AS2 Conductive version	*V10 speed XT Compact conveyor								IM Mid-mounted	E1 European (50 Hz) A1 American (60 Hz)	Q00 No queue stop Q01 Queue stop	D00 No damping D01 Damping, max queue 35 kg
					V05	V10	V15	V20	V06	V12	V18					
XTUT S10 A XTUT S11 A XTUT S12 A	PWxPL			AS	V								MT	Hz		D
XTUT S11 A	240x320	---	---	AS0	---	---	V15	---	---	---		M	E1	---	---	D00
XTUT R11 A XTUT R12 A	PWxPL		A	AS	V								MT	Hz		D
XTUT R11 A	240x320	---	45	AS0	---	---		---	---	---	V18	M	A1	---	---	D01
XTUT M11 A XTUT M12 A	PWxPL	L1	A	AS	V								MT	Hz	Q	D
XTUT M11 A	240x320	1350	45	AS0		V10*						M	E1	Q00		D01

Parameters: see page 335.

Locating function module P11 A F00

**Locating function module (option F00)**

D = D00

D = D01

D = D02

Locating function module **XTUL P11 A ...F00**

*Singulates to stop and locates one pallet at a time along the conveyor with a repeatability in x and y directions of ±0,05 mm.*

*Two diagonal lift units with guide pins. Only for PW or PL ≤ 400 mm*

*Configuration: see page 352.*

Locating function module P11 A F01

**Locating function module (option F01)**

D = D00

D = D01

D = D02

Locating function module **XTUL P11 A ...F01**

*Singulates to stop and locates one pallet at a time along the conveyor with a repeatability in x and y directions of ±0,05 mm.*

*Four lift units: two diagonal lift units with guide pins and two without guide pins.*

*Configuration: see page 352.*

Included in the delivery:

- One locating station, including non-return throttle valves.
- The necessary number of stoppers and sensor brackets, based on the option selected.
- The necessary mounting hardware required for attachment to an XT or XT Compact conveyor.

**Stop function module P11**

**Stop function**

D = D00

D = D01

D = D02

**Stop function** **XTUS P11 ...**

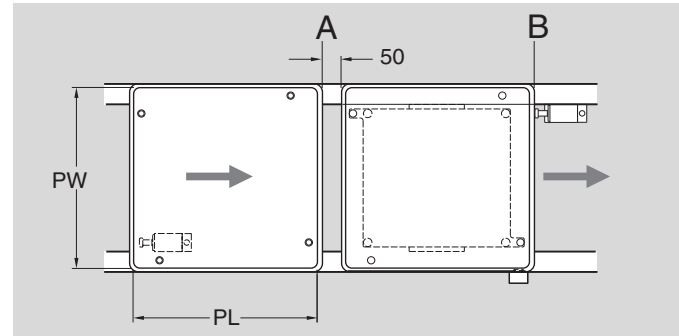
*Singulates and stops one pallet at a time along the conveyor line with a repeatability of  $\pm 1$  mm. The stop units can be mounted on the opposite side of the beam to facilitate pallet stopping at the front end of the pallet. Configuration: see page 352.*

Included in the delivery:

- The necessary number of stoppers and sensor brackets, based on the option selected.
- The necessary mounting hardware required for attachment to an XT or XT Compact conveyor.

**Lift-and-locate function module XTUL P12**

The lift-and-locate function is used when a product needs to be located at a specific height prior to a machine operation. The device can be mounted in three ways (options F00–F02).

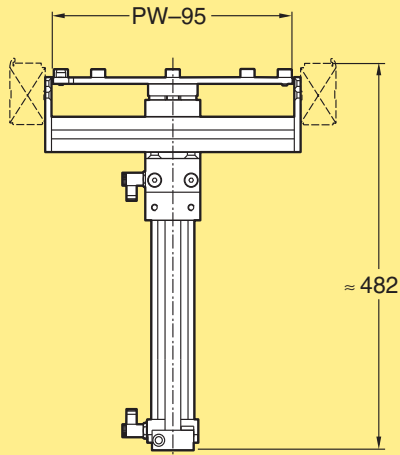


**Lift-and-locate module (option F00)**

**Lift-and-locate function module** **XTUL P12 ... F00 ...**

*Option F=00: Module is attached to horizontal surface. Configuration: see page 352.*

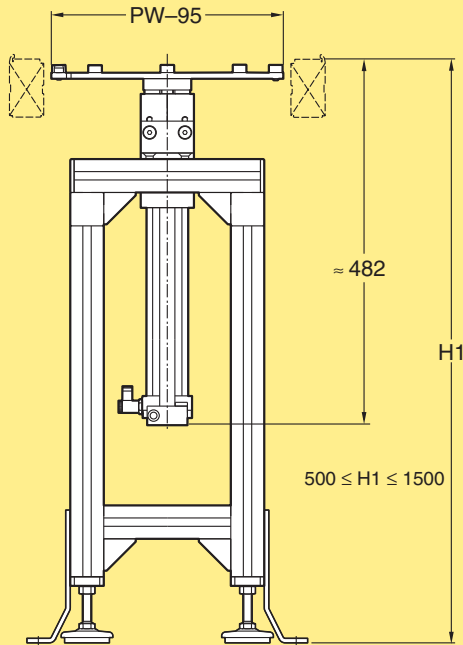
**Lift-and-locate module (option F01)**



Lift-and-locate function module **XTUL P12 ... F01 ...**

*Option F=01: Module is attached to conveyor.  
Other dimensions: see XTUL P12 ... F00 ...  
Configuration: see page 352.*

**Lift-and-locate module (option F02)**



Lift-and-locate function module **XTUL P12 ... F02 ...**

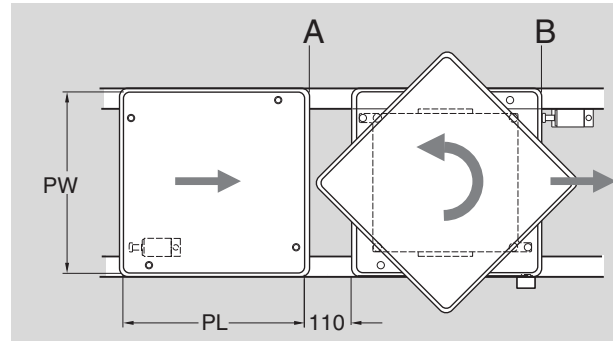
*Option F= 02: Module is attached to support frame.  
Other dimensions: see XTUL P12 ... F00 ...  
Configuration: see page 352.*

*Delivery*

- One lift-and-locate module, including non-return throttle valves.
- The necessary number of stoppers and sensor brackets, based on the option selected.
- The necessary mounting hardware required for attachment to an XT or XT Compact conveyor, depending on the F01 or F02 option.

**Lift-and-rotate function module XTUR P11**

The lift-and-rotate module can turn the pallet 180°. It can be useful in systems with a mix of bends and transfers, or in a process where the pallet needs to be rotated prior to a machine operation.



*Note*

*To protect persons from the clamp risk, the unit must be covered.*

*Delivery*

- One lift-and-rotate station, including non-return throttle valves
- The necessary number of stoppers and sensor brackets, based on the options selected
- The necessary mounting hardware required for connection to an XT or XT Compact conveyor.

CC

X45

XS

X65

X65P

X85

X85P

XH

XK

XKP

X180

X300

GR

CS

XT

WL

WK

XC

XF

XD

ELV

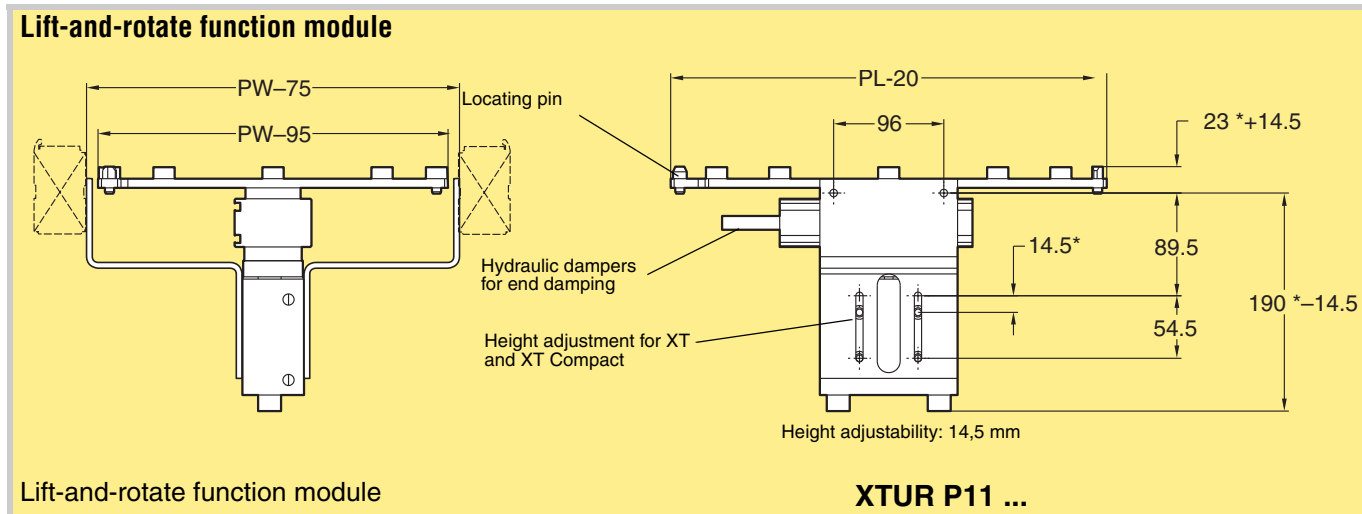
CTL

FST

TR

APX

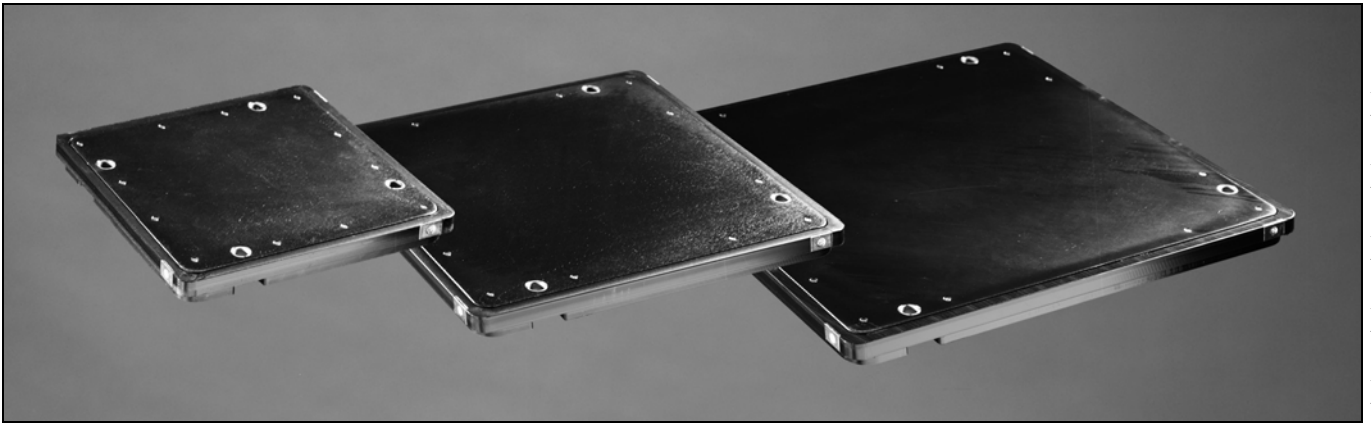
IDX



### Function module configuration examples

Parameter	Pallet width x Pallet length (mm)	Height 1 (mm)	Pallet damping			Function			Electric control		
	<b>PW×PL</b>		<b>H1</b>	<b>D</b>			<b>F</b>			<b>E</b>	
Options	240×240 240×320 320×240 320×320 320×400 400×320 400×400 *400×480 *400×640 *480×400 *480×480 *480×640 *640×480 *640×640 *Not for XTUR P11	500 mm < H1 < 1500 mm If F=F00/F01: H1=0000	D00 No damping	D01 Damping, max queue 35 kg	D02 Damping, max queue 100 kg	Description: see module drawing			E00 No sensors	E01 Two PNP sensors in cylinder unit	E02 Two NPN sensors in cylinder unit
<b>XTUS P11</b>			<b>D</b>								
XTUS P11	---	---			D02	---	---	---	---	---	---
<b>XTUL P11 A</b>			<b>D</b>			<b>F</b>					
XTUL P11 A	---	---	D00			F01	---	---	---	---	---
<b>XTUL P12</b>	<b>PW×PL</b>	<b>H1</b>	<b>D</b>			<b>F</b>			<b>E</b>		
XTUL P12	240×320	0000	D00			F01					E02
<b>XTUR P11</b>	<b>PW×PL</b>		<b>D</b>						<b>E</b>		
XTUR P11	400×400	---	D00			---	---	---			E02

Parameters: see page 335.

