

# ENGINEERING MANUAL

Complex Configurations  
& Tight Spaces

High Speed Performance  
- Up to 76 mpm

Reduces  
Conveyor Footprint

Ideal for Curves,  
Inclines & Declines



# FlexMove®

High Performance, Aluminum,  
Flexible Chain Conveyors

**DORNER®**  
By Columbus McKinnon

**TRANSFERS**  
FOR SMOOTH IN-LINE  
TRANSFER OF PRODUCT

**WHEEL CORNERS**  
ELIMINATE CORNER FRICTION ALLOWING  
MULTIPLE CORNER CONFIGURATIONS

**VERTICAL BENDS**  
FOR SMOOTH ELEVATION  
CHANGES AND EFFICIENT  
USE OF VERTICAL SPACE



**T-SLOT FRAMEWORK**  
FOR EASE OF MOUNTING  
ACCESSORIES

**SUPPORT POST**  
PROVIDE ADJUSTABLE  
HEIGHT WHILE OPTIMIZING  
THE USE OF FLOOR SPACE

**MODULAR FRAMING**  
FOR FUTURE ADD ON  
CAPABILITY AND  
PRODUCTION LINE CHANGES

## Purchasing a FlexMove Conveyor

Dorner offers two solutions for purchasing a FlexMove Conveyor.

- The first solution is to order all the necessary parts and components to build your FlexMove Conveyor on site. This will require the proper tools for cutting, bending and installing the conveyor. Consult our installation guide for FlexMove Conveyors for more details.
- The second solution is to have a complete conveyor provided through our FlexMove Solutions. With FlexMove Solutions, you can have the conveyor built in our facility, tested, broken down into shippable sections and shipped to the end site for installation.

*The contents of this publication are the copyright of the publishers and may not be reproduced (even extracts) unless permission is granted. Every care has been taken to ensure the accuracy of the information but no liability can be accepted for any errors or omissions.*

*The right is reserved to make design modifications*

### Patents

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

*Drawings are made to European standards.*

**March 2026**

## TABLE OF CONTENTS

|  |           |
|--|-----------|
| Product Overview & Introduction .....      | 4 – 9     |
| <b>FK</b> 45mm Conveyor System .....       | 10 – 25   |
| <b>FS</b> 65mm Conveyor System .....       | 26 – 48   |
| <b>FM</b> 85mm Conveyor System .....       | 49 – 72   |
| <b>FC</b> 105mm Conveyor System.....       | 73 – 94   |
| <b>FL</b> 150 mm Conveyor System .....     | 95 – 111  |
| <b>FU</b> 180 mm Conveyor System .....     | 112 – 124 |
| <b>FV</b> 260 mm Conveyor System .....     | 125 – 137 |
| <b>FZ</b> Function Modules .....           | 138 – 152 |
| <b>FA</b> Conveyor Accessories .....       | 153 – 166 |
| <b>FB</b> Conveyor Support Options.....    | 167 – 176 |
| <b>FB</b> Conveyor Support Components..... | 177 – 183 |
| <b>FG</b> Conveyor Guide Options.....      | 184 – 203 |
| <b>FG</b> Conveyor Guide Components .....  | 204 – 222 |
| Gearmotors .....                           | 223 – 227 |
| Controllers .....                          | 228 – 229 |
| Pallet Systems .....                       | 230 – 233 |
| Technical Data & Calculations .....        | 234 – 245 |

*Dorner reserves the right to make alteration without prior notification. Every care has been taken to ensure the accuracy of the information contained in this Catalog but no liability can be accepted for any error or omissions.*



## Basic System Selection

We provide a wide selection of chain sizes to cover a wide variety of product sizes and shapes. In order to select the right chain size to use in your application, consider the following selection criteria:

- **Product Dimensions**

A product can be two or three times wider than the conveyor chain as long as the center of gravity of the product falls within the chain width. Extra supporting guide rails are required and testing is recommended.

- **Product Weight**

Product weight is important in chain selection as each chain has its maximum traction force. Traction force calculation is required when there are several heavy products to be conveyed, and it will increase further if the products are accumulated on the conveyor.

- **Conveyor Functions Available**

Most of the conveyor functions are available in all conveyor series, however there are differences with regards to the chain types, drive unit and idler unit variants. Selection of drive type is important as different drives have different traction forces.

- **Technical Calculation**

It is important to calculate total load on conveyor based on product weight, distance between products, accumulation and length of the system. The frequency of start /stop, chain tension and service factor are important. If the calculated capacity is higher than the selected drive and chain series, the conveyor should be shortened or select a system with higher capacity.

- **Small Footprint**

Straightforward layout and compact design maximizes valuable floor space while minimizing noise, maintenance and footprint.

- **Intermediate Drive Unit**

An intermediate drive is best utilized when space restriction prohibits the placement of the end drive unit. It requires idler end units at each end. The gearmotor can be coupled directly or suspended underneath the drive unit at both right and left orientation. Adjustable torque limiter can be added to protect the conveyor system. The traction force is lower than end drive units due to less engagement between drive sprocket and chain.

- **Catenary Drive Unit**

Catenary Drives are designed to accommodate top-running chains and are commonly used in application of single loop or alpine conveyor system. Additional idler end unit is not required. Only suspended version is available.

## PRODUCT OVERVIEW

### Basic System Selection *continued*

- **Combined Drive and Idler Unit**

A combined drive and idler consist of one end drive and one idler end unit mounted in a single assembly with a transfer bridge for smooth transfer of products. It has a smaller footprint compared to side transfer design. Available in both direct and suspended drive versions, the gear motor can be coupled at both left and right orientation. Adjustable torque limiter can be added to protect the conveyor system.

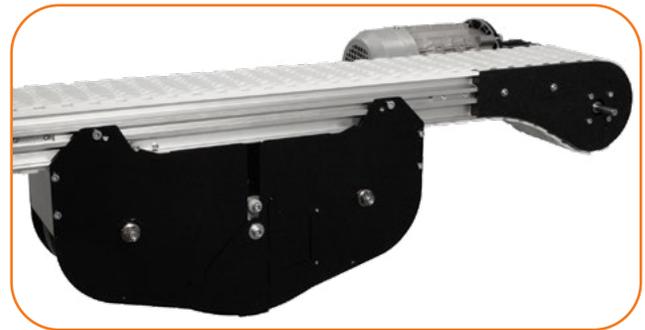
- **Wheel Drive Unit**

Wheel drives are used for applications using single loop or alpine conveyor system without return chain. Both direct and suspended drive versions are available with the gearmotor mounted underneath. The traction force is lower than other end drive units as the gear wheel engages the side of the chain.

- **Weight Take-Up**

To eliminate catenary sag, FlexMove conveyors come with a weighted take-up module.

The weighted take-up module automatically adjusts for chain stretch. The module provides smoother and quieter chain running and can also be positioned in various locations along the conveyor.



### Idler End Unit

The function of the idler end is to change the direction of the moving chain. Available in both standard idler end unit (180°) and idler bend unit (90°). It comes with 2pc connecting strips at the connection end.

- **Idler End Unit (standard 180°)**

The moving chain is transferred 180° from the bottom of the conveyor beam to the top through a flange guide with minimal friction.

- **Idler Bend Unit (90°)**

The idler bend unit converts and changes the chain direction in 90° perpendicular to incoming chain direction.

### Bends

Bends are used to change the direction of chain movement in conveyors. There are 3 types of bends available:

- **Wheel bends**

Designed with top and bottom wheels that rotate freely with the chain and are supported by a dual sealed ball bearing, providing the lowest friction, minimum bend force and smallest turning radius compared to other types of bends. Besides standard 30°, 45°, 60°, 90° and 180° configurations, special angles are also available upon request. Select a horizontal wheel bend whenever possible.

- **Horizontal Bends**

An alternative to wheel bends, horizontal bends are useful in conditions requiring large space, long products with large turning radius and twin – track bend applications. It has higher friction compared to wheel bends. Larger radius is recommended for lower friction and less stress on slide rail.

- **Vertical Bends**

A vertical bend provides vertical change of the conveyors moving direction. It can be used either as a convex or concave bend. Vertical bends increase the chain tension and cause higher stress on the slide rail. Avoid using more than four 90° vertical bends in one conveyor.

**ALPINE CONVEYORS**



The Alpine Conveyor is a compact spiral configuration commonly used as an accumulation or buffer zone in between machines or as a process step for cooling or drying. It is also used for line balancing and for repair and maintenance purposes.

It can be configured as an elevating/lowering system with a single or double serpentine configuration and used as an in-line accumulator with entry and exit at different levels, or an in-line or off-line accumulator with entry and exit at the same level.

The Alpine conveyor maximizes vertical space and ensures the efficient utilization of machines with different speeds and provides storage for pucks.

