



## Summary

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**MODUL-FLEX is a system designed to build conveyors with plastic modular chain for every application.**



**Modular chain conveyors are particularly suitable for handling unpackaged food products or products that require high stability.**

MODUL-FLEX is a conveyor system that can be adapted to all main brands of modular chains such as Intralox, Habasit and Rexnord MCC.

MODUL-FLEX allows to create straight and curved paths for any layout requirement in the following standard sizes:

- 101 mm, 152 mm, 203 mm, 254 mm, 305 mm and 406 mm for curving and straight paths
- 508 mm, 609 mm, 711 mm, 813 mm for straight paths

On request, the system can be adapted to any size or accessory.

MODUL-FLEX was designed to be easy to use, both by plant and machine builders and by companies that need to handle products.

MODUL-FLEX is a practical system, that allows to use a vast range of accessories and standard components available on the market.

MODUL-FLEX interfaces easily with other systems and allows to reuse different elements of related components.

## Technical Data\*

The extreme diversity of applications that Modul-Flex can handle will not allow us to define precise technical specifications: the following data is to be considered as indicative.

For a clearer evaluation of the Modul-Flex system, please contact our Technical Office.

### ■ **Product dimensions: 30÷800 mm**

The geometric shape of the product to be handled influences the maximum width of products accommodated by the system.

### ■ **Maximum product weight: to be evaluated**

The maximum weight of the product transported is limited to the need to minimize wear and tear of slideways in horizontal transport and flight resistance in vertical transport.

### ■ **Maximum weight on the conveyor: to be evaluated**

The maximum weight depends essentially on the drive's tow capacity, the maximum admissible workload of the chain and the conveyor belt layout.

### ■ **Maximum conveyor length: 30÷40 m**

The maximum length of the conveyor depends on the total load, the drive capacity, the speed and the conveyor layout.

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

- Heavy loads
- Accumulation
- Vertical conveyor
- High speed
- Long conveyor
- Conveyor with flat plane curves or vertical curves
- Frequency of starts and stops

### ■ **Maximum conveyor speed: 60÷70 m/min**

The maximum speed of the conveyor depends on the total load and the drive capacity.

### ■ **Noise level of the conveyor:**

Various factors contribute to making the conveyor noisy:

- Products on the conveyor
- Conveyor speed
- Chain pace
- Installation location
- Layout and size of the conveyor

After an initial period of running, the noise from the chain diminishes.

A higher speed will produce more noise.

\* The data indicated above should be considered indicative of normal conveyor performance. For applications that have values outside of this range or have particular working conditions, please contact our technical office for a feasibility assessment.










## Actual lengths for MODUL-FLEX tracks

The following table shows actual layouts of the various components, rounded to the successive 5 mm, in order to determine the quantity of chain needed to make the belt.

For curves, the chain length is calculated measuring the path on the longer side of the curve, keeping in mind that the minimum internal radius corresponds to the chain width multiplied by 2.2 (for example, a curve with a chain K8 (203 mm) wide would have a minimum internal radius of 446.6 mm).

However, special chains are available to create curves with a lower minimum internal radius: contact our Technical Office for more information.

Also, standard flat curves are made with a straight track of 85 mm on the two ends of the curve itself. Between 2 adjacent curves in opposite directions, is necessary to insert a minimum straight track twice the width of the belt long (this is not necessary for adjacent curves in the same direction). For straight channel tracks, it is necessary to add the lengths of the various elements and double the quantity.

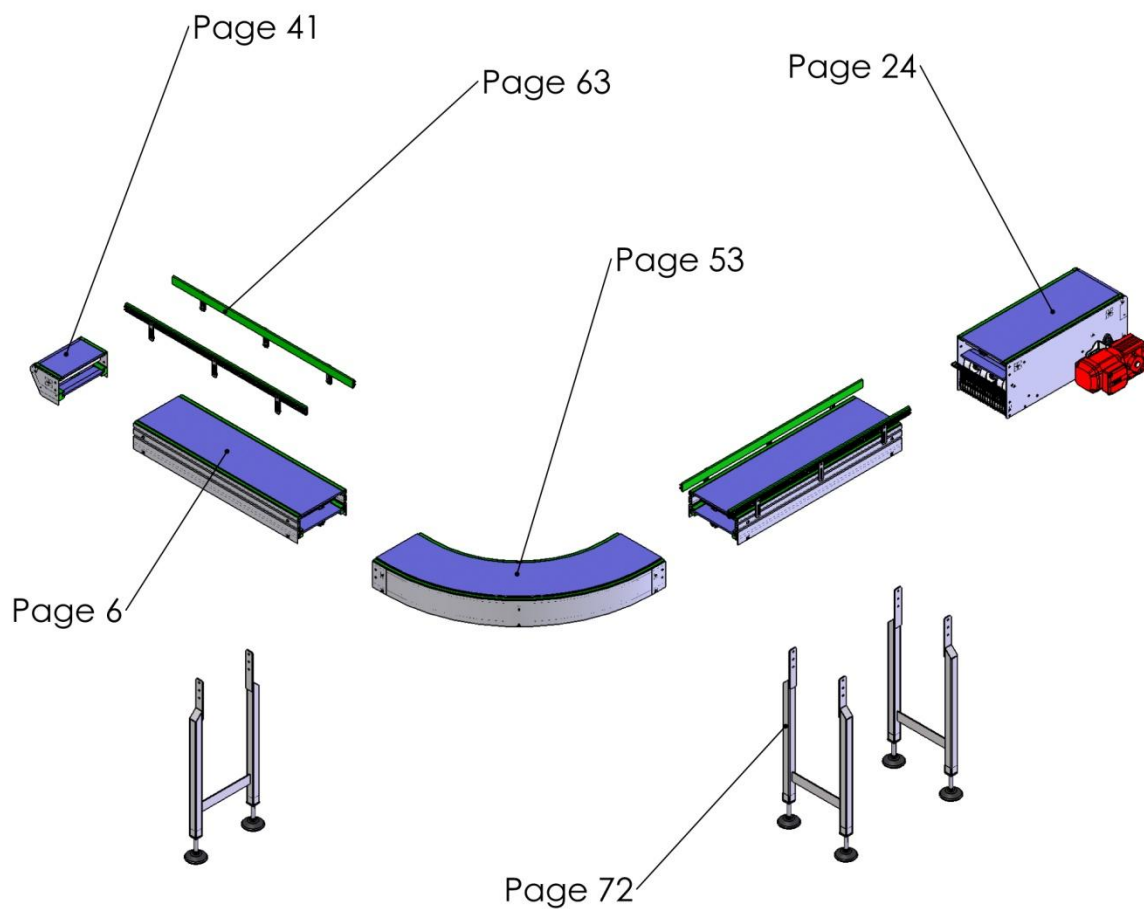
Description	Track length (mm)	Track layout
End drives with sprocket Ø 100 mm MJTMPD/S - MJTMRD/S	1075	
End drives with return roller Ø 45 mm MJTM45PD/S MJTM45RD/S	1910	
Bi-directional central drive MJTMCBPD/S MJTMCBRD/S	Upper: 1200 Lower: 1710	
Unidirectional central drive MJTMCUPD/S MJTMCURD/S	Upper: 740 Lower: 1190	
180° return with roller Ø 88 mm MJRR88	465	
180° return with roller Ø 45 mm MJRR45	400	
180° return with fixed pin Ø 10 mm MJR10	165	



## Structure of Standard MODUL-FLEX Conveyor

A single Modul-Flex conveyor is made up of number of modular blocks that allows to create any type of layout. This catalogue contains the descriptions of all standard modules:

- Straight channels (from page 6)
- Motor drives (from page 24)
- Return ends (from page 41)
- Curves (from page 53)
- Lateral guides (from page 63)
- Ground supports (from page 72)



### NOTE:

The drawings in this catalogues can be subject to graphical simplifications and therefore may not represent the actual final look of the product. If effective drawings of components are necessary to assess space requirements, please contact our technical office for more information.



## Fundamental characteristics of the chain guide channel

The Modul-Flex chain guide channel is built from 2 profiles in extruded aluminum joined by spacers of different lengths, depending on the width of the chain that is used. There are 2 different types of profiles for making the external sheets of the channels:

- Modular Jolly, with smooth sides, made according to our Jolly-Flex standard
- Modular BAT, with grooves that can make it easier to add accessories to the conveyor at any time.

Slideways in high molecular weight polyethylene are mounted by snapping the pieces together, which takes advantage of the particular shape of the extruded aluminum profile. Then the slideway profile must be fastened with countersunk M4 screws.

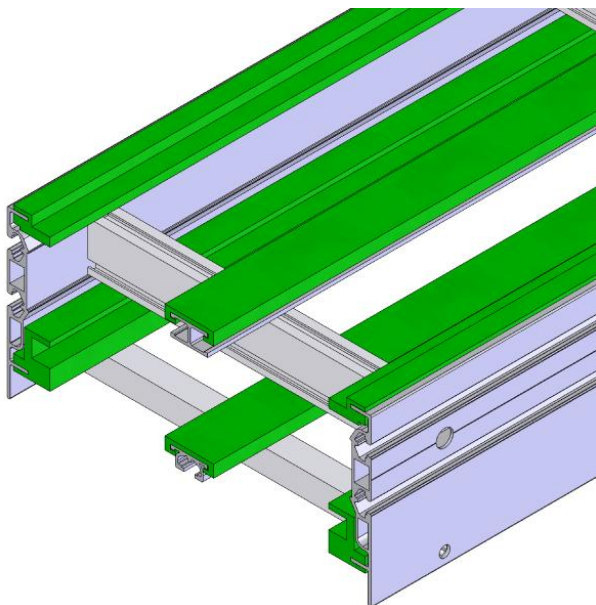
The chain width can also require one or more slideway profiles on the centre part of the channel, which are also made of polyethylene and fasten by snapping to the aluminum profile. The aluminum profile is fastened to the internal spacers of the channel.

The central slideway profile is also found on the return path of the chain.

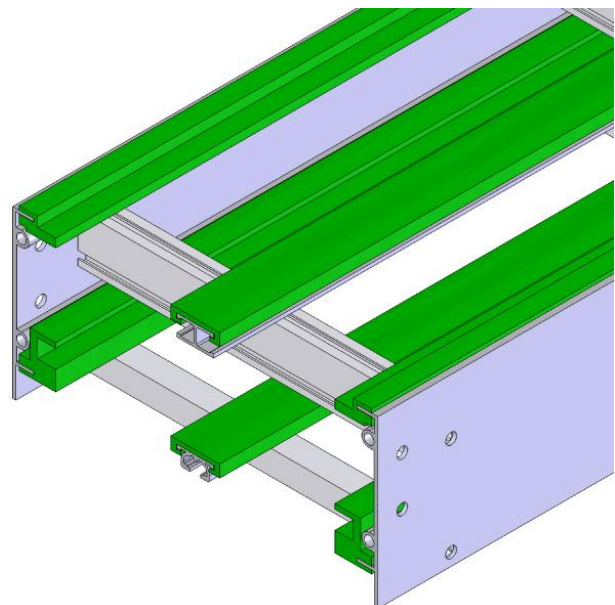
The 2 types of profiles require different types of joints to be coupled together:

- Modular Jolly profiles are joined between channels or between the channel and the end units or between the channel and a curve with square aluminum plates and bushes.
- Modular BAT profiles require 3 different types of joining plates, depending on the coupling that must be done:
  - If coupling 2 channels, use 2 PG1 plates on each side inserted into the slots;
  - If coupling between a channel and an end unit or a channel and curve (which has a side with no slots), use specific shaped plates with the code PG32.
  - Lastly, if coupling between a channel and an end unit or a channel and curve (which also has a side with no slots), use specific shaped plates with the code PG33.

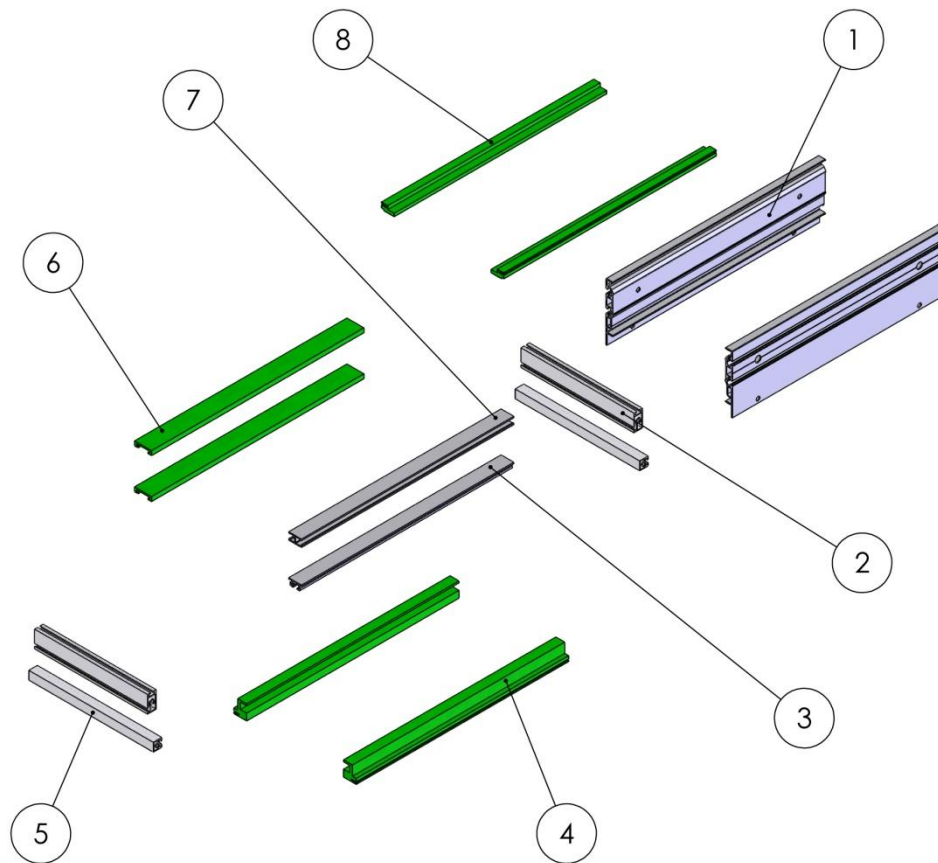
**Modular BAT channel**



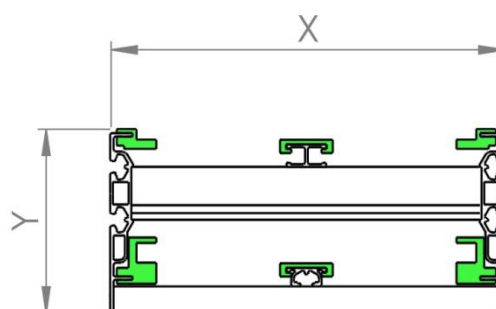
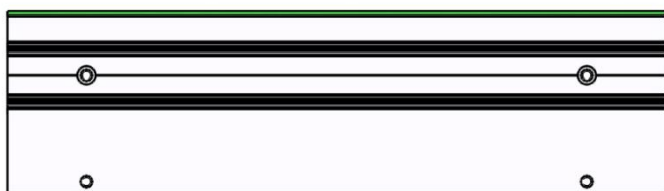
**Modular Jolly channel**



A complete pre-mounted channel is supplied as follows:



Article Number	Description	Article Code
1	MODUL-FLEX CHAIN GUIDE PROFILE	JFR6417 J13617-2CB
2	INTERNAL SPACER	PS4020
3	CENTRAL LOWER GUIDE SUPPORT PROFILE	GL30A
4	CENTRAL LOWER CHAIN SLIDEWAY	GS1
5	INTERNAL SPACER	PS2020
6	CENTRAL CHAIN SLIDEWAY	GS12A
7	CENTRAL UPPER CHAIN SLIDEWAY	GL3017A
8	UPPER CHAIN SLIDEWAY	GS311R



$X$  = Channel width equals to  $L+44$  mm  
(where  $L$  is the effective width of the chain)

$Y$  = Height of the chain surface equals to  $h+131$  mm  
(where  $h$  is the effective height of the chain)

### Ordering:

To order the pre-mounted channel, please specify the type of chain you want to use and its width (for this information, see the following pages regarding standard chains), the number of pieces desired and their lengths: the cost of each piece, calculated per meter, will be rounded to the next half meter.

An example of an order code for a channel piece could be:

Modul-Flex channel with straight Intralox Flat Top chain 203 mm wide and 1200 mm long = MF-S1100 FT-K8-1200

The cost for a channel like the one in the example would be the same as for a channel 1500 long.

### Quantities per meter of a pre-mounted channel:

Descrizione	Codice Articolo	Quantità
MODUL-FLEX CHAIN GUIDE PROFILE	JFR6417 J13617-2CB	2 m
INTERNAL SPACER	PS4020	3
INTERNAL SPACER	PS2020	3
CENTRAL LOWER SLIDEWAY SUPPORT PROFILE	GL30A	1 m
CENTRAL UPPER SLIDEWAY SUPPORT PROFILE	GL3017A	1 m
LOWER CHAIN SLIDEWAY	GS311R	2 m
CENTRAL CHAIN SLIDEWAY	GL40P	2 m
UPPER CHAIN SLIDEWAY	GS12A	2 m

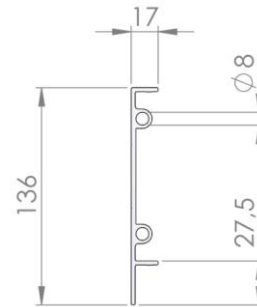




## Modular Jolly Chain guide profile

Material : Anodized aluminum  
Length : 6 m

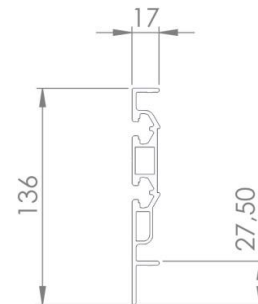
**Order Code: JF R 6417**



## Modular Bat Chain guide profile

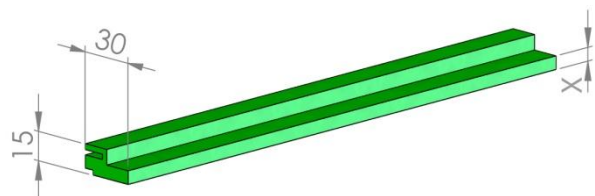
Material : Anodized aluminum  
Length : 6 m

**Order Code: J13617-2CB**



## Slideways on forward chain path

Material : Polyethylene  
Colour : Green  
Packaging : 3 m  
X : Depends on the chain type  
(please, specify it at moment of the order)



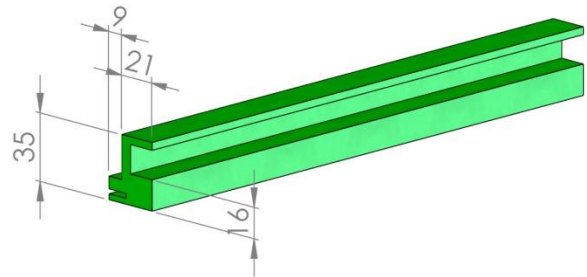
**Order Code: GS12A**



## Slideways on return chain path

Material : Polyethylene  
Colour : Green  
Packaging : 3 m

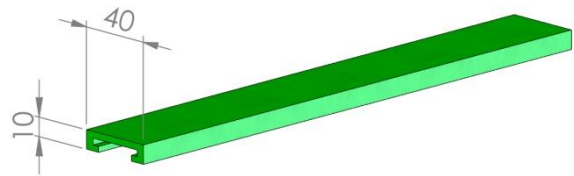
**Order Code: GS311R**



## Central slideway and profile

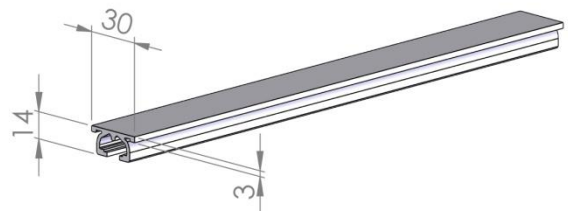
Material : Polyethylene  
Colour : Green  
Packaging : 6 m

**Order Code: GL40P**



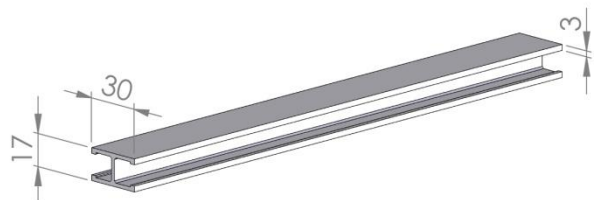
Material : Anodized aluminum  
Packaging : 6 m

**Order Code: GL30A**



Material : Anodized aluminum  
Packaging : 6 m

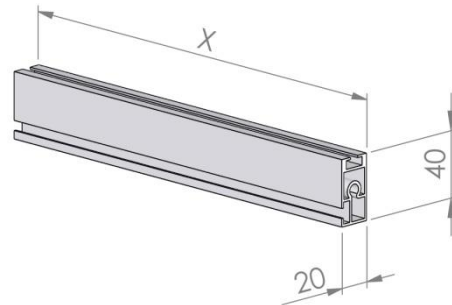
**Order Code: GL3017A**





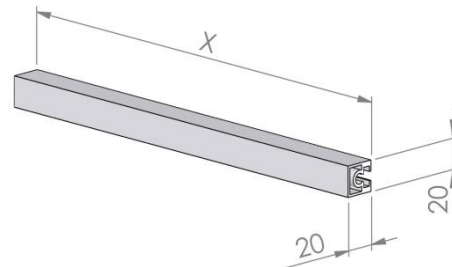
## Chain guide channel internal spacers

Material : Anodized aluminum  
Packaging : 6 m  
X : L+12 mm for Modular BAT  
L+38 mm for Modular Jolly  
(Where L is the effective width of the chain)



**Order Code: PS4020**

Material : Anodized aluminum  
Packaging : 6 m  
X : L+39 mm  
(Where L is the effective width of the chain)



**Order Code: PS2020**

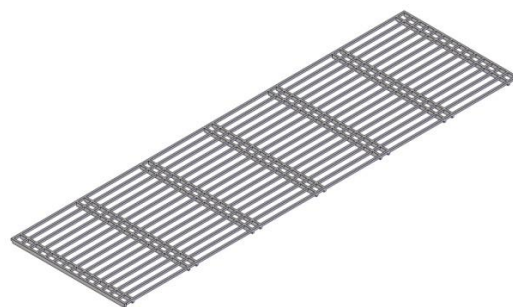
### NOTE:

Aluminum profiles for channels and spacers and polyethylene profiles for slideways are sold in 6 meter bars. Custom cut pieces of profiles can be ordered on request. In this case, the price will be calculated by estimating the length to the next half meter and applying a surcharge for each cut made (please consult the price list for details).

## TEC protection mesh

Material : Galvanized steel  
Packaging : Customized

**Order Code: MFRT**





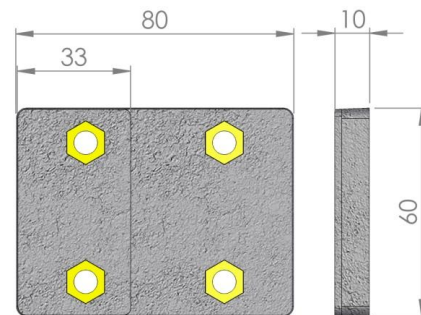
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**MODUL-FLEX**

## Modular Jolly channel joining plate

Material : Cast aluminum  
Packaging : 10 pieces with bolts

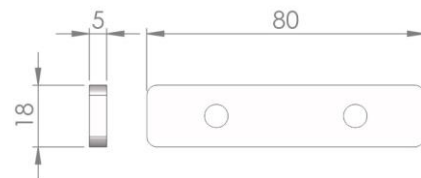
**Order Code: PJF8**



## Modular BAT channel joining plate

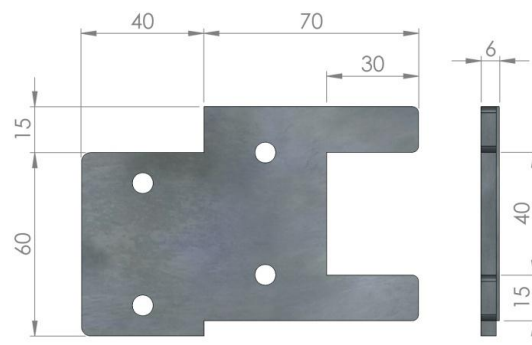
Material : Galvanized steel  
                  Stainless steel  
Packaging : 50 pieces with bolts

**Order Code: PG1**  
**Stainless Steel Version: PGX1**



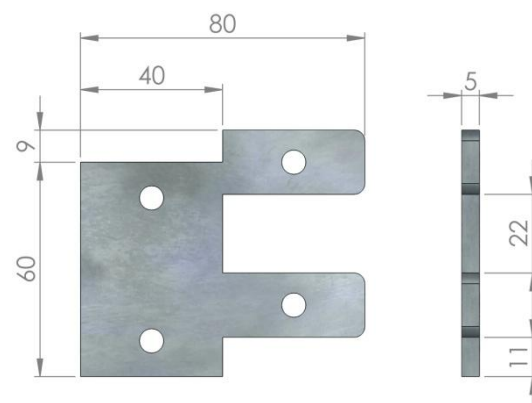
Material : Galvanized steel  
Packaging : 10 pieces with bolts

**Order Code: PG32**



Material : Galvanized steel  
Packaging : 10 pieces with bolts

**Order Code: PG32**





## Chains

The links of modular belts are made with plastic modules mounted on an interlocking structure, joined with joining pins (also in plastic) and moved by plastic sprockets.

Modular chains have all of the qualities required by any operator or designer: resistant to corrosion, positive tow system, great durability, low friction coefficient and resistance to abrasion.