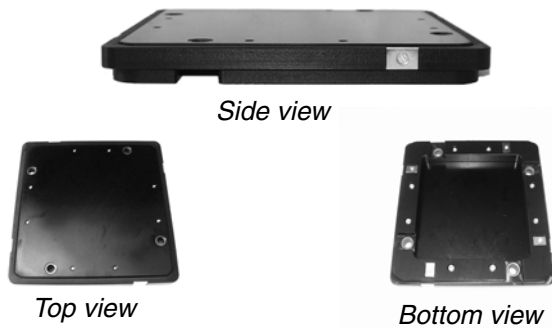


**Introduction**

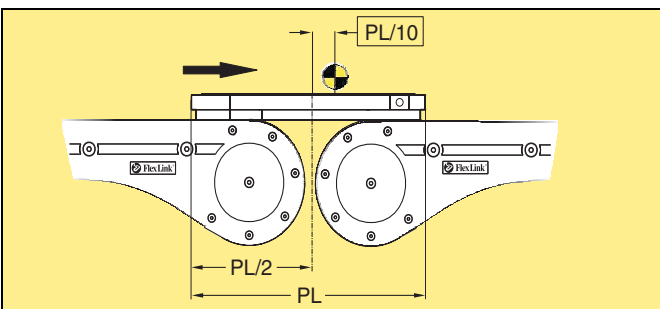
Ten pallet sizes are available:

- 240 × 240 mm
- 240 × 320 mm
- 320 × 320 mm
- 320 × 400 mm
- 400 × 400 mm
- 400 × 480 mm
- 400 × 640 mm
- 480 × 480 mm
- 480 × 640 mm
- 640 × 640 mm

For non-standard pallet dimensions, or for other pallet plate materials than steel, frame section kits and bushing kits can be ordered. See next page.



*Note!*



In order to get a good transition between two conveyors or in a transfer station, max. displacement of point of gravity should not exceed  $\pm PL/10$ .

**Technical specifications**

- Maximum load on the pallet is 80 N per 100 mm of pallet length (PL).
- Friction between pallet and chain,  $\mu_p = 0,3$  (under normal conditions).
- The table below shows maximum pallet load for each pallet size.

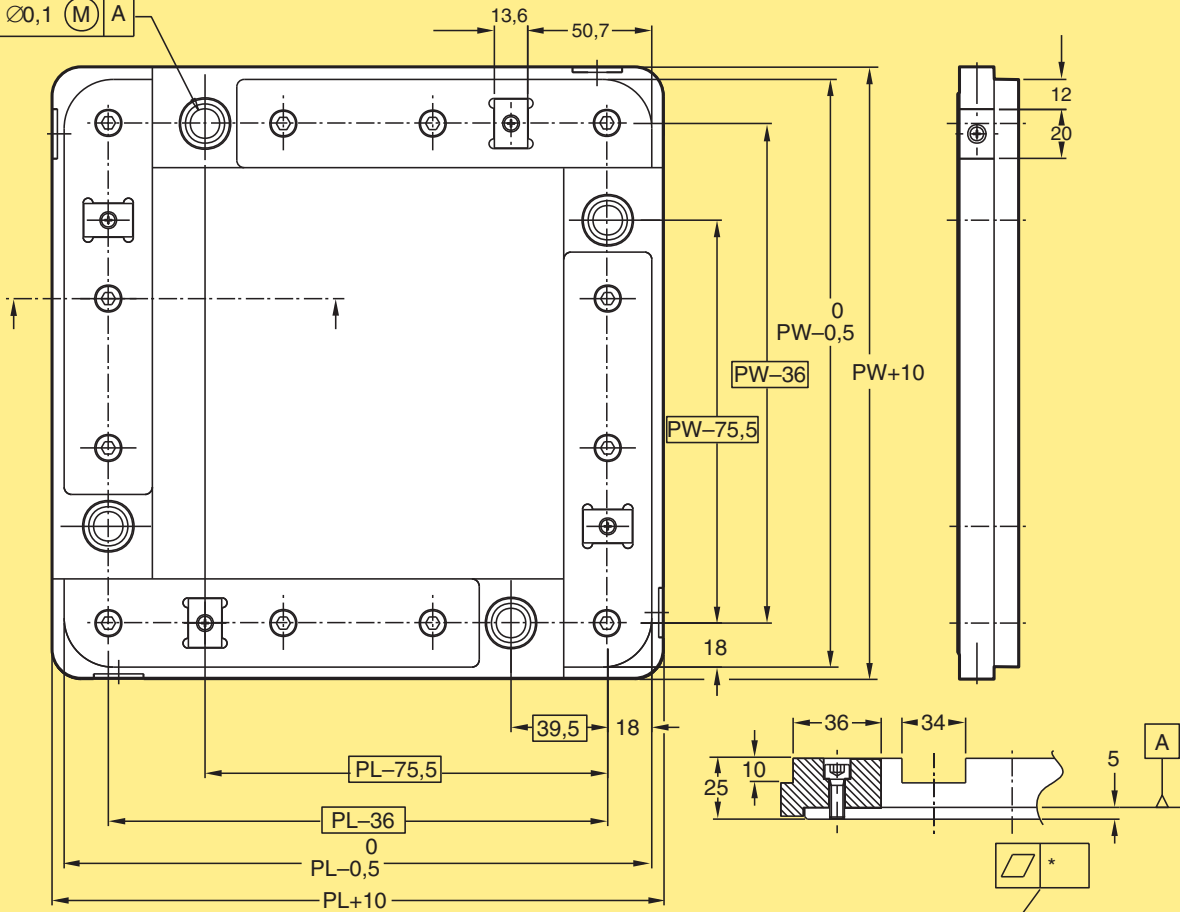
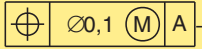
Size (PW × PL)	Pallet weight (kg)	Max load on pallet (kg)
240 × 240 mm	2,6	17
240 × 320 mm	3,5	22
320 × 240 mm	3,5	16
320 × 320 mm	4,4	22
320 × 400 mm	5,5	24
400 × 320 mm	5,5	20
400 × 400 mm	6,8	23
400 × 480 mm	8,2	22
400 × 640 mm	10,8	19
480 × 400 mm	8,2	22
480 × 480 mm	9,8	20
480 × 640 mm	13,0	17
640 × 400 mm	10,8	19
640 × 480 mm	13,0	17
640 × 640 mm	17,4	13

**Material specifications**

- Pallet plate ..... 5 mm  $\pm 0,1$  steel plate
- Frame..... Electrically conductive UHMW-PE

**Pallet PW×PL**

Ø12 H7 (4x)



\*

PW×PL	240×240	240×320	320×320	320×400	400×400	400×480	400×640	480×480	480×640	640×640
	0,3	0,5	0,5	0,6	0,6	0,8	0,8	0,8	1,0	1,0

Pallet PW × PL mm

**XTPP PW×PL**

When ordering, insert the pallet width and the pallet length instead of PW×PL in the designation.

**Frame section kit**

- Frame section kit 240 mm **5056945**
- Frame section kit 320 mm **5056950**
- Frame section kit 400 mm **5056938**
- Frame section kit 480 mm **5056940**
- Frame section kit 640 mm **5056952**



Each kit contains two frame pieces, six bushings and four initiation plates with screws. The frames and bushings are suitable for screws type MC6S M6×16 (not included). Two kits are required for each pallet. For use as spare parts and for building non-standard pallets in combination with customer supplied pallet plates.

**Bushing kit**

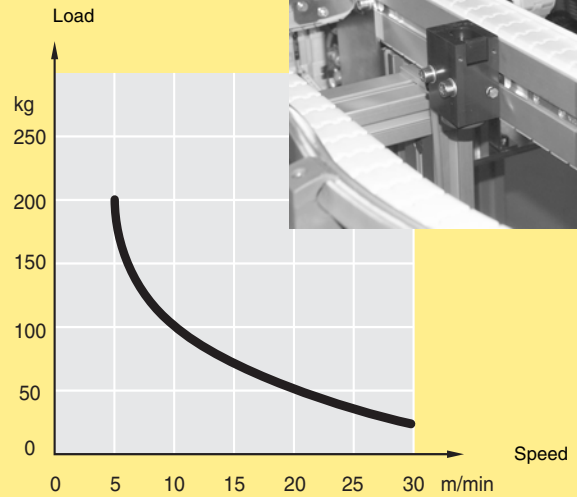
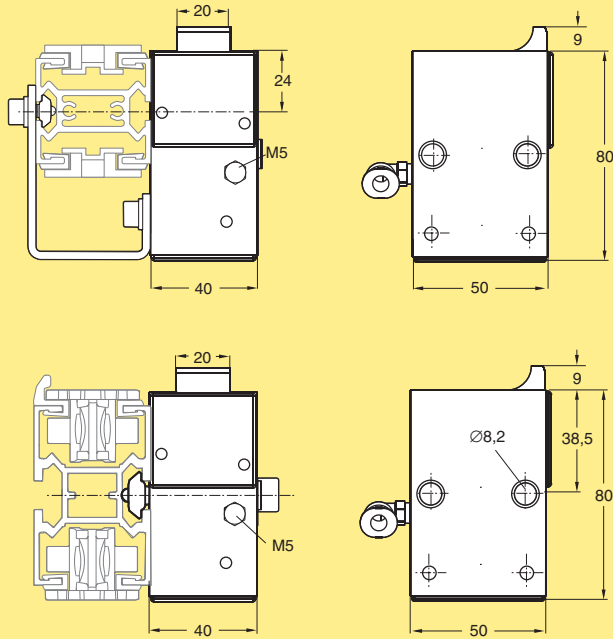
- Four bushings **5056944**



For building non-standard pallets in combination with customer supplied pallet plates. The bushings are designed for plate thickness 5 mm and should be press-fitted into Ø16 mm holes.



**Pallet stop device U200**



Maximum load vs. conveyor speed

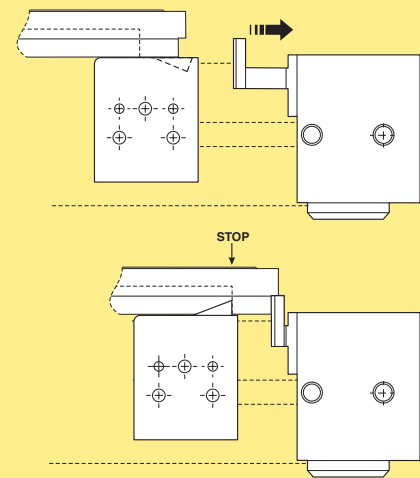
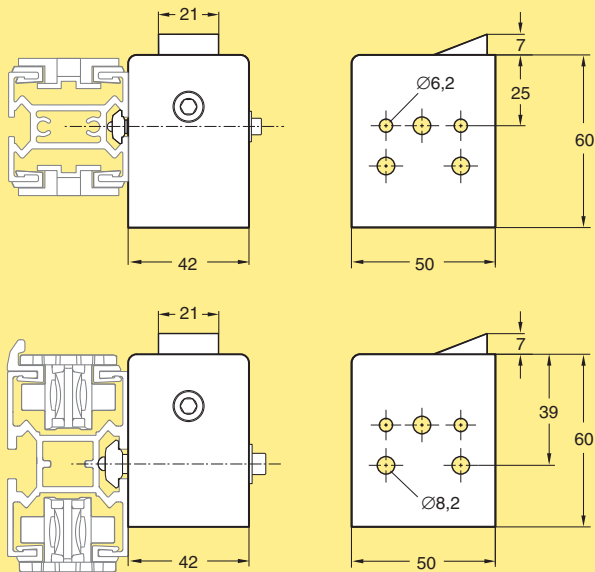
Pneumatic stopper, 0–200 kg **XTPD U200**

Pressure range: Treated compressed air: 4–8 bar  
 Air connection: 6 mm outside diameter tubing  
 Separating function:  
 Open: pneumatically. Close: spring-loaded.  
 Mounting hardware is included.

To reduce the noise level, the stopper includes an integrated throttle valve. The throttle setting can be adjusted by means of a screwdriver.

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

**Pallet stop device UR**



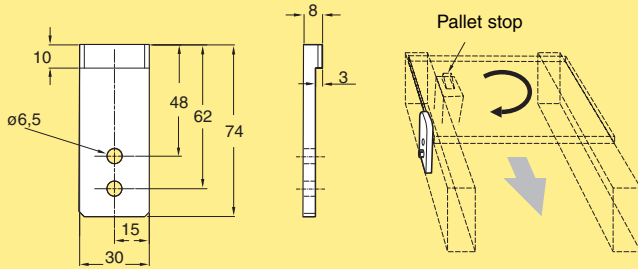
Stop XTPD UR prevents the pallet from sliding backwards.

Return stop **XTPD UR**

Used in combination with pallet stop devices XTPD U200, D35 or D100.

The necessary mounting hardware for attachment to an XT or XT Compact conveyor is included in the delivery.