**WEDGE CONVEYORS**



Our wedge conveyors are used to take products from production floor level to a higher level or vice versa. Products are wedged between opposing conveyors lined vertically or horizontally and are moved swiftly but securely.

Wedge Conveyors are easy to construct, lightweight and have compact footprints. Its rapid transfer rate makes it ideal for use in continuous, high capacity operations such as packaging lines. Built with Aluminum and stainless steel, it meets the stringent hygiene standard required for medical and cosmetic packaging.

Wedge Conveyors can be configured differently for a variety of uses, such as a transition between different travel orientations, de-pucking operations, inverted rinse operations and even for creating a passage way on the production floor.

Wedge Conveyors are not suitable for wet products, heavy products or products that cannot withstand side pressure.



C-Wedge



N-Wedge



S-Wedge

## TWIST CONVEYORS



- Positively control the product during rotation
- Provides product rotation for access to multiple sides of packages
- No change over –can handle multiple package sizes at the same time
- No product guiding required
- Products do not need to be gapped or spaced
- Available Widths: 65, 85, 105 and 180 mm (2.5, 3, 4 and 7 in)
- Requires 2 independent FlexMove conveyors
- Helical twists up to 90 degrees per conveyor pair
- 90 degree twist is approximately 3 m (10 ft) long
- Speeds Up to 55 mpm (180 fpm)

## HELIX CONVEYORS



- Unique, flexible design provides greater flexibility in layout
  - Infeed and outfeed may be positioned at any height or angle
  - Custom infeed and outfeed lengths allow the conveyor to extend beyond spiral, reducing the number of conveyors required
- Small foot print maximizes valuable floor space
- Patented side roller chain reduces corner friction allowing for faster speeds and smooth product handling
- Applications include accumulation, buffering, cooling product between processes or machines, and more
- Available in 85, 180 and 260 mm

## HELICAL CURVE CONVEYORS



- Reduces conveyor footprint saving valuable floor space
- Allows incline or decline through corners and straights
- Patented side roller chain reduces corner friction
- Provides capability for product accumulation in the corners
- Simple, low cost spiral for small parts handling
- Available in 85, 180 and 260 mm

## TOP RUNNING LOOP CONVEYORS

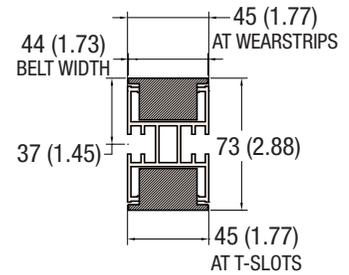


- Top running module create a continuous loop of conveyance
- Used for pallet systems, puck handling, and small manufacturing cells
- Conveyor chain runs on the top side of the frame only
- Available with top running drive module or wheel corner drives



### 45 mm (1.7 in)

- Maximum load = 30 kg/m (20 lbs/ft)
- Maximum total load = 136 kg (300 lbs) non-accumulated
- Maximum length = 30 m (98 ft)
- Maximum Speed = 50 mpm (165 fpm)

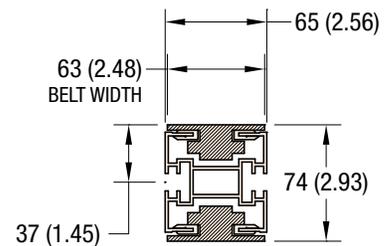


**45 MM WIDTH**



### 65 mm (2.5 in)

- Maximum load = 30 kg/m (20 lbs/ft)
- Maximum total load = 136 kg (300 lbs) non-accumulated
- Maximum length = 30 m (98 ft)
- Maximum Speed = 58 mpm (190 fpm)

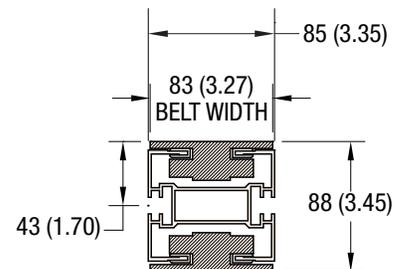


**65 MM WIDTH**



### 85 mm (3.4 in)

- Maximum load = 60 kg/m (40 lbs/ft)
- Maximum total load = 272 kg (600 lbs) non-accumulated
- Maximum length = 30 m (98 ft)
- Maximum Speed = 58 mpm (190 fpm)

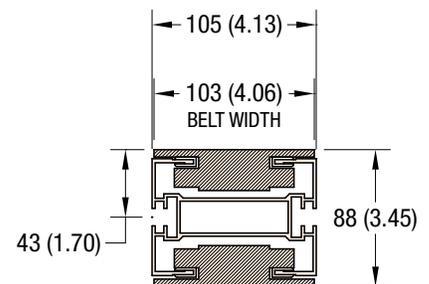


**85 MM WIDTH**



### 105 mm (4.1 in)

- Maximum load = 60 kg/m (40 lbs/ft)
- Maximum total load = 272 kg (600 lbs) non-accumulated
- Maximum length = 30 m (98 ft)
- Maximum Speed = 58 mpm (190 fpm)



**105 MM WIDTH**

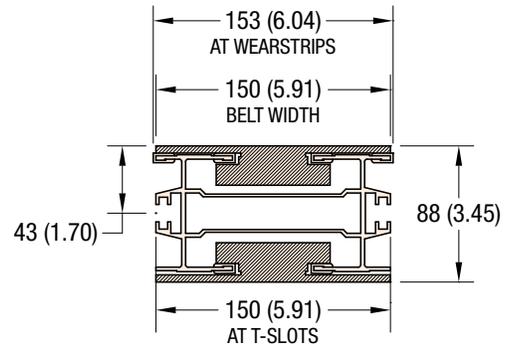
**Note:** Conveyor modules may be made up of several length of conveyor beam. Maximum length piece beam is 3,000 mm (118 in).

**Note:** Dimensions = mm (in)



## 150 mm (5.9 in)

- Maximum load = 60 kg/m (40 lbs/ft)
- Maximum total load = 272 kg (600 lbs) non-accumulated
- Maximum length = 30 m (98 ft)
- Maximum Speed = 58 mpm (190 fpm)

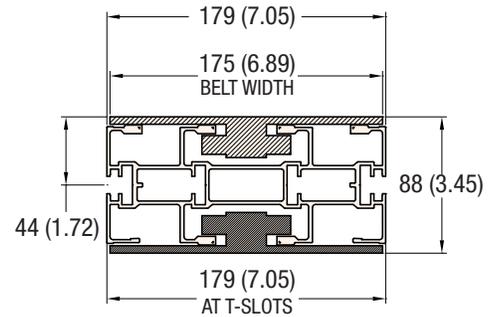


**150 MM WIDTH**



## 180 mm (7.1 in)

- Maximum load = 65 kg/m (44 lbs/ft)
- Maximum total load = 272 kg (600 lbs) non-accumulated
- Maximum length = 30 m (98 ft)
- Maximum Speed = 58 mpm (190 fpm)

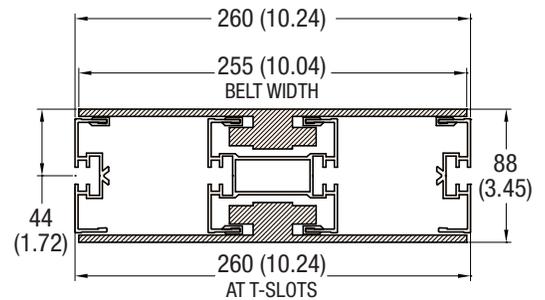


**180 MM WIDTH**



## 260 mm (10.2 in)

- Maximum load = 65 kg/m (44 lbs/ft)
- Maximum total load = 272 kg (600 lbs) non-accumulated
- Maximum length = 30 m (98 ft)
- Maximum Speed = 58 mpm (190 fpm)



**260 MM WIDTH**

**Note:** Conveyor modules may be made up of several length of conveyor beam. Maximum length piece beam is 3,000 mm (118 in).

**Note:** Dimensions = mm (in)

**FK Series** is a compact and neat design for small items and fast transportation. It is also used for twin track application for pallet assembly lines.