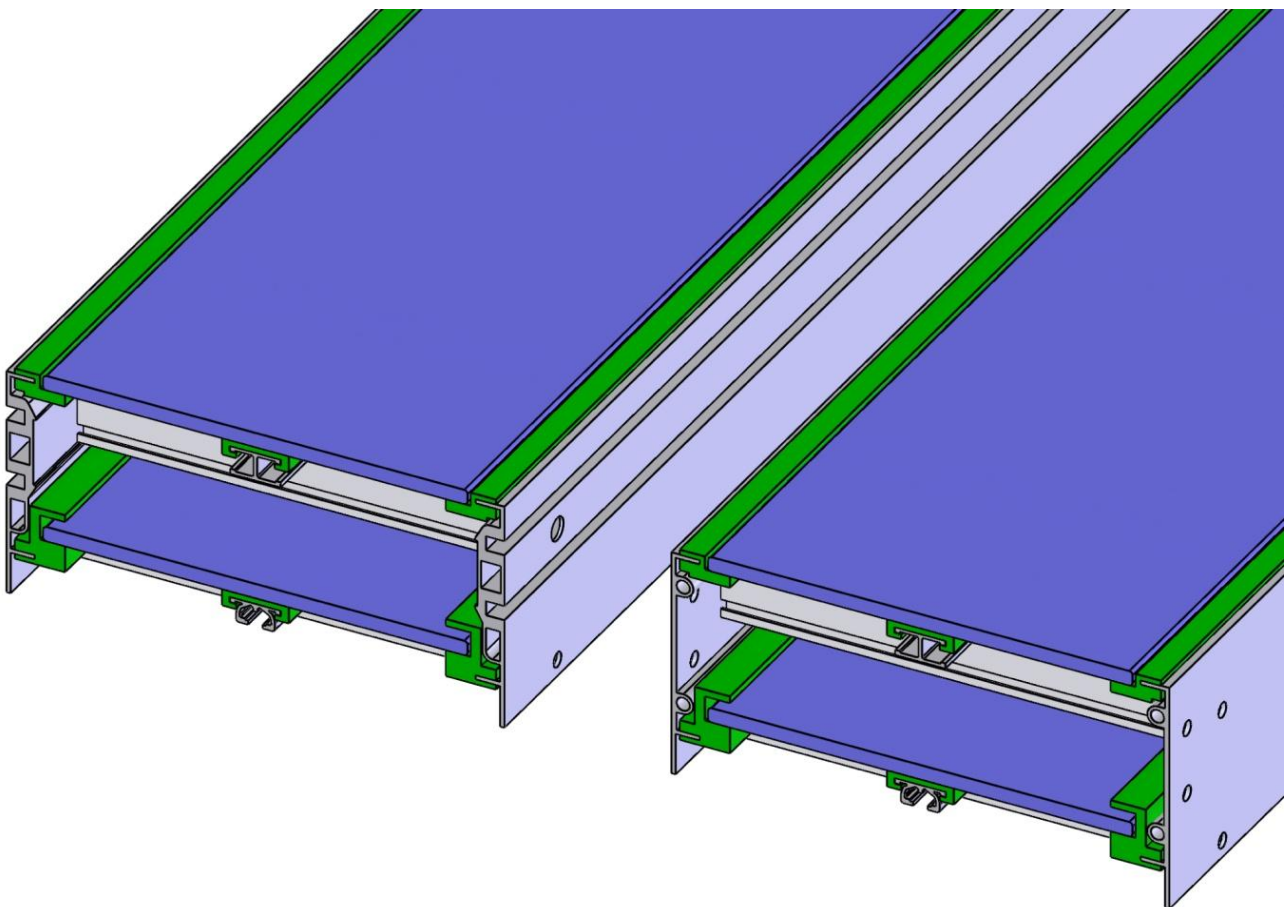
Also, a modular system takes less time to clean, reduces down time for maintenance, and quick repairs in case of breakdowns.

The Modul-Flex system uses chains made by major manufacturers, with different configurations, depending on client standards.

When ordering the chain, please specify the following:

- Manufacturer
- Model
- Link material
- Pin material
- Colour:
- Chain width in mm
- Length in mm

Our Technical Office will be available to help you choose the right chain for your applications.





### Typical Applications

	CHOCOLATE		CANNED PRODUCTS
	BAKED PRODUCTS		PHARMACEUTICAL FLACONS
	CHEESE		PRODUCTS IN PLASTIC BLISTER PACKS

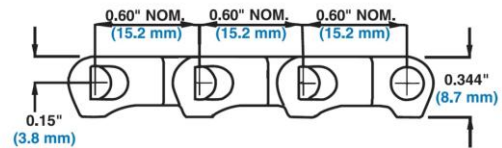
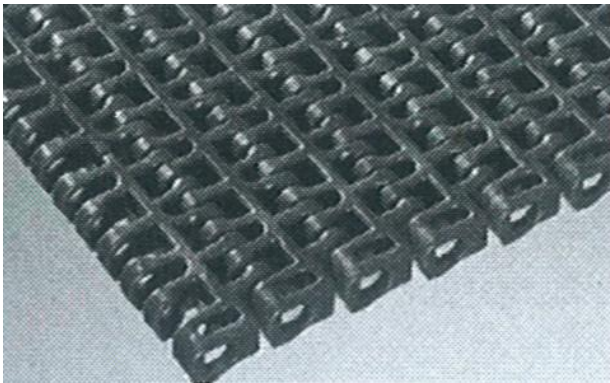
**NOTE:**  
 The standard chain models that we have at our disposal are listed below.  
 However, on client request, are available different brands, dimensions, materials and accessories for every type of chain.  
 For more information and evaluation of the best chain model for your needs, please contact our Technical Office.



## Straight chains

### INTRALOX

#### Intralox 1100 Series Flush Grid Chain



#### Specifications

Chain Material	Standard Pin Material	Colour	Weight (Kg/m <sup>2</sup> )
Polypropylene	Polypropylene	White/Grey/Black	3,95
Polyethylene	Polyethylene	White	4,25
Acetal	Polypropylene/Acetal	Blue/White	5,80
FR-TPES	Polypropylene	Green	6,34
Nylon	Nylon	Black	5,80

Surface: : Smooth grid

Width : 101 mm (4 Inches)  
152 mm (6 Inches)  
203 mm (8 Inches)  
254 mm (10 Inches)  
305 mm (12 Inches)  
406 mm (16 Inches)  
508 mm (20 Inches)  
609 mm (24 Inches)  
711 mm (28 Inches)  
813 mm (32 Inches)

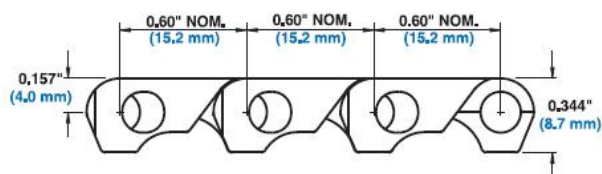
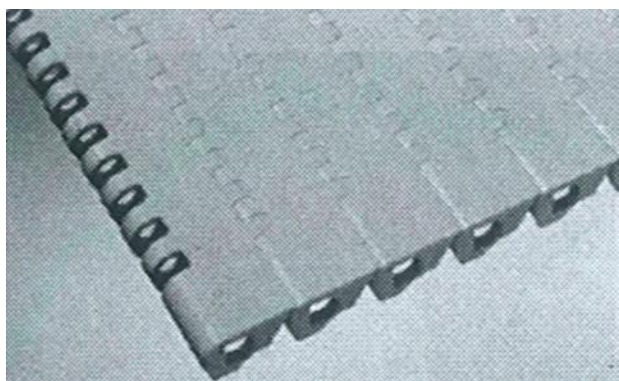
(Effective width after confirmation from Intralox)

#### Supply length

Per meter



## Intralox 1100 Series Flat Top Chain



### Specifications

Chain Material	Standard Pin Material	Colour	Weight (Kg/m <sup>2</sup> )
Polypropylene	Polypropylene	White/Grey	4,40
Polyethylene	Polyethylene	White/Blue	4,69
Acetal	Polypropylene/Acetal	Blue/White	6,35

Surface: : Smooth, close

Width : 101 mm (4 Inches)  
 152 mm (6 Inches)  
 203 mm (8 Inches)  
 254 mm (10 Inches)  
 305 mm (12 Inches)  
 406 mm (16 Inches)  
 508 mm (20 Inches)  
 609 mm (24 Inches)  
 711 mm (28 Inches)  
 813 mm (32 Inches)

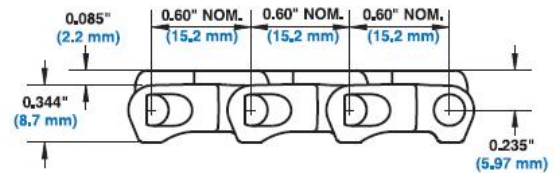
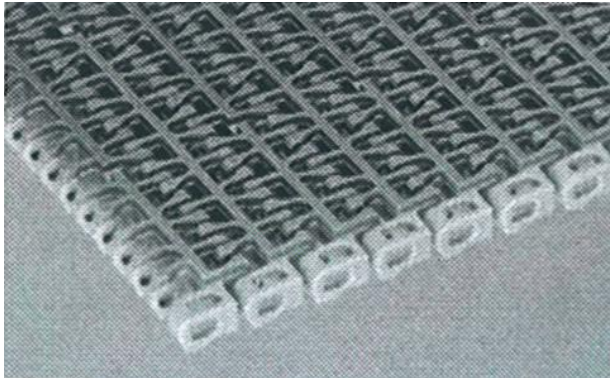
(Effective width after confirmation from Intralox)

### Supply length

Per meter



## Intralox 1100 Series Friction Top Chain



### Specifications

Chain Material	Standard Pin Material	Colour	Weight (Kg/m <sup>2</sup> )
Polypropylene	Polypropylene	White/Grey/Black	3,95

Surface: : Rubbered grid

Width : 101 mm (4 Inches)  
 152 mm (6 Inches)  
 203 mm (8 Inches)  
 254 mm (10 Inches)  
 305 mm (12 Inches)  
 406 mm (16 Inches)  
 508 mm (20 Inches)  
 609 mm (24 Inches)  
 711 mm (28 Inches)  
 813 mm (32 Inches)

(Effective width after confirmation from Intralox)

Insert hardness options : 64/55 Shore A

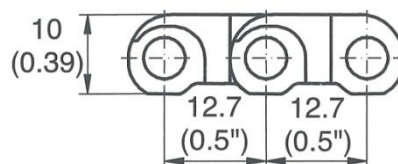
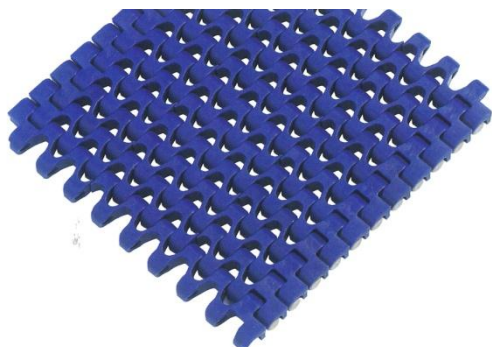
### Supply length

Per meter



## HABASIT

### Habasit M1233 Flush Grid Chain



### Specifications

Chain Material	Standard Pin Material	Colour	Weight (Kg/m <sup>2</sup> )
Polypropylene	Polypropylene	White/Grey/Blue	5,20
Polyethylene	Polyethylene	Natural/Blue	5,40
Polyoxymethylene	Polypropylene/Polyethylene/Polyacetylene	White/Blue	7,20

Surface: : Smooth grid

Width : 150 mm (6 Inches)  
 200 mm (8 Inches)  
 250 mm (10 Inches)  
 300 mm (12 Inches)  
 400 mm (16 Inches)  
 500 mm (20 Inches)  
 600 mm (24 Inches)  
 700 mm (28 Inches)  
 800 mm (32 Inches)

(Effective width after confirmation from Habasit)

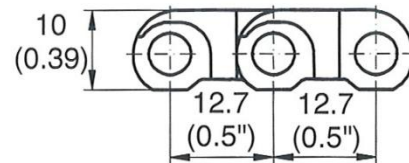
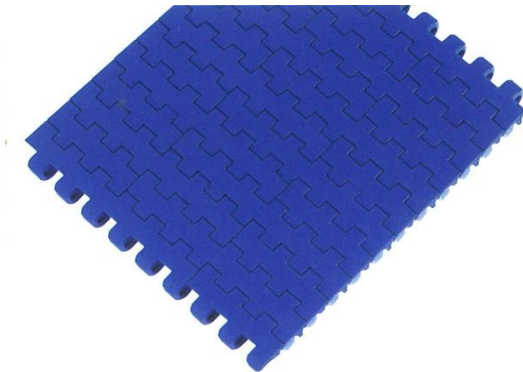
### Supply length

Per meter





## Habasit M1220 Flat Top Chain



### Specifications

Chain Material	Standard Pin Material	Colour	Weight (Kg/m <sup>2</sup> )
Polypropylene	Polypropylene	White/Grey/Blue	5,80
Polyethylene	Polyethylene	Natural/Blue	6,20
Polyoxymethylene	Polypropylene/Polyacetylene	White/Blue	8,70

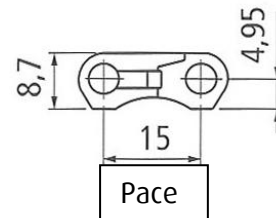
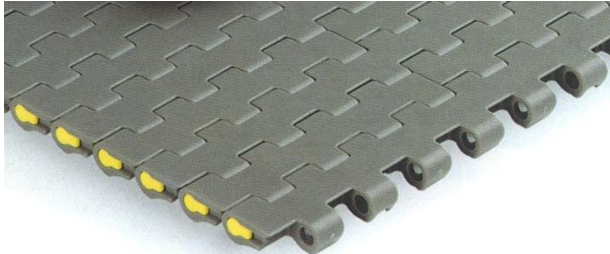
Surface: : Smooth, close

Width : 150 mm (6 Inches)  
200 mm (8 Inches)  
250 mm (10 Inches)  
300 mm (12 Inches)  
400 mm (16 Inches)  
500 mm (20 Inches)  
600 mm (24 Inches)  
700 mm (28 Inches)  
800 mm (32 Inches)

(Effective width after confirmation from Habasit)

### Supply length

Per meter

**REXNORD****Rexnord 1505 Series Solid Top Chain****Specifications**

Chain Material	Standard Pin Material	Colour	Weight (Kg/m <sup>2</sup> )
High performance	Polypropylene	Grey	6,24
Polypropylene	Polyethylene	White	4,52

Surface: : Smooth, close

Width : 101 mm (4 Inches)  
152 mm (6 Inches)  
203 mm (8 Inches)  
254 mm (10 Inches)  
305 mm (12 Inches)  
406 mm (16 Inches)  
508 mm (20 Inches)  
609 mm (24 Inches)  
711 mm (28 Inches)  
813 mm (32 Inches)

(Effective width after confirmation from Rexnord)

**Supply length**

Per meter



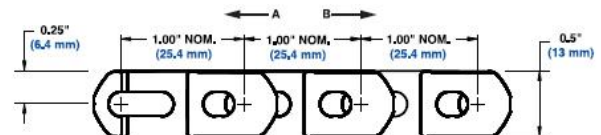
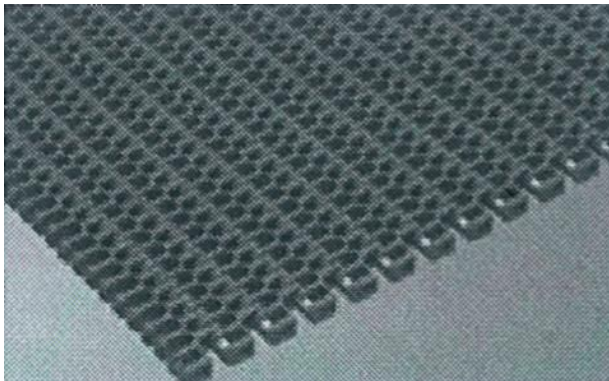
M.H. MATERIAL HANDLING

**MODUL-FLEX**

## Curving chains

### INTRALOX

#### Intralox 2400 Series Flush Grid Chain



A - Direzione preferita per applicazioni piane curvilinee

B - Direzione preferita per applicazioni ad alta velocità

#### Specifications

Chain Material	Standard Pin Material	Colour	Weight (Kg/m <sup>2</sup> )
Polypropylene	Acetal/Polypropylene	White/Grey	5,40
Acetal	Nylon	White/Blue	7,76

Surface: : Smooth grid

Width : 101 mm (4 Inches)  
 152 mm (6 Inches)  
 203 mm (8 Inches)  
 254 mm (10 Inches)  
 305 mm (12 Inches)  
 406 mm (16 Inches)

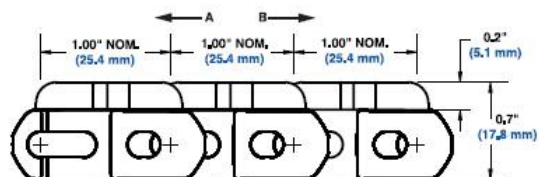
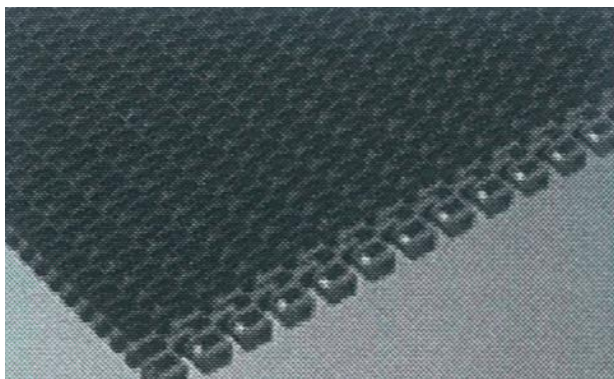
(Effective width after confirmation from Intralox)

#### Supply length

Per meter



## Intralox 2400 Series Friction Top Chain



A -Direzioe preferita per applicazioni piane curvilinee

B -Direzioe preferita per applicazioni ad alta velocità

### Specifications

Chain Material	Standard Pin Material	Colour	Weight (Kg/m <sup>2</sup> )
Polypropylene	Acetal/Polypropylene	White/Grey	6,59

Surface: : Rubbered grid

Width : 101 mm (4 Inches)  
 152 mm (6 Inches)  
 203 mm (8 Inches)  
 254 mm (10 Inches)  
 305 mm (12 Inches)  
 406 mm (16 Inches)  
 (Effective width after confirmation from Intralox)

Insert hardness options : 64/55 Shore A

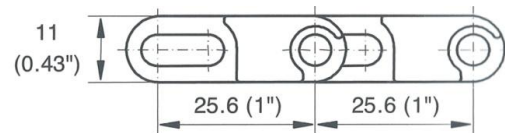
### Supply length

Per meter



## HABASIT

### Habasit M2540 Flush Grid Chain



### Specifications

Chain Material	Standard Pin Material	Colour	Weight (Kg/m <sup>2</sup> )
Polypropylene	Polyoxymethylene/Polyacetylene	White/Grey/Blue	4,70
Polyoxymethylene	Polyacetylene	White/Blue	7,00

Surface: : Smooth grid

Width : 150 mm (6 Inches)  
 200 mm (8 Inches)  
 250 mm (10 Inches)  
 300 mm (12 Inches)  
 400 mm (16 Inches)  
 (Effective width after confirmation from Habasit)

### Supply length

Per meter



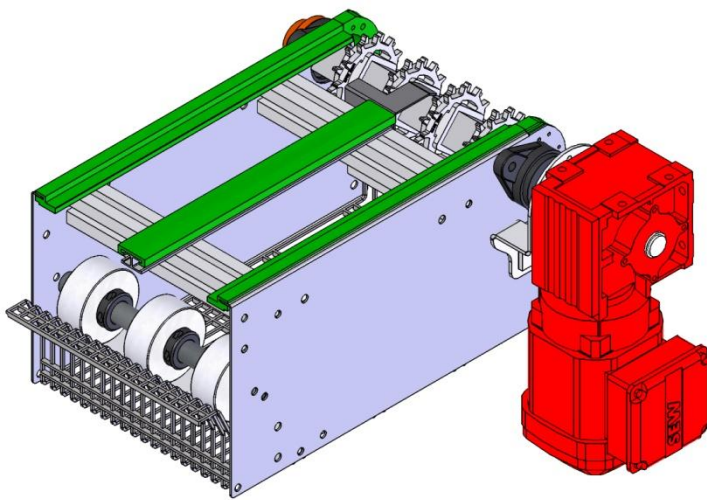


## End motor drive

The end drive is the most used to make conveyors of any shape with forward and backward paths. The most natural configuration for a conveyor belt is with the motor drive "pulling" the chain.

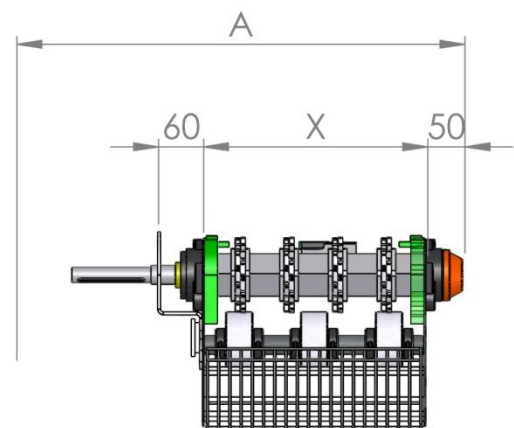
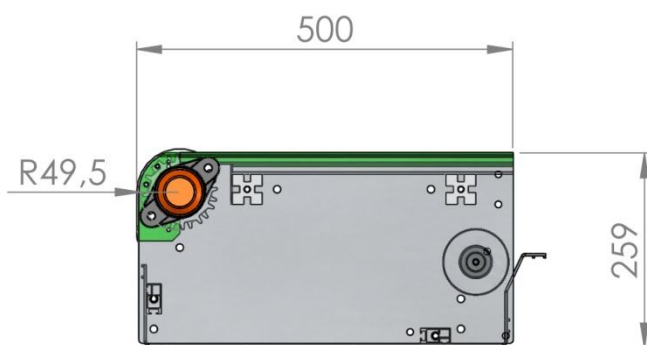
### Suspended end motor drive with sprocket Ø 99 mm

The unit is mounted on the side of the motor, and is directly connected to the chain drive sprocket.

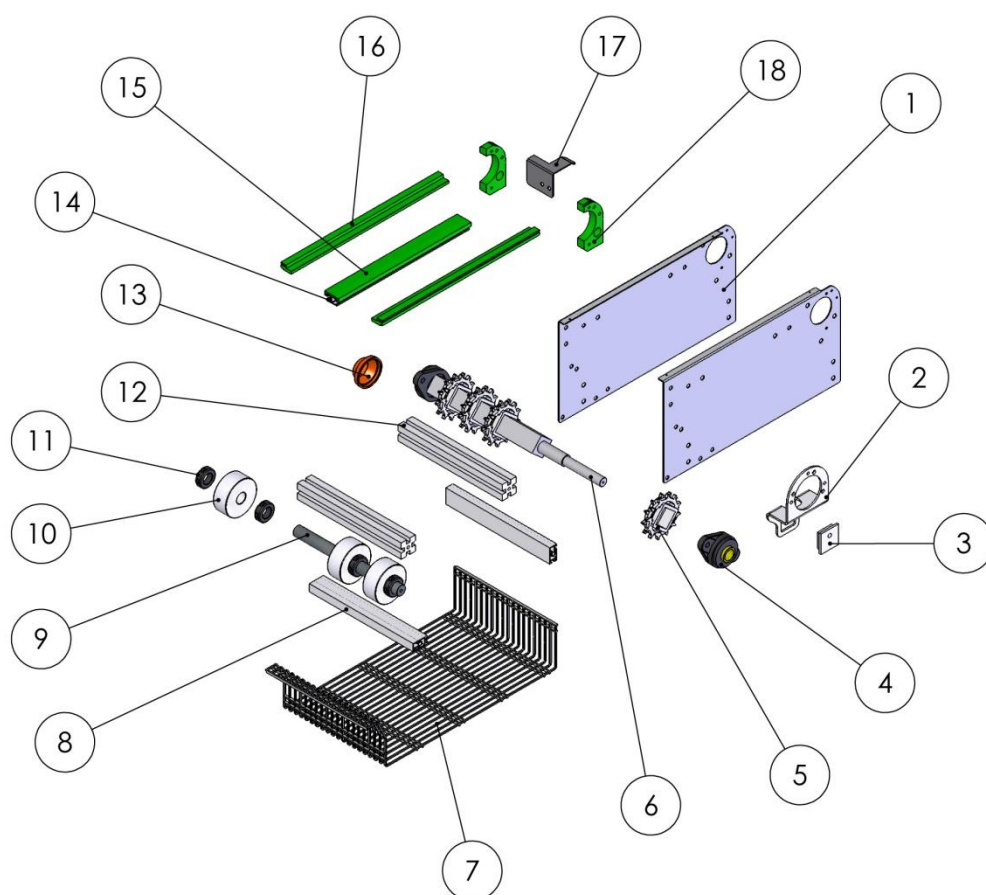


#### Technical specifications:

Standard motor	: Triphase 220/380 V
Drive sprocket with straight chain	: Dp. 99 mm
Drive sprocket with curving chain	: Dp. 99 mm
Standard speed at 50 Hz (m/min)	: 4, 15.5, 24, 43.5, 62



A = Volume depending to the motor gear type  
X = End drive width equal to L+44 mm  
(where L is the effective width of the chain)



Article Number	Description	Article Code
1	LEFT/RIGHT END MOTOR DRIVE PLATE	MFP M01DX MFP M01SX
2	REACTION LEVER	*
3	PIN FOR REACTION ARM	F5TM06
4	<b>POLYAMIDE FLANGE SUPPORT</b>	54205N-EC
5	<b>SPROCKETS</b>	**
6	DRIVE SHAFT	*
7	TEC MESH	**
8	INTERNAL SPACER	PS4020
9	RETURN SHAFT	MFP R07
10	RETURN ROLLER SECTION IN POLYAMIDE	MFP R09
11	BUSH IN 2 HALVES	12703
12	INTERNAL SPACER	PS4040
13	PROTECTION CAP	50108
14	ALUMINIUM PROFILE FOR CENTRAL SLIDEWAY	GL3017A
15	CENTRAL CHAIN SLIDEWAY	GL40P
16	CHAIN SLIDEWAY	G512A
17	STAINLESS STEEL CONNECTING COMBS	MFP P
18	LEFT/RIGHT UNDERCHAIN SLIDE	MFP M04DX MFP M04SX

\* Depends on the motor type

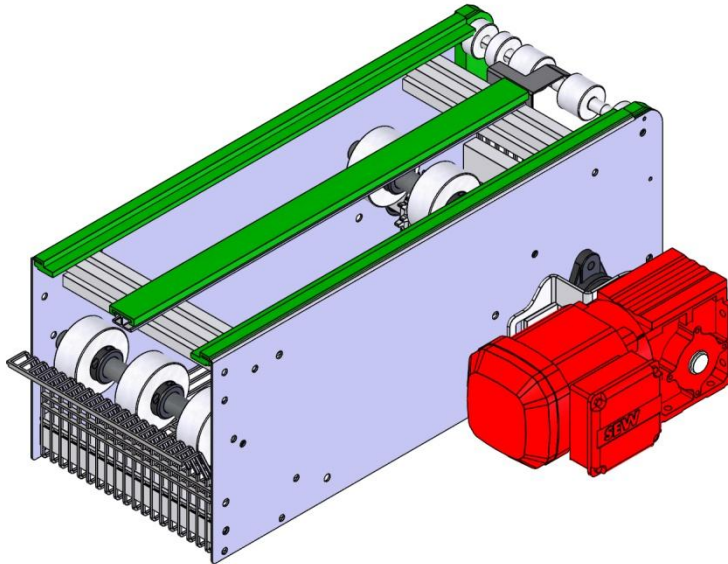
\*\* Depends on the chain type

The parts indicated are not sold separately unless they are printed in bold or present in this catalogue in the designated section.



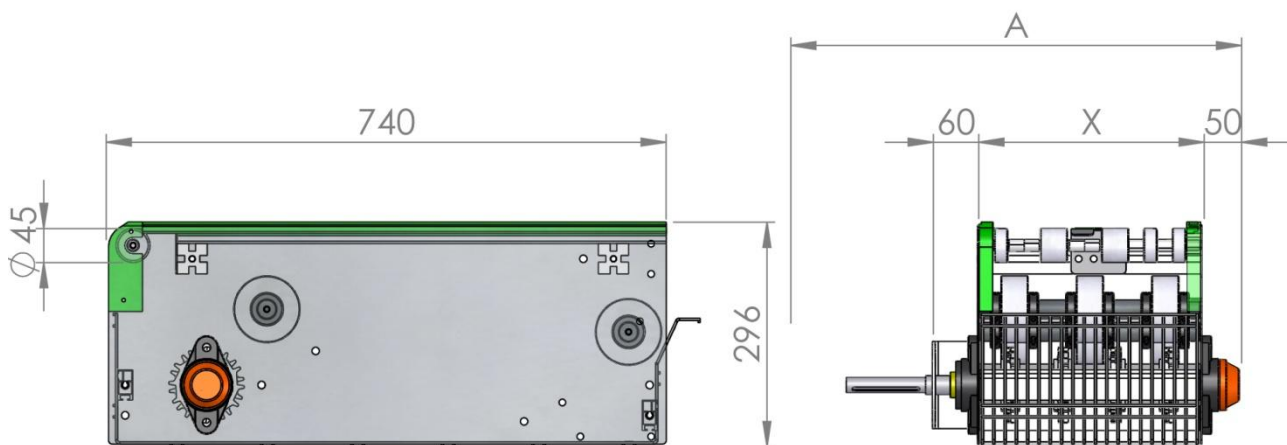
## Suspended end motor drive with end roller Ø 45 mm

The unit is mounted on the side of the motor, and is directly connected to the chain drive sprocket.