**Side support for pallet stop**

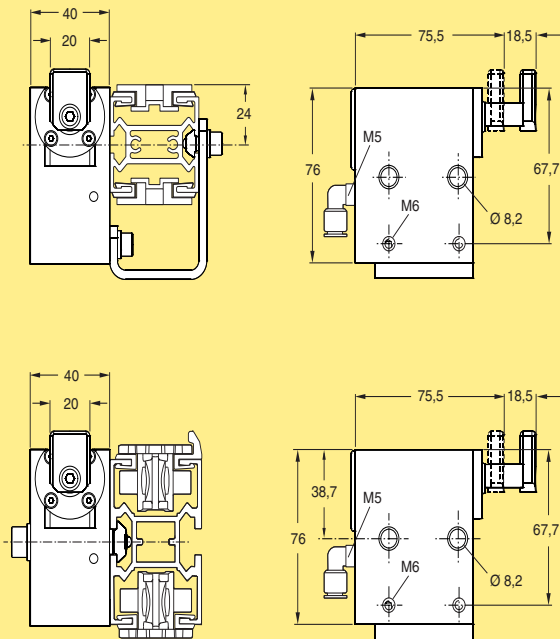


Side support

**5055955**

The side support is used with pallet sizes larger than 400 mm x 400 mm to minimize the transverse force on the side guide. Hardware for attachment to the conveyor is included in the delivery.

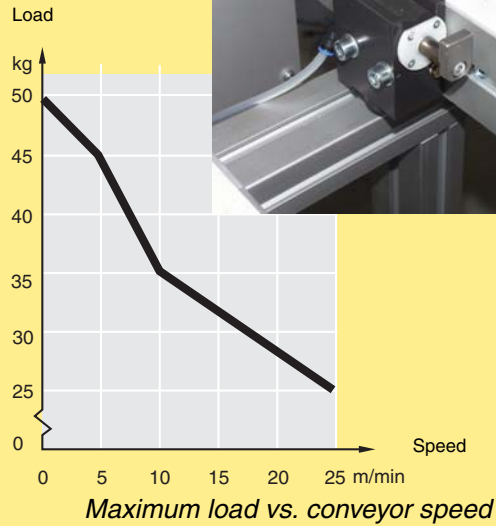
**Pallet stop device, damped**



Damped stopper, 0–35 kg

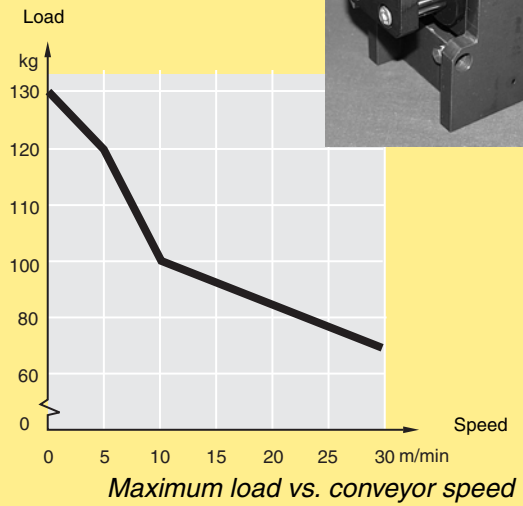
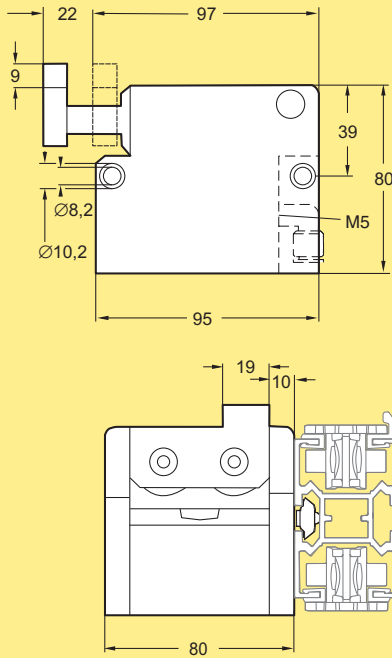
**XTPD D35**

Pressure range: Treated compressed air: 4–8 bar  
 Air connection: 6 mm outside diameter tubing  
 Separating function:  
 Open: pneumatically. Close: spring-loaded  
 Mounting hardware is included.



To reduce the noise level, throttle valves should be used (M5). These are not included. The diagram shows the maximum permissible weight of a group of pallets (product weight + pallet weight), which the stop device is capable of stopping, as a function of the conveyor speed.

**Pallet stop device, damped**



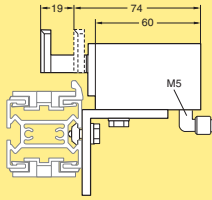
Damped stopper, 0–100 kg **XTPD D100**

Pressure range: Treated compressed air: 4–8 bar  
 Air connection: 6 mm outside diameter tubing  
 Separating function:  
 Open: pneumatically. Close: spring-loaded  
 Mounting hardware is included.

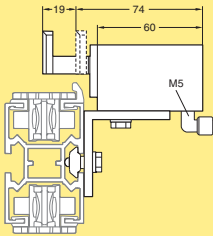
To reduce the noise level, throttle valves should be used (M5). These are not included. The diagram shows the maximum permissible weight of a group of pallets (product weight + pallet weight), which the stop device is capable of stopping, as a function of the conveyor speed.

## Damper, parallel to main

XT Compact conveyor beam



XT conveyor beam

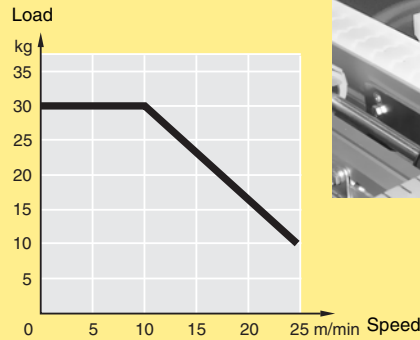


Damper, 0–30 kg

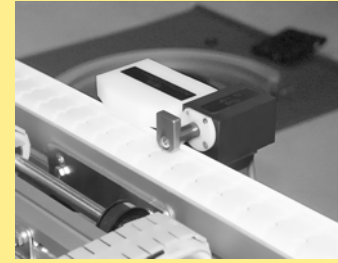
**XTPA CM35**

**Note**

The damper is easily influenced by pressure from other pneumatic equipment. To avoid this interference the damper must be connected to a separate pneumatic valve.



Maximum load vs. conveyor speed



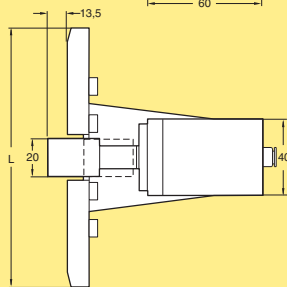
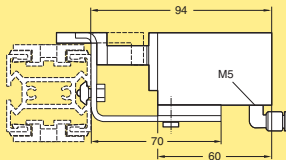
The diagram shows the maximum permissible weight of a group of pallets (product weight + pallet weight), which the damper is capable of stopping, as a function of the conveyor speed.

The pneumatic damper XTPA CM35 is used when pallets up to 30 kg have to be damped and transferred from a parallel conveyor to the main conveyor.

Mounting hardware is included in the delivery.  
 Pressure range: Treated compressed air, 4–8 bar  
 Air connection: 6 mm outside diameter tubing  
 Damping function:  
 Stop in initial position: pneumatically

## Damper, main to parallel

XT Compact conveyor beam



Damper, 0–30 kg

PW 240 mm, L=136

**XTPA MC35 240 A**

PW 320 mm, L=216

**XTPA MC35 320 A**

PW 400 mm, L=296

**XTPA MC35 400 A**

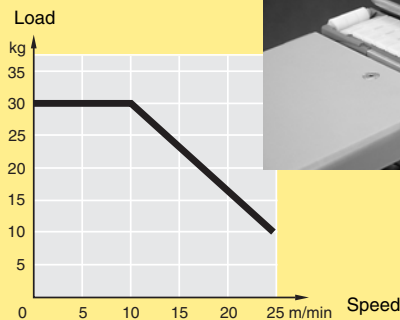
PW 480 mm, L=376

**XTPA MC35 480 A**

PW 640 mm, L=536

**XTPA MC35 640 A**

Mounting hardware is included in the delivery.



Maximum load vs. conveyor speed



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

Pressure range: Treated compressed air, 4–8 bar  
 Air connection: 6 mm outside diameter tubing  
 Damping function: Stop in initial position, pneumatically  
**Note.**

The damper is easily influenced by pressure from other pneumatic equipment. To avoid this interference the damper must be connected to a separate pneumatic valve.

### Sensor bracket Type V001

**Vertical sensor bracket** **XTPB V001**

The sensor bracket holds a  $\varnothing 12$  mm vertical sensor and can be mounted on the stopper XTPD U200 and the damped stopper XTPD D35. Mounting hardware is included in the delivery. Proximity switch is not included.

### Sensor bracket Type V003

**Vertical position sensor bracket** **XTPB V003**

The position sensor has an increased range and is mounted on the outside of the beam of an XT or XT Compact conveyor. It is intended for use with a  $\varnothing 12$  mm proximity switch. Mounting hardware is included in the delivery. Proximity switch is not included.

### Sensor bracket Type V002

**Vertical sensor bracket** **XTPB V002**

The sensor bracket holds a  $\varnothing 12$  mm vertical sensor and is mounted on the inside of the beam. Mounting hardware is included in the delivery. Proximity sensor not included.

### Sensor bracket Type H001

**Horizontal sensor bracket** **XTPB H001**

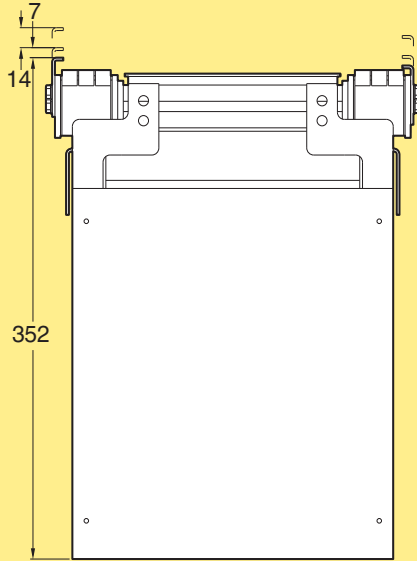
The sensor bracket holds a  $\varnothing 12$  mm horizontal proximity switch and is mounted on the outside of the beam of an XT or XT Compact conveyor. Mounting hardware is included in the delivery. Proximity sensor is not included.

The horizontal proximity sensor ( $\varnothing 12$  mm) must have a minimum effective sensing distance of 5 mm to the steel initiator plate in the pallet.

Example: The effective sensing distance for SICK (IM12 sensing range 8 mm) is 6,48 mm. This is calculated as follows:  $8 \text{ mm} \times 0,81^*$ .

Useful sensing range =  $0,81 \times$  nominal sensing range.

## Pneumatic transfer Type M1

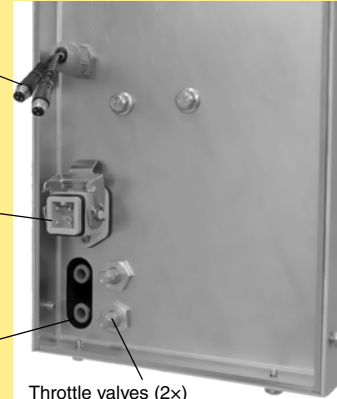


Transfer unit	Type	240 V 50 Hz motor	115 V 60 Hz motor
XTPT 240x240-...	M1	S8R25GX-T1	S8R25GE-T1
XTPT 240x320-...	M1	S8R25GX-T1	S8R25GE-T1
XTPT 320x240-...	M1	S8R25GX-T1	S8R25GE-T1

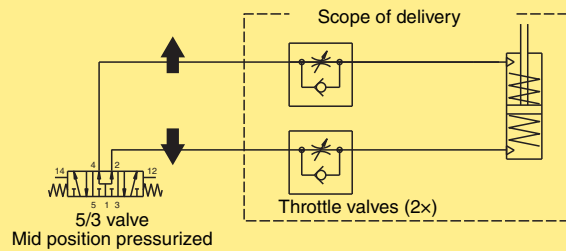
Connectors for proximity switches  
M8 (2x)

Connector for motor cable  
(1-phase)

Pneumatic connections  $\varnothing 6$  mm  
(2x)



Throttle valves (2x)



### Pneumatic transfer Type M1\*

- Standard chain, 50 Hz **XTPT PWxPL-01**
- Standard chain, 60 Hz **XTPT PWxPL-02**
- Conductive chain, 50 Hz **XTPT PWxPL-03**
- Conductive chain, 60 Hz **XTPT PWxPL-04**

When ordering, insert the pallet size instead of PWxPL in the designation.