### FK Series Characteristic

**Beam Width:** 45 mm

**Product Width:** Refer to Guide Rail Assembly

### Accessories Needed

**Slide Rail Required:** FASR-25K OR FASR-25KU

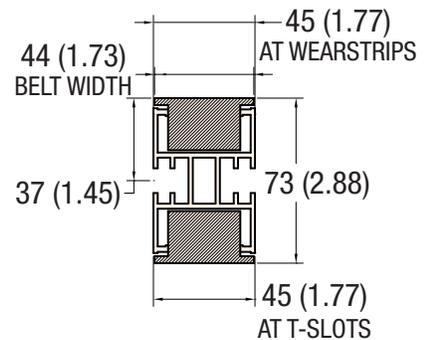
**Slide Rail Color:** White or Natural Color

**Slide Rail Material:** HDPE OR UHMW-PE

**Slide Rail Rivet:** FASLS-M3

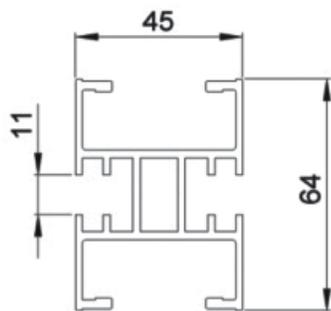
Connecting strip is used to connect two beams.

Connecting Strip: FACS-20x140



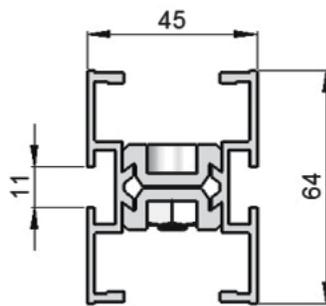
### 45 MM WIDTH

#### Conveyor Beam FKCB-3

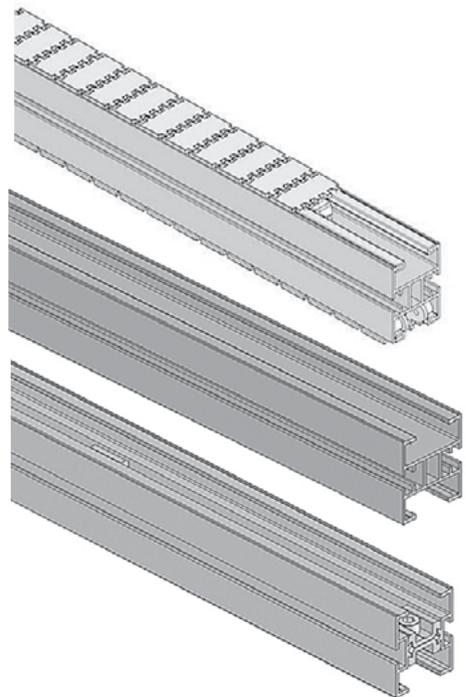


UOM: 3 Meter / Length

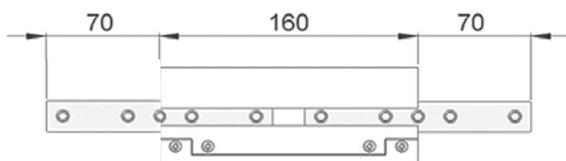
#### Conveyor Half Beam FKCB-3H



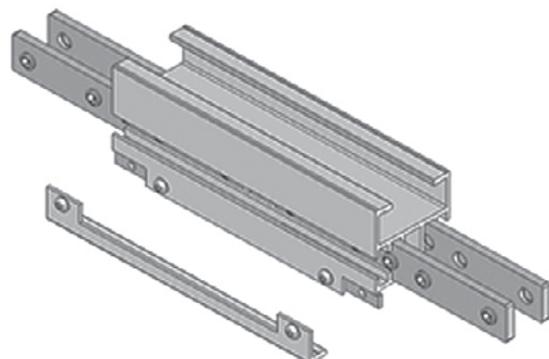
UOM: 3 Meter / Length



#### Chain Connecting Module FKCC-160



UOM: pc



## Chain Common Data

**Packaging:** 5 m per box

**Pitch:** 25.4 mm

**Width:** 44 mm

Tensile Strength at 20° C: 4000N

**Color:** White & Black (Conductive)

### Material:

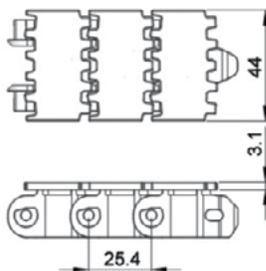
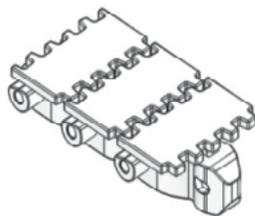
**Chain:** White Acetal / POM

**Pivot:** Polyamide

**Pivot Pin:** Stainless Steel

**Insert (Wedge & Friction):** TPE Grey

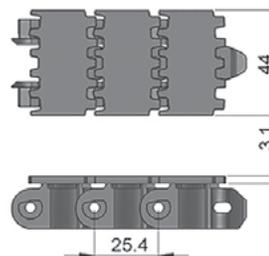
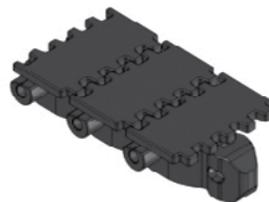
## Standard Plain Chain **FKPC-5**



**UOM: 5 Meter / box**

Application: Suitable for horizontal and slope < 5° transport of products with accumulation.

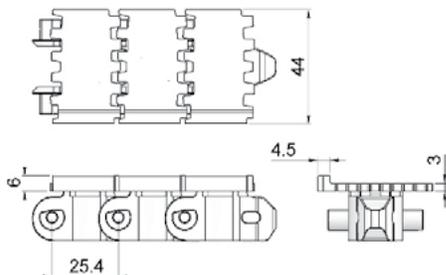
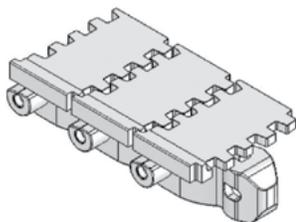
## Conductive Chain **FKPC-5CD**



**UOM: 5 Meter / box**

Application: Suitable for transport of static sensitive product.

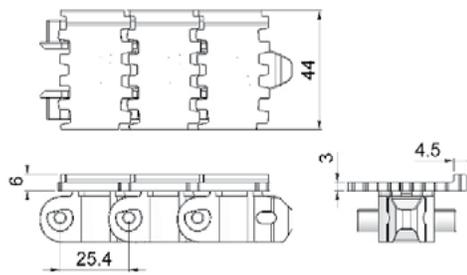
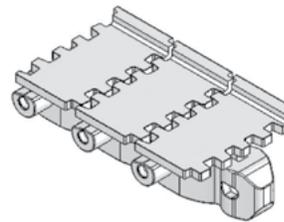
## Wedge Top Chain Right **FKWT-5PR**



**UOM: 5 Meter / box**

Application: Suitable for PET bottle transport.

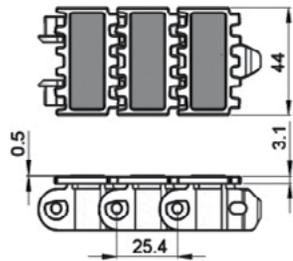
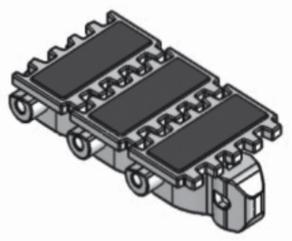
## Wedge Top Chain Left **FKWT-5PL**



**UOM: 5 Meter / box**

Application: Suitable for PET bottle transport.

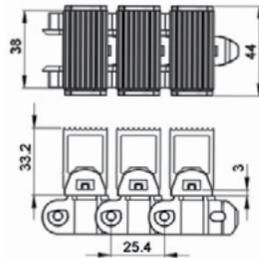
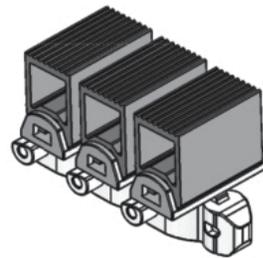
## Friction Top Chain **FKFT-5**



**UOM: 5 Meter / box**

Application: Suitable for transport product in slope  $> 5^\circ$  but  $\leq 30^\circ$  without accumulation.

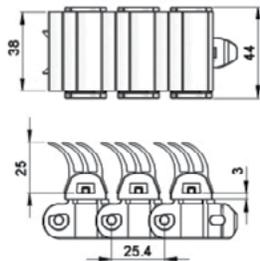
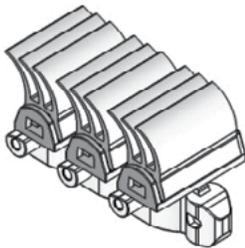
## Wedge Top Chain **FKWT-5C**



**UOM: 5 Meter / box**

Application: Vertical Wedge transportation of products.

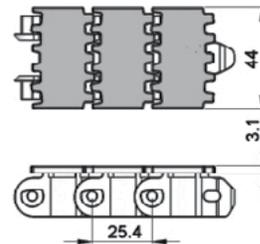
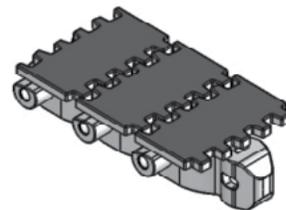
## Wedge Top Chain **FKWT-5D**



**UOM: 5 Meter / box**

Application: Vertical Wedge transportation of products.