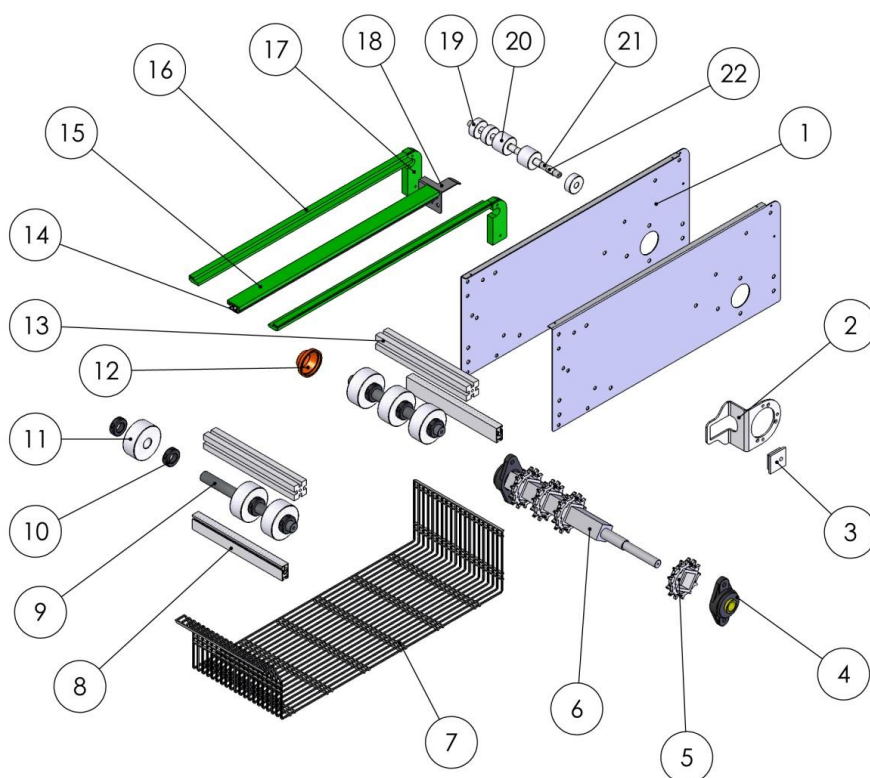


### Technical specifications:

Standard motor	: Triphase 220/380 V
Drive sprocket with straight chain	: Dp. 99 mm
Drive sprocket with curving chain	: Dp. 99 mm
Standard speed at 50 Hz (m/min)	: 4, 15.5, 24, 43.5, 62



A = Volume depending to the motor gear type  
 X = End drive width equal to L+44 mm  
 (where L is the effective width of the chain)



Article Number	Description	Article Code
1	LEFT/RIGHT PLATE FOR END MOTOR DRIVE	PM 45 01D PM45 01S
2	REACTION LEVER	*
3	PIN FOR REACTION ARM	F5TM06
4	<b>POLYAMIDE FLANGE SUPPORT</b>	54205N-EC
5	<b>SPROCKETS</b>	**
6	DRIVE SHAFT	*
7	TEC MESH	**
8	INTERNAL SPACER	PS4020
9	RETURN SHAFT	MFP R07
10	BUSH IN 2 HALVES	12703
11	RETURN ROLLER SECTION IN POLYAMIDE	MFP R09
12	PROTECTION CAP	50108
13	INTERNAL SPACER	PS4040
14	ALUMINUM PROFILE FOR CENTRAL CHAIN SLIDEWAY	GL3017A
15	CENTRAL CHAIN SLIDEWAY	GL40P
16	CHAIN SLIDEWAY	GS12A
17	LEFT/RIGHT UNDERCHAIN SLIDE	PMR45 04DX PMR45 04SX
18	STAINLESS STEEL CONNECTION COMB	MFP P
19	RETURN ROLLER LG18	PRP 45 08
20	RETURN ROLLER LG36	PRP 45 07
21	RETURN SHAFT	MFPR 45 05
22	IGUS BUSH	MSM 1416 20

\* Depends on the motor type

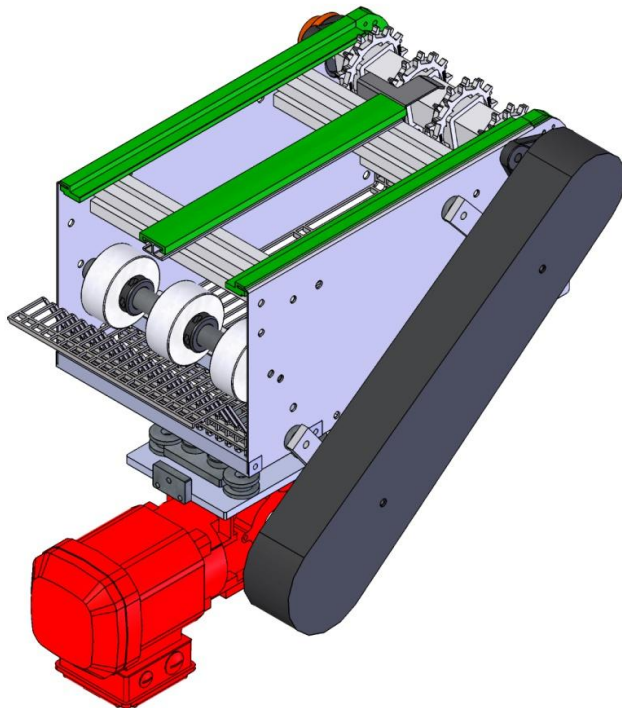
\*\* Depends on the chain type

The parts indicated are not sold separately unless they are printed in bold or present in this catalogue in the designated section.

## Transferred end motor drive with sprocket Ø 99 mm

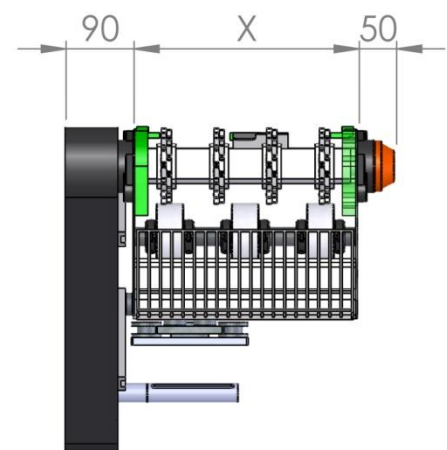
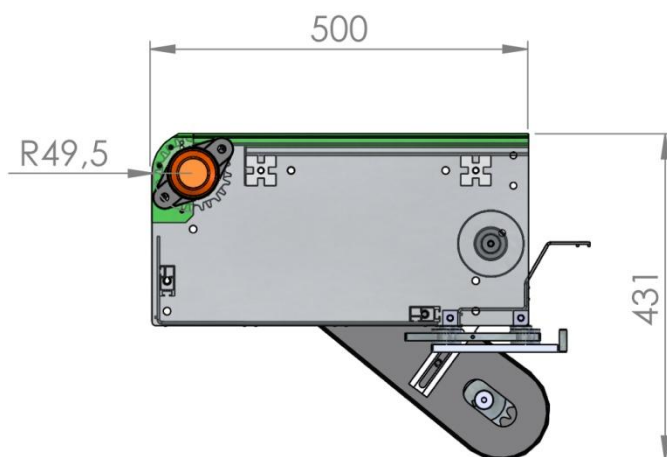
The transferred drive kit allows to move the position of the gear motor with respect to the axis of the drive sprocket. These are commonly used when it is necessary to reduce the space occupied by the end motor drive unit.

Transmission chain tension is regulated by using the available space in the slots on the support plate of the motor unit. The transmission has a suitable safety protection which must always be in its place when the conveyor is moving.



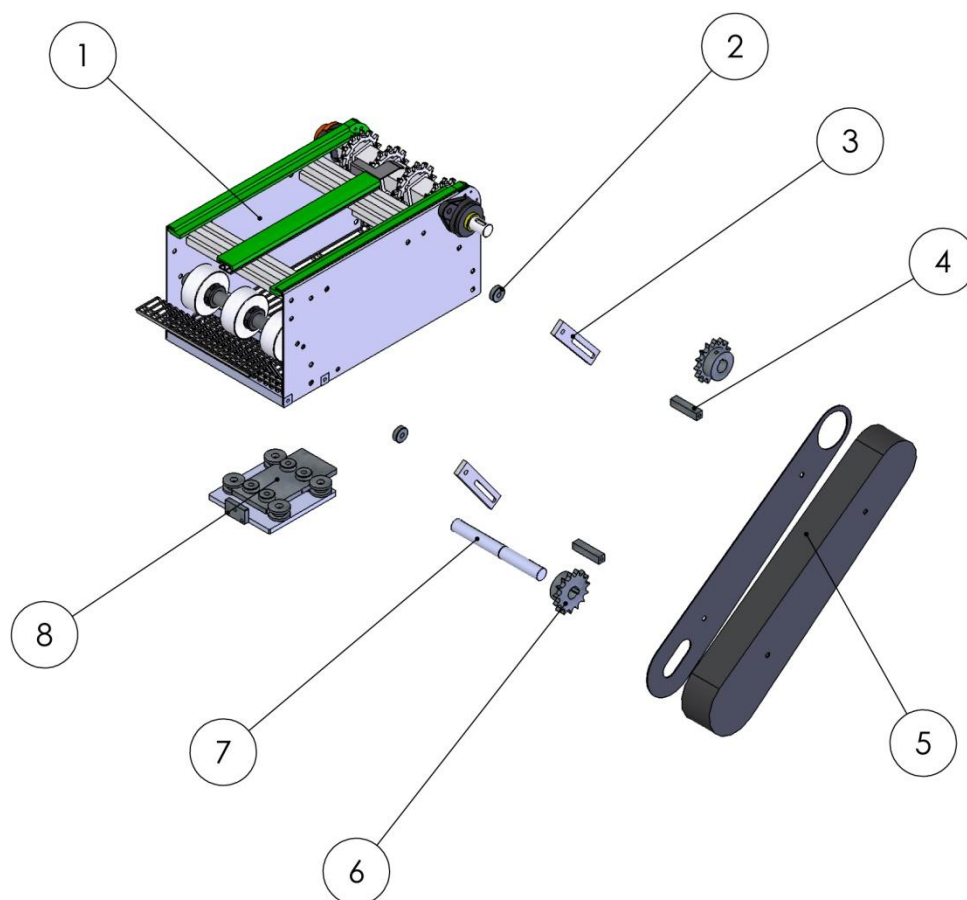
### Technical specifications:

Standard motor	: Triphase 220/380 V
Drive sprocket with straight chain	: Dp. 99 mm
Drive sprocket with curving chain	: Dp. 99 mm
Standard speed at 50 Hz (m/min)	: 4, 15.5, 24, 43.5, 62



A = Volume depending to the motor gear type  
X = End drive width equal to L+44 mm  
(where L is the effective width of the chain)





Article Number	Description	Article Code
1	END MOTOR DRIVE	
2	SAFETY PROTECTION FIXING SPACER	MFPM10
3	SAFETY PROTECTION BRACKET	F5TM12
4	SAFETY PROTECTION SPACER	MFPM013
5	SAFETY PROTECTION	MFPM12
6	SIMPLE SPROCKET	*
7	DRIVE SHAFT	*
8	SLIDE FOR RETURN DRIVE UNIT	*

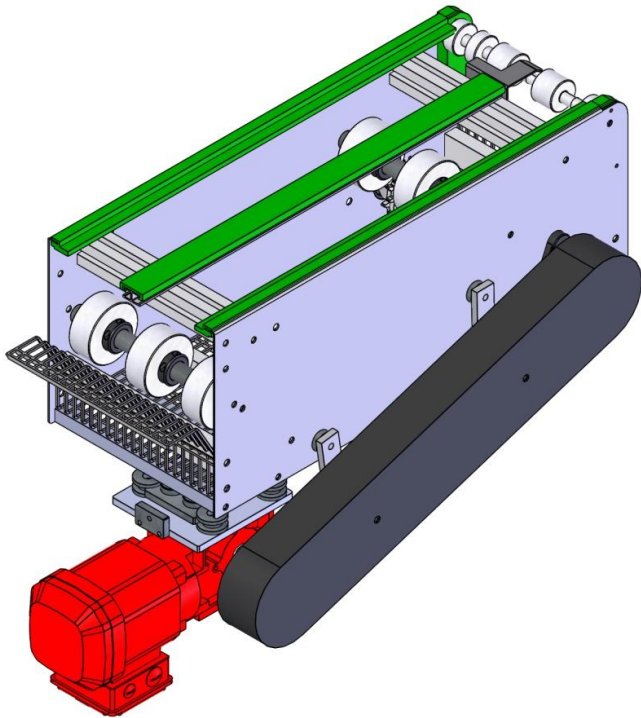
\* Depends on the motor type

The parts indicated are not sold separately unless they are present in this catalogue in the designated section.

## Transferred end motor drive with end roller Ø 45 mm

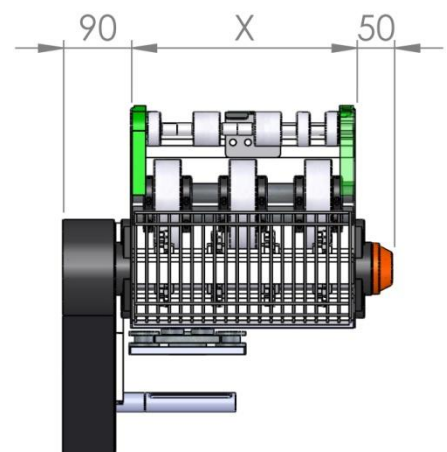
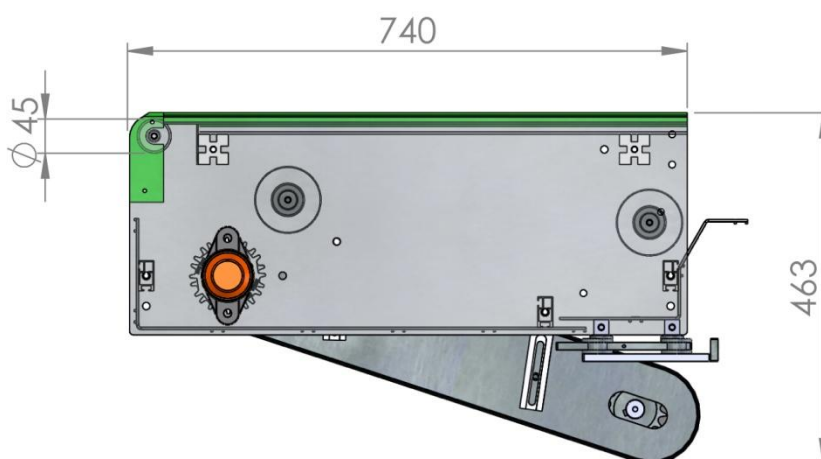
The transferred drive kit allows to move the position of the gear motor with respect to the axis of the drive sprocket. These are commonly used when it is necessary to reduce the space occupied by the end motor drive unit.

Transmission chain tension is regulated by using the available space in the slots on the support plate of the motor unit. The transmission has a suitable safety protection which must always be in its place when the conveyor is moving.

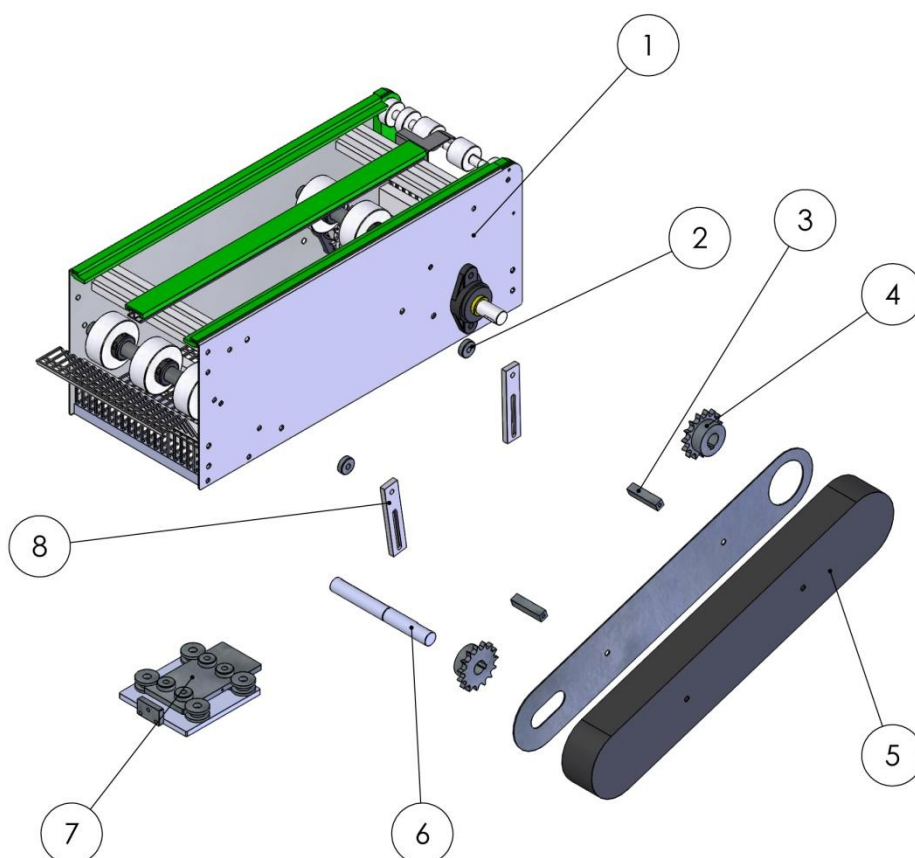


### Technical specifications:

Standard motor	: Triphase 220/380 V
Drive sprocket with straight chain	: Dp. 99 mm
Drive sprocket with curving chain	: Dp. 99 mm
Standard speed at 50 Hz (m/min)	: 4, 15.5, 24, 43.5, 62



A = Volume depending to the motor gear type  
X = End drive width equal to L+44 mm  
(where L is the effective width of the chain)



Article Number	Description	Article Code
1	END MOTOR DRIVE	
2	SAFETY PROTECTION FIXING SPACER	MFPM10
3	SAFETY PROTECTION BRACKET	MFPM013
4	SAFETY PROTECTION SPACER	*
5	SAFETY PROTECTION	MFPM12
6	SIMPLE SPROCKET	*
7	DRIVE SHAFT	*
8	SLIDE FOR RETURN DRIVE UNIT	F5TM12

\* Depends on the motor type

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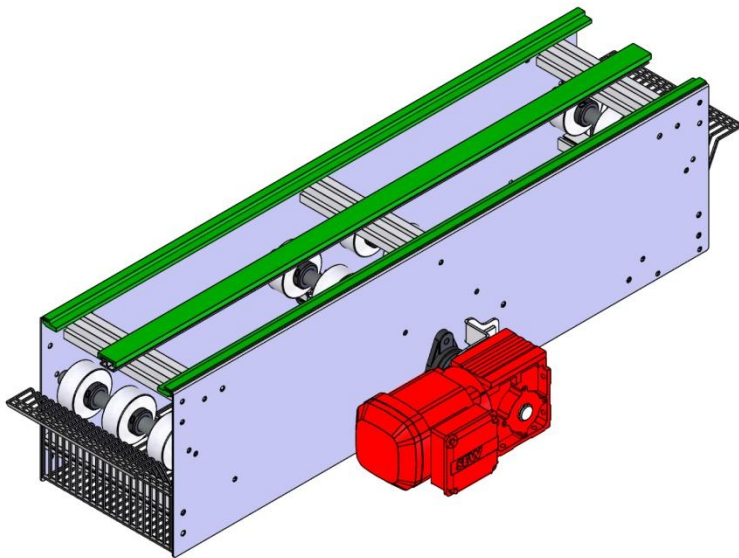


## Central motor drive

The central motor drive can be installed at any point along the conveyor. It is normally used when the conveyor has a closed ring configuration. The best working conditions are obtained by positioning the drive as closely as possible to the point in where the greatest load is situated.

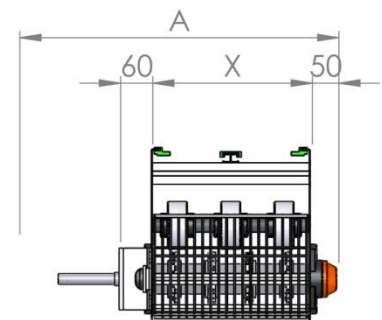
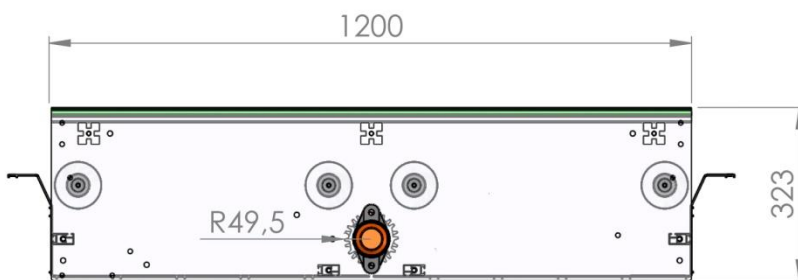
## Bidirectional suspended motor drive

The unit is mounted on the side of the motor, and is directly connected to the chain drive sprocket.

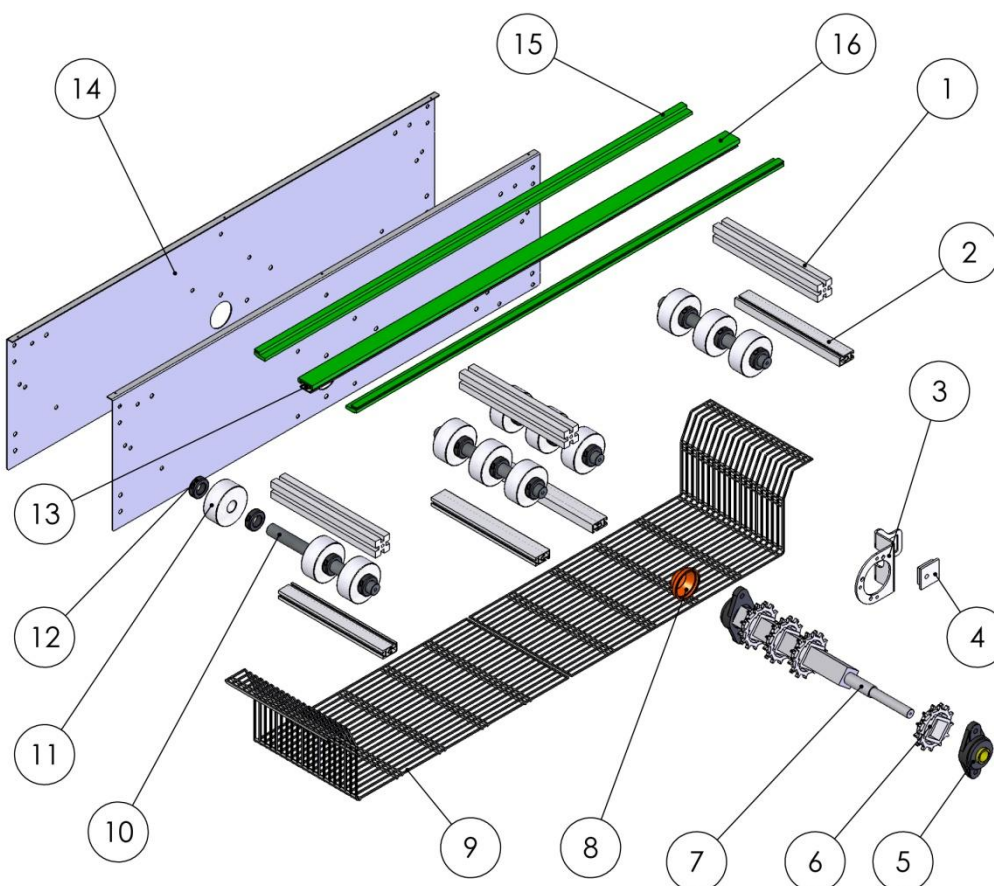


### Technical specifications:

Standard motor	: Triphase 220/380 V
Drive sprocket with straight chain	: Dp. 99 mm
Drive sprocket with curving chain	: Dp. 99 mm
Standard speed at 50 Hz (m/min)	: 4, 15.5, 24, 43.5, 62



A = Volume depending to the motor gear type  
X = End drive width equal to L+44 mm  
(where L is the effective width of the chain)



Article Number	Description	Article Code
1	INTERNAL SPACER	PS4040
2	INTERNAL SPACER	PS4020
3	REACTION LEVER	*
4	PIN FOR REACTION ARM	F5TM06
5	<b>POLYAMIDE SUPPORT FLANGE</b>	54205N-EC
6	<b>SPROCKETS</b>	**
7	DRIVE SHAFT	*
8	PROTECTION CAP	50108
9	TEC MESH	**
10	RETURN SHAFT	MFP R07
11	RETURN ROLLER SECTION POLYAMIDE	MFP R09
12	BUSH IN 2 HALVES	12703
13	ALUMINIUM PROFILE FOR CENTRAL SLIDEWAY	GL3017A
14	LEFT/RIGHT PLATE FOR END MOTOR DRIVE	PMCB 01D PMCB 01S
15	CHAIN SLIDEWAY	GS12A
16	CENTRAL CHAIN SLIDEWAY	GL40P

\* Depends on the motor type

\*\* Depends on the chain type

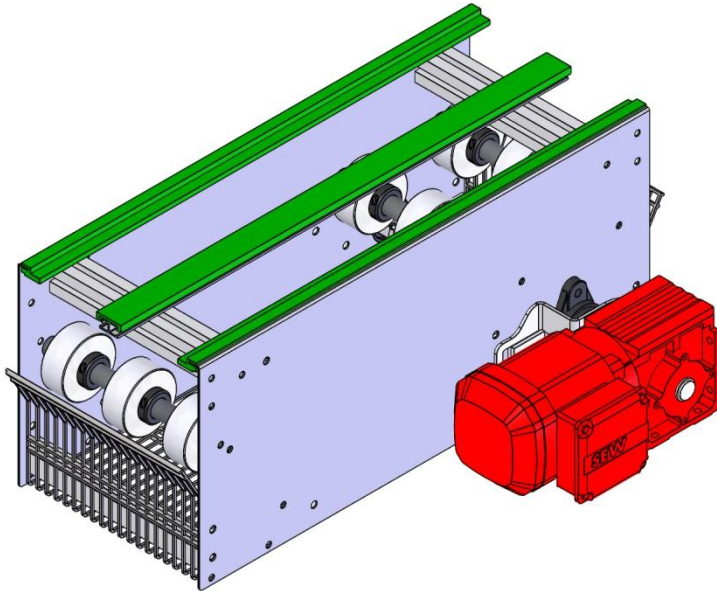
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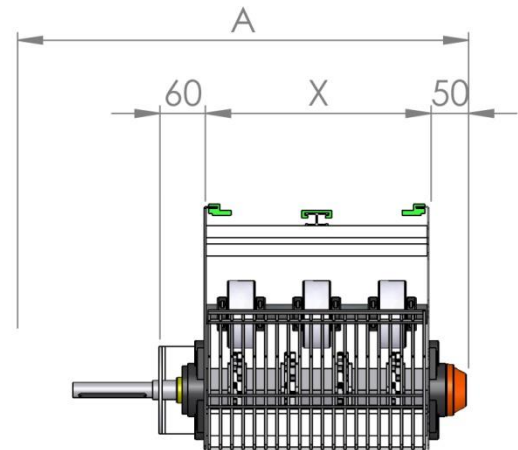
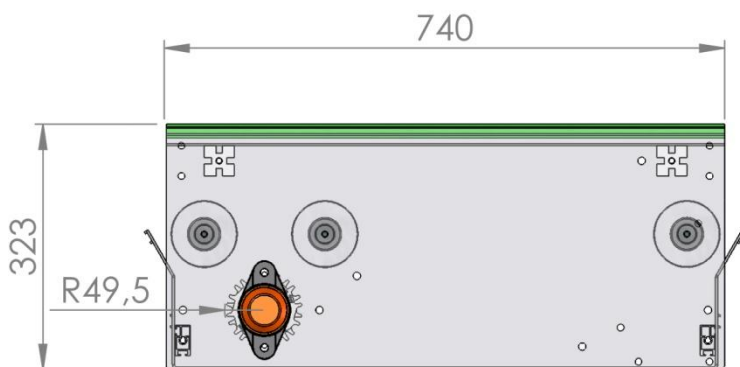
## Unidirectional suspended motor drive

The unit is mounted on the side of the motor, and is directly connected to the chain drive sprocket.