\*For the following pallet sizes (PWxPL):

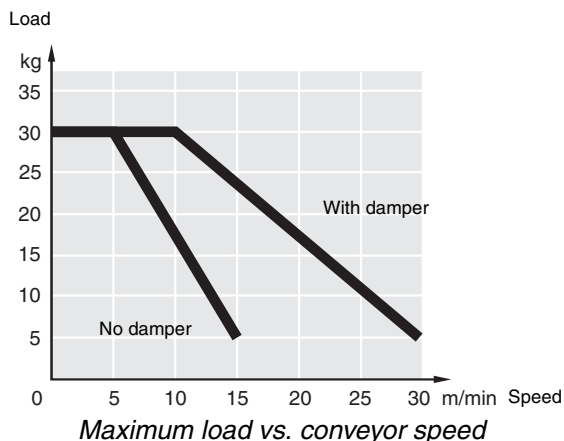
240x240: C-C=210, W=169, L=259

240x320: C-C=290, W=169, L=339

320x240: C-C=210, W=249, L=259

### Motor cable connector

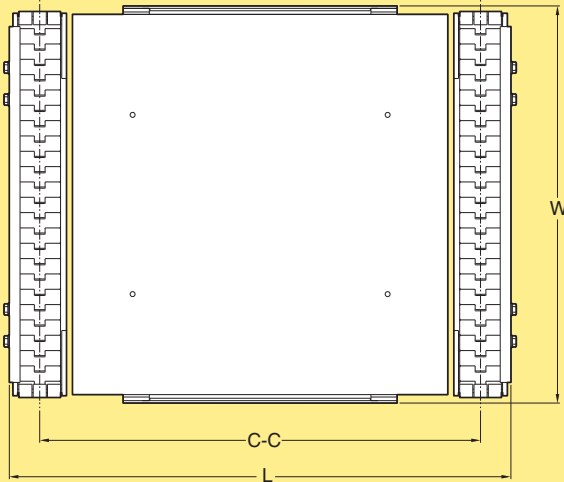
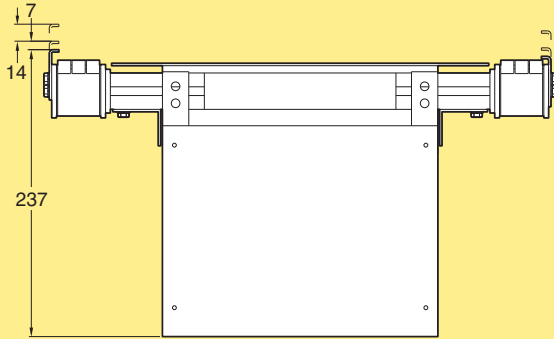
The connector for motor cable is a male 3-pole insert with a housing for the insert. To connect, a female 3-pole insert with a hood for the insert and a screw cap for the hood are required (not supplied by FlexLink). Suitable types are Weidmüller 1498200000 (insert), 1788520000 (hood), and 13-08080521 (M20 screw cap), or equivalent.



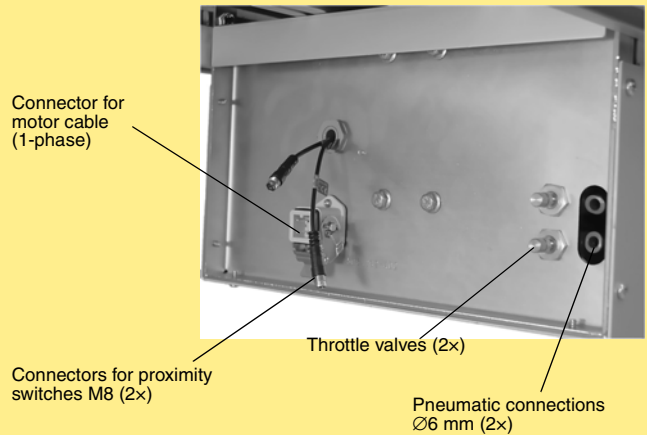
The diagram shows the maximum permissible weight of a pallet (product weight + pallet weight), which the transfer is capable of stopping, as a function of the conveyor speed. This diagram applies to transfers type M1, M2 and L.

PO  
CC  
X45  
XS  
X65  
X65P  
X85  
X85P  
XH  
XK  
XKP  
X180  
X300  
GR  
CS  
XT  
WL  
WK  
XC  
XF  
XD  
ELV  
CTL  
FST  
TR  
APX  
IDX

**Pneumatic transfer Type M2**



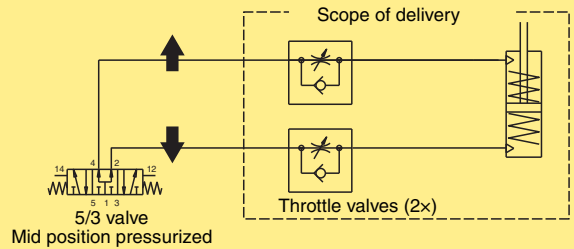
Transfer unit	Type	240 V 50 Hz motor	115 V 60 Hz motor
XTPT 320x320-...	M2	S9R40GXH-T	S9R40GEH-T
XTPT 320x400-...	M2	S9R40GXH-T	S9R40GEH-T
XTPT 400x320-...	M2	S9R40GXH-T	S9R40GEH-T
XTPT 400x400-...	M2	S9R40GXH-T	S9R40GEH-T
XTPT 400x480-...	M2	S9R40GXH-T	S9R40GEH-T
XTPT 400x640-...	M2	S9R40GXH-T	S9R40GEH-T



- Pneumatic transfer Type M2\*  
 Standard chain, 50 Hz      **XTPT PW×PL-01**  
 Standard chain, 60 Hz      **XTPT PW×PL-02**  
 Conductive chain, 50 Hz    **XTPT PW×PL-03**  
 Conductive chain, 60 Hz    **XTPT PW×PL-04**

When ordering, insert the pallet size instead of PW×PL in the designation.

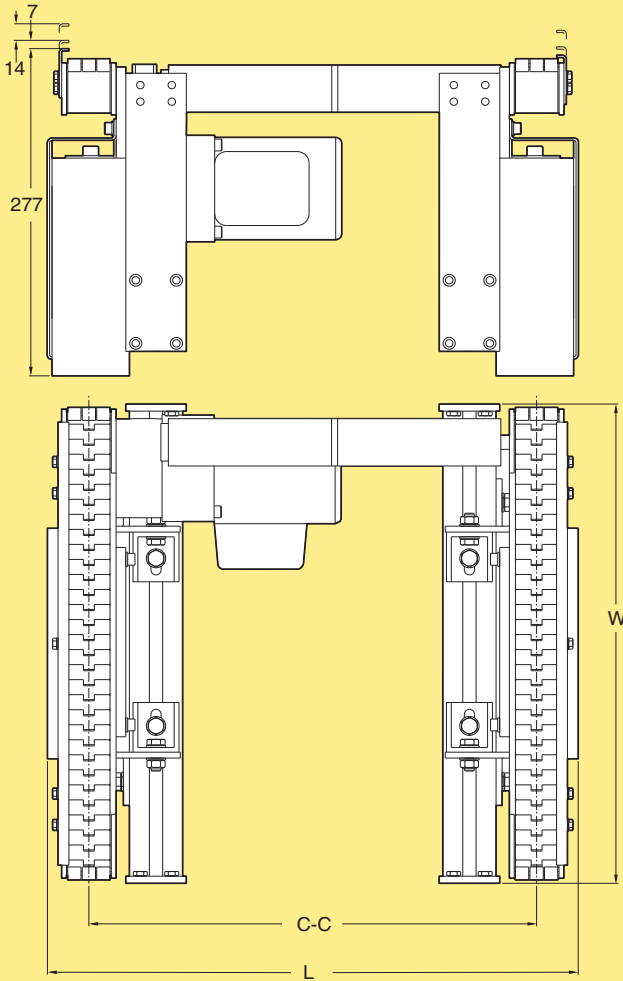
- \*For the following pallet sizes (PW×PL):  
 320x320: C-C=290, W=249, L=339  
 320x400: C-C=370, W=249, L=419  
 400x320: C-C=290, W=329, L=339  
 400x400: C-C=370, W=329, L=419  
 400x480: C-C=450, W=329, L=499  
 400x640: C-C=610, W=329, L=659



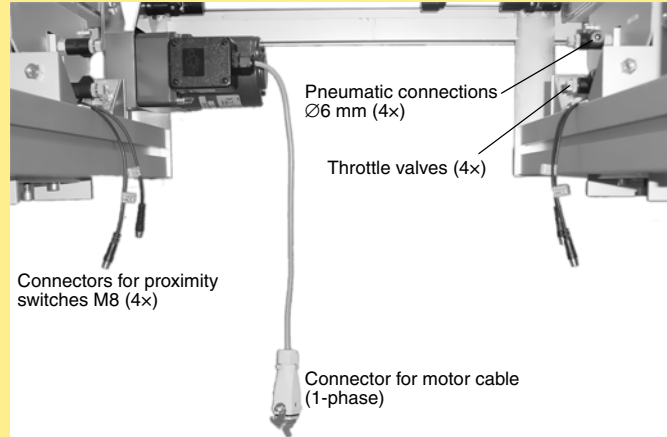
**Motor cable connector**

The connector for motor cable is a male 3-pole insert with a housing for the insert. To connect, a female 3-pole insert with a hood for the insert and a screw cap for the hood are required (not supplied by FlexLink). Suitable types are Weidmüller 1498200000 (insert), 1788520000 (hood), and 13-08080521 (M20 screw cap), or equivalent.

**Pneumatic transfer Type L**



Transfer unit	Type	240 V 50 Hz motor	115 V 60 Hz motor
XTPT 480x400—...	L	S9R40GXH-T	S9R40GEH-T
XTPT 480x480—...	L	S9R40GXH-T	S9R40GEH-T
XTPT 480x640—...	L	S9R40GXH-T	S9R40GEH-T
XTPT 640x400—...	L	S9R40GXH-T	S9R40GEH-T
XTPT 640x480—...	L	S9R40GXH-T	S9R40GEH-T
XTPT 640x640—...	L	S9R40GXH-T	S9R40GEH-T



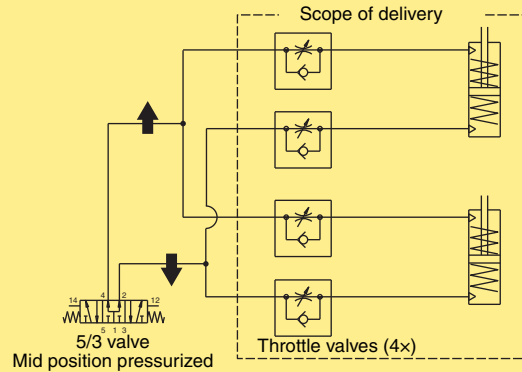
**Pneumatic transfer Type L\***

- Standard chain, 50 Hz **XTPT PW×PL-01**
- Standard chain, 60 Hz **XTPT PW×PL-02**
- Conductive chain, 50 Hz **XTPT PW×PL-03**
- Conductive chain, 60 Hz **XTPT PW×PL-04**

When ordering, insert the pallet size instead of PW×PL in the designation.

\*For the following pallet sizes (PW×PL):

- 480x400: C-C=370, W=405, L=439
- 480x480: C-C=450, W=405, L=519
- 480x640: C-C=610, W=405, L=679
- 640x400: C-C=370, W=565, L=439
- 640x480: C-C=450, W=565, L=519
- 640x640: C-C=610, W=565, L=679



**Motor cable connector**

The connector for motor cable is a male 3-pole insert with a housing for the insert. To connect, a female 3-pole insert with a hood for the insert and a screw cap for the hood are required (not supplied by FlexLink). Suitable types are Weidmüller 1498200000 (insert), 1788520000 (hood), and 13-08080521 (M20 screw cap), or equivalent.



**Pallet locating station**

The diagrams show the dimensions for the XT and XT Compact locating stations. The XT station has a total height of 111 mm, a mounting height of 85 mm, and a width of 45.5 mm. The XT Compact station has a total height of 111 mm, a mounting height of 99.5 mm, and a width of 45.5 mm. Both have a 19 mm offset and a 1.5 mm lifting height. The 3D view shows the locating cylinders with pins and brackets mounted on a conveyor, with a label 'Stops (not included)' pointing to the top rail.

**Locating station XTPX P11 A**

See chapter "Locating function module P11 A", page 349, for information about the locating function module.