## Flocked Chain **FKFK-5**

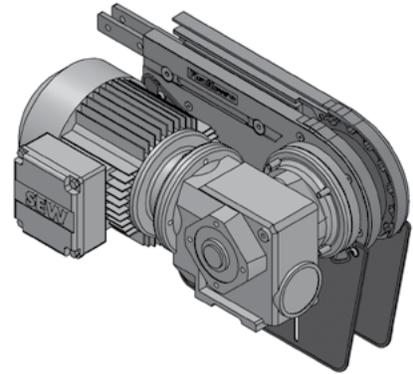
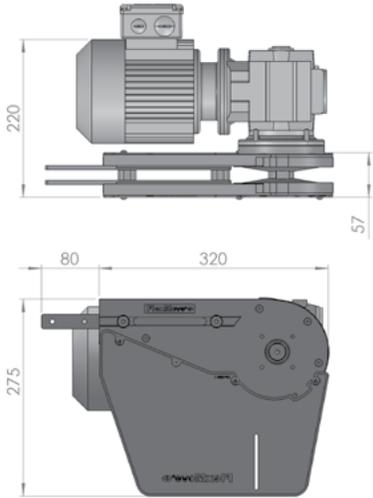
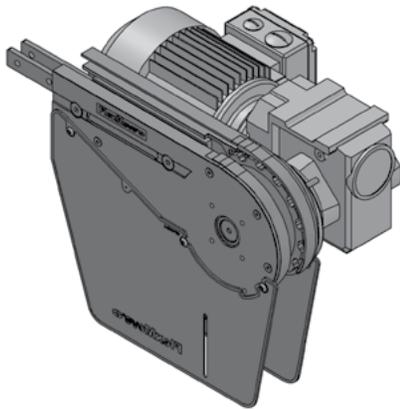


**UOM: 5 Meter / box**

Application: Suitable to transport lightweight, fragile and scratch sensitive product.

**FK Direct End Drive without Motor (LEFT)**  
FKDD-A45-XDY (See Chart)

**FK Direct End Drive without Motor (RIGHT)**  
FKDD-A45-XDY (See Chart)



Note: Drive Module is 12 mm wider than conveyor frame.

| Part Number |   | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|---|--------------------|-----------|----------------------|
| FKDD-A45    | - | X                  | D         | Y                    |
|             |   | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             |   | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             |   | A = 20 mm Aux Only |           |                      |

**Max Traction Force: 500N**

The Direct End Drive Unit is without torque limiter.

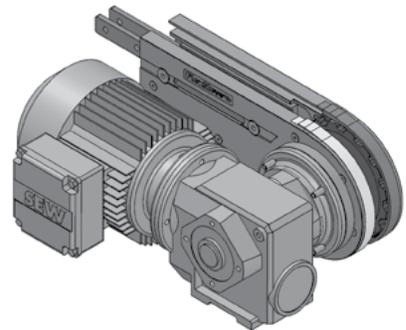
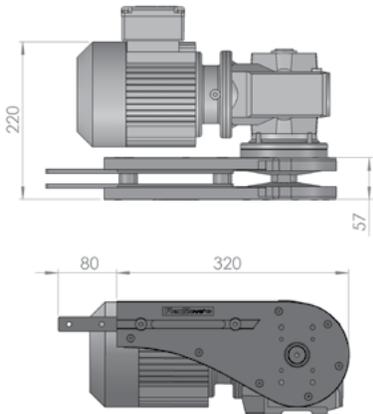
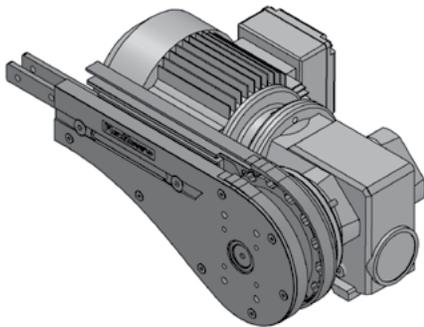
**UOM: pc**

Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0.5 meter

\*3/4 inch shaft option available in North America only.

**FK Direct End Drive without Motor GP (LEFT)**  
FKDD-A45GP-XDY (See Chart)

**FK Direct End Drive without Motor GP (RIGHT)**  
FKDD-A45GP-XDY (See Chart)



Note: Drive Module is 12 mm wider than conveyor frame.

| Part Number |   | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|---|--------------------|-----------|----------------------|
| FKDD-A45GP  | - | X                  | D         | Y                    |
|             |   | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             |   | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             |   | A = 20 mm Aux Only |           |                      |

**Max Traction Force: 500N**

The Direct End Drive Unit GP is without torque limiter.

**UOM: pc**

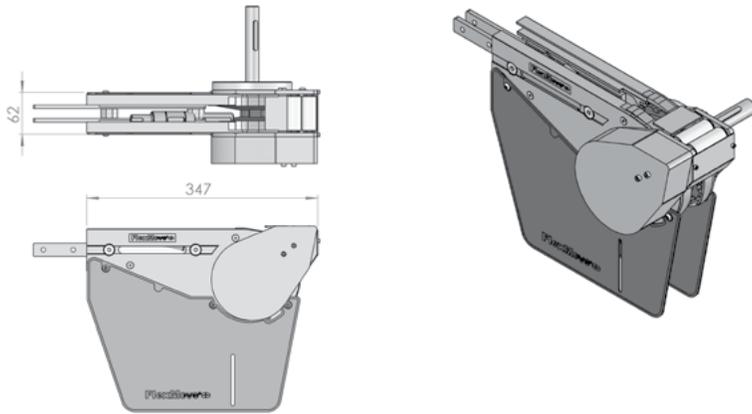
Chain required 2-way: 0.55 meter  
Slide rail required 2-way: 0 meter

\*3/4 inch shaft option available in North America only.

SEW gearmotors are products of SEW Eurodrive

### FK Direct Drive Driven Transfer Bridge (LEFT)

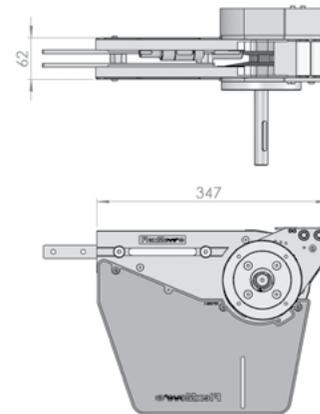
FKDD-A45DB-A-0L



Note: Drive Module is 12 mm wider than conveyor frame.

### FK Direct Drive Driven Transfer Bridge (RIGHT)

FKDD-A45DB-A-0R



#### Max Traction Force: 500N

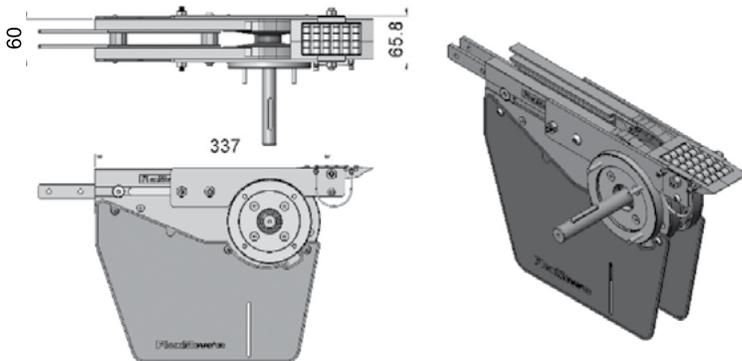
The Direct End Drive Unit is without torque limiter.