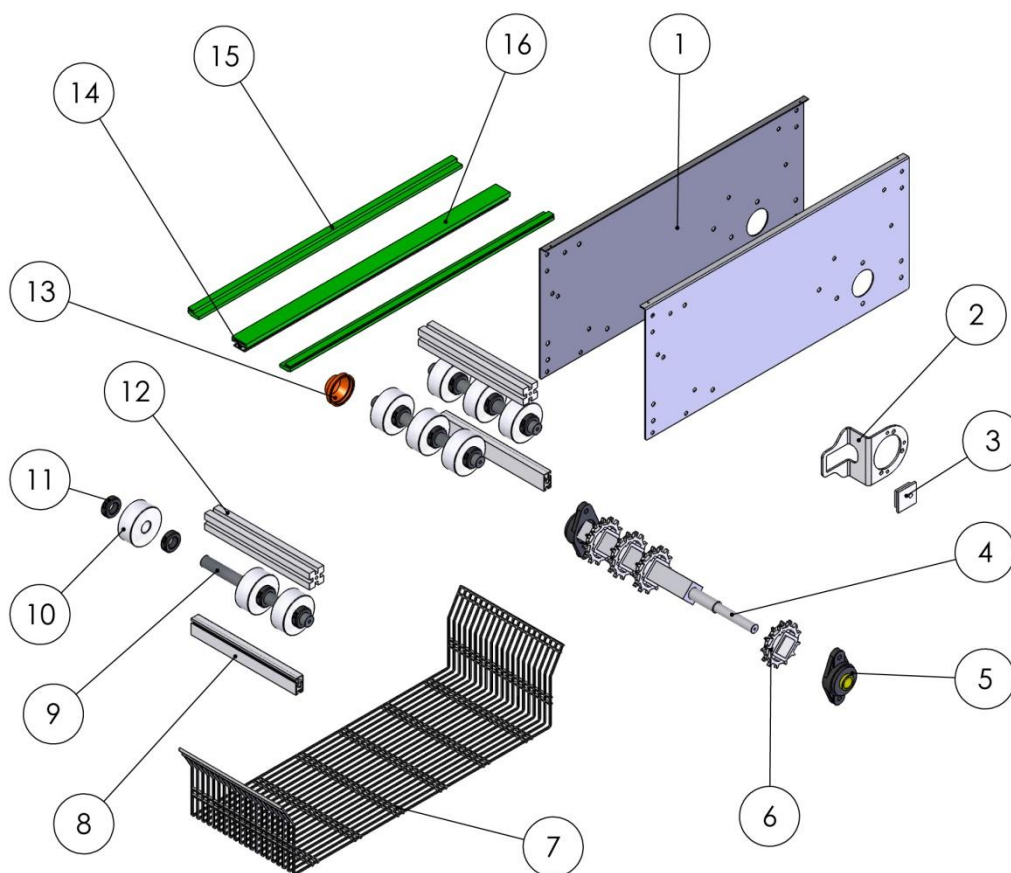
### Technical specifications:

Standard motor	: Triphase 220/380 V
Drive sprocket with straight chain	: Dp. 99 mm
Drive sprocket with curving chain	: Dp. 99 mm
Standard speed at 50 Hz (m/min)	: 4, 15.5, 24, 43.5, 62



A = Volume depending to the motor gear type  
X = End drive width equal to L+44 mm  
(where L is the effective width of the chain)





Article Number	Description	Article Code
1	LEFT/RIGHT END MOTOR DRIVE PLATE	PMCUD 02D PMCUD 02S
2	REACTION LEVER	*
3	PIN FOR REACTION ARM	F5TM06
4	DRIVE SHAFT	*
5	<b>POLYAMIDE SUPPORT FLANGE</b>	54205N-EC
6	<b>SPROCKETS</b>	**
7	TEC MESH	**
8	INTERNAL SPACER	PS4020
9	RETURN SHAFT	MFP R07
10	RETURN ROLLER SECTION POLYAMIDE	MFP R09
11	BUSH IN 2 HALVES	12703
12	INTERNAL SPACER	PS4040
13	PROTECTION CAP	50108
14	ALUMINIUM PROFILE FOR CENTRAL SLIDEWAY	GL3017A
15	CHAIN SLIDEWAY	GS12A
16	CENTRAL CHAIN SLIDEWAY	GL40P

\* Depends on the motor type

\*\* Depends on the chain type

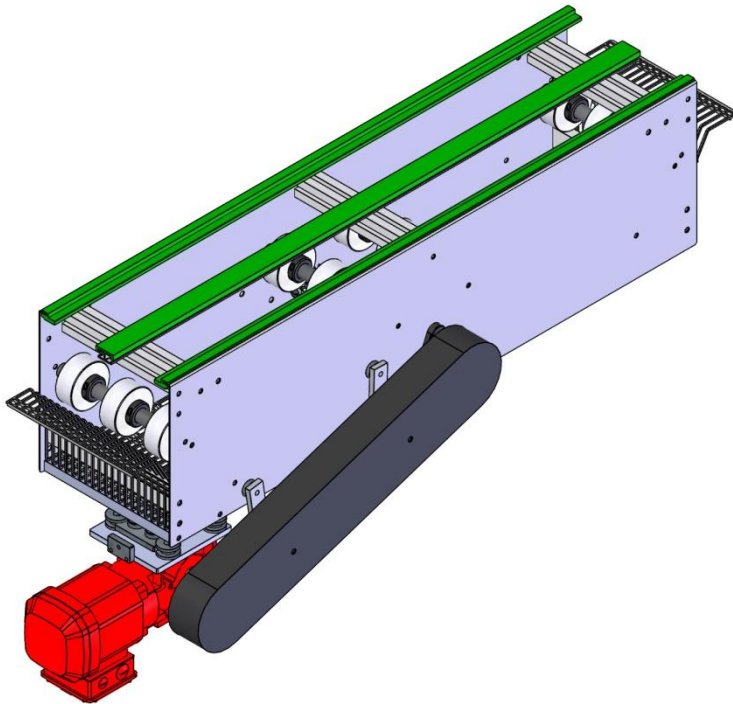
The parts indicated are not sold separately unless they are printed in bold or present in this catalogue in the designated section.



## Bidirectional transferred motor drive

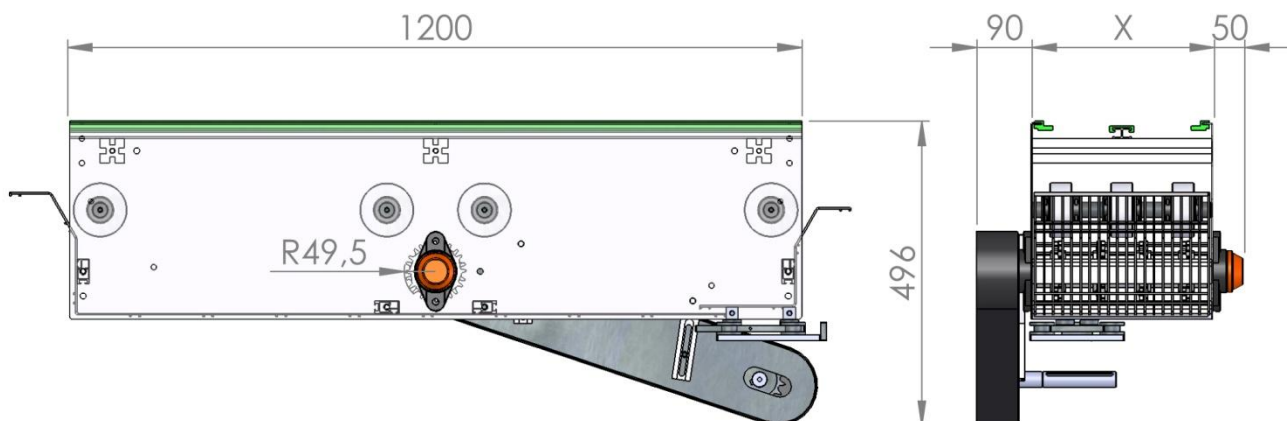
The transferred drive kit allows to move the position of the gear motor with respect to the axis of the drive sprocket. These are commonly used when it is necessary to reduce the space occupied by the end motor drive unit.

Transmission chain tension is regulated by using the available space in the slots on the support plate of the motor unit. The transmission has a suitable safety protection which must always be in its place when the conveyor is moving.

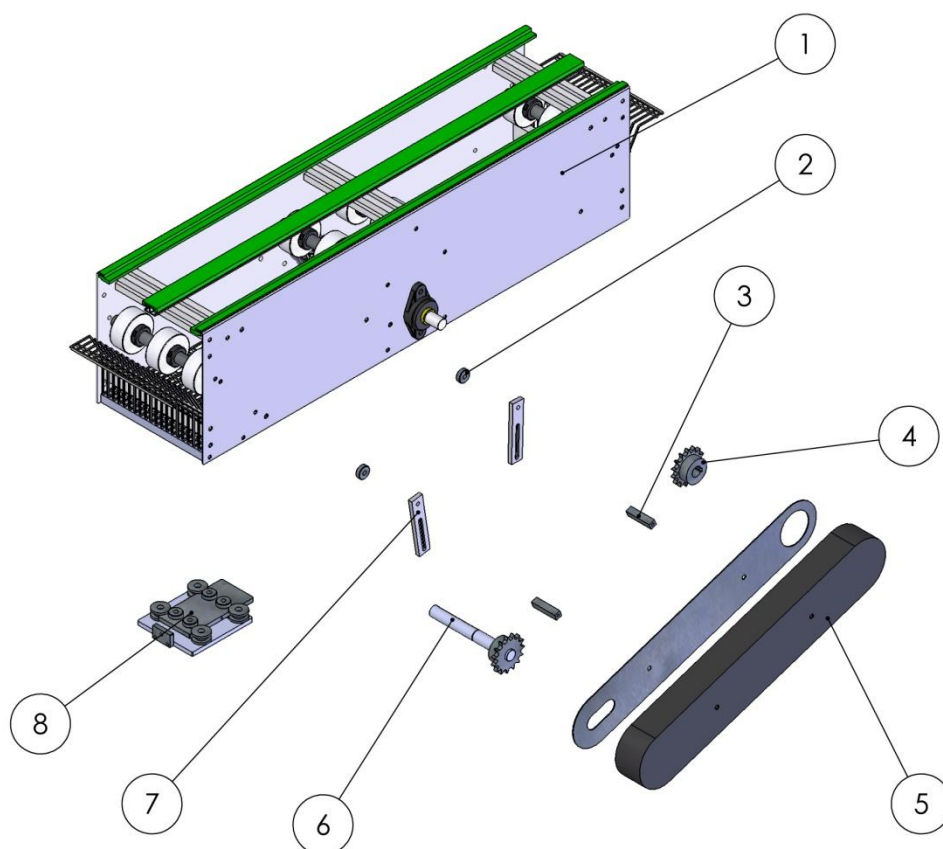


### Technical specifications:

Standard motor	: Triphase 220/380 V
Drive sprocket with straight chain	: Dp. 99 mm
Drive sprocket with curving chain	: Dp. 99 mm
Standard speed at 50 Hz (m/min)	: 4, 15.5, 24, 43.5, 62



A = Volume depending to the motor gear type  
X = End drive width equal to L+44 mm  
(where L is the effective width of the chain)



Article Number	Description	Article Code
1	CENTRAL MOTOR DRIVE	
2	SAFETY PROTECTION FIXING SPACER	MFPM10
3	SAFETY PROTECTION SPACER	MFPM013
4	SIMPLE SPROCKET	*
5	SAFETY PROTECTION	MFPM12
6	DRIVE SHAFT	*
7	SAFETY PROTECTION BRACKET	F5TM12
8	SLIDE FOR RETURN DRIVE UNIT	*

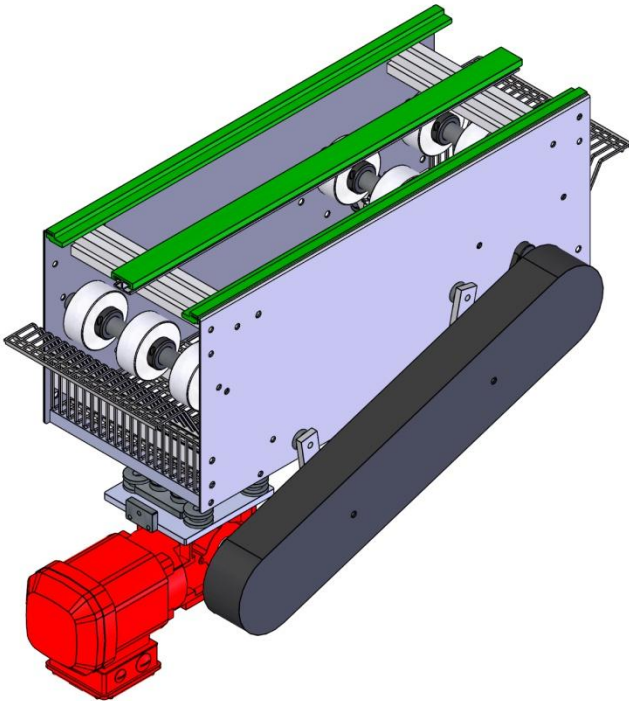
\* Depends on the motor type

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## Unidirectional transferred motor drive

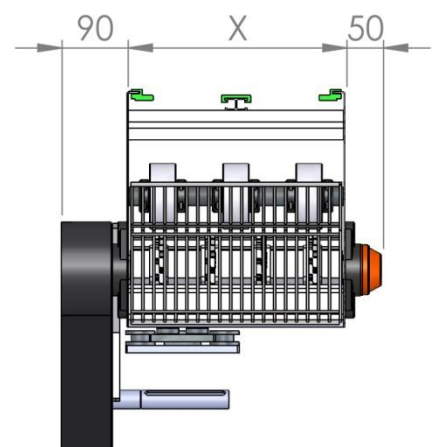
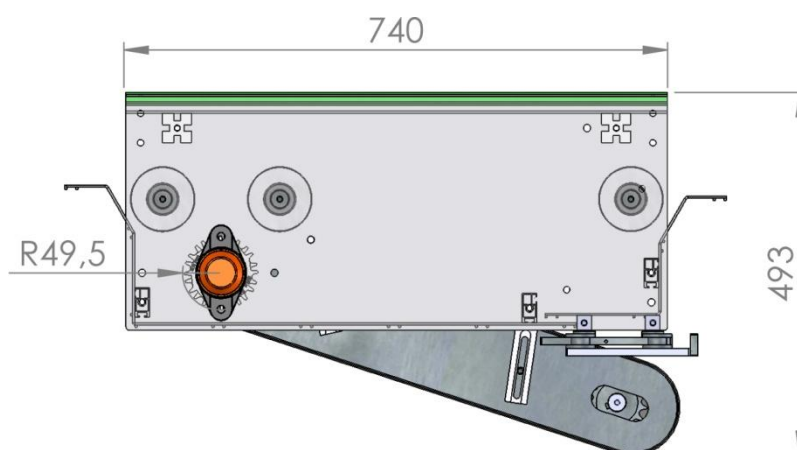
The transferred drive kit allows to move the position of the gear motor with respect to the axis of the drive sprocket. These are commonly used when it is necessary to reduce the space occupied by the end motor drive unit.

Transmission chain tension is regulated by using the available space in the slots on the support plate of the motor unit. The transmission has a suitable safety protection which must always be in its place when the conveyor is moving.

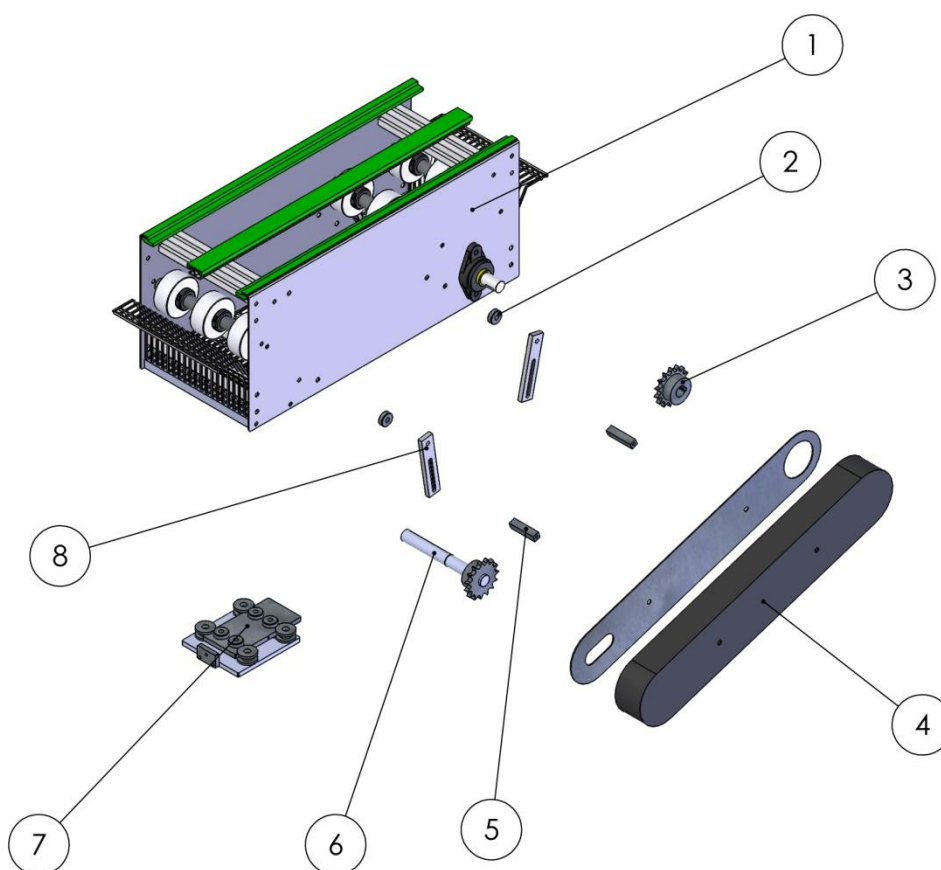


### Technical specifications:

Standard motor	: Triphase 220/380 V
Drive sprocket with straight chain	: Dp. 99 mm
Drive sprocket with curving chain	: Dp. 99 mm
Standard speed at 50 Hz (m/min)	: 4, 15.5, 24, 43.5, 62



A = Volume depending to the motor gear type  
X = End drive width equal to L+44 mm  
(where L is the effective width of the chain)

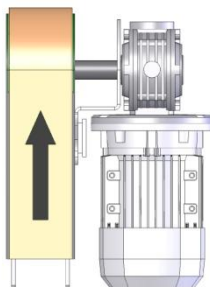
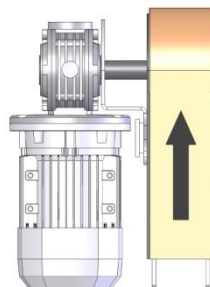


Article Number	Description	Article Code
1	CENTRAL MOTOR DRIVE	
2	SAFETY PROTECTION FIXING SPACER	MFPM10
3	SIMPLE SPROCKET	*
4	SAFETY PROTECTION	MFPM12
5	SAFETY PROTECTION SPACER	MFPM013
6	DRIVE SHAFT	*
7	SLIDE FOR RETURN DRIVE UNIT	*
8	SAFETY PROTECTION BRACKET	F5TM12

\* Depends on the motor type

The parts indicated are not sold separately unless they are present in this catalogue in the designated section.

## HOW TO WRITE THE ORDER CODES FOR MOTOR DRIVES

Description	Order Code	
Motor drive type	Suspended end with sprocket Ø 100 mm : MJTMP Suspended end with end roller Ø 45 mm : MJTM45P Transferred end with sprocket Ø 100 mm : MJTMR Transferred end with end roller Ø 45 mm : MJTM45R Bidirectional suspended central : MJTMCBP Unidirectional suspended central : MJTMCUP Bidirectional transferred central : MJMCBR Unidirectional transferred central : MJMCUR	
Motor side	Right: D 	Left: S 
Motor gear type	Bonfiglioli MVF49 Bonfiglioli W63 SEW WA20 SEW WA30	
Presence of motor gear	Yes: Y No: N	
Chain model	Intralox Straight Flush Grid : S1100 FG Intralox Straight Flat Top : S1100 FT Intralox Straight Friction Top : S1100 FRT Habasit Straight Flush Grid : M1233 FG Habasit Straight Flat Top : M1220 FT Rexnord Straight Solid Top : S1505 ST Intralox Curving Flush Grid : S2400 FG Intralox Curving Friction Top : S2400 FRT Habasit Curving Flush Grid : M2540 FG	





Chain width	K4 K6 K8 K10 K12 K16 K20 K24 K28 K32
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If purchasing the motor with your order, please specify the required speed at the time of ordering.

Example:

Right suspended end motor drive with end roller Ø 45 mm and gear motor WA30 included and chain model Intralox straight Flat Top 203 mm wide.

Cod: MJTM45P-D-WA30-Y-S1100 FT-K8

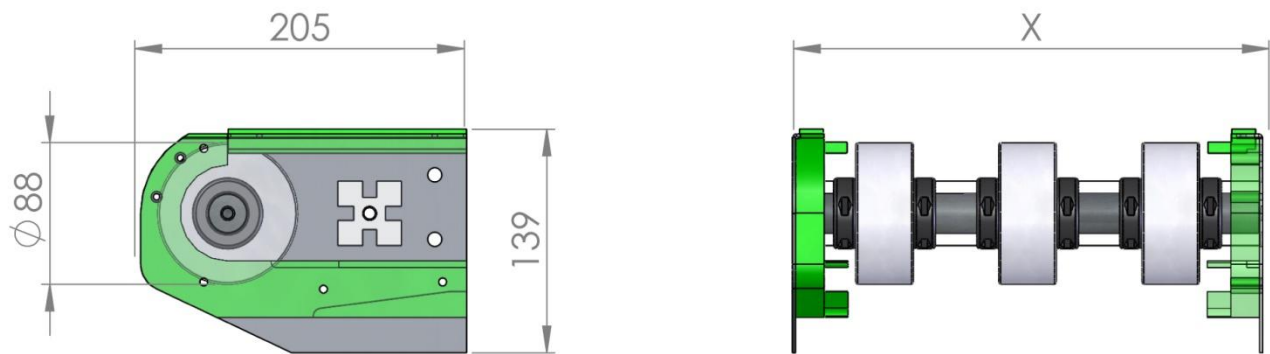
**NOTE:** For speeds above 20 m/min or in the presence of frequent starts or high loads, it is essential to put the motors under soft starter or inverter



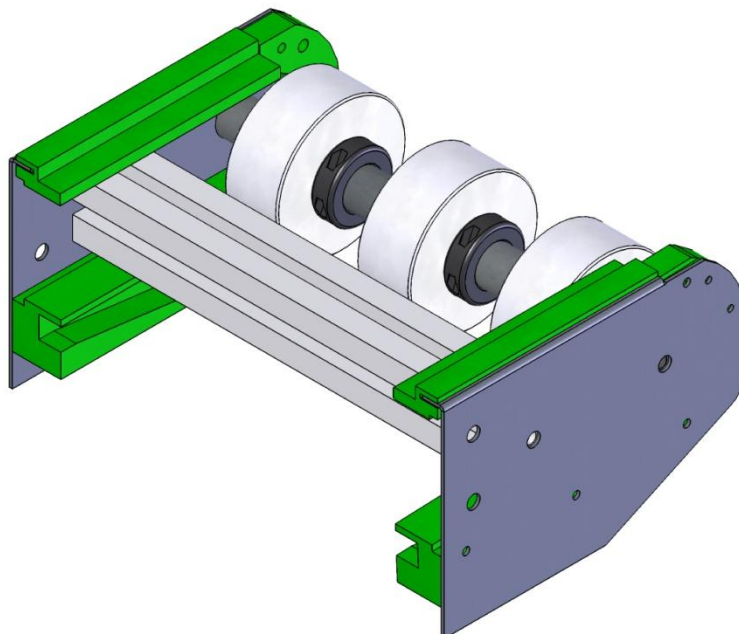
## Standard returns

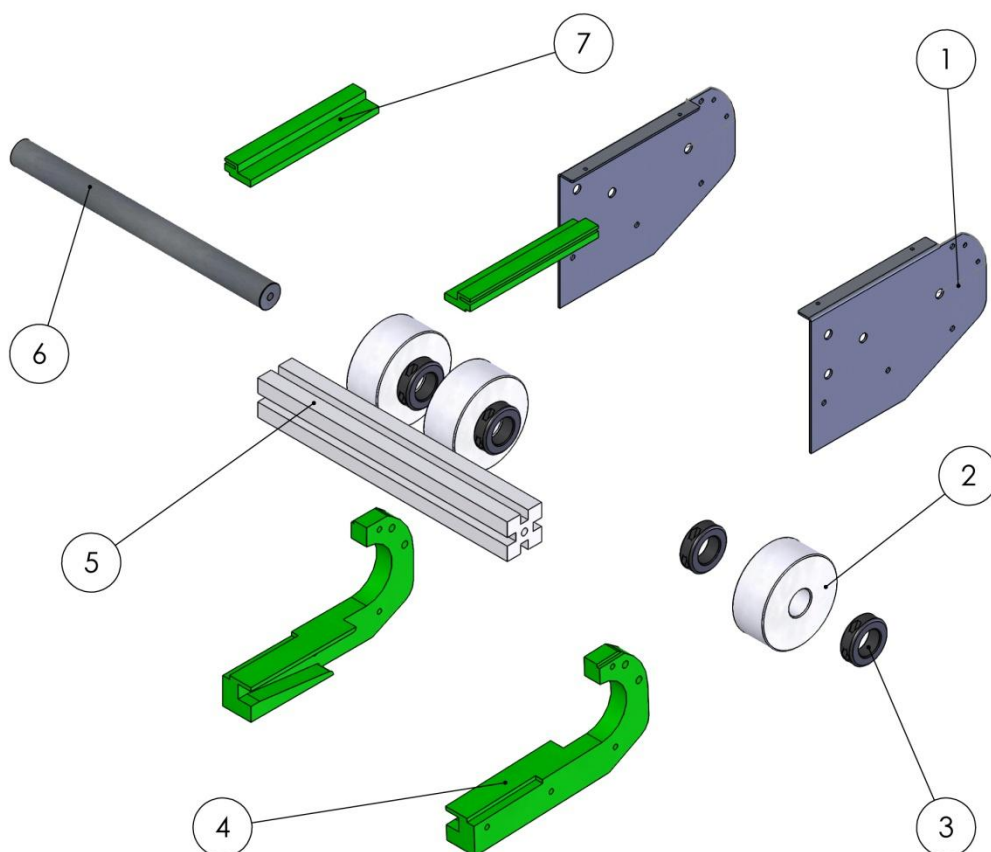
There are different standard return units to choose from depending on the construction requirements of the conveyor, for speeds of up to 70m/min.