*The locating station consists of locating cylinders including pins and brackets. Larger pallets may require additional lifting force. A lift unit kit 5055802 is available which contains two lift units without guide pins.  
Pressure range, treated compressed air: 4–8 bar  
Air connection: 2x6 mm outside diameter tubing  
Pallet lifting height: 1,5 mm  
Maximum vertical force per cylinder at 0,6 MPa: 544 N  
Throttle valves and the necessary mounting hardware for attachment to an XT or XT Compact conveyor are included.*

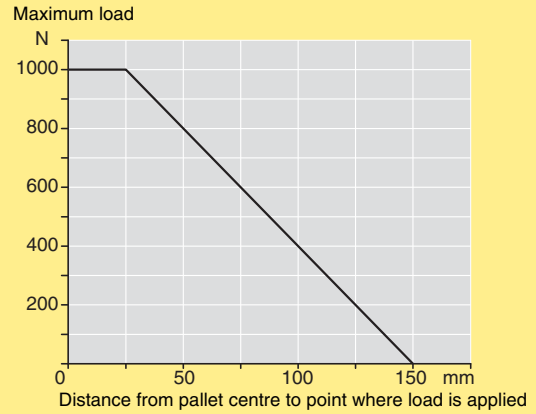
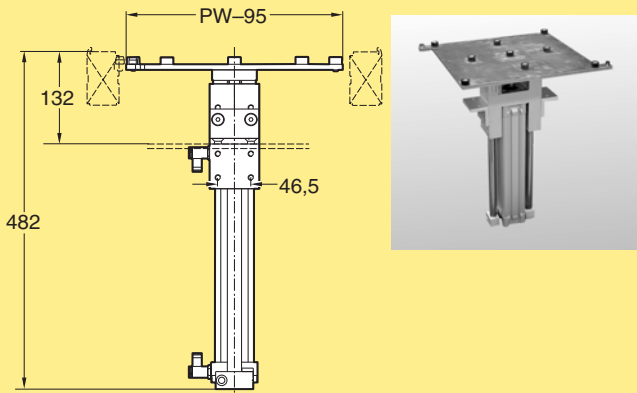
**Lift unit kit**

The photograph shows two dark grey lift units stacked together. Each unit has a top flange with a circular opening and a side flange with a circular opening. There are also some ports and a screw on the side.

**Lift unit kit 5055802**

*Kit consists of two lift units without guide pins. To be used for large pallets (PW or PL >400 mm).  
Suitable sensors: SICK, MZT1-03VPS-KR0 magnetic cylinder sensor, DC 3-wire.*

## Lift-and-locate unit



### Lift-and-locate unit **XTPX P12 PW×PL**

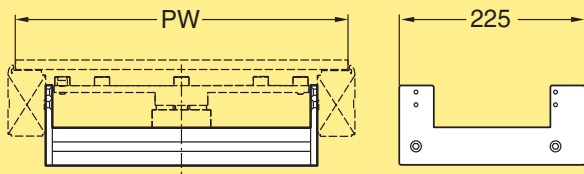
When ordering, insert the pallet size instead of PW×PL in the designation.

Example: XTPX P12 320×320.

This product is available for all XT pallet sizes.  
For more information, see "Lift-and-locate function module" on page 351.  
Two types of support frame are available, S20 and S21, for different mounting options.

The lift-and-locate unit consists of a plate which can be elevated by a pneumatic cylinder. The plate has two locating pins. The unit can be delivered with top plates adapted for the 15 standard pallet sizes.  
Maximum lift force at centre (0,6 MPa): 1177 N  
Lift height: 0–225 mm (adjustable)  
Locating repeatability in x and y directions: ±0,05 mm  
Note (applies to option F01). In order to avoid influence from conveyor movements, attach the conveyor to a reference support.  
It is recommended to enclose the unit to protect persons from the clamp risk.

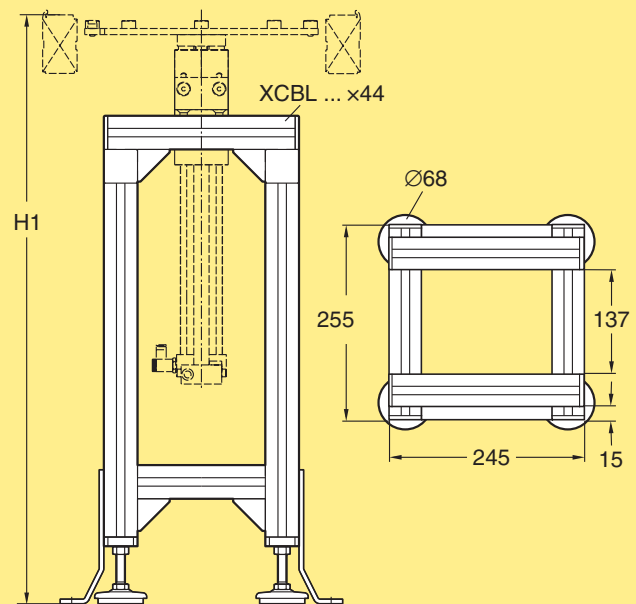
### Support frame S21



### Support frame S21 **XTUF S21 PW**

When ordering, insert the pallet width instead of PW in the designation. Example: XTUF S21 320.

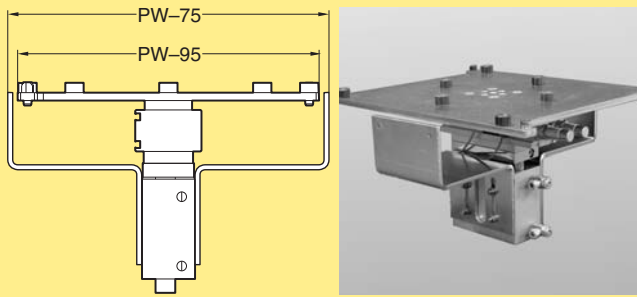
### Support frame S20



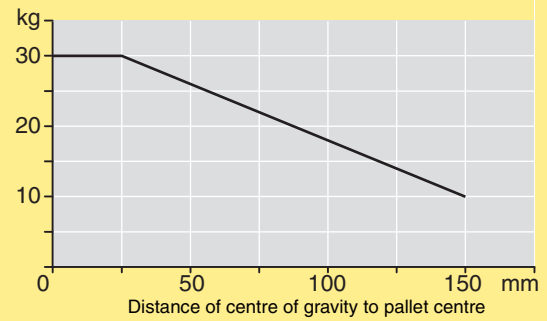
### Support frame S20 **XTUF S20 H1**

When ordering, insert chain surface height above floor level instead of H1 in the designation.  
Example: XTUF S20 570.

## Lift-and-rotate unit



Maximum pallet weight



Lift-and-rotate unit

**XTPR PW×PL**

When ordering, insert the pallet size instead of PW×PL in the designation.

Example: XTPR 320×320.

This product is available for PW and PL dimensions up to and including 400 mm.

For more information, see "Lift-and-rotate function module" on page 351.

The lift-and-rotate unit consists of a plate which can be elevated and rotated 180°. The plate has two locating pins. The unit is mounted in the T-slots on the inner side of the conveyor beams.

The lift-and-rotate unit is available with top plate adapted for seven standard pallet sizes up to 400 mm × 400 mm.

Maximum centered lift force (0,6 MPa): 340 N

Maximum mass-moment of inertia: 0,55 kgm<sup>2</sup>

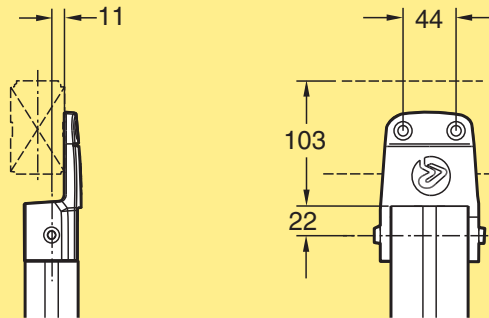
Rotate angle: 180°.

Lift height: 17 mm

Weight: 13,2 kg

## Support brackets

### Beam support bracket for XT

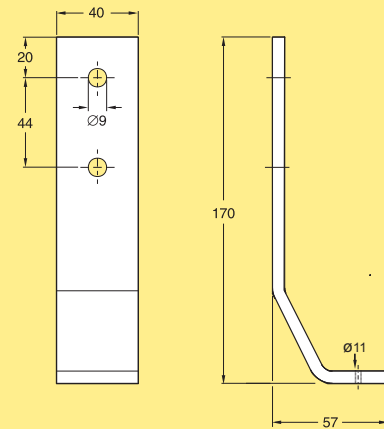


Beam support bracket, XT

**5052899**

Mounting: MC6S 8×14 (4), XCAN 8 (4)

### Floor attachment bracket

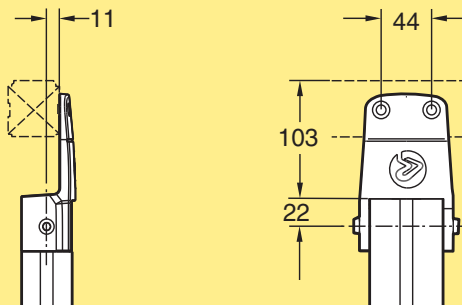


Floor attachment bracket

**XCFA 170 S**

The bracket is delivered with the hardware necessary for attachment to the conveyor support. Fasteners for connection to the floor are not supplied with the brackets.

### Beam support bracket for XT Compact

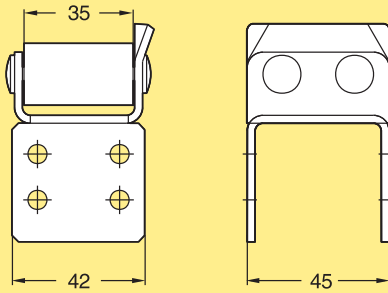


Beam support bracket, XT Compact **5052621**

Mounting: ISO 4762 M6×10 St 8.8 (2), XFAN 6 (2), MC6S 8×14 (2), XCAN 8 (2)

## Roller kits

### Roller kit 45 mm

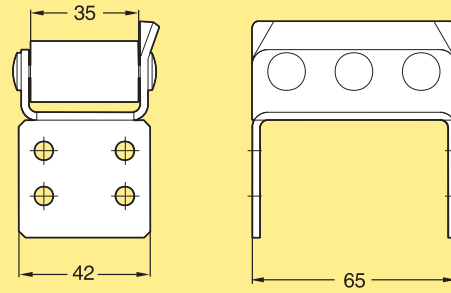


Roller kit 45 mm

**5050117**

Kit consists of two roller bridges and the necessary mounting hardware.

### Roller kit 65 mm



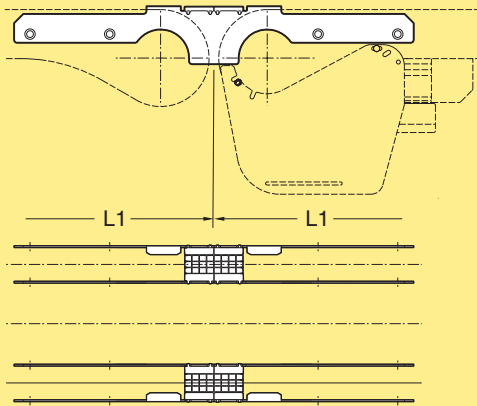
Roller kit 65 mm

**5049865**

Kit consists of two roller bridges and the necessary mounting hardware.

## Connecting kits

### Connecting kit, end-to-end



Connecting kit, one pair

**5049594**

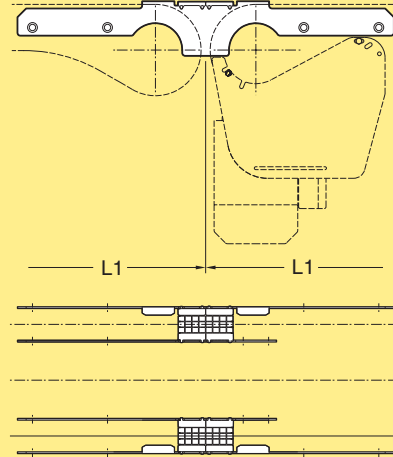


For in-line transfer from drive unit with side-mounted motor (left/right).  
XTUC 51 .../XTUC 52 ...:

Note! Connecting kit is not supplied with the module.

XT to XT (Not for use with XT Compact)

### Connecting kit, end-to-end



Connecting kit, one pair

**5050564**

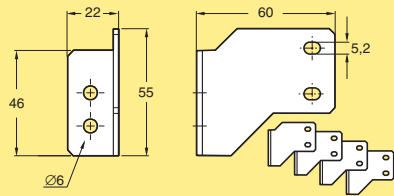


For in-line transfer from drive unit with mid-mounted motor.  
XTUC 51 .../XTUC 52 ...:

Note! Connecting kit is not supplied with the module.

XT to XT (Not for use with XT Compact)

**Connecting kit, end-to-side/side-to-end**



Connecting kit (four brackets) **5050034**

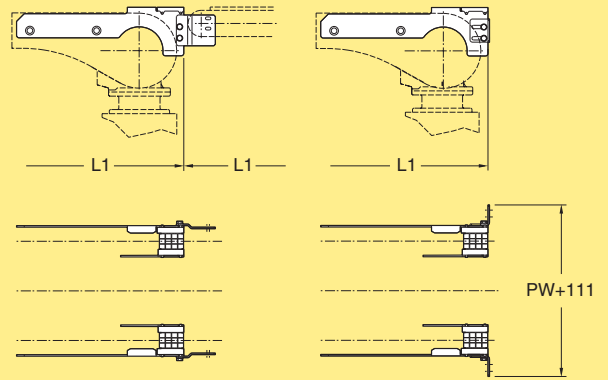
Including mounting hardware.