#### UOM: pc

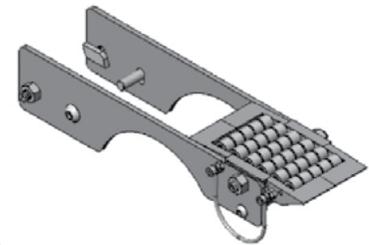
Chain required 2-way: 0.55 meter  
Slide rail required 2-way: 0 meter

### FK Direct Drive Free Roller Transfer Bridge (LEFT/ RIGHT)

FKTB-A45



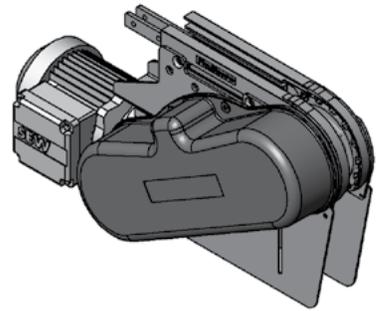
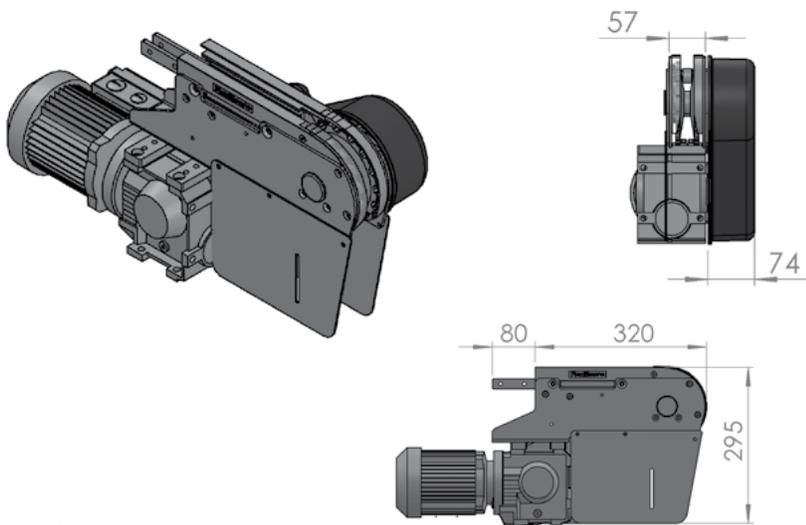
Transfer bridge c/w roller for FSIE-A45  
Transfer bridge c/w roller for FSDD-A45-0L  
Transfer bridge c/w roller for FSDD-A45-0R



UOM: pc

**FK Suspended End Drive without Motor (LEFT)**  
 FKSD-A45-0L (with Torque Limiter)  
 FKSD-A45SPT-0L (without Torque Limiter)

**FK Suspended End Drive without Motor (RIGHT)**  
 FKSD-A45-0R (with Torque Limiter)  
 FKSD-A45SPT-0R (without Torque Limiter)



20 mm Shaft only.  
 Minimum product length for inline transfer = 100 mm  
 Transfer extends past conveyor only 27 mm

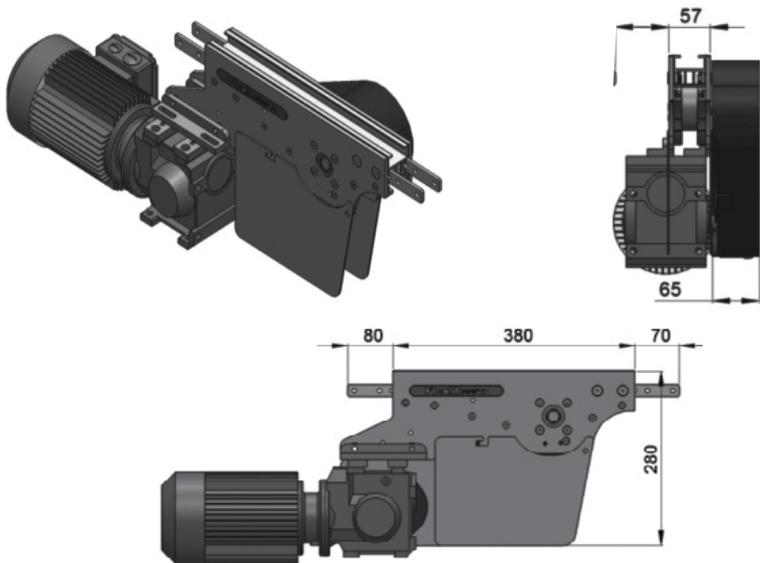
**Max Traction Force: 500N**  
 The Suspended End Drive Unit is available with or without torque limiter.

**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

Note: Drive Module is 12 mm wider than conveyor frame.

**FK Suspended Intermediate Drive without Motor (LEFT)**  
 FKID-SD-0L1

**FK Suspended Intermediate Drive without Motor (RIGHT)**  
 FKID-SD-0R1



- Located in middle of conveyor to free up drive end.
- Includes torque limiter protecting chain and motor from overload
- Limits chain pull capacity to 200N

**Max Traction Force: 200N**  
 The Suspended Intermediate Drive Unit is with torque limiter.

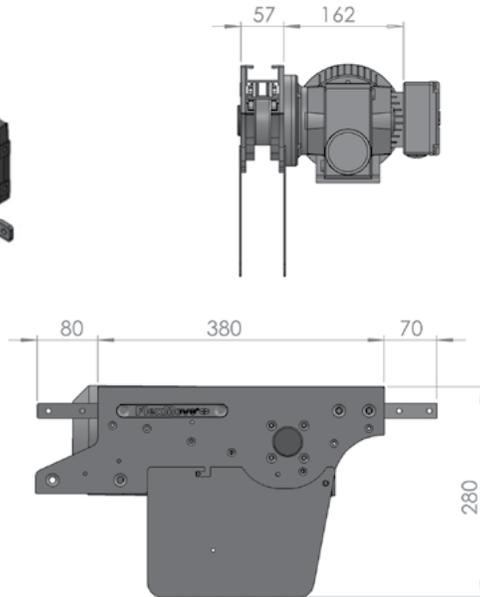
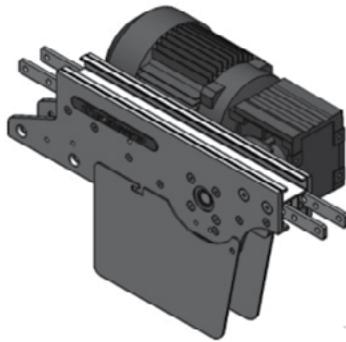
**UOM: pc**  
 Chain required 2-way: 1.2 meter  
 Slide rail required 2-way: 1.1 meter

Note: Drive Module is 12 mm wider than conveyor frame.

SEW gearmotors are products of SEW Eurodrive

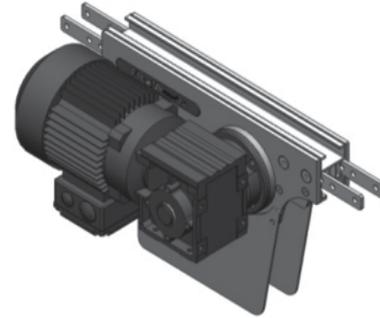
### FK Direct Intermediate Drive without Motor (LEFT)

FKID-DD-0L1



### FK Direct Intermediate Drive without Motor (RIGHT)

FKID-0R1



#### Max Traction Force: 200N

The Direct Intermediate Drive Unit is without torque limiter.

#### UOM: pc

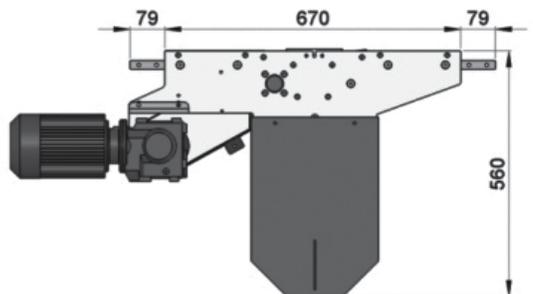
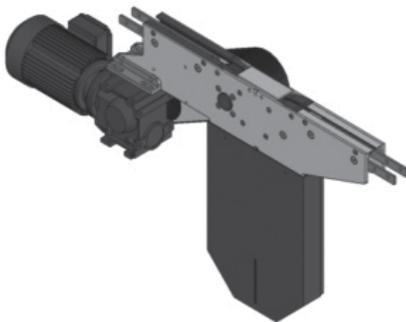
Chain required 2-way: 1.2 meter  
Slide rail required 2-way: 1.1 meter

- Located in middle of conveyor to free up drive end.
- Includes torque limiter protecting chain and motor from overload
- Limits chain pull capacity to 200N

Note: Drive Module is 12 mm wider than conveyor frame.

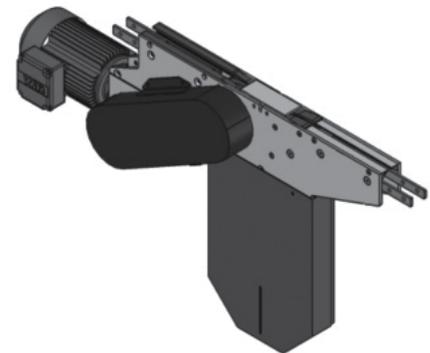
### FK Suspended Catenary Drive without Motor (LEFT)

FKCD-SD-0L



### FK Suspended Catenary Drive without Motor (RIGHT)

FKCD-SD-0R



#### Max Traction Force: 500N

The Suspended Catenary Drive Unit is with torque limiter.