### 180° Final return with roller Ø 88 mm



X = End drive width equal to  $L+44$  mm  
(where L is the effective width of the chain)





Article Number	Description	Article Code
1	LEFT/RIGHT PLATE RETURN END 88 mm	MFPRL 11D MFPRL 11S
2	RETURN ROLLER SECTION IN POLYAMIDE	MFP R09
3	BUSH IN 2 HALVES	12703
4	RIGHT/LEFT UNDERCHAIN SLIDE	MFPRL12D MFPRL12S
5	INTERNAL SPACER	PS4040
6	RETURN ROLLER CHAIN REENTRY	MFPM 07
7	CHAIN SLIDEWAY	G512A

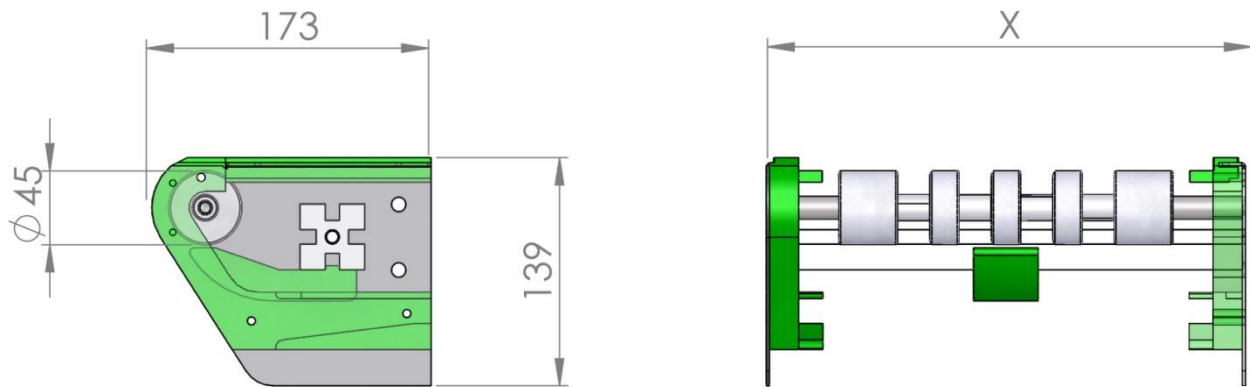
The parts indicated are not sold separately unless they are present in this catalogue in the designated section.

**Order Code: MJ TRL**

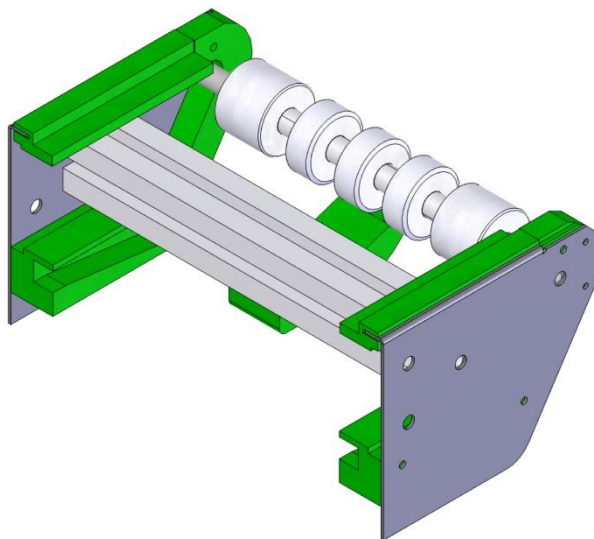
When ordering the chain, please specify the effective width of the chain.

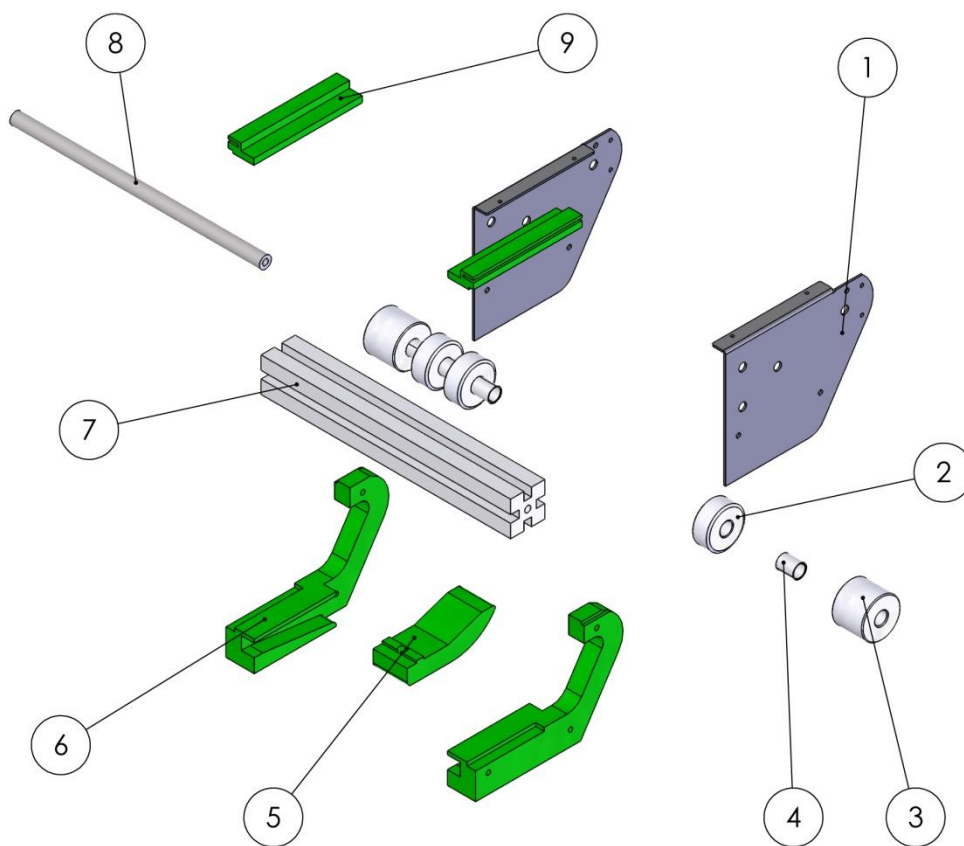


**180° Final return with roller Ø 45 mm**



X = End drive width equal to  $L+44$  mm  
(where L is the effective width of the chain)





Article Number	Description	Article Code
1	LEFT/RIGHT PLATE FOR RETURN END 45 mm	PRP45 11D PRP45 11S
2	RETURN ROLLER LG18	PRP 45 08
3	RETURN ROLLER LG36	PRP 45 07
4	IGUS BUSHES	MSM 1416 20
5	LOWER CONNECTION SLIDE	PRP45 04
6	LEFT/RIGHT UNDERCHAIN SLIDE	PRP45 12D PRP45 12S
7	INTERNAL SPACER	PS4040
8	RETURN SHAFT	MFPR 45 05
9	CHAIN SLIDEWAY	GS12A

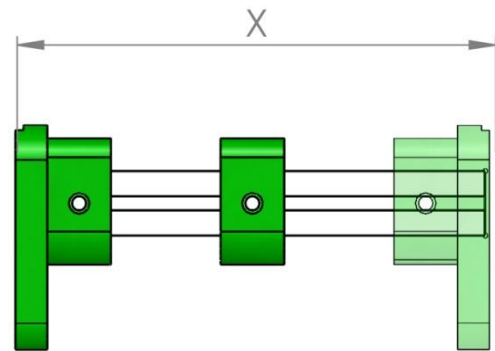
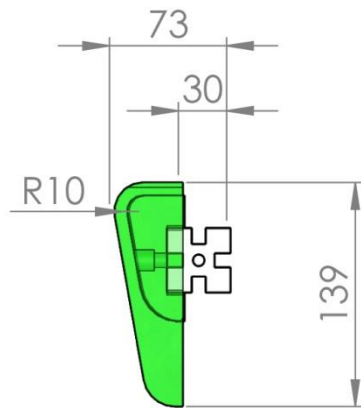
The parts indicated are not sold separately unless they are present in this catalogue in the designated section.

**Order Code: MJ TRC**

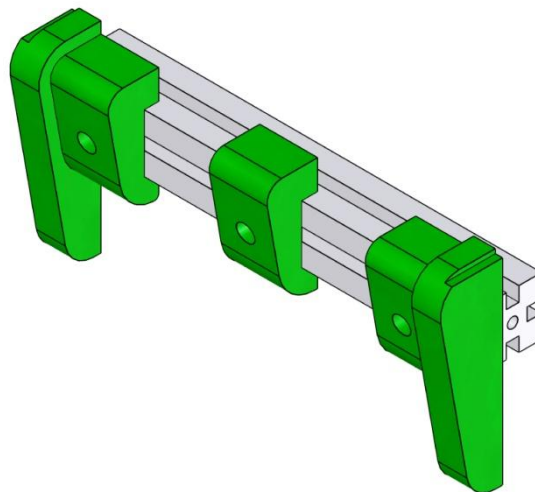
When ordering the chain, please specify the effective width of the chain.



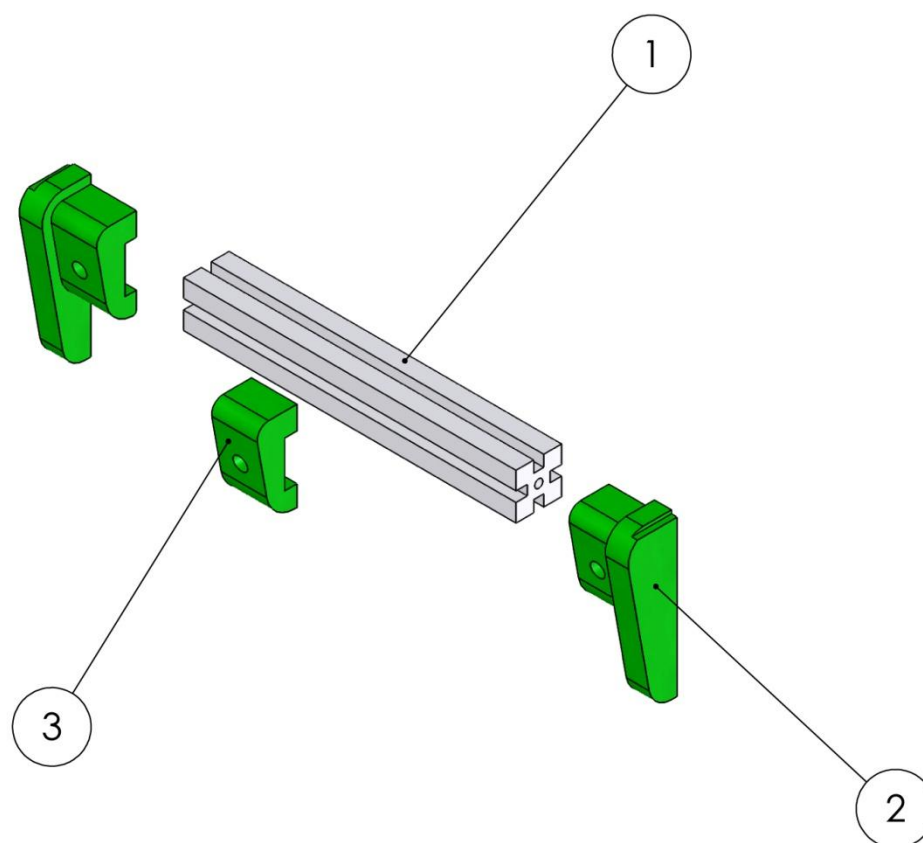
**180° Final return with fixed pin Ø 10 mm**



X = End drive width equal to  $L+44$  mm  
(where L is the effective width of the chain)







Article Number	Description	Article Code
1	INTERNAL SPACER	PS4040
2	LEFT/RIGHT UNDERCHAIN SLIDE	MF05RMP 06 DX MF05RMP 06 SX
3	CENTRAL SLIDE	MF05RMP 07

The parts indicated are not sold separately unless they are present in this catalogue in the designated section.

**Order Code: MJ 05 RMP**

When ordering the chain, please specify the effective width of the chain.



## HOW TO WRITE THE ORDER CODES FOR RETURNS

Description	Order Code
Return type	180° Final return with roller Ø 88 mm : MJTRL 180° Final return with roller Ø 45 mm : MJTRC 180° Final return with fixed pen Ø 10 mm : MJ05RMP
Chain model	Intralox Straight Flush Grid : S1100 FG Intralox Straight Flat Top : S1100 FT Intralox Straight Friction Top : S1100 FRT Habasit Straight Flush Grid : M1233 FG Habasit Straight Flat Top : M1220 FT Rexnord Straight Solid Top : S1505 ST Intralox Curving Flush Grid : S2400 FG Intralox Curving Friction Top : S2400 FRT Habasit Curving Flush Grid : M2540 FG
Chain width	K4 K6 K8 K10 K12 K16 K20 K24 K28 K32

Example:

180° Final return with roller Ø 45 mm for chain model Intralox straight Flat Top 203 mm wide.

Cod: MJTRC-S1100 FT-K8

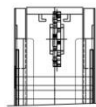


## End unit models

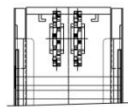
Different widths of chains involve different number and disposition of sprockets, return rollers and slides: below are models of the compositions of modular end units for standard width chains.

### End motor drives models

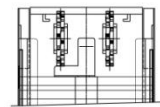
K400



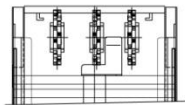
K600



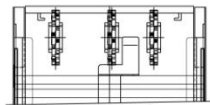
K800



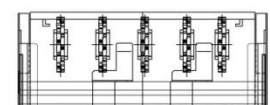
K1000



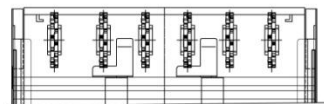
K1200



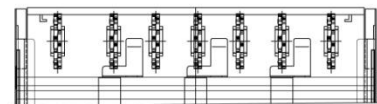
K1600



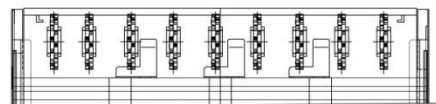
K2000



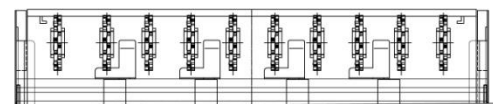
K2400



K2800



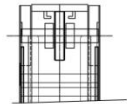
K3200



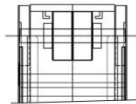


## Return end with roller Ø 88 models

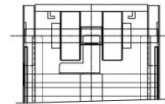
K400



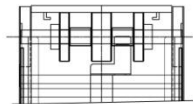
K600



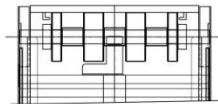
K800



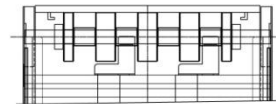
K1000



K1200



K1600



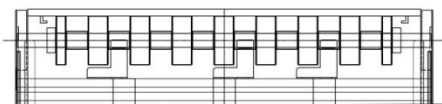
K2000



K2400



K2800



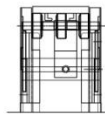
K3200



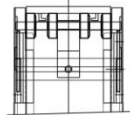


## Return end with roller Ø 45 models

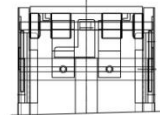
K400



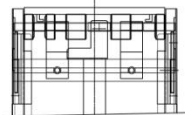
K600



K800



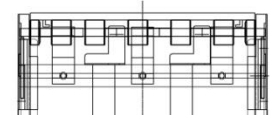
K1000



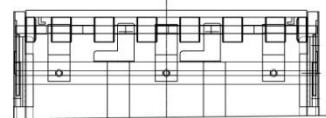
K1200



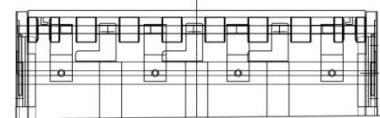
K1600



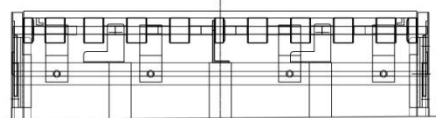
K2000



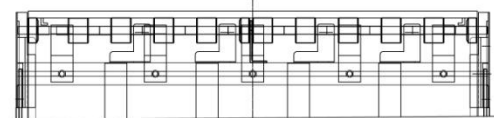
K2400



K2800



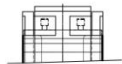
K3200



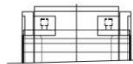


**Return end with fixed pen Ø 10 models**

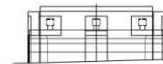
K400



K600



K800



K1000



K1200



K1600



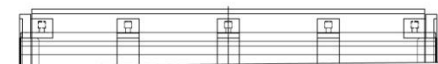
K2000



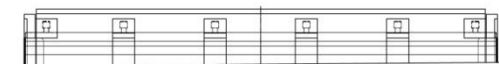
K2400



K2800

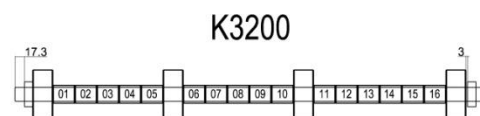
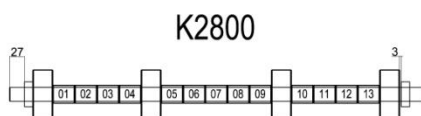
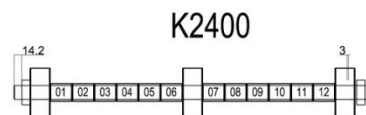
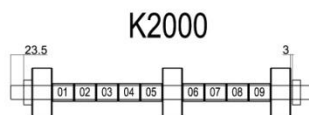
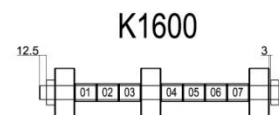
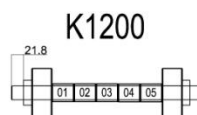
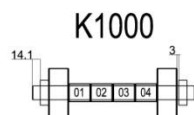
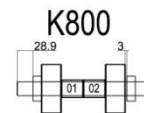
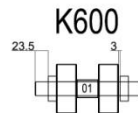
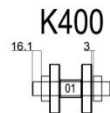


K3200





## Returns inside the drive units models



## Curves

### Flat sliding curves

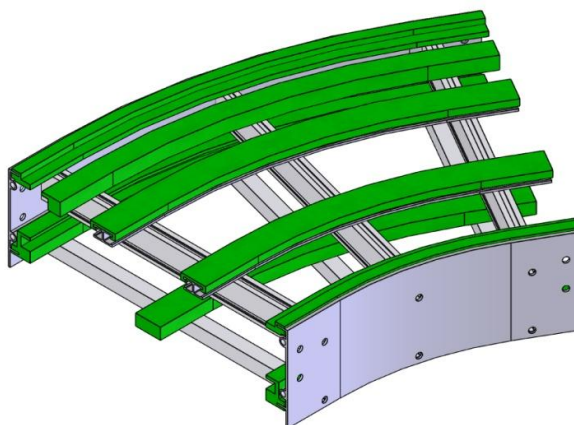
The dimensions of flat sliding curves change depending on the chain width.

The minimum internal radius for a standard curved chain must be 2.2 times the chain width.

The standard versions are: 30°-45°-60°-90°-180°.

On request, special chains can be used to make curves with smaller than standard minimum radius.

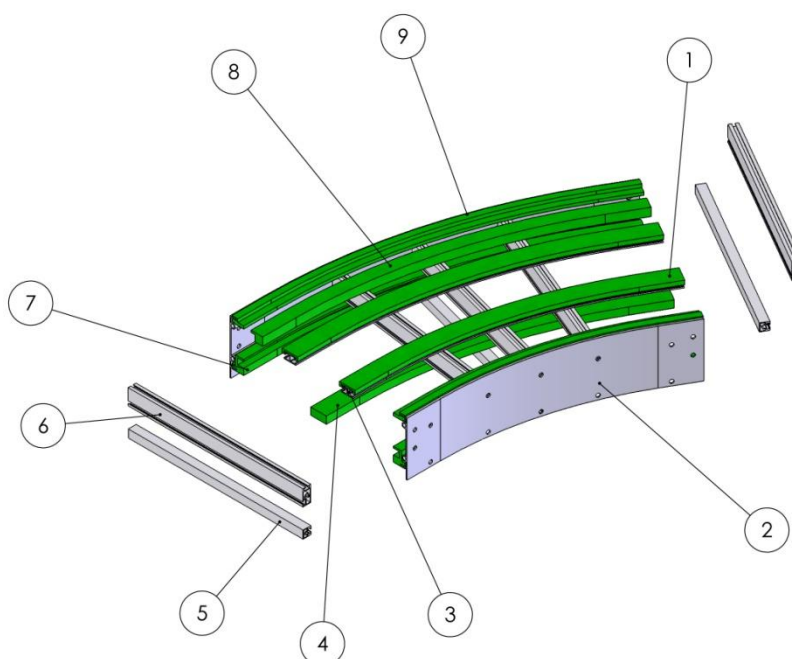
Sliding curves raise the chain's working tension. It is then necessary to consider this when designing the conveyor.



Article Number	Description	Article Code
1	UPPER CENTRAL CHAIN SLIDEWAY	GL40P
2	MODUL-FLEX CHAIN GUIDE PROFILE	*
3	UPPER CENTRAL CHAIN SLIDEWAY PROFILE	GL3017A
4	LOWER CENTRAL CHAIN SLIDEWAY	GS13C
5	INTERNAL SPACER	PS2020
6	INTERNAL SPACER	PS4020
7	LOWER CHAIN SLIDEWAY	GS11R
8	HOLD DOWN CHAIN SLIDEWAY	GS15HD
9	UPPER CHAIN SLIDEWAY	GS12A

\* Depends on the chain width and curve degrees

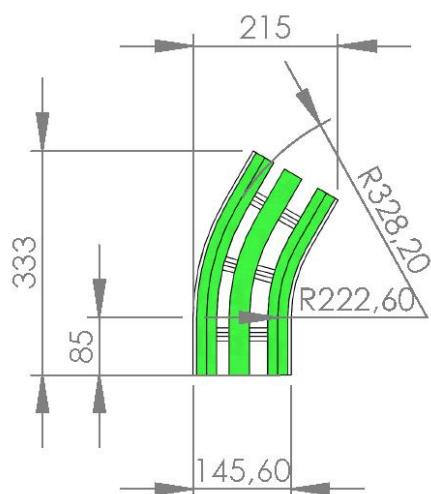
The parts indicated are not sold separately unless they are present in this catalogue in the designated section.



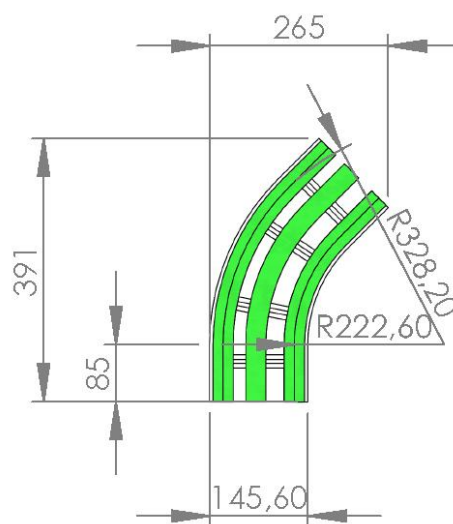


## Flat sliding curves for K4 chain

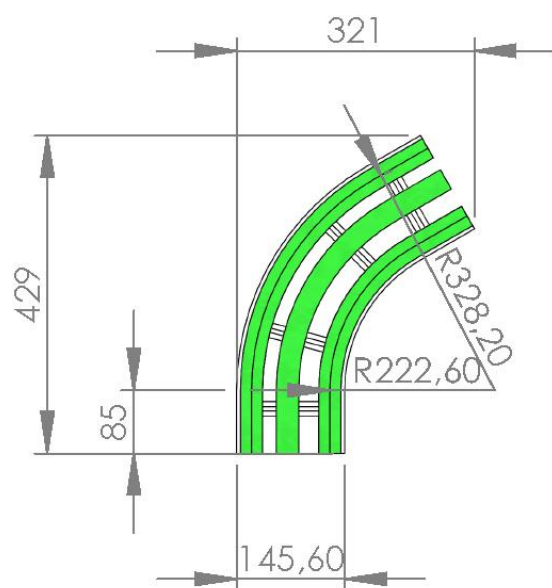
## 30° CURVE

**Cod: MJ-CS30-K4**  
**SS: MJX-CS30-K4**

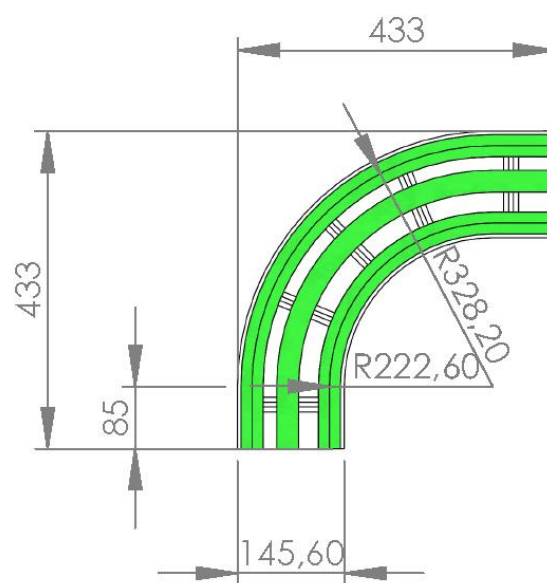
## 45° CURVE

**Cod: MJ-CS45-K4**  
**SS: MJX-CS45-K4**

## 60° CURVE

**Cod: MJ-CS60-K4**  
**SS: MJX-CS60-K4**

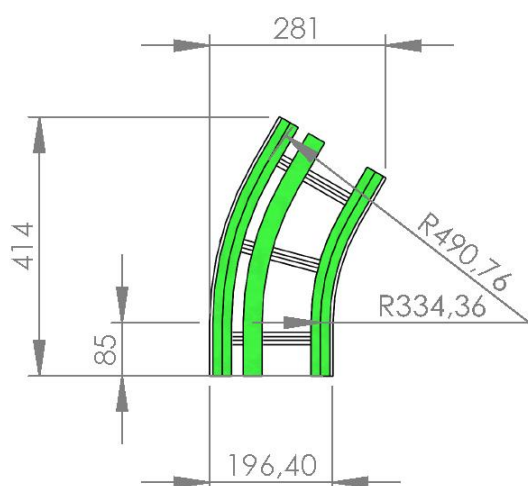
## 90° CURVE

**Cod: MJ-CS90-K4**  
**SS: MJX-CS90-K4**

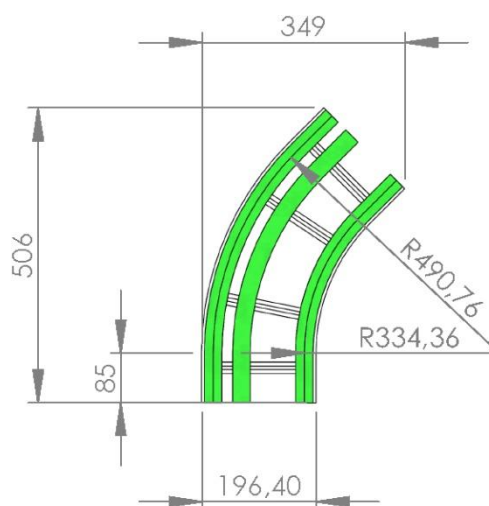


## Flat slide curves for K6 chain

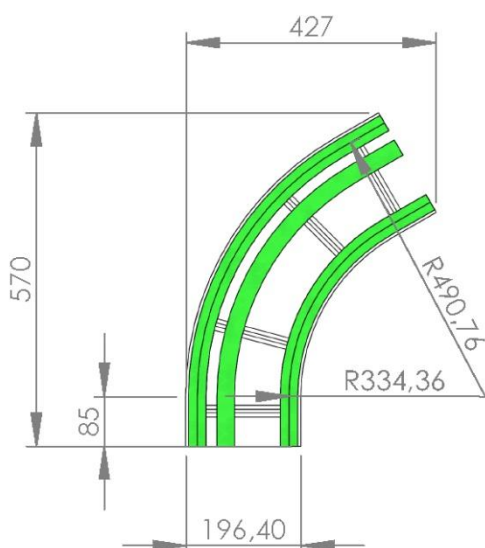
## 30° CURVE

**Cod: MJ-CS30-K6**  
**SS: MJX-CS30-K6**

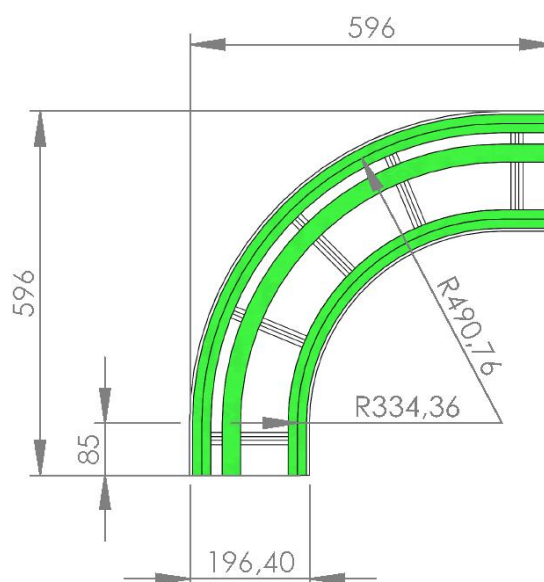
## 45° CURVE

**Cod: MJ-CS45-K6**  
**SS: MJX-CS45-K6**

## 60° CURVE

**Cod: MJ-CS60-K6**  
**SS: MJX-CS60-K6**

## 90° CURVE

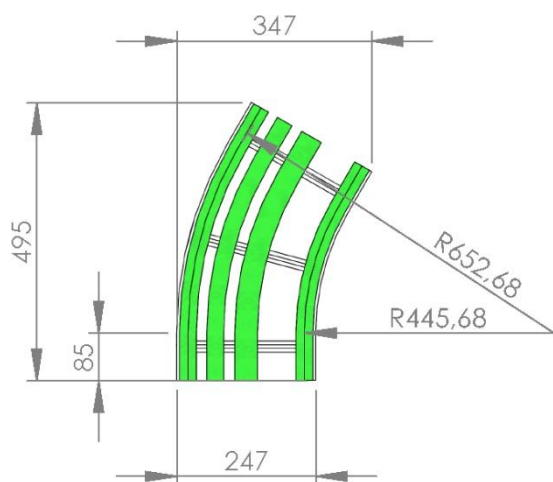
**Cod: MJ-CS90-K6**  
**SS: MJX-CS90-K6**