XT to XT Compact  
XT Compact to XT Compact

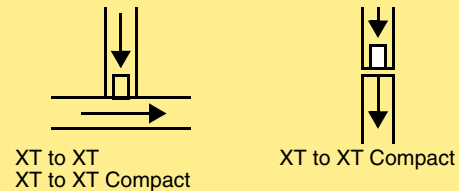
XT Compact to XT  
XT Compact to XT Compact

**Connecting kit, end-to-side/end-to-end**



Connecting kit, one pair **5053201**

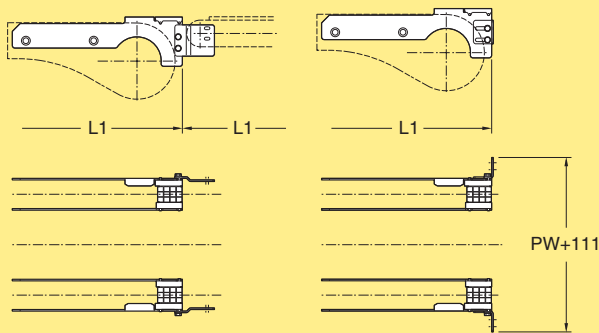
For in-line or perpendicular transfer from drive unit with mid-mounted motor. Including brackets for both alternatives.



XT to XT  
XT to XT Compact

XT to XT Compact

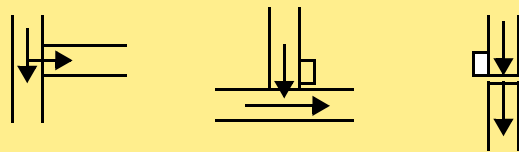
**Connecting kit, end-to-side/end-to-end**



Connecting kit, one pair **5053199**

For in-line or perpendicular transfer from drive unit with side-mounted motor (left/right). Including brackets for both alternatives. XTUC 51 .../XTUC 52 ...:

Note! End-to-end connecting kit is not supplied with the module.

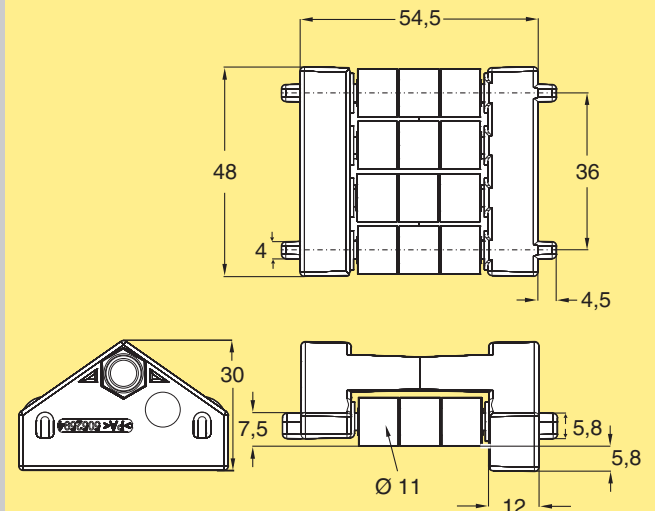
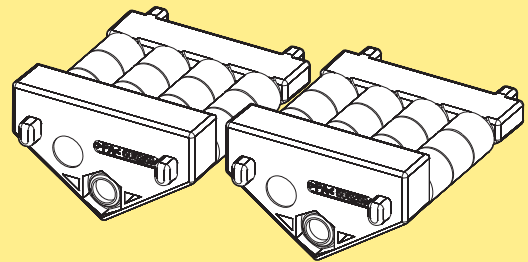


XT to XT  
XT Compact to XT

XT to XT  
XT to XT Compact

XT to XT Compact  
XT Compact to XT

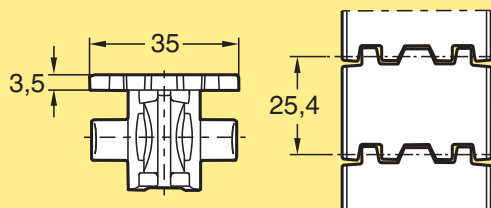
**Roller bridge (pair)**



Roller bridge, one pair **5054947**

Each of the two bridges (5053729) contains four rows of rollers. Roller bridges are included in the connecting kits.

## Plain chain, XT



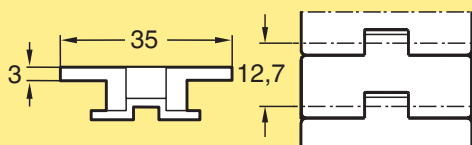
Plain chain, length 5 m  
Pitch 25,4 mm

Standard chain (POM B)	<b>XTTP 5</b>
Standard link kit **	<b>5056659</b>
Conductive chain (POM B COND)	<b>XTTP 5 EC</b>
Conductive link kit **	<b>5056660</b>

*\*Use with conductive slide rail.*

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

## Plain chain, XT Compact



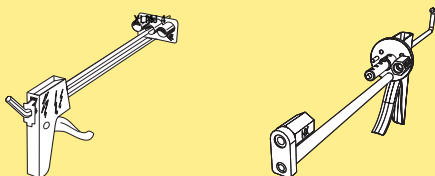
Plain chain, XT Compact  
Pitch 12,7 mm. Only for straight-running conveyor (XT Compact).

Length 3 m	
Standard chain (POM B)	<b>5045028</b>
Standard link kit **	<b>5056662</b>
Conductive chain (POM B COND)*	<b>5051585</b>
Conductive link kit **	<b>5056664</b>
ISD chain (POM B ISD NAT)*	<b>5046328</b>
ISD link kit **	<b>5056663</b>

*\*Use with conductive slide rail.*

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

## Pin insertion tool for chain

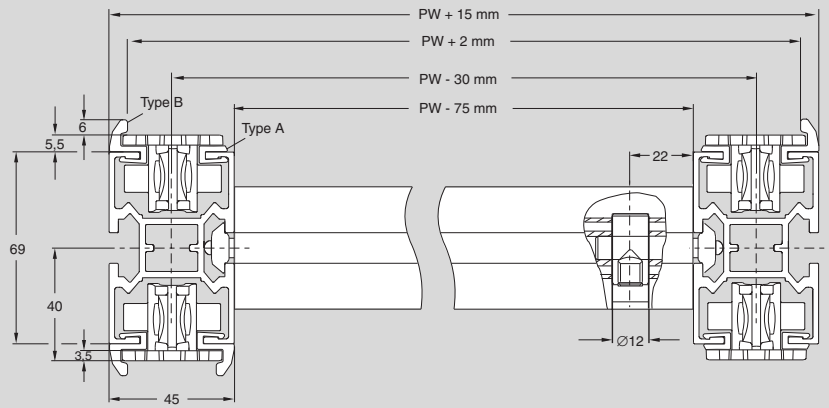
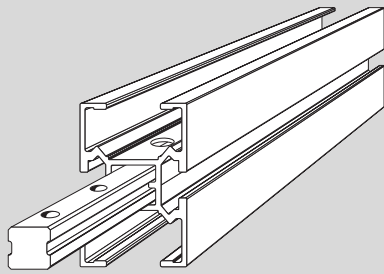


Pin insertion tool	
XS-X65-XT	<b>XLMJ 4</b>
XS-X65-XT, PRO version*	<b>XLMJ 4 P</b>

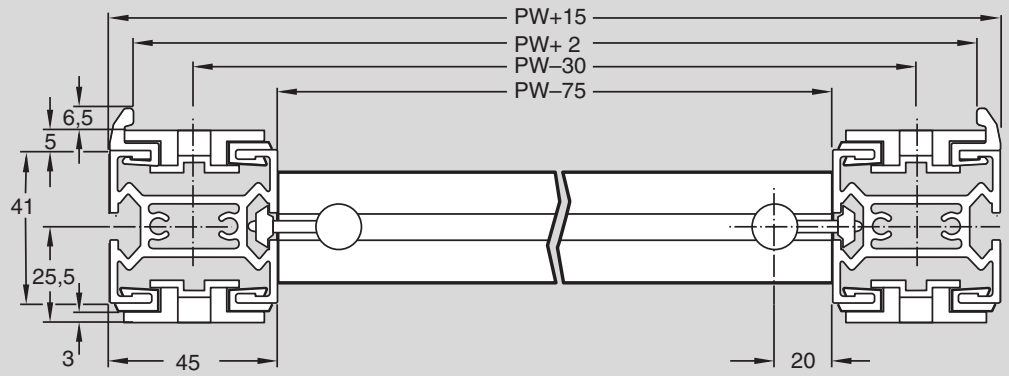
For FlexLink's XT chains XTTP 5, XTTP 5 EC and 6045771.

*\*This product is recommended for frequent users.*

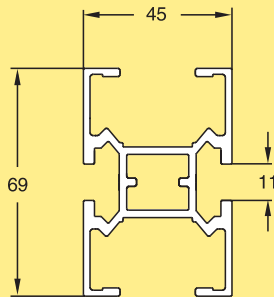
XT



XT Compact



Conveyor beam

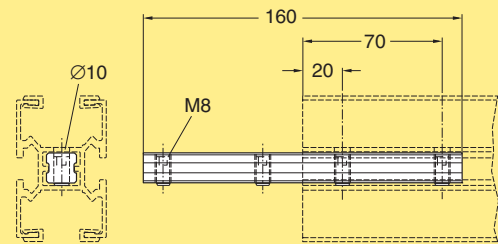


Beam

Length 3 m (3030 ±5 mm)  
Length to order (30- 3000 mm)

**XTCB 3**  
**XTCB L**

Connecting strip kit



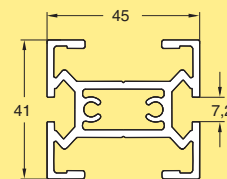
Connecting strip kit

Steel, electro-zinc-plated

**5053503**

Kit with two connecting strips. Including M8 set screws.  
Not for XT Compact beam

Conveyor beam, XT Compact

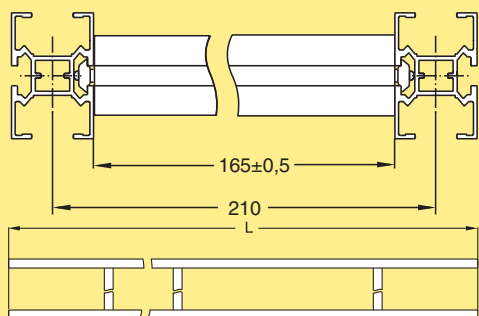


Beam, XT Compact

Length 3 m

**5045025**

**Conveyor beam section 240 mm**

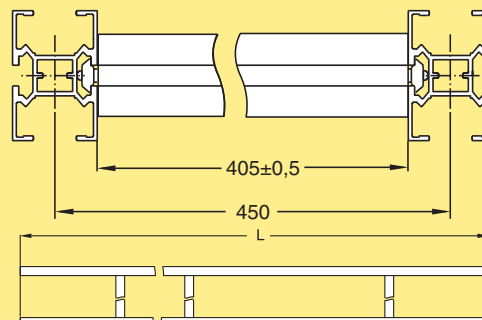


Beam section (assembled) for pallets 240 mm wide

Length 3 m ± 1,5 mm  
Length to order (0,18–3 m)

**XTCB 3D210**  
**XTCB LD210**

**Conveyor beam section 480 mm**

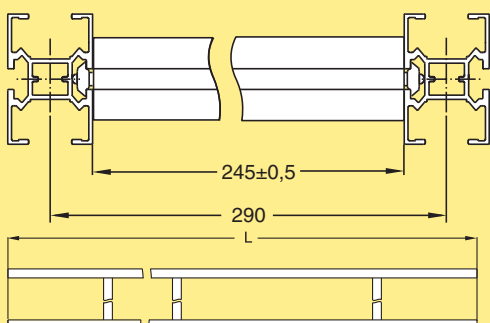


Beam section (assembled) for pallets 480 mm wide

Length 3 m ± 1,5 mm  
Length to order (0,18–3 m)

**XTCB 3D450**  
**XTCB LD450**

**Conveyor beam section 320 mm**

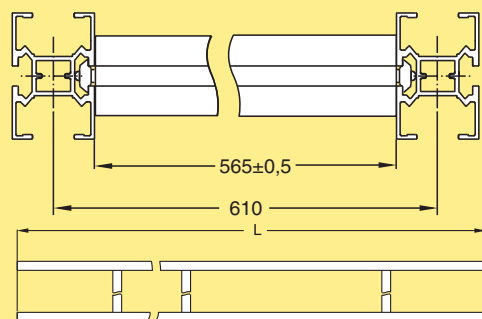


Beam section (assembled) for pallets 320 mm wide

Length 3 m ± 1,5 mm  
Length to order (0,18–3 m)