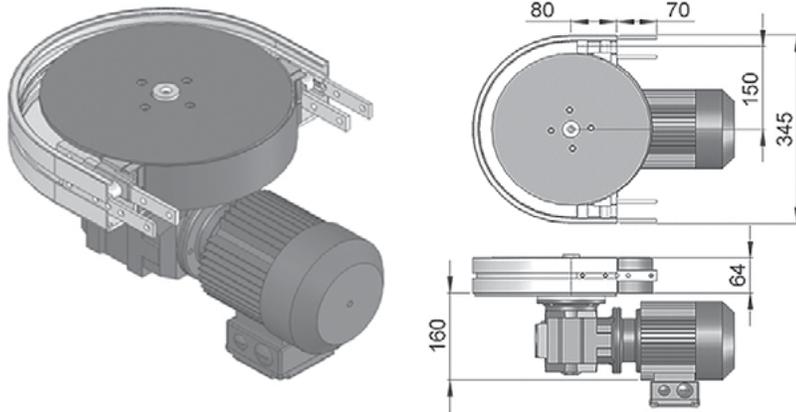
#### UOM: pc

Chain required 1-way: 1.4 meter  
Slide rail required 1-way: 1.0 meter

SEW gearmotors are products of SEW Eurodrive

## FK Direct Wheel Drive without Motor

### FKWD-DD-0M



**Max Traction Force: 200N**

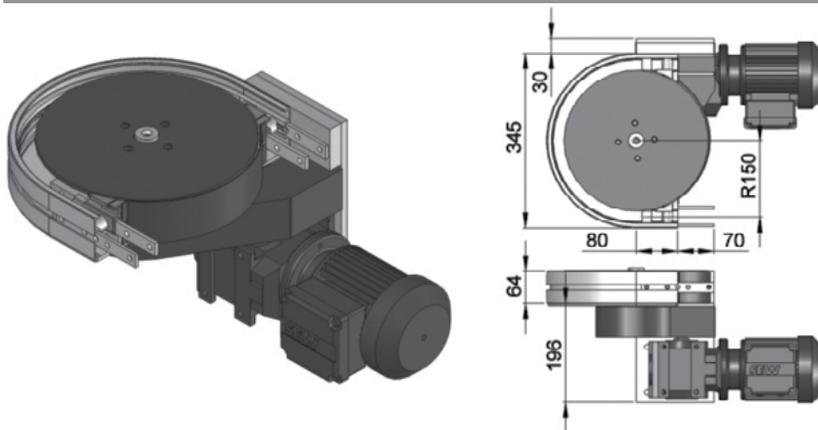
The Drive Wheel Drive Unit is without torque limiter. FKWD-DD-0M represents direct drive without gear motor. Maximum traction force for FKWD-DD is lower than FKDD and FKSD.

**UOM: pc**

Chain required 1-way: 0.7 meter  
Slide rail required 1-way: 0.7 meter

## FK Suspended Wheel Drive without Motor

### FKWD-SD-0M



**Max Traction Force: 200N**

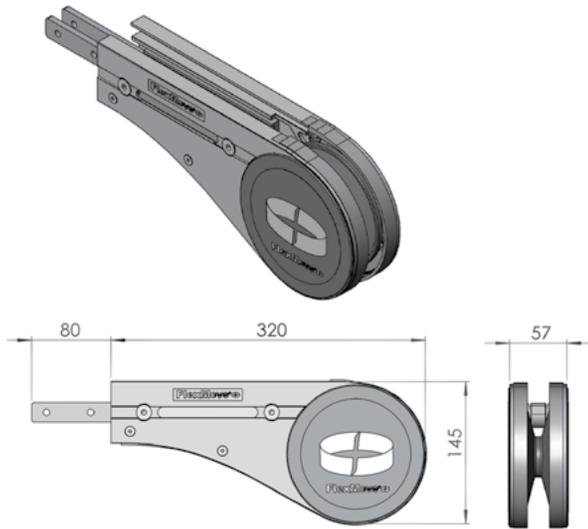
The Suspended Wheel Drive Unit is with torque limiter. FKWD-SD-0M represents direct drive without gear motor. Maximum traction force for FKWD-SD is lower than FKDD and FKSD.

**UOM: pc**

Chain required 1-way: 0.7 meter  
Slide rail required 1-way: 0.7 meter

### FK Idler End-45

FKIE-A45



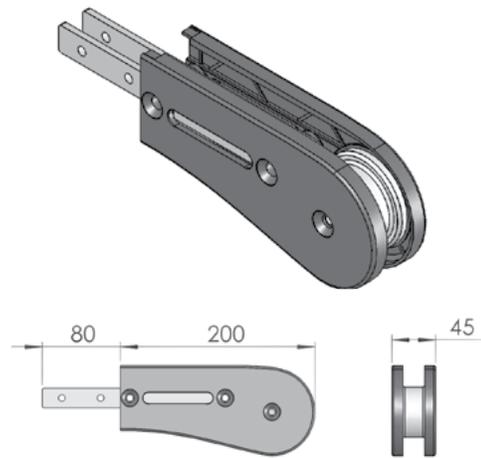
**UOM: pc**

Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0.5meter

Note: Tail is 12 mm wider than conveyor frame.

### FK Idler End-200

FKIE-200

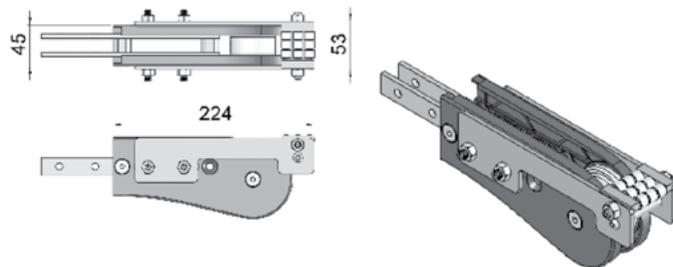


**UOM: pc**

Chain required 2-way: 0.7 meter  
Slide rail required 2-way: 0

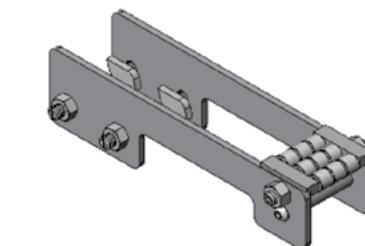
### FK Idler-200 End Free Roller Bridge

FKIE-A45EB-200



FKIE-A45-200

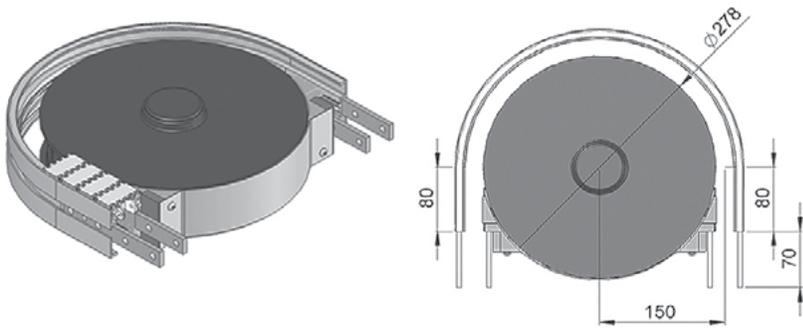
End transfer bridge c/w roller for FKIE-200