Flat slide curves for K8 chain

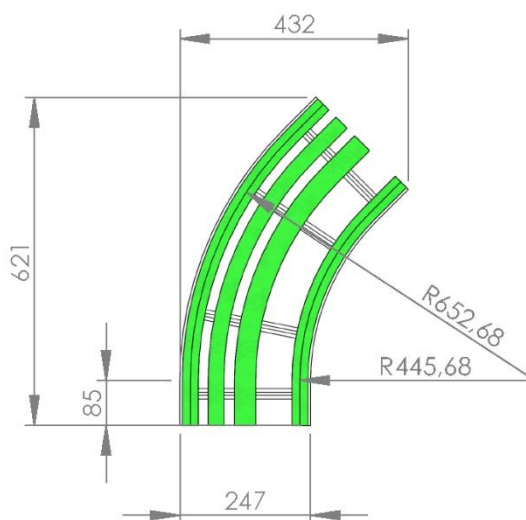
30° CURVE

Cod: MJ-CS30-K8  
SS: MJX-CS30-K8



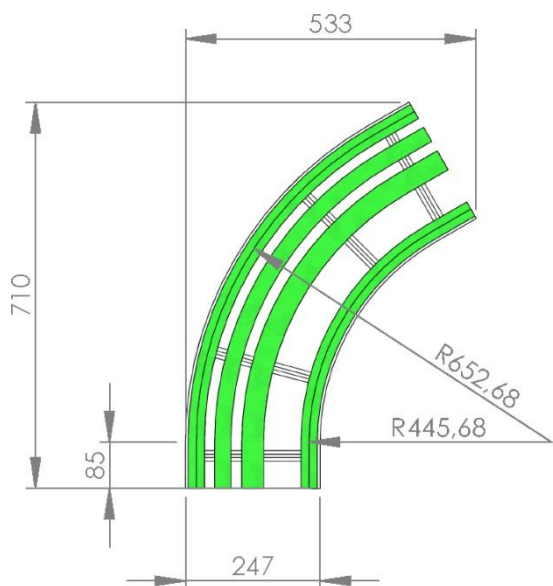
45° CURVE

Cod: MJ-CS45-K8  
SS: MJX-CS45-K8



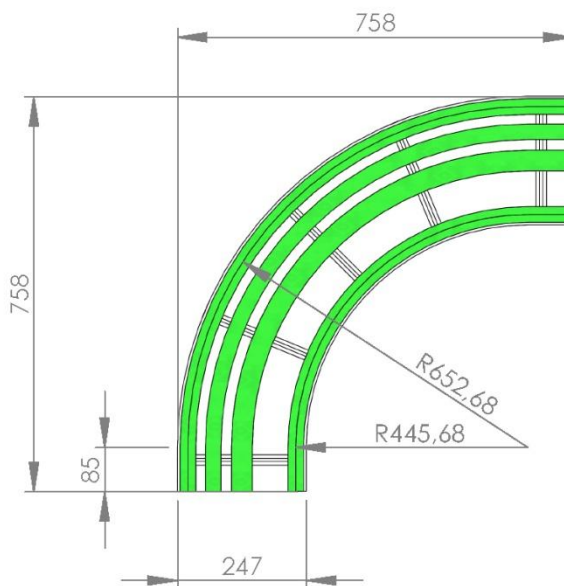
60° CURVE

Cod: MJ-CS60-K8  
SS: MJX-CS60-K8



90° CURVE

Cod: MJ-CS90-K8  
SS: MJX-CS90-K8

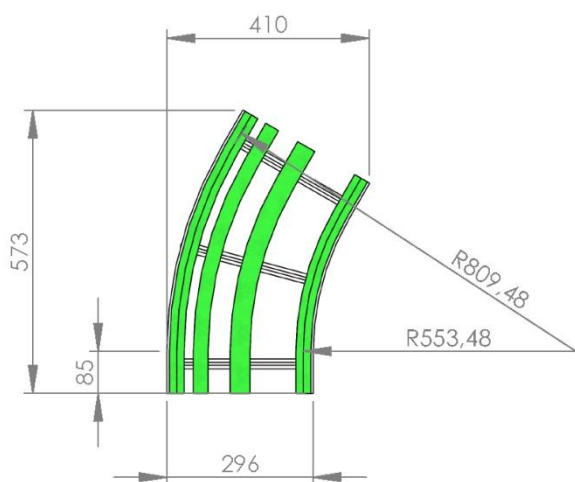




Flat slide curves for K10 chain

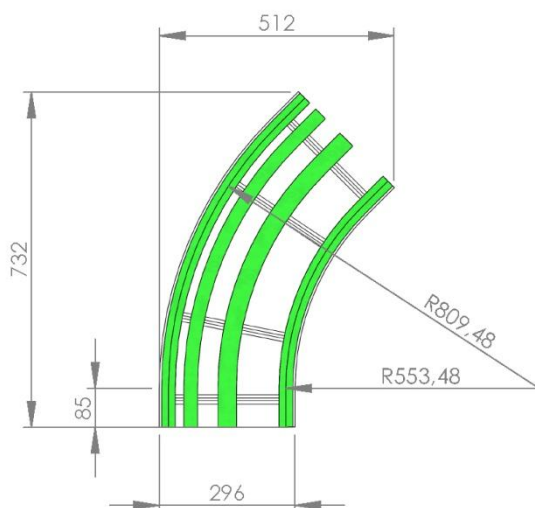
30° CURVE

Cod: MJ-CS30-K10  
SS: MJX-CS30-K10



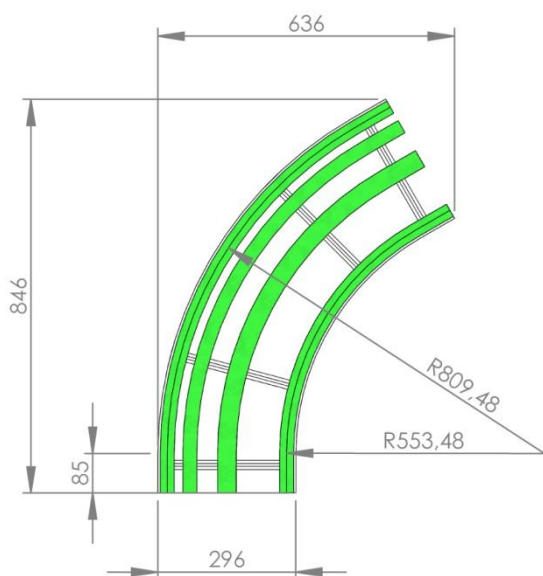
45° CURVE

Cod: MJ-CS45-K10  
SS: MJX-CS45-K10



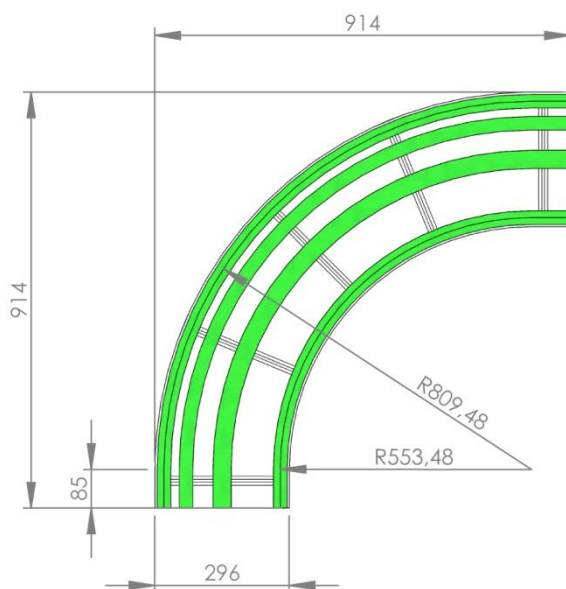
60° CURVE

Cod: MJ-CS60-K10  
SS: MJX-CS60-K10



90° CURVE

Cod: MJ-CS90-K10  
SS: MJX-CS90-K10

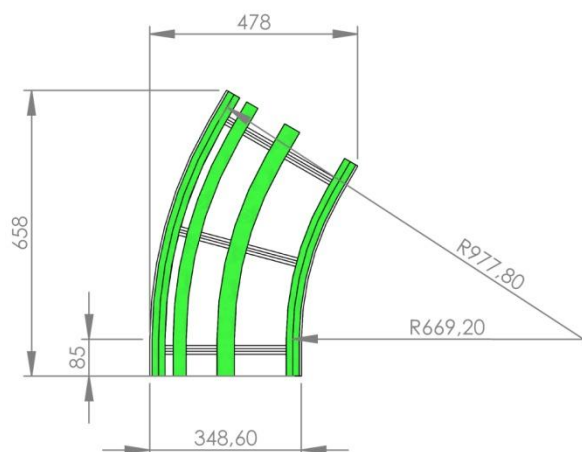




# Flat slide curves for K12 chain

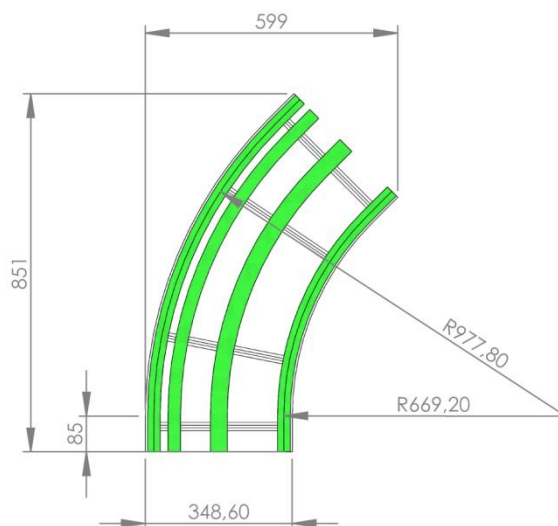
## 30° CURVE

**Cod: MJ-CS30-K12**  
**SS: MJX-CS30-K12**



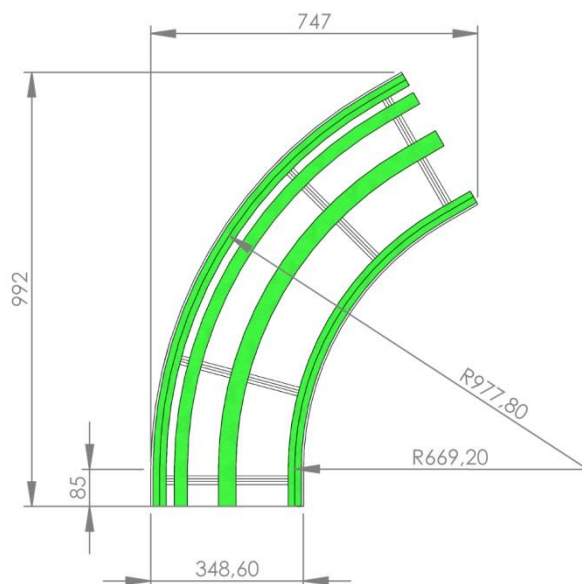
## 45° CURVE

**Cod: MJ-CS45-K12**  
**SS: MJX-CS45-K12**



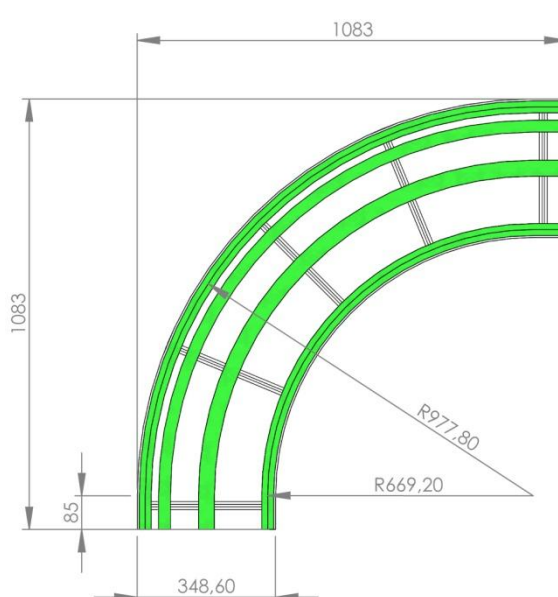
## 60° CURVE

**Cod: MJ-CS60-K12**  
**SS: MJX-CS60-K12**



## 90° CURVE

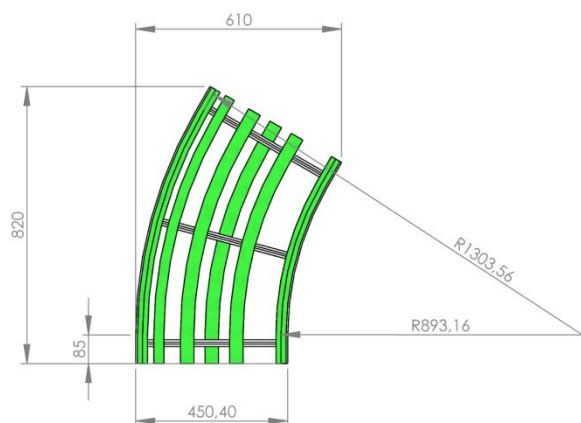
**Cod: MJ-CS90-K12**  
**SS: MJX-CS90-K12**



# Flat slide curves for K16 chain

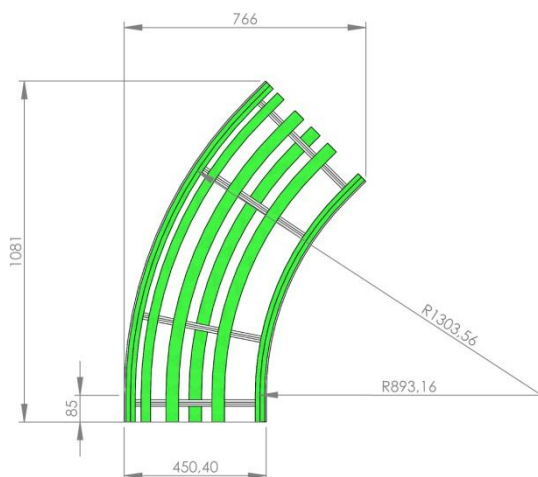
## 30° CURVE

**Cod: MJ-CS30-K16**  
**SS: MJX-CS30-K16**



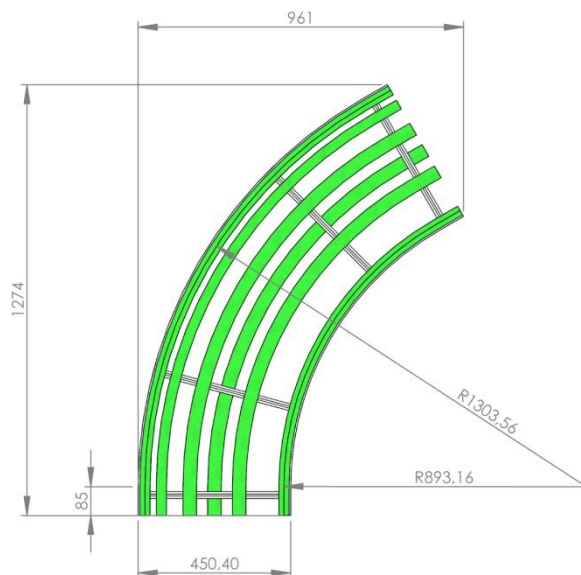
## 45° CURVE

**Cod: MJ-CS45-K16**  
**SS: MJX-CS45-K16**



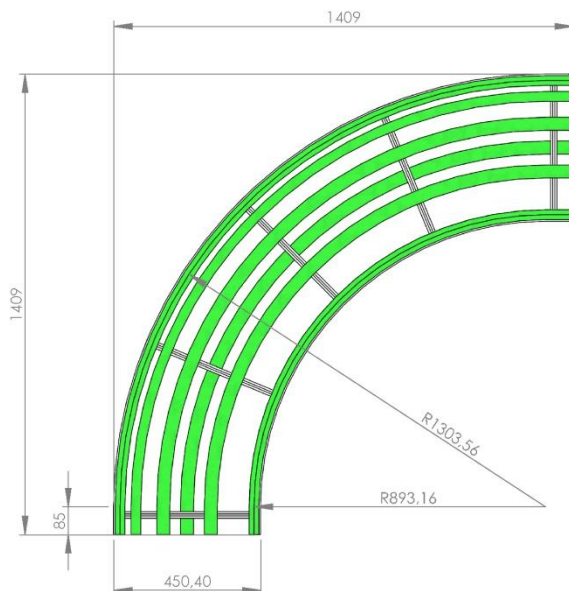
## 60° CURVE

**Cod: MJ-CS60-K16**  
**SS: MJX-CS60-K16**



## 90° CURVE

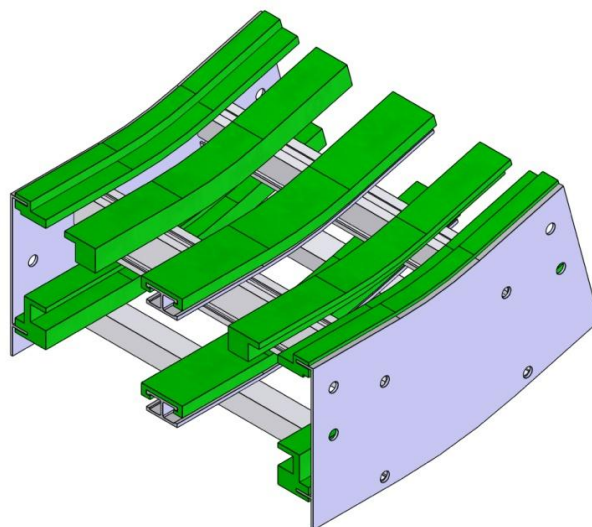
**Cod: MJ-CS90-K16**  
**SS: MJX-CS90-K16**



## Vertical sliding curves

This type of curve is used to form climbing or descending paths with slants that normally are greater than 11°.

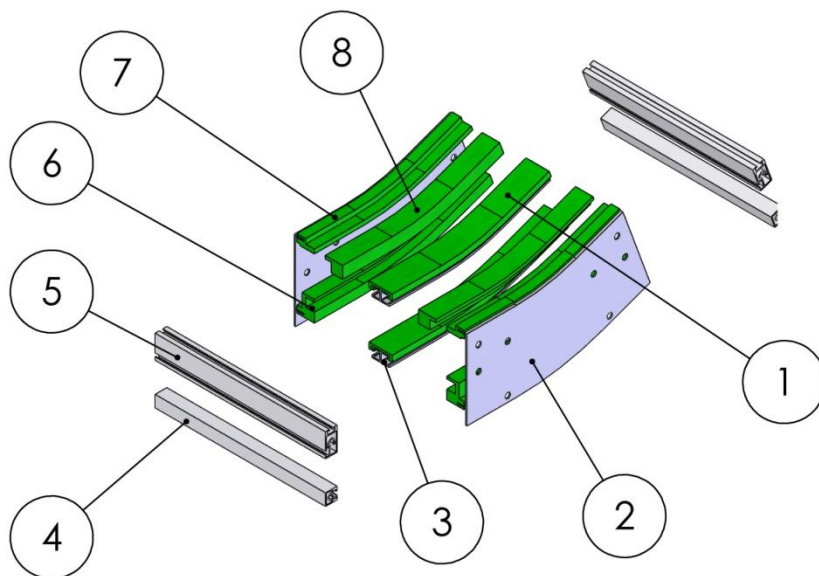
Vertical curves are made in satin finish stainless steel and are available in two different configurations: upward or downward. These are not interchangeable: always remember to specify the direction of motion of the chain when placing the order.



Article Number	Description	Article Code
1	CENTRAL CHAIN SLIDEWAY	GL40P
2	SIDE	*
3	ALUMINIUM PROFILE FOR CENTRAL SLIDEWAY	GL3017A
4	INTERNAL SPACER	PS2020
5	INTERNAL SPACER	PS2040
6	LOWER CHAIN SLIDEWAY	GS11R
7	UPPER CHAIN SLIDEWAY	GS13A
8	HOLD DOWN CHAIN SLIDEWAY	GS15HD

\*Depends on the chain type and slope in degrees

The parts indicated are not sold separately unless they are present in this catalogue in the designated section.

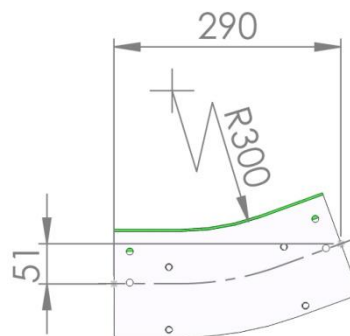




## Vertical sliding curves

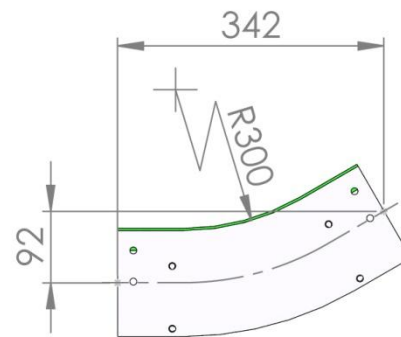
### 20° CURVE

**Cod:** MJ-CSV20-K4  
MJ-CSV20-K6  
MJ-CSV20-K8  
MJ-CSV20-K10  
MJ-CSV20-K12  
MJ-CSV20-K16



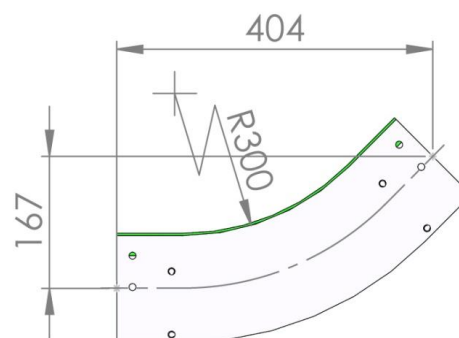
### 30° CURVE

**Cod:** MJ-CSV30-K4  
MJ-CSV30-K6  
MJ-CSV30-K8  
MJ-CSV30-K10  
MJ-CSV30-K12  
MJ-CSV30-K16



### 45° CURVE

**Cod:** MJ-CSV45-K4  
MJ-CSV45-K6  
MJ-CSV45-K8  
MJ-CSV45-K10  
MJ-CSV45-K12  
MJ-CSV45-K16





## SUMMARIZING TABLE OF ORDER CODES FOR CURVES

Description	Order Code
Curve type	Flat sliding curve : MJCS Vertical sliding curve : MJCSV
Material	Standard Aluminum: Stainless Steel: X
Degrees	20 (standard only for vertical curves) 30 45 60 90  (In case of realization of curves with out of standard degrees, please insert required degrees)
Chain model	Intralox Curving Flush Grid : S2400 FG Intralox Curving Friction Top : S2400 FRT Habasit Curving Flush Grid : M2540 FG
Chain width	K4 K6 K8 K10 K12 K16
Average Radius (Only in case of out of standard curves)	Specify average radius dimension in mm

Example of standard curve order code:

30° Flat sliding curve for chain model Intralox curving Flush Grid 306 mm wide  
Cod: MJCS-30-S2400FG-K12

Example of out of standard curve order code:

15° Vertical sliding curve with a average radius of 400 mm for chain model Habasit Curving Flush Grid 254 mm wide  
Cod: MJCSV-15-M2540 FG-K10-R400



## Lateral guides

Modul-Flex is an open system that allows to use several types of supports and lateral guides found on the market.

The guides shown below can be either fixed or adjustable, depending on client needs.

The corresponding data are correlated to a basic guide format: on request, accessories to increase flexibility are available.