**XTCB 3D290**  
**XTCB LD290**

**Conveyor beam section 640 mm**

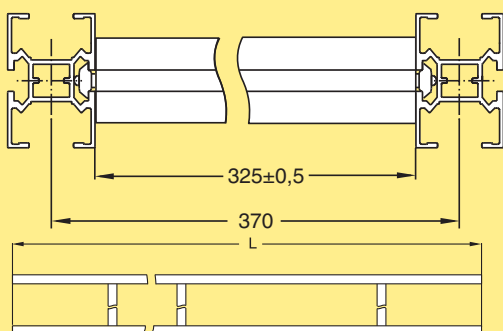


Beam section (assembled) for pallets 640 mm wide

Length 3 m ± 1,5 mm  
Length to order (0,18–3 m)

**XTCB 3D610**  
**XTCB LD610**

**Conveyor beam section 400 mm**



Beam section (assembled) for pallets 400 mm wide

Length 3 m ± 1,5 mm  
Length to order (0,18–3 m)

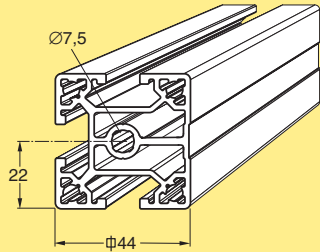
**XTCB 3D370**  
**XTCB LD370**



## Tools and accessories, 44×44 beam

PO

### Beam 44 mm × 44 mm with three T-slots



Beam 44 mm × 44 mm with three T-slots

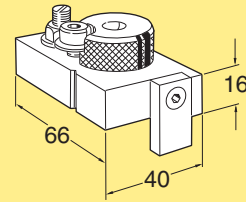
Aluminium, anodized

Length 3 m (3030 ±5 mm)

Length to order (30- 3000 mm)

**XCBL 3×44 T3**  
**XCBL L×44 T3**

### Drill fixture for T-slot connector



Drill fixture Ø10/18,25 mm

**XCAD 10/18**

Drill insert Ø12,2 mm (for T-slot connector)

**18×16 12,2**

*To be used when drilling a 12 mm hole for T-slot connector XCEC 12, located 22 mm from the beam end. Remove the 10 mm drill insert delivered with the drill fixture and install the 12,2 mm drill insert.*

CC

X45

XS

X65

X65P

X85

X85P

XH

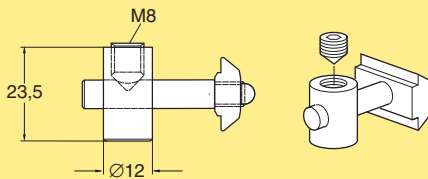
XK

XKP

X180

X300

### T-slot connector for 44×44 beam



T-slot connector

Steel, electro-zinc-plated

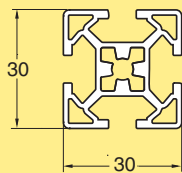
**XCEC 12**

GR

## Tools and accessories, 30×30 beam

GR

### Beam 30 mm × 30 mm



Beam 30 mm × 30 mm

Aluminium, anodized

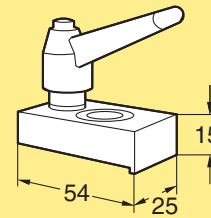
Length 3 m (3030 ±5 mm)

Length to order (30- 3000 mm)

**XFBM 3×30**  
**XFBM L×30**

*Used for XT Compact*

### Drill fixture for fastener yokes



Drill fixture for fastener yokes (Ø12,2 mm)

**XFAD 12**

*To be used when drilling a 12 mm hole for fastener yoke XFAF 30, located 20 mm from the beam end.*

CS

XT

WL

WK

XC

XF

XD

ELV

CTL

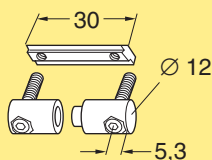
FST

TR

APX

IDX

### Fastener yoke for 30×30 beam



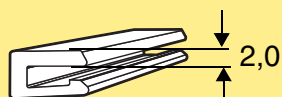
Fastener yoke assembly

Length 30 mm

**XFAF 30**

## Slide rails

### Slide rail (A)



#### Slide rail (A)

Length 25 m

PA-PE (Grey)

UHMW-PE (White)

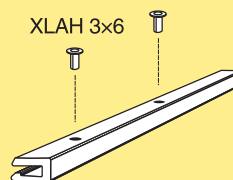
UHMW-PE + carbon (conductive) (Black)

**XTCR 25 H**

**XTCR 25 U**

**XTCR 25 E**

### Aluminium rivets 3 mm



Aluminium rivets 3 mm

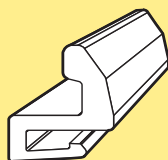
**XLAH 3x6**

*Note. Must be ordered in multiples of 250*

#### More information

For more information about slide rails, see separate document "XT slide rail instruction".

### Slide/guide rail (B)



#### Slide/guide rail (B)

Length 3 m

PA-PE (Grey)

UHMW-PE (White)

UHMW-PE + carbon (conductive) (Black)

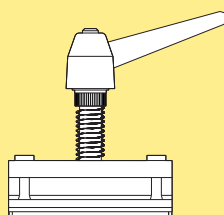
**XTCR 3 HB**

**XTCR 3 UB**

**XTCR 3 EB**

## Slide rail tools

### Drill fixture for slide rail



Drill fixture for slide rail

**3923584**

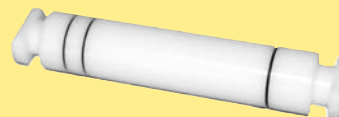
### Rivet tool



Rivet tool

**3923563**

### Mounting tool for slide rail



Mounting tool for slide rail

**XTMR 160 A**

### End drive unit LNPD

End drive unit, left  
 50 Hz 230/400 V  
 60 Hz 230/460 V

**XTEB # LNPD%**  
**XTEB # LNAPD%**

For PW 240, 320, 400, 480, 640 mm.  
 Insert desired C-C value instead of % in the designation. C-C = PW - 30.  
 Insert desired speed instead of # in the designation:  
 50 Hz: 5-10-15-20 m/min.  
 60 Hz: 6-10-16-20 m/min.  
 Connecting strips are included.  
 Maximum traction force: 1250 N at 5 m/min.  
 Designation example: XTEB 15 LNPD370 is a 50 Hz drive unit for 400 mm wide pallets running at 15 m/min.

### End drive unit RNPD

End drive unit, right  
 50 Hz 230/400 V  
 60 Hz 230/460 V

**XTEB # RNPD%**  
**XTEB # RNAPD%**

For PW 240, 320, 400, 480, 640 mm.  
 Insert desired C-C value instead of % in the designation. C-C = PW - 30.  
 Insert desired speed instead of # in the designation:  
 50 Hz: 5-10-15-20 m/min.  
 60 Hz: 6-10-16-20 m/min.  
 Connecting strips are included.  
 Maximum traction force: 1250 N at 5 m/min.  
 Designation example: XTEB 20 RNAPD450 is a 60 Hz drive unit for 480 mm wide pallets running at 20 m/min.

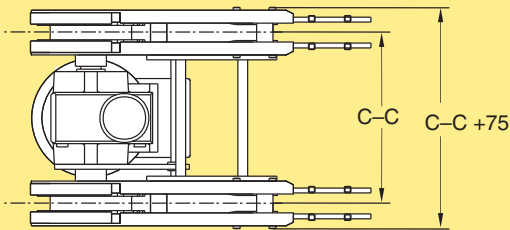
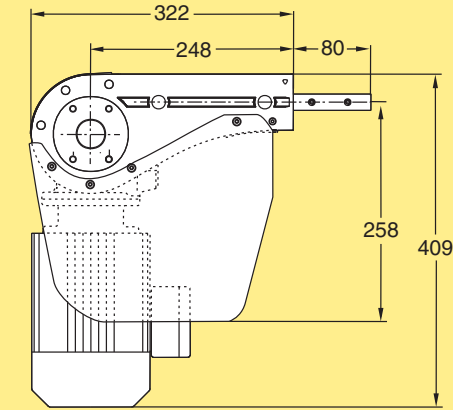
### Torque arm kit

Torque arm kit for end drive unit **5050028**

Including Torque arm, Screw, Washer, Thin parallel key and Sleeve

CC  
 X45  
 XS  
 X65  
 X65P  
 X85  
 X85P  
 XH  
 XK  
 XKP  
 X180  
 X300  
 GR  
 CS  
 XT  
 WL  
 WK  
 XC  
 XF  
 XD  
 ELV  
 CTL  
 FST  
 TR  
 APX  
 IDX

## End drive unit, centre drive



### End drive unit, centre drive

50 Hz 230/400 V  
60 Hz 230/460 V

**XTEB # MNPD%**  
**XTEB # MNAPD%**

For PW 240, 320, 400, 480, 640 mm.

Insert desired C-C value instead of % in the designation. C-C = PW - 30.

Insert desired speed instead of # in the designation:

50 Hz: 5-10-15-20 m/min.

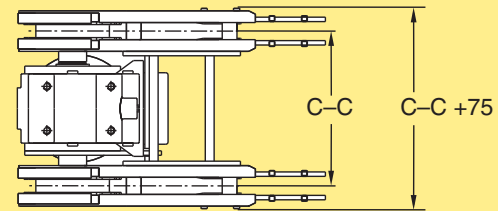
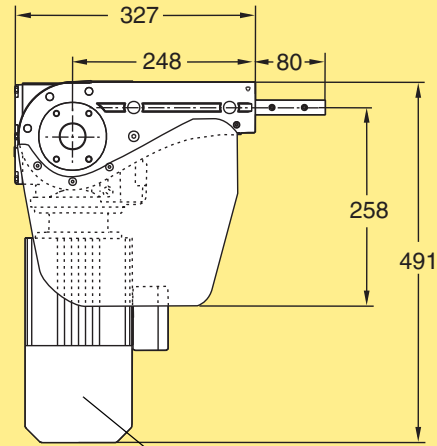
60 Hz: 6-10-16-20 m/min.

Connecting strips are included.

Maximum traction force: 1250 N at 5 m/min.

Designation example: XTEB 10 MNPD290 is a 50 Hz drive unit for 320 mm wide pallets running at 10 m/min.

## End drive unit, centre drive, heavy



### End drive unit, centre drive, heavy

50 Hz 230/400 V  
60 Hz 230/460 V

**XTEB # HMNPD%**  
**XTEB # HMNAPD%**

For PW 240, 320, 400, 480, 640 mm.

Insert desired C-C value instead of % in the designation. C-C = PW - 30.

Insert desired speed instead of # in the designation:

50 Hz: 5-10-15 m/min.

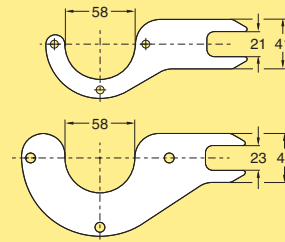
60 Hz: 6-10-16 m/min.

Connecting strips are included.

Maximum traction force: 1800 N at 5 m/min.

Designation example: XTEB 6 HMNAPD210 is a 60 Hz drive unit for 240 mm wide pallets running at 6 m/min.

## Torque arm kit



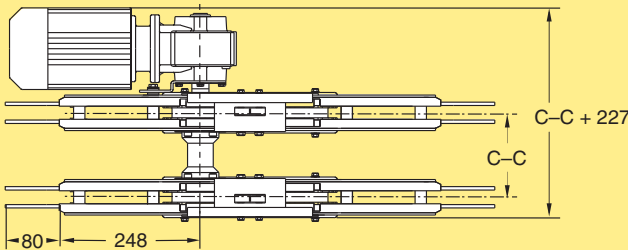
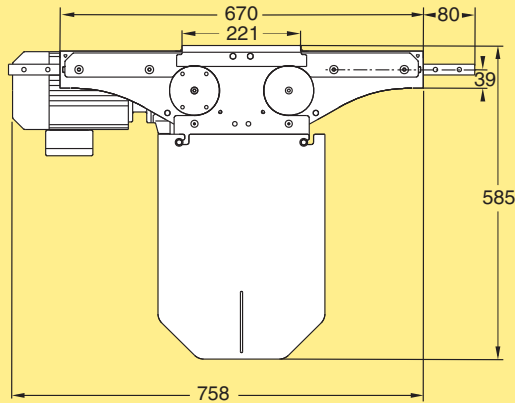
Torque arm kit for end drive unit, centre drive

**5050380**

Torque arm kit for end drive unit, centre drive, heavy

**5050459**

## Catenary drive unit LNPD



Catenary drive unit, left

50 Hz 230/400 V  
60 Hz 230/460 V

**XTEC # LNPD%**  
**XTEC # LNAPD%**

For PW 240, 320, 400, 480, 640 mm.

Insert desired C-C value instead of % in the designation. C-C = PW - 30.