UOM: pc

**FK Wheel Bend 180°**

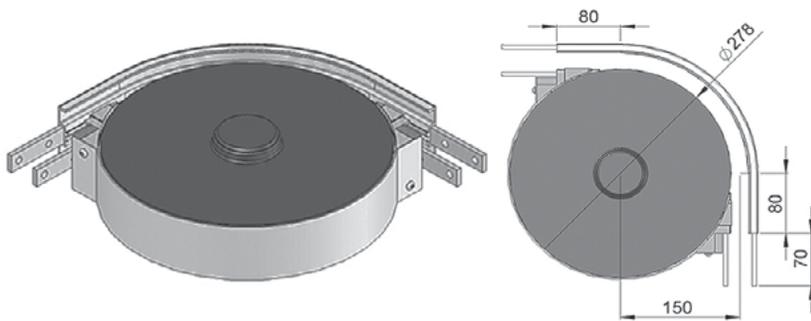
**FKWB-180R150A**



**UOM: pc**  
 Chain required 2-way: 1.3 meter  
 Slide rail required 2-way: 1.3 meter

**FK Wheel Bend 90°**

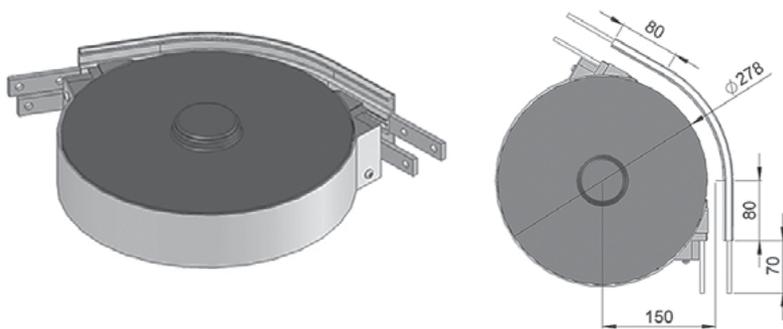
**FKWB-90R150A**



**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.8 meter

**FK Wheel Bend 60°**

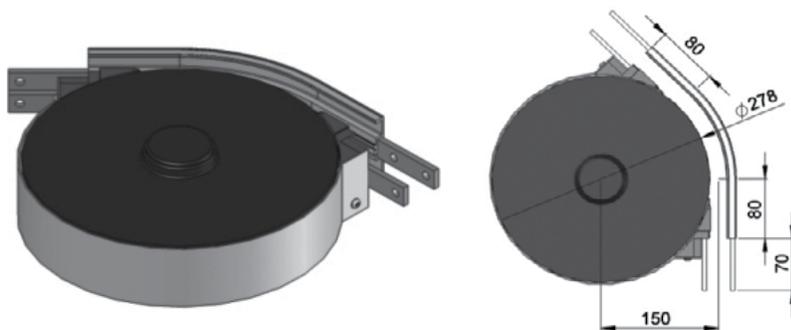
**FKWB-60R150A**



**UOM: pc**  
 Chain required 2-way: 0.6 meter  
 Slide rail required 2-way: 0.6 meter

**FK Wheel Bend 45°**

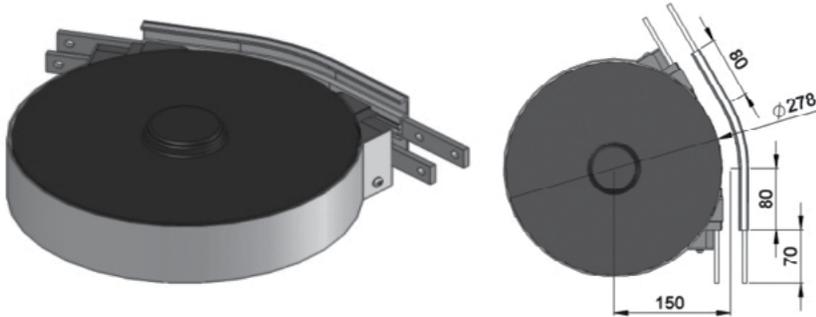
**FKWB-45R150A**



**UOM: pc**  
 Chain required 2-way: 0.6 meter  
 Slide rail required 2-way: 0.6 meter

## FK Wheel Bend 30°

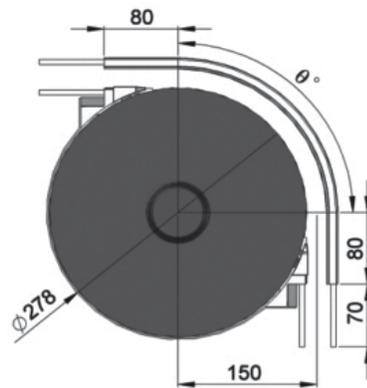
FKWB-30R150A



**UOM: pc**

Chain required 2-way: 0.5 meter  
Slide rail required 2-way: 0.5 meter

## FK Wheel Bend 5° - 180°



### Example for FK Wheel Bend Ordering

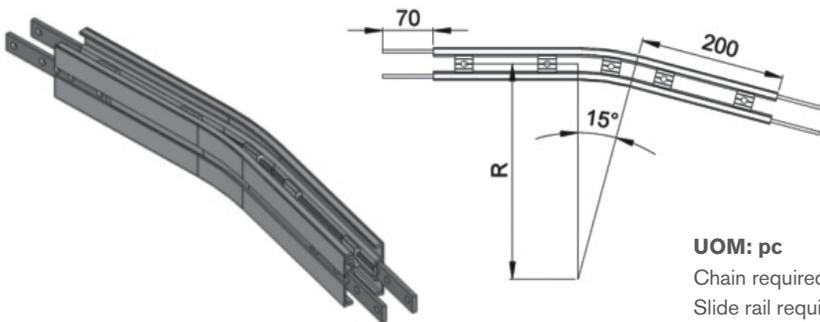
- Wheel bend,  $\varnothing^\circ \pm 1^\circ$
- FKWB- $\varnothing^\circ$ R150A

If an angle of 65° is needed for wheel bend,  
the ordering part number is

**FKWB-65R150A**

*The outer bend is assembled using connecting strip (FACS-20x140). Angle of  $\varnothing^\circ$  must be indicated when ordering.*

## FK Horizontal Plain Bend 15°



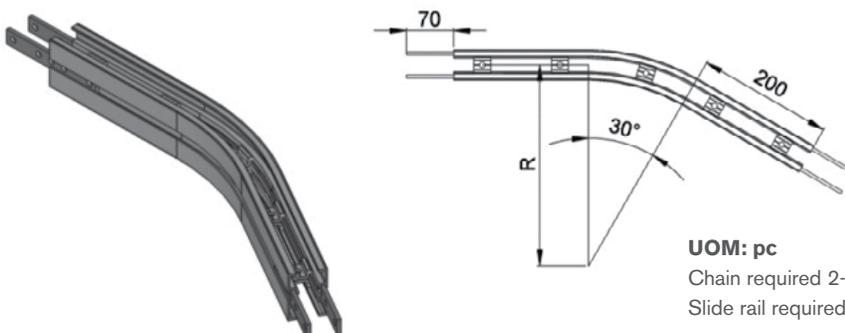
### Horizontal plain bend, 15° ± 1°

|                  |                     |
|------------------|---------------------|
| R = 300 ± 10 mm  | <b>FKHB-15R300</b>  |
| R = 500 ± 10 mm  | <b>FKHB-15R500</b>  |
| R = 700 ± 10 mm  | <b>FKHB-15R700</b>  |
| R = 1000 ± 10 mm | <b>FKHB-15R1000</b> |

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1, 1.1, 1.2, 1.3 meter  
Slide rail required 2-way (300, 500, 700, 1000): 1.9, 2.1, 2.3, 2.6 meter

## FK Horizontal Plain Bend 30°



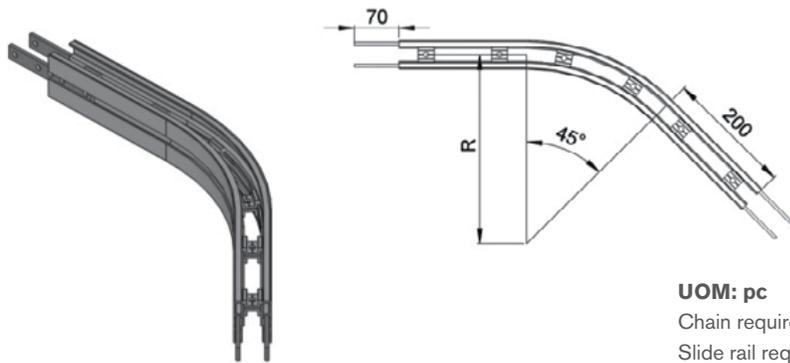
### Horizontal plain bend, 30° ± 1°

|                  |                     |
|------------------|---------------------|
| R = 300 ± 10 mm  | <b>FKHB-30R300</b>  |
| R = 500 ± 10 mm  | <b>FKHB-30R500</b>  |
| R = 700 ± 10 mm  | <b>FKHB-30R700</b>  |
| R = 1000 ± 10 mm | <b>FKHB-30R1000</b> |

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.1, 1.3, 1.5, 1.8 meter  
Slide rail required 2-way (300, 500, 700, 1000): 2.2, 2.6, 3.1, 3.7 meter

## FK Horizontal Plain Bend 45°



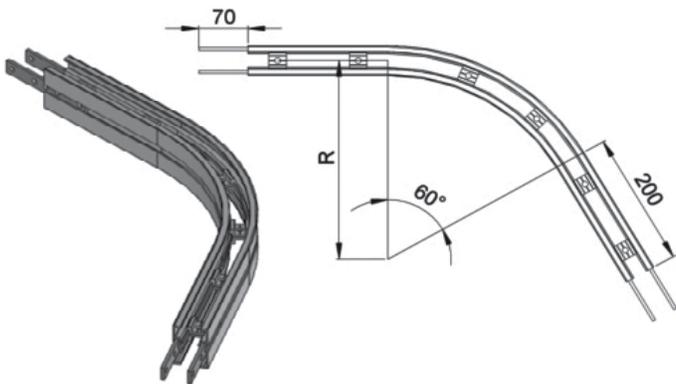
### Horizontal plain bend, 45° ± 1°

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

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.3, 1.6, 1.9, 2.4 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 2.5, 3.2, 3.8, 4.7 meter