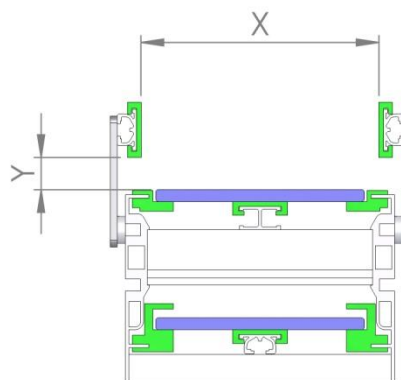
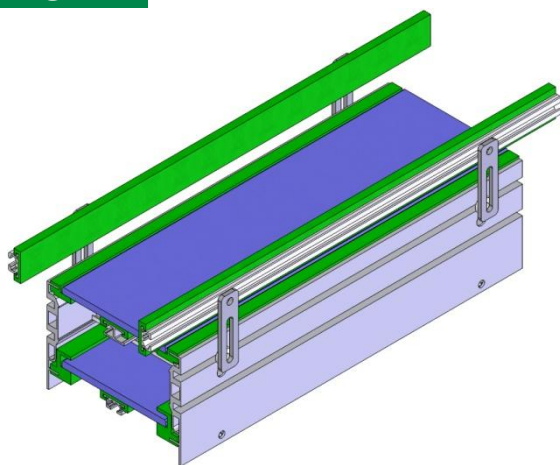
For more technical information and evaluations, please contact our Technical Office.

Making guides in curves are no problem when using fixed guides.

For adjustable guides for curves, please contact our Technical Office.

### Fixed guides

#### MF GPF1



#### Composition (per channel meter):

GL40P	: 2 m
GL30A	: 2 m
DS2010A6/16/26	: 4 pieces
PSG95	: 4 pieces

#### Clearance:

X	: L+21 mm minimum*
Y	: 3 ÷ 18 mm*

(where L is the effective width of the chain)

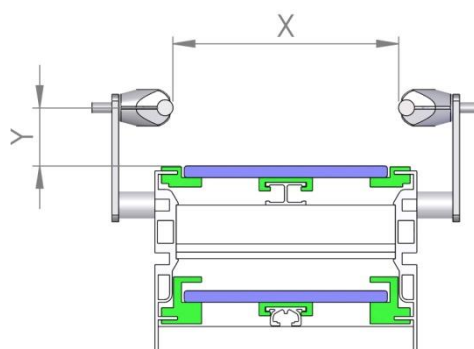
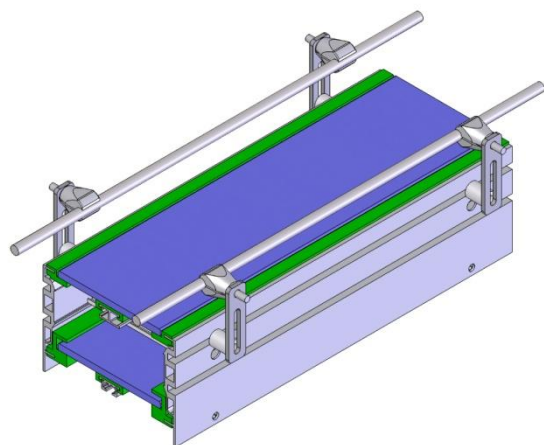
\* The X dimension changes with the length of the aluminum spacer.

The Y dimension varies through the slot in the PSG95 plate.





**MF GPF3**



**Composition (per channel meter):**

GL12SS	: 2 m
MGT12	: 4 pieces
DS2010A27/37/47	: 4 pieces
PSG95	: 4 pieces

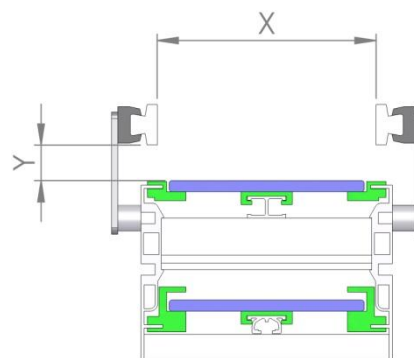
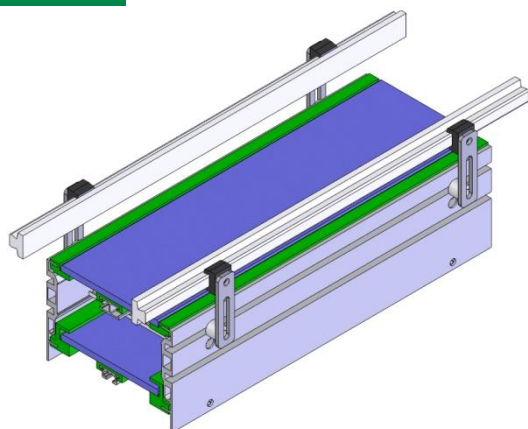
**Clearance:**

X	: L+8 mm minimum*
Y	: 15 ÷ 39 mm*

(where L is the effective width of the chain)

\* The X dimension changes with the length of the aluminum spacer.  
The Y dimension varies through the slot in the PSG95 plate.

**MF GPF6**



**Composition (per channel meter):**

GL31SS	: 2 m
MGL31SS	: 4 pieces
DS2010A18/28/38	: 4 pieces
PSG95	: 4 pieces

**Clearance:**

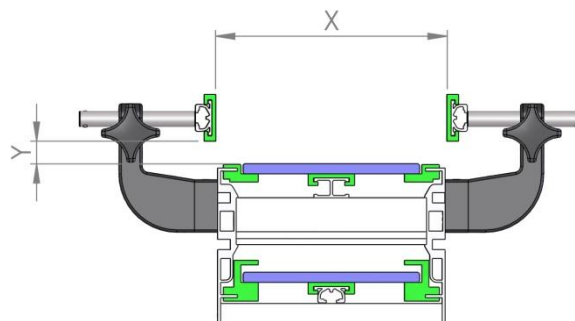
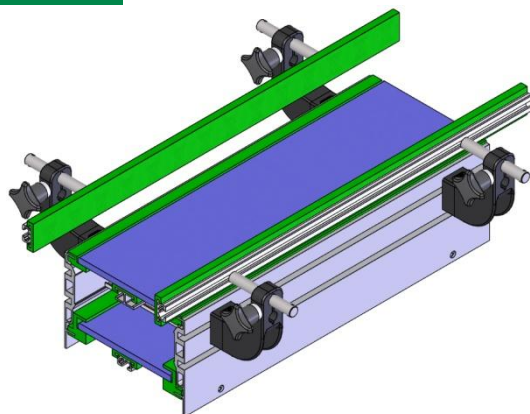
X	: L+18 mm minimum*
Y	: 3 ÷ 23 mm*

(where L is the effective width of the chain)

\* The X dimension changes with the length of the aluminum spacer.  
The Y dimension varies through the slot in the PSG95 plate.

## Adjustable guides

### MF GPR4



#### Composition (per channel meter):

GL40P	: 2 m
GL30A	: 2 m
SG11	: 4 pieces
DS11	: 4/8/12 pieces
PFG14	: 4 pieces

#### Clearance:

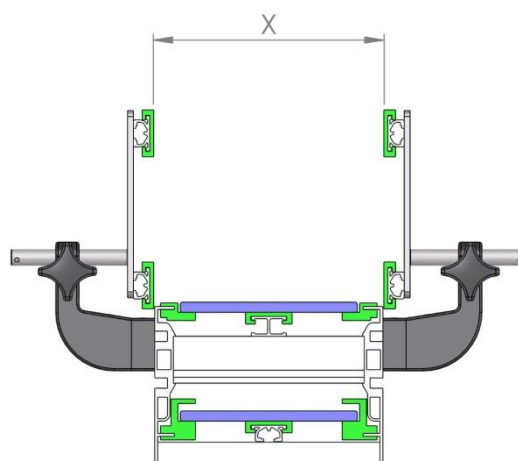
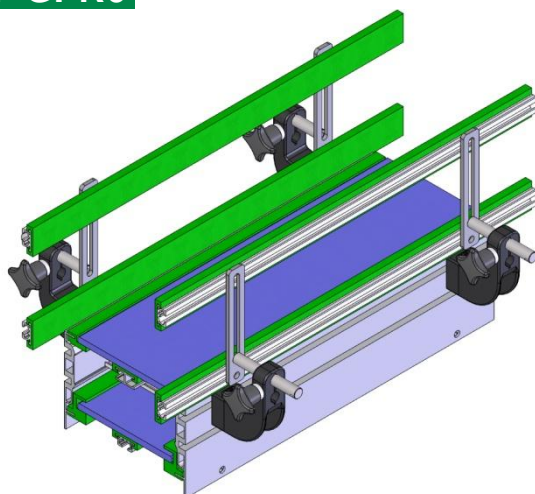
X	: $L + 54 \div 194$ mm minimum*
Y	: $13 \div 35$ mm*

(where L is the effective width of the chain)

\* The X dimension depends on the number of DS11 spacers used and the adjustment provided by the PFG14 pin.

The Y dimension is Y varies through the slot in the SG11 support and on the DS11 spacer.

### MF GPR6



#### Composition (per channel meter):

GL40P	: 4 m
GL30A	: 4 m
SG11	: 4 pieces
DS11	: 4/8/12 pieces
PFG14	: 4 pieces
PSG160	: 4 pieces

#### Clearance:

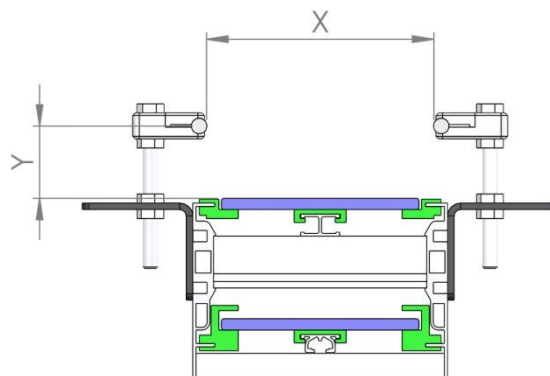
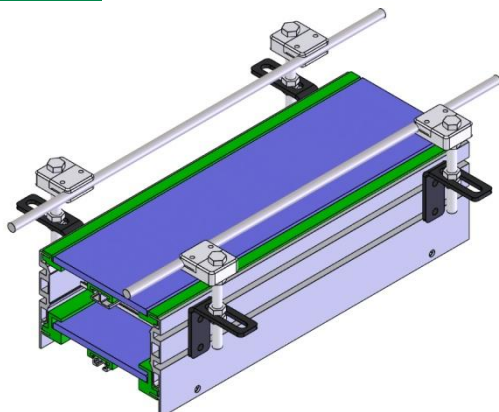
X	: $L + 54 \div 194$ mm minimum*
---	---------------------------------

(where L is the effective width of the chain)

\* The X dimension depends on the number of DS11 spacers used and the adjustment provided by the PFG14 pin.



## MF GPR7



### Composition (per channel meter):

GL12SS	: 2 m
M240-241	: 4 pieces
Bracket 244	: 4 pieces
Screws M12x120	: 4 pieces
PS6020 20/40/60	: 4 pieces

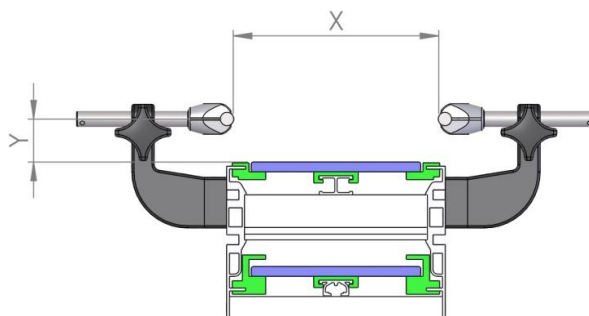
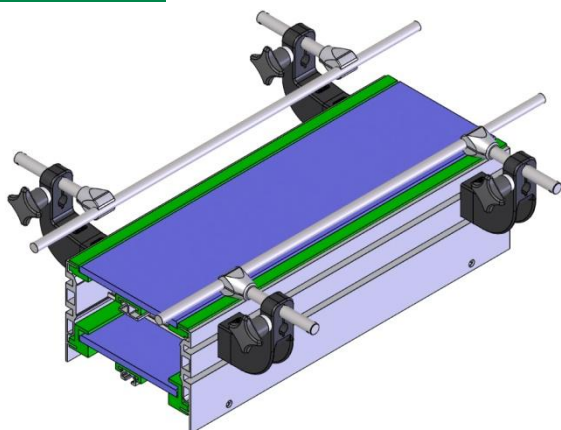
### Clearance:

X	: $L + 7 \div 71$ mm minimum*
Y	: $26 \div 80$ mm*

(where L is the effective width of the chain)

\* The X dimension changes with the slot on the 244 bracket.  
The Y dimension can be adjusted with the support screws.

## MF GPR11



### Composition (per channel meter):

GL12SS	: 2 m
MGT12	: 4 pieces
SG11	: 4 pieces
SG11DS11	: 4/8/12 pieces
PFG14	: 4 pieces

### Clearance:

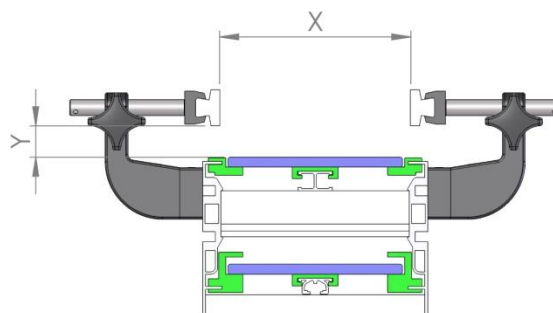
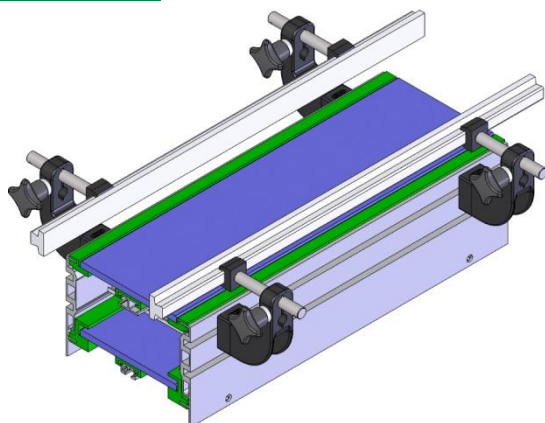
X	: $L + 10 \div 150$ mm minimum*
Y	: $32 \div 56$ mm*

(where L is the effective width of the chain)

\* The X dimension depends on the number of DS11 spacers used and the adjustment provided by the PFG14 pin.  
The Y dimension is Y varies through the slot in the SG11 support and on the DS11 spacer.



## MF GPR17



### Composition (per channel meter):

GL31SS	: 2 m
MGL31SS	: 4 pieces
SG11	: 4 pieces
DS11	: 4/8/12 pieces
PFG14	: 4 pieces

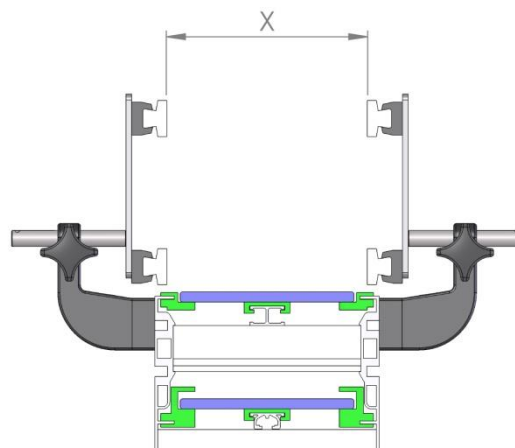
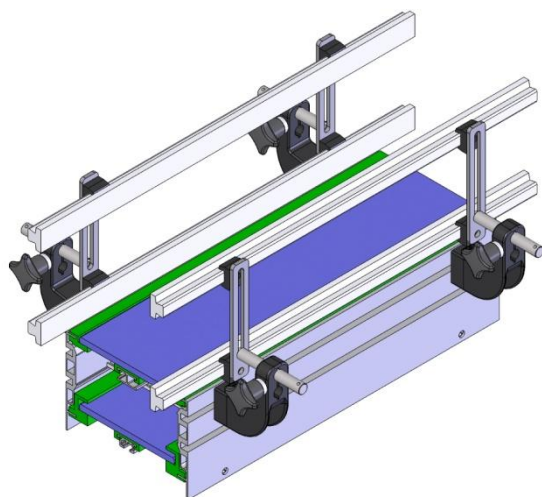
### Clearance:

X	: $L + 28 \div 168$ mm minimum*
Y	: $16 \div 40$ mm*

(where L is the effective width of the chain)

\* The X dimension depends on the number of DS11 spacers used and the adjustment provided by the PFG14 pin.  
The Y dimension is Y varies through the slot in the SG11 support and on the DS11 spacer.

## MF GPR18



### Composition (per channel meter):

GL31SS	: 4 m
MGL31SS	: 8 pieces
SG11	: 4 pieces
DS11	: 4/8/12 pieces
PFG14	: 4 pieces
PSG160	: 4 pieces

### Clearance:

X	: $L + 28 \div 168$ mm minimum*
---	---------------------------------

(where L is the effective width of the chain)

\* The X dimension depends on the number of DS11 spacers used and the adjustment provided by the PFG14 pin.

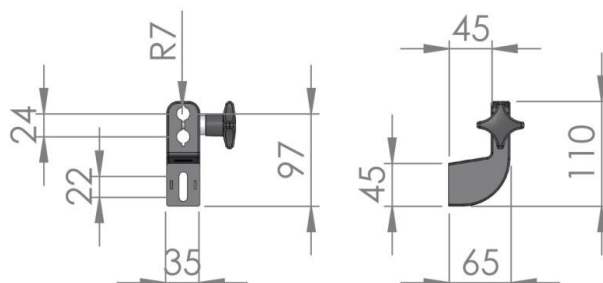


## Lateral guides accessories

### Support

Material : Polyamide  
Colour : Black  
Packaging : 10 pieces

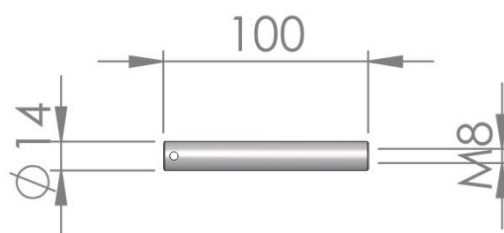
**Order Code: SG11**



### Guide fastening pin

Material : Stainless steel  
Packaging : 10 pieces

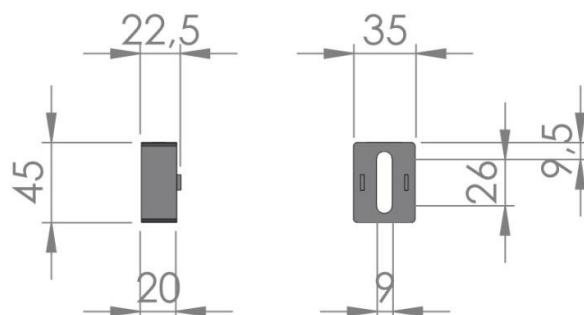
**Order Code: PFG14**



### Support spacer

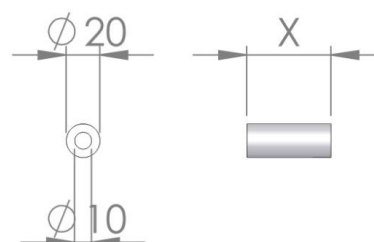
Material : Polyamide  
Colour : Black  
Packaging : 10 pieces

**Order Code: DS11**



Material : Anodized aluminum  
Packaging : Custom cut into bars

**Order Code: DS2010A**

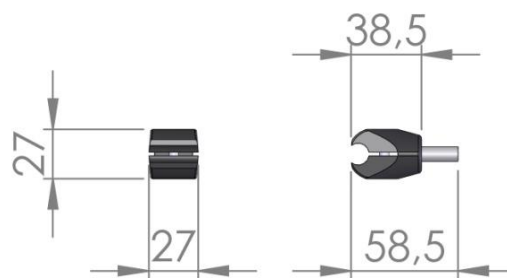




## Guide support clamps

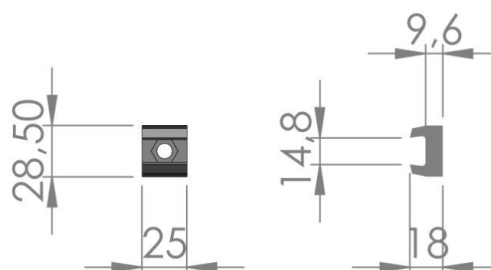
Material : Polyamide  
Colour : Black  
Packaging : 10 pieces

**Order Code: MGT12**



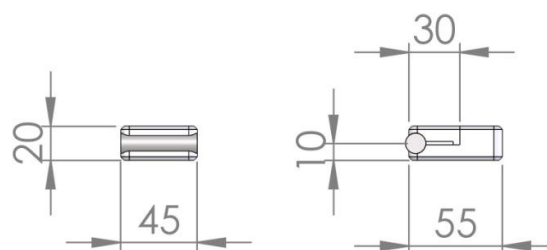
Material : Polyamide  
Colour : Black  
Packaging : 20 pieces with bolts

**Order Code: MGL31SS**



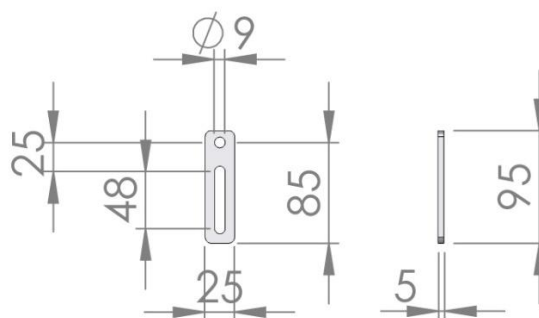
Material : Aluminum  
Packaging : 10 pieces

**Order Code: MGTB**



Material : Stainless steel  
Packaging : 10 pieces

**Order Code: PSG95**

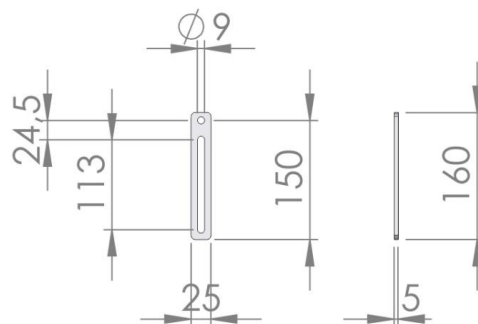






Material : Stainless steel  
Packaging : 10 pieces

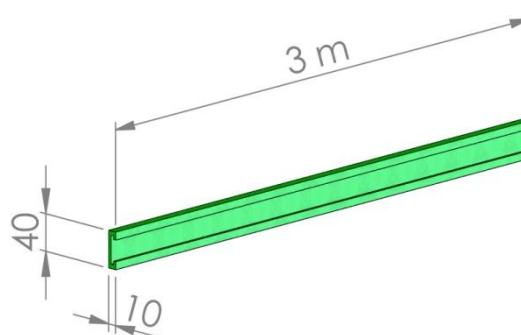
**Order Code: PSG160**



## Profiles

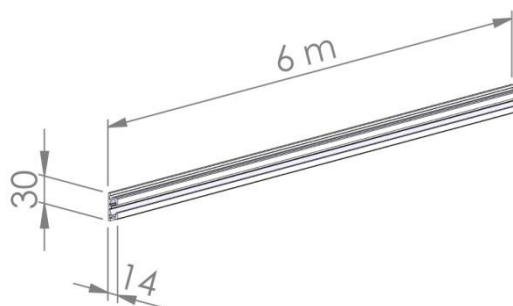
Material : Polyethylene  
Colour : Green  
Length : 3 m

**Order Code: GL40P**



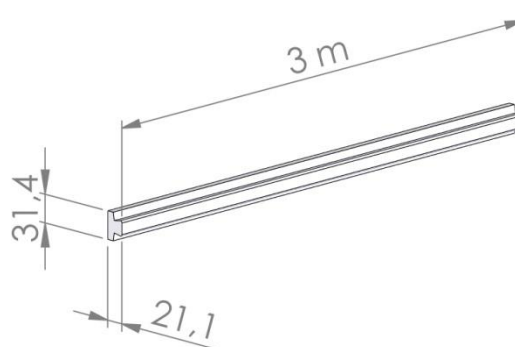
Material : Anodized aluminum  
Length : 6 m

**Order Code: GL30A**



Material : Stainless steel and Polyamide  
Colour : White  
Length : 3 m

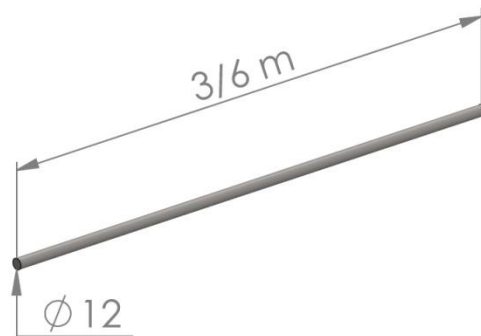
**Order Code: GL31SS**





Material : Stainless steel  
Length : 3/6 m

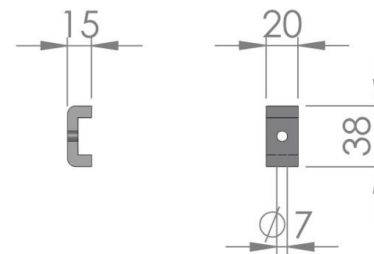
**Order Code: GL12SS**



### Intermediate guide (GLP40) clamps

Material : Polyamide  
Colour : Black  
Packaging : 10 pieces with screws

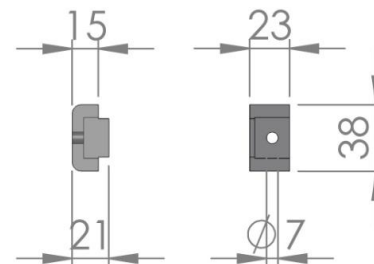
**Order Code: MBPI**



### Guide (GLP40) clamp for curves

Material : Polyamide  
Colour : Black  
Packaging : 10 pieces with screws

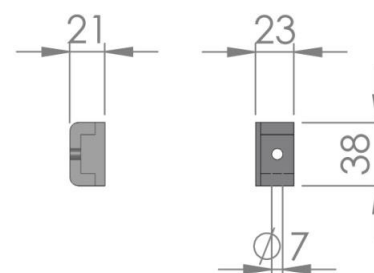
**Order Code: MBPC**



### Terminal guide (GLP40) clamp

Material : Polyamide  
Colour : Black  
Packaging : 10 pieces with screws

**Order Code: MBPT**



## Conveyor support systems

### J S1

JS1 system support is composed of a polyamide base with 3 adjustable feet, with a stainless steel tubular at the top of it where are welded 2 brackets to support the conveyor channel. The channel is fastened directly on the brackets using the holes or the cavities on the side of the profile, so the distance between them is the width of the channel. The height of the conveyor can be adjust also with the regulation of the tubular.

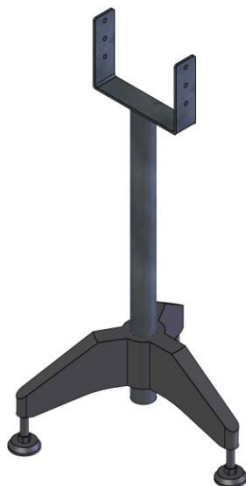
JS1 simple model is suitable for Modul-Flex conveyors within a maximum chain width of 270 mm.

JS1 double model (JS1D) instead is composed of a double two-legged base in polyamide, with the same regulation of the tripod model, linked with a stainless steel tubular: his conformation makes it suitable for the conveyors with a chain width greater than 270 mm.

Standard feet don't have the anti vibrations rubber, but they can be predispose with the holes to fix the conveyor to the ground. Both the models can be assemble with wheels.

The height of the conveyor chain plan can be adjust between a standard regulation of  $\pm 70$  mm.