Insert desired speed instead of # in the designation:

50 Hz: 5-10-15-20 m/min.

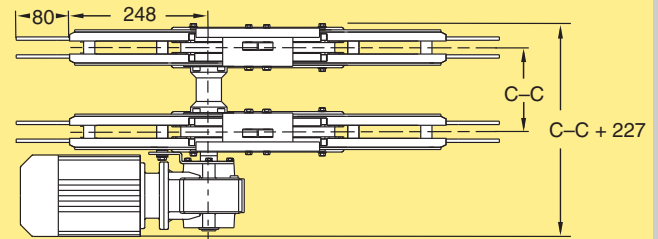
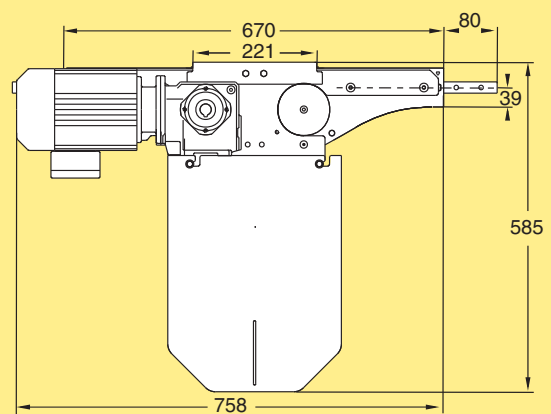
60 Hz: 6-10-16-20 m/min.

Connecting strips are included.

Maximum traction force: 1250 N at 5 m/min.

Designation example: XTEC 6 LNAPD610 is a 60 Hz drive unit for 640 mm wide pallets running at 6 m/min.

## Catenary drive unit RNPD



Catenary drive unit, right

50 Hz 230/400 V  
60 Hz 230/460 V

**XTEC # RNPD%**  
**XTEC # RNAPD%**

For PW 240, 320, 400, 480, 640 mm.

Insert desired C-C value instead of % in the designation. C-C = PW - 30.

Insert desired speed instead of # in the designation:

50 Hz: 5-10-15-20 m/min.

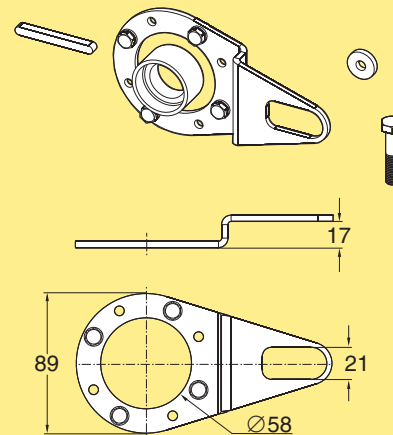
60 Hz: 6-10-16-20 m/min.

Connecting strips are included.

Maximum traction force: 1250 N at 5 m/min.

Designation example: XTEC 5 RNPD370 is a 50 Hz drive unit for 400 mm wide pallets running at 5 m/min.

## Torque arm kit



Torque arm kit for catenary drive unit **5050685**

Including Torque arm, Screw, Washer, Sleeve, Thin parallel key, Screw and Washer M8x40

## Idler end unit

**Idler end unit**

Idler end unit (single)  
Length 320 mm

**XTEJ 320**

Two idler units must be ordered for a conveyor with return chain.  
Connecting strips are included.

## Cover strip

**Cover strip**

Cover strip  
Length 25 m  
Length to order

**XTSB 25**  
**XTSB L**

## Wheel bends

**Wheel bend, 90°**

Wheel bend, 90°

**XTBH 90R150D%**

For PW 240, 320, 400, 480, 640 mm.  
Insert desired C-C value instead of % in the designation. C-C=PW-30.  
Connecting strips are included.  
Designation example: XTBH 90R150D450 is a 90° wheel bend for 480 mm wide pallets.

**Wheel bend, 180°**

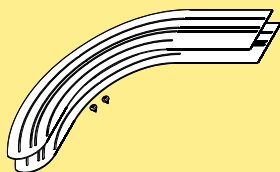
Wheel bend, 180°

**XTBH180R150D%**

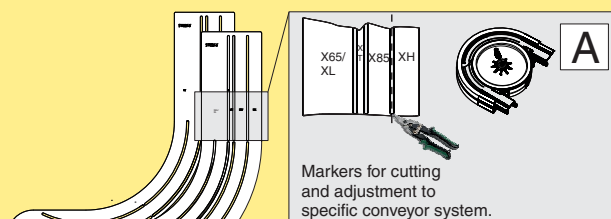
For PW 240, 320, 400, 480, 640 mm.  
Insert desired C-C value instead of % in the designation. C-C=PW-30.  
Connecting strips are included.  
Designation example: XTBH 180R150D210 is a 180° wheel bend for 240 mm wide pallets.

# Wheel cover for Wheel bend

## Wheel cover for X65/XL, XT, X85, XH



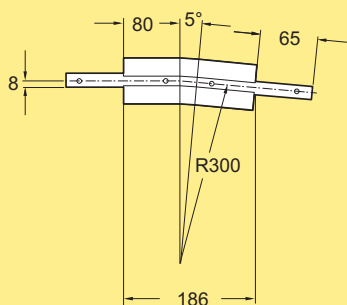
Wheel cover for X65/XL, XT, X85, XH **5112246**  
 (Including one pair of Wheel cover 5112244 and 2 tap screw ISO 7049 4,2x6,5-C-H-A2K)



Markers for cutting and adjustment to specific conveyor system.  
 Example: To fit the wheel cover to a X85 system, cut the part marked XH (see figure A).  
 To fit the wheel cover to a XT system, cut the parts marked X85 and XH.

## Vertical bends

### Vertical bend, 5°

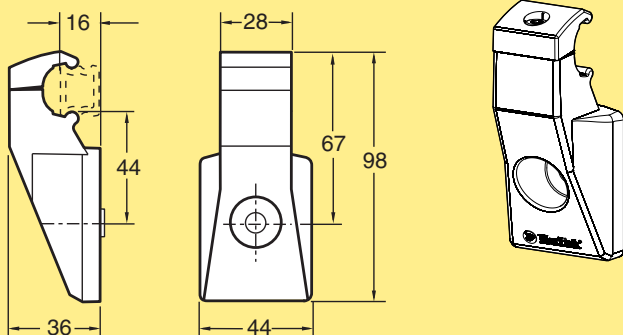


Vertical bend, 5° **XTBV 5R300**  
 Connecting strips are included.

- PO
- CC
- X45
- XS
- X65
- X65P
- X85
- X85P
- XH
- XK
- XKP
- X180
- X300
- GR
- CS
- XT**
- WL
- WK
- XC
- XF
- XD
- ELV
- CTL
- FST
- TR
- APX
- IDX

# Guide rail components

## Fixed guide rail bracket



Fixed guide rail bracket **XLRB 16x42 C**  
 Mounting to beam: *XLAT 17, XLAN 8, BRB 8,4x16*

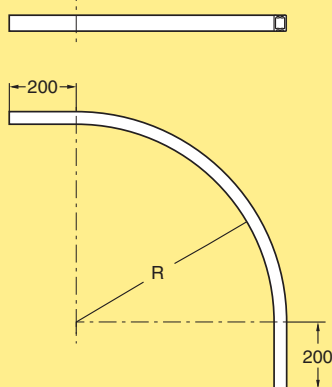
## End plug, 15 mm



End plug, 15 mm  
*Must be ordered in multiples of 10*

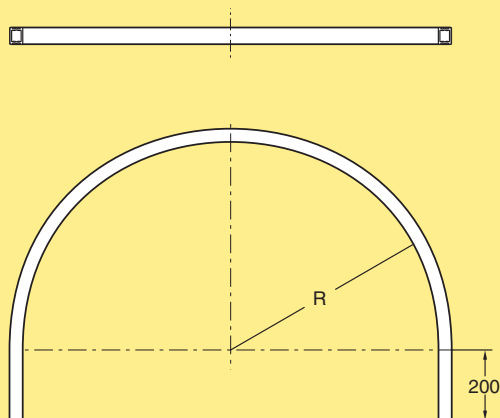
**XLRE 15**

## Outer guide rail for 90° bend



Outer guide rail for 90° bend  
 For PW 240 mm, R=387,5 **5049933**  
 For PW 320 mm, R=467,5 **5049931**  
 For PW 400 mm, R=547,5 **5049934**  
 For PW 480 mm, R=627,5 **5055516**  
 For PW 640 mm, R=787,5 **5055518**

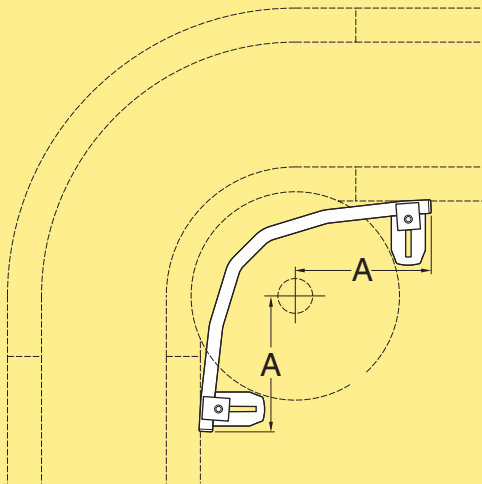
## Outer guide rail for 180° bend



Outer guide rail for 180° bend  
 For PW 240 mm, R=387,5 **5049841**  
 For PW 320 mm, R=467,5 **5049842**  
 For PW 400 mm, R=547,5 **5049843**  
 For PW 480 mm, R=627,5 **5055515**  
 For PW 640 mm, R=787,5 **5055517**



**Inner guide rail for 90° bend**

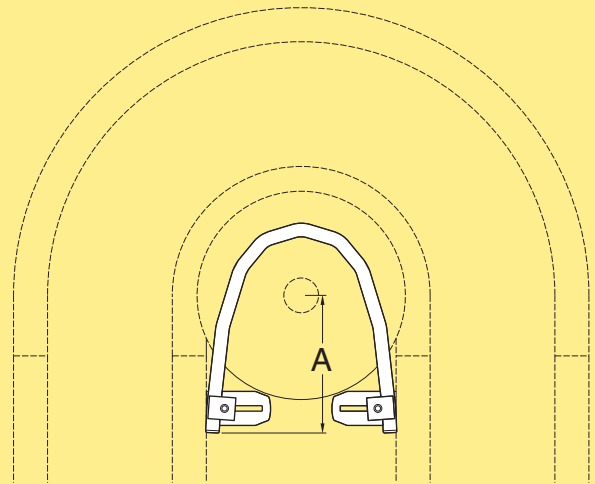


**Inner guide rail for 90° bend**

For PW×PL=240×240, A=180	<b>5055552</b>
For PW×PL=240×320, A=182	<b>5055557</b>
For PW×PL=320×240, A=180	<b>5055552</b>
For PW×PL=320×320, A=183	<b>5055559</b>
For PW×PL=320×400, A=243	<b>5055562</b>
For PW×PL=400×320, A=187	<b>5055559</b>
For PW×PL=400×400, A=257	<b>5055610</b>
For PW×PL=400×480, A=282	<b>5055564</b>
For PW×PL=400×640, A=432	<b>5055566</b>
For PW×PL=480×400, A=257	<b>5055610</b>
For PW×PL=480×480, A=243	<b>5055562</b>
For PW×PL=480×640, A=468	<b>5055608</b>
For PW×PL=640×400, A=183	<b>5055559</b>
For PW×PL=640×480, A=257	<b>5055610</b>
For PW×PL=640×640, A=390	<b>5055568</b>

Use attachment kit 5055684.

**Inner guide rail for 180° bend**

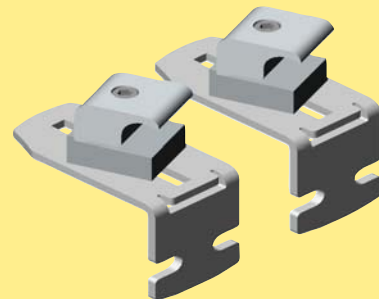


**Inner guide rail for 180° bend**

For PW×PL=240×240, A=180	<b>5055556</b>
For PW×PL=240×320, A=182	<b>5055558</b>
For PW×PL=320×240, A=180	<b>5055556</b>
For PW×PL=320×320, A=183	<b>5055560</b>
For PW×PL=320×400, A=243	<b>5055563</b>
For PW×PL=400×320, A=187	<b>5055560</b>
For PW×PL=400×400, A=257	<b>5055611</b>
For PW×PL=400×480, A=282	<b>5055565</b>
For PW×PL=400×640, A=432	<b>5055567</b>
For PW×PL=480×400, A=257	<b>5055611</b>
For PW×PL=480×480, A=243	<b>5055563</b>
For PW×PL=480×640, A=468	<b>5055609</b>
For PW×PL=640×400, A=183	<b>5055560</b>
For PW×PL=640×480, A=257	<b>5055611</b>
For PW×PL=640×640, A=390	<b>5055569</b>

Use attachment kit 5055684.

**Attachment kit for guide rails**



Attachment kit for guide rails **5055684**

Kit consists of two attachment bracket combinations and the necessary mounting hardware. One kit is needed for each inner guide rail.