For the realization of support with a height not included in this standard range or with a wider regulation, please contact our Technical Department



#### Composition:

Stainless steel Ø 48 mm tubular	
GF50	: 1 piece
PSR60	: 3 pieces

**Order Code: JS1**



#### Composition:

Stainless steel Ø 48 mm tubular	
GF50	: 1 piece
RP80	: 3 pieces

**Order Code: JS1R**



M.H. MATERIAL HANDLING

**MODUL-FLEX**



**Composition:**

Stainless steel Ø 48 mm tubular  
 GF70 : 2 pieces  
 PSR60 : 3 pieces

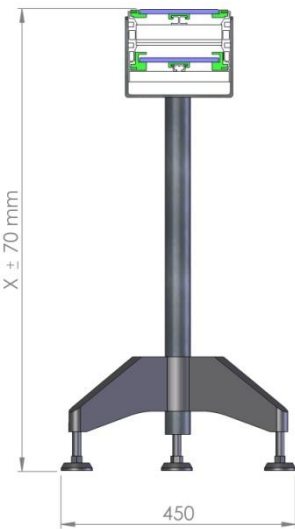

**Order Code: JS1D**



**Composition:**

Stainless steel Ø 48 mm tubular  
 GF70 : 2 pieces  
 RP80 : 3 pieces

**Order Code: JS1DR**

JS1	JS1D
	
<p>X = required chain level</p>	<p>X = required chain level          Y = L+46 mm          (where L is the effective width of the chain)</p>

**JS2D – JS5D**

JS2D and JS5D systems support are composed of a two-legged frame built with a painted iron or stainless steel square tubular of two different dimensions:

- 40x40 mm for JS2D system
- 50x50 mm for JS5D system

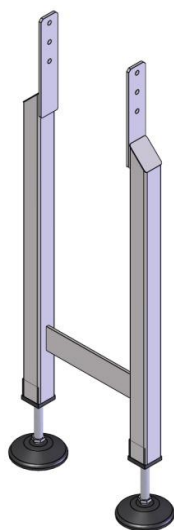
The feet at the base of the frame are in polyamide and are adjustable in height, with a maximum of  $\pm 50$  mm.

The 2 brackets for the support of the conveyor channel are welded directly on the frame. The channel is fastened on the brackets using the holes or the cavities on the side of the profile, so the distance between the brackets is the width of the channel.

Both the models are suitable for every Modul-Flex conveyor, independently of the width of the chain used: the frame will be custom built with the necessary size.

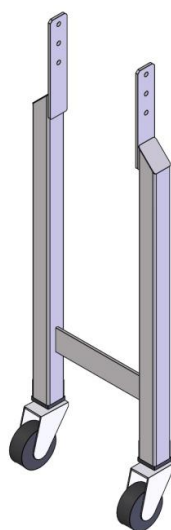
Standard feet don't have the anti vibrations rubber, but they can be predispose with the holes to fix the conveyor to the ground. Both the models can be assemble with wheels.

For the realization of support with a height not included in this standard range or with a wider regulation, please contact our Technical Department

**Composition:**

Square tubular frame 40x40 mm  
PSR100

: 2 pieces

**Composition:**

Square tubular frame 40x40 mm  
RP80

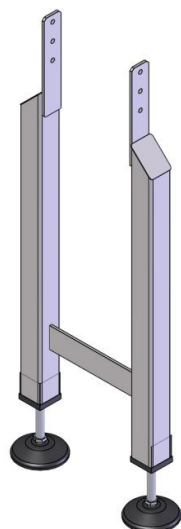
: 2 pieces

**Order Code: JS2D****Order Code: JS2DR**



M.H. MATERIAL HANDLING

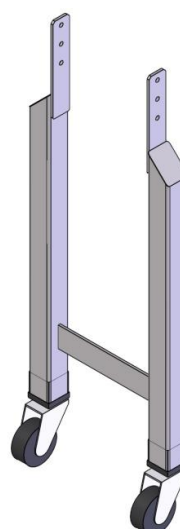
**MODUL-FLEX**



**Composition:**

Square tubular frame 50x50 mm  
PSR100 : 2 pieces

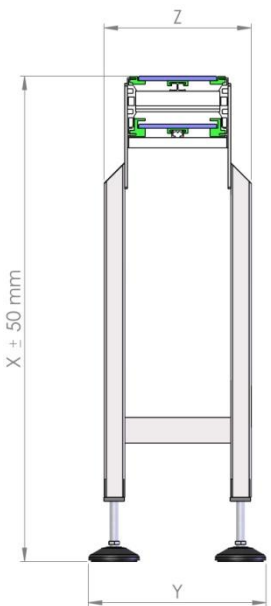
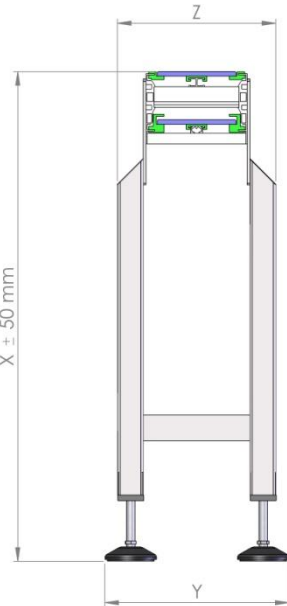
**Order Code: JS5D**



**Composition:**

Square tubular frame 50x50 mm  
RP80 : 2 pieces

**Order Code: JS5DR**

<b>JS2D</b>	<b>JS5D</b>
	
<p>X = required chain level Y = L+198 mm Z = L+138 mm (where L is the effective width of the chain)</p>	<p>X = required chain level Y = L+208 mm Z = L+158 mm (where L is the effective width of the chain)</p>



**JS3-JS4**

JS3 and JS4 systems support are composed of two-legged frame built with a anodized aluminum profile of different dimensions:

- 40x40 mm for JS3 system
- 80x40 mm for JS4 system

The feet at the base of the frame are in polyamide and are adjustable in height, with a maximum of  $\pm 50$  mm.

The 2 brackets for the support of the conveyor channel are screwed directly on the frame, using the cavities on the profile. The channel is fastened on the brackets using the holes or the cavities on the side of the profile, so the distance between the brackets is the width of the channel.

Every model is suitable for different Modul-Flex conveyors, depending on the width of the chain that is used:

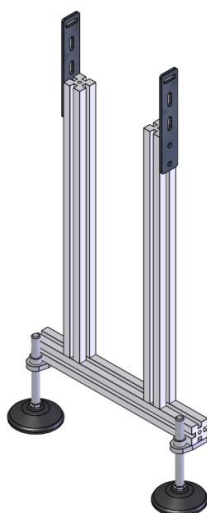
JS3 simple model is suitable for Modul-Flex conveyors within a maximum chain width of 270 mm

JS3D model is suitable for Modul-Flex conveyors with a chain width greater than 270 mm

JS4D model is suitable for every Modul-Flex conveyor, independently of the width of the chain used

Standard feet don't have the anti vibrations rubber, but they can be predispose with the holes to fix the conveyor to the ground. Both the models can be assemble with wheels.

For the realization of support with a height not included in this standard range or with a wider regulation, please contact our Technical Department

**Composition:**

Frame in aluminum profile 40x40 mm

SFC40

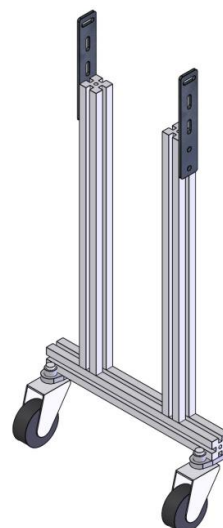
BPSA4040

PSR100

: 2 pieces

: 2 pieces

: 2 pieces

**Composition:**

Frame in aluminum profile 40x40 mm

SFC40

BPSA4040

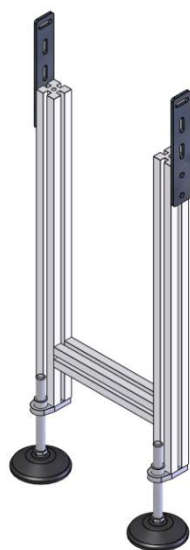
RP80

: 2 pieces

: 2 pieces

: 2 pieces

**Order Code: JS3****Order Code: JS3R**



### Composition:

Frame in aluminum profile 40x40 mm

SFC40

BPSA4040

PS4040

PSR100

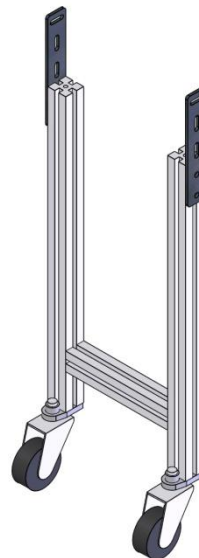
: 2 pieces

: 2 pieces

: 3 pieces

: 2 pieces

**Order Code: JS3D**



### Composition:

Frame in aluminum profile 40x40 mm

SFC40

BPSA4040

PS4040

RP80

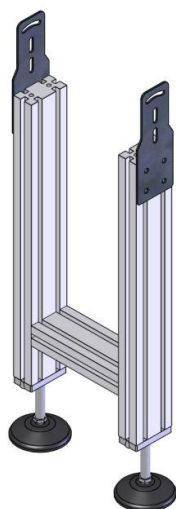
: 2 pieces

: 2 pieces

: 3 pieces

: 2 pieces

**Order Code: JS3DR**



### Composition:

Frame in aluminum profile 80x40 mm

MFS

BPSA8040

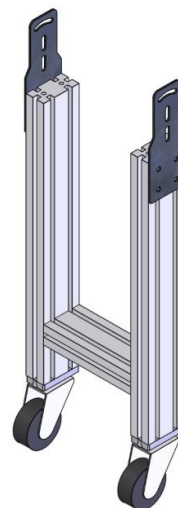
PSR100

: 2 pieces

: 2 pieces

: 2 pieces

**Order Code: JS4D**



### Composition:

Frame in aluminum profile 80x40 mm

MFS

BPSA8040

RP80

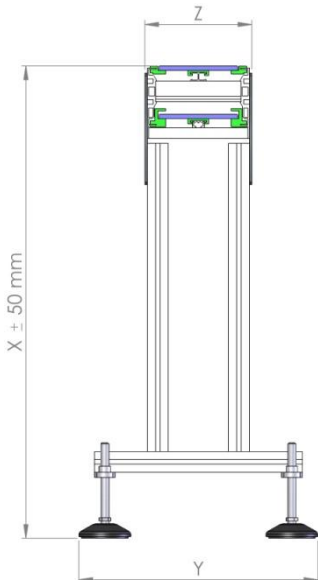
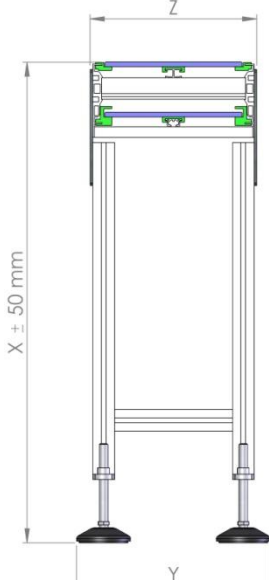
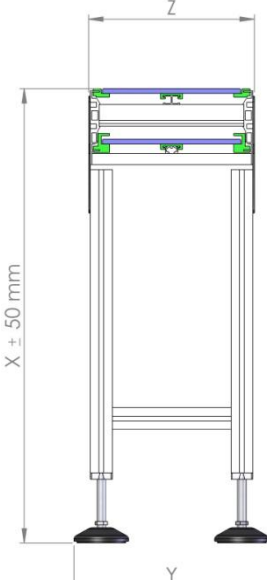
: 2 pieces

: 2 pieces

: 2 pieces

**Order Code: JS4DR**



<b>JS3</b>	<b>JS3D</b>	<b>JS4D</b>
		
<p>X = required chain level  Y = L+210 mm  Z = L+54 mm  (where L is the effective width of the chain)</p>	<p>X = required chain level  Y = L+104 mm  Z = L+54 mm  (where L is the effective width of the chain)</p>	<p>X = required chain level  Y = L+104 mm  Z = L+54 mm  (where L is the effective width of the chain)</p>



## HOW TO WRITE THE ORDER CODES FOR CONVEYOR SUPPORT SYSTEMS

Description	Order Code
Support type	JS1 JS1R JS1D JS1DR JS2D JS2DR JS3 JS3R JS3D JS3DR JS4D JS4DR JS5D JS5DR
Material (if available)	Stainless Steel: X
Chain width	K4 K6 K8 K10 K12 K16 K20 K24 K28 K32
Chain plan height	H followed from the height measure of the chain plan in mm

Example:

S5D support in stainless steel height 915 mm for a chain 203 mm wide  
Cod: JS5D-X-K8-H915

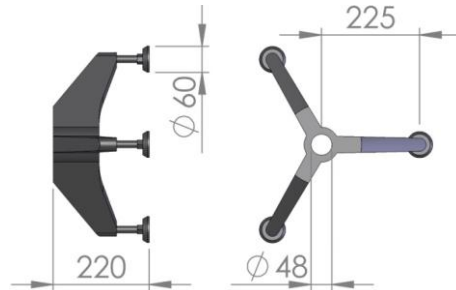


## Conveyor support accessories

### Support base with feet

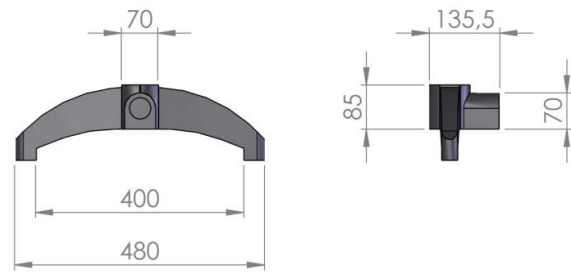
Material : Reinforced polyamide  
Colour : Black  
Packaging : 8 pieces

**Order Code: GF50**



Material : Reinforced polyamide  
Colour : Black  
Packaging : 8 pieces

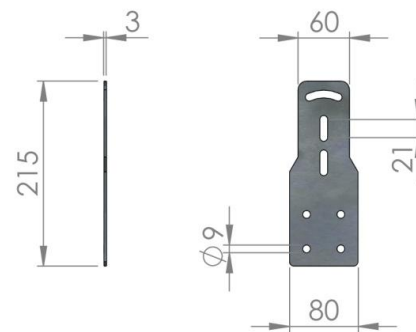
**Order Code: GF70**



### Channel fastening brackets

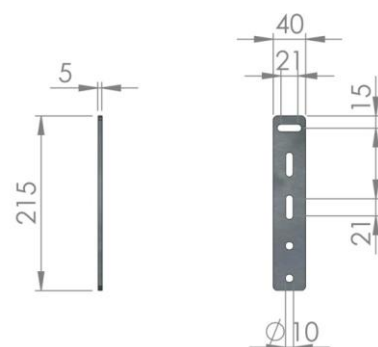
Material : Stainless steel  
Packaging : 10 Pieces (5+5)

**Order Code: MFS**



Material : Stainless steel  
Packaging : 10 Pieces

**Order Code: SFC40**

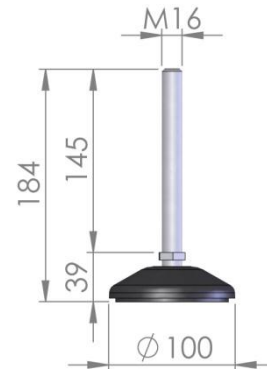




## Support feet

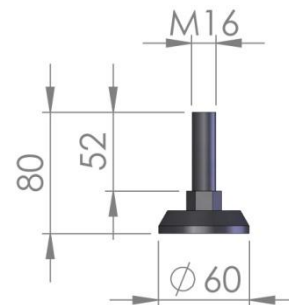
Material : Galvanized steel and Polyamide  
Colour : Black  
Packaging : 10 pieces

**Order Code: PSR100**



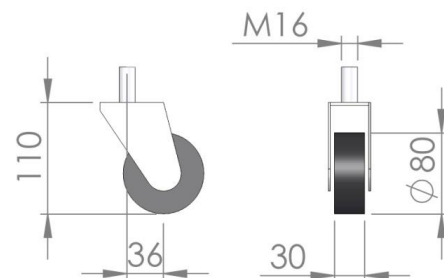
Material : Galvanized steel and Polyamide  
Colour : Black  
Packaging : 10 pieces

**Order Code: PSR60**



Material : Galvanized steel and rubber  
Packaging : 1 piece

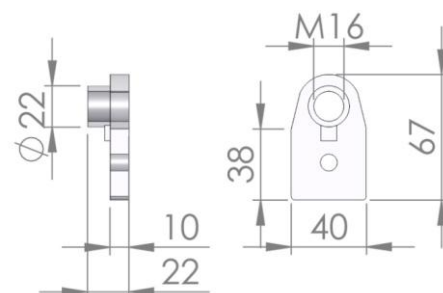
**Order Code: RP80**



## Sanded aluminum bases

Material : Sanded aluminum  
Packaging : 10 Pieces

**Order Code: BPSA4040**

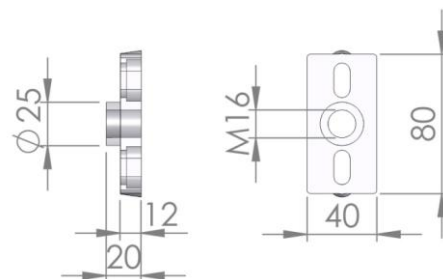






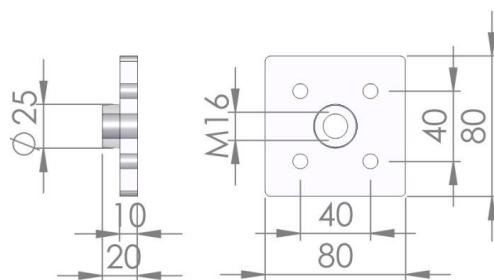
Material : Sanded aluminum  
Packaging : 10 Pieces

**Order Code: BPSA8040**



Material : Sanded aluminum  
Packaging : 10 Pieces

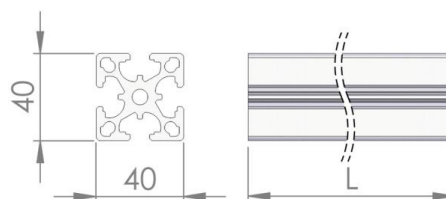
**Order Code: BPSA8080**



## Support profiles

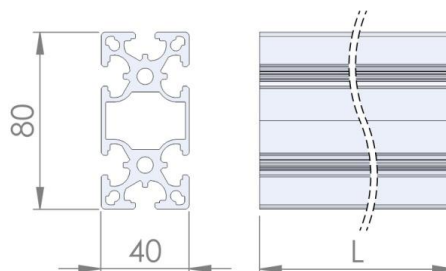
Material : Anodized aluminum  
Length : 3÷6 meters in bars

**Order Code: PS4040**



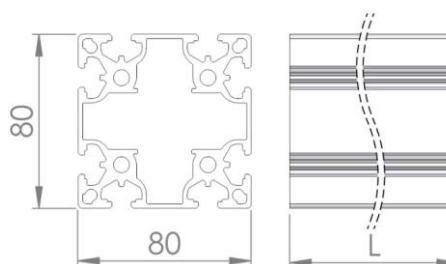
Material : Anodized aluminum  
Length : 3÷6 meters in bars

**Order Code: PS8040**



Material : Anodized aluminum  
Length : 3÷6 meters in bars

**Order Code: PS8080**

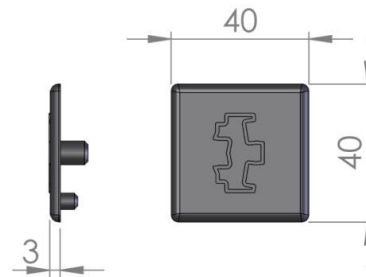




## Profile cap

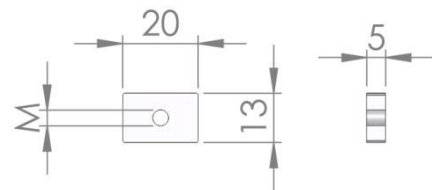
Material : Polyamide  
Colour : Black  
Packaging : 10 pieces

**Order Code: TC4040**



## Square nuts

Material : Galvanized steel  
                  Stainless steel  
Packaging : 100 pieces

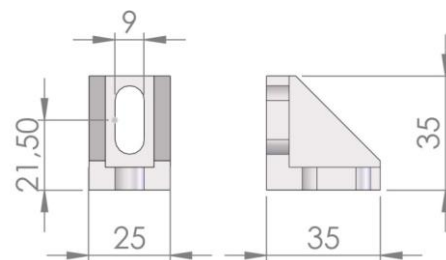


**Order Code: DRM4/5/6/8**

## Connecting angles

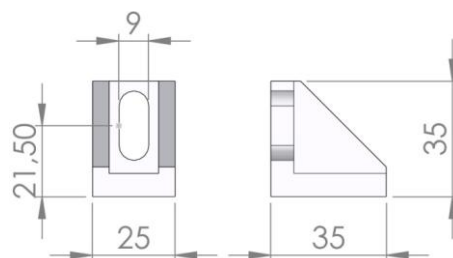
Material : Sanded aluminum  
Packaging : 10 Pieces

**Order Code: AC3525**



Material : Sanded aluminum  
Packaging : 10 Pieces

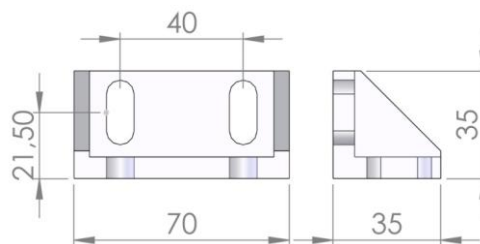
**Order Code: AC3525C**





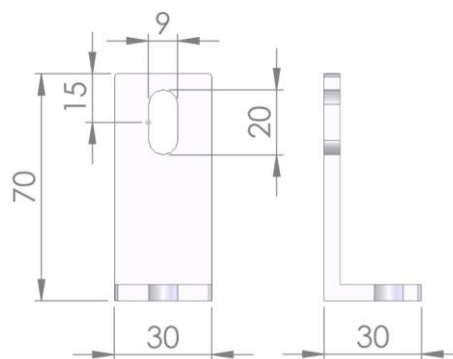
Material : Sanded aluminum  
Packaging : 10 Pieces

**Order Code: AC3570**



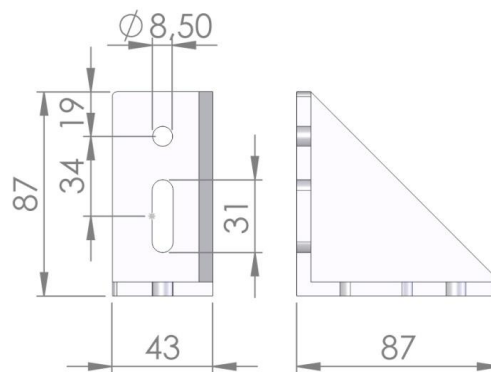
Material : Anodized aluminum  
Packaging : 10 Pieces

**Order Code: AC3070**



Material : Sanded aluminum  
Packaging : 10 Pieces

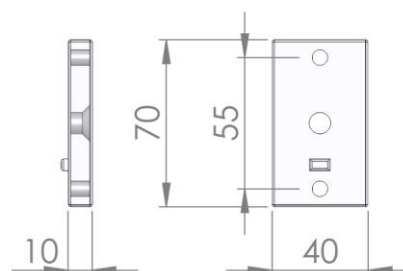
**Order Code: AC4387**



## Profile joining plate

Material : Sanded aluminum  
Packaging : 10 Pieces

**Order Code: PG4040**





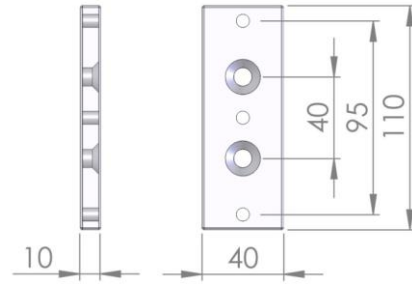
M.H. MATERIAL HANDLING

## MODUL-FLEX

Material : Sanded aluminum

Packaging : 10 Pieces

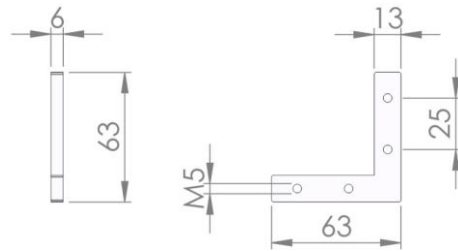
**Order Code: PG8040**



Material : Galvanized steel

Packaging : 10 Pieces

**Order Code: PG630/45/60/90**



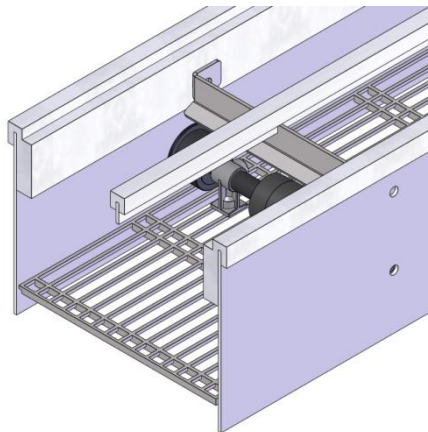


## Stainless steel MODUL-FLEX

For lines in which the conveyor touches the naked product or where it is necessary that the conveyor channel not have slots or for specific requests, a version of Modul-Flex made in stainless steel is available, complete with all the accessories.

Please specify the type of material required for the line when placing the order:

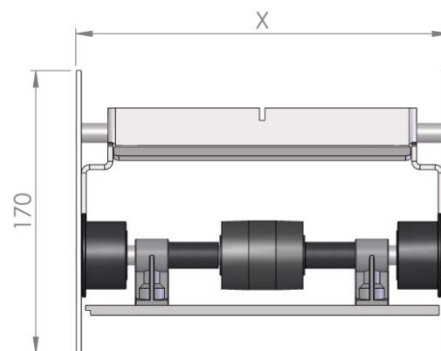
- the simple Stainless steel line has a smooth side without slots made in steel sheet, but it still has aluminum spacers inside. The same is true for the curves, end drives and end returns, which all have standard components in aluminum in their interiors.  
This type of line is indicated as MFX
- The washable Stainless steel line, instead, is made with stainless steel components created specifically for lines that must be washable. In addition to the smooth side without slots, the spacers inside are all made in round stainless steel bars. Even the slide curves, drive ends and return ends are all made so that the conveyor can be washed completely.  
This type of line is indicated as MFW



### Modul-Flex chain guide channel in stainless steel

Material : Stainless steel  
Length : 3 m

**Order Code: MFX  
MFW**



$X$  = Channel width equals to  $L+44$  mm  
(where  $L$  is the effective width of the chain)

$Y$  = Height of the chain surface equals to  $h+131$  mm  
(where  $h$  is the effective height of the chain)

**Ordering:**

To order the pre-mounted channel, please specify the type of chain you want to use and its width (for this information, see the pages regarding standard chains), the number of pieces desired and their lengths: the cost of each piece, calculated per meter, will be rounded to the next half meter.

An example of an order code for a channel piece could be:

Modul-Flex washable channel with straight Intralox Flat Top chain 203 mm wide and 1200 mm long  
MF-S1100 FT-K8-1200

The cost for a channel like the one in the example would be the same as for a channel 1500 long.

**Stainless steel curve**

Curve in stainless steel or sanificabile version is a little bit different in the way of how the channel is built, because the return chain is support by rollers and not by central slideway guide. The lateral slideway guide instead is modify to support the chain also during the return track, like in the standard curve.

There isn't the protection grid, replaced by a pierced metal sheet.

At the moment of the order, please give to our Technical Office the effective width of the chain..