## FK Horizontal Plain Bend 60°



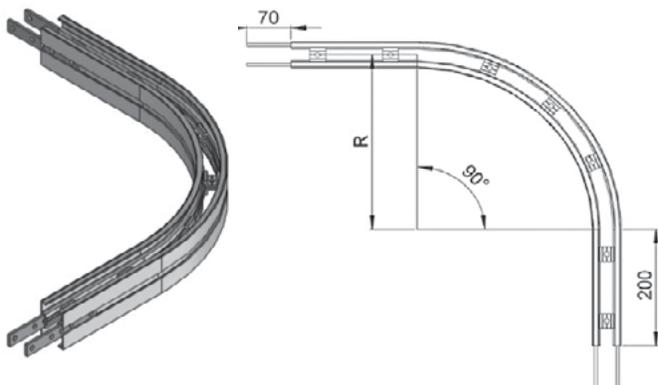
### Horizontal plain bend, 60° ± 1°

- R = 300 ± 10 mm     **FKHB-60R300**
- R = 500 ± 10 mm     **FKHB-60R500**
- R = 700 ± 10 mm     **FKHB-60R700**
- R = 1000 ± 10 mm    **FKHB-60R1000**

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.4, 1.8, 2.3, 2.9 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 2.9, 3.7, 4.5, 5.8 meter

## FK Horizontal Plain Bend 90°



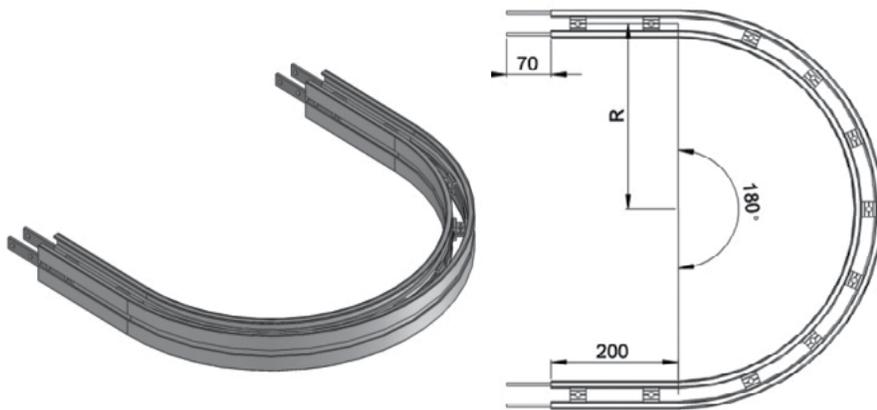
### Horizontal plain bend, 90° ± 1°

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

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1, 1.1, 1.2, 1.3 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 1.9, 2.1, 2.3, 2.6 meter

## FK Horizontal Plain Bend 180°



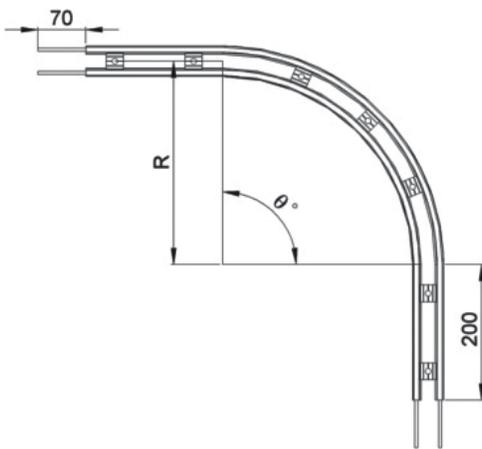
### Horizontal plain bend, 180° ± 1°

|                  |                      |
|------------------|----------------------|
| R = 300 ± 10 mm  | <b>FKHB-180R300</b>  |
| R = 500 ± 10 mm  | <b>FKHB-180R500</b>  |
| R = 700 ± 10 mm  | <b>FKHB-180R700</b>  |
| R = 1000 ± 10 mm | <b>FKHB-180R1000</b> |

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 2.7, 3.9, 5.2, 7.1 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 5.4, 7.9, 10.4, 14.2 meter

## FK Horizontal Plain Bend 5-180°



### Example for FK Horizontal Plain Bend Ordering

#### Horizontal plain bend, Ø° ± 1°

|                  |                      |
|------------------|----------------------|
| R = 300 ± 10 mm  | <b>FKHB- Ø°R300</b>  |
| R = 500 ± 10 mm  | <b>FKHB- Ø°R500</b>  |
| R = 700 ± 10 mm  | <b>FKHB- Ø°R700</b>  |
| R = 1000 ± 10 mm | <b>FKHB- Ø°R1000</b> |

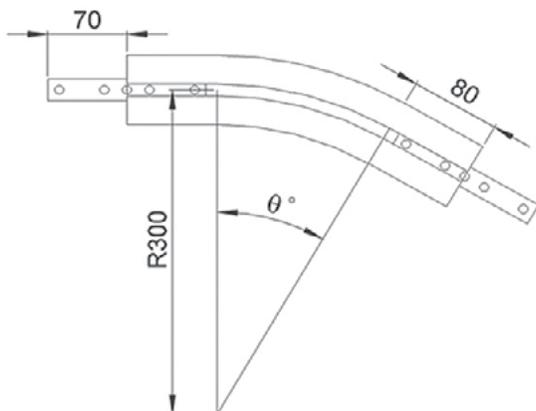
If an angle of 120° is needed for radius R500 horizontal plain bend, the ordering part number is

### **FKHB-120R500**

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): meter (Variable to angle)  
 Slide rail required 2-way (300, 500, 700, 1000): meter (Variable to angle)

## FK Vertical Bend 5° - 90°



### Example for FK Vertical Bend Ordering

- Vertical bend, Ø° ± 1°
- **FKVB-Ø°R300**

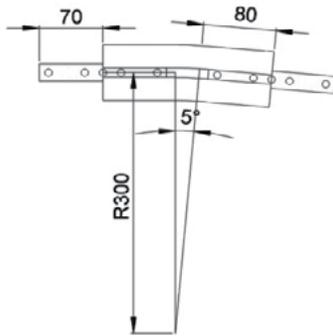
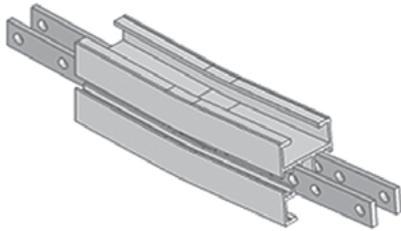
If an angle of 65° is needed for vertical bend, the ordering part number is

### **FKVB-65R300**

*The outer bend is assembled using connecting strip (FACS-20x140). Angle of Ø° must be indicated when ordering.*

**FK Vertical Bend 5°**

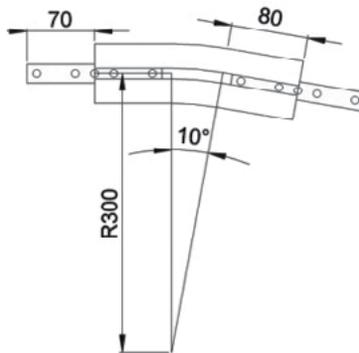
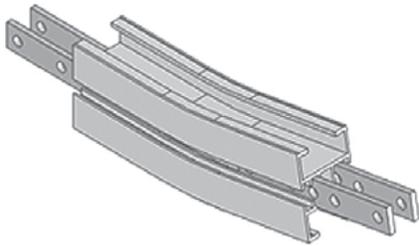
**FKVB-5R300**



**UOM: pc**  
 Chain required 2-way: 0.4 meter  
 Slide rail required 2-way: 0.7 meter

**FK Vertical Bend 10°**

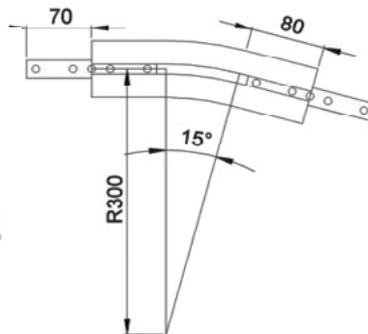
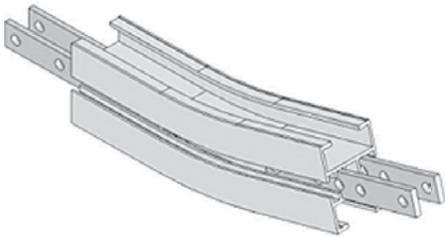
**FKVB-10R300**



**UOM: pc**  
 Chain required 2-way: 0.4 meter  
 Slide rail required 2-way: 0.8 meter

**FK Vertical Bend 15°**

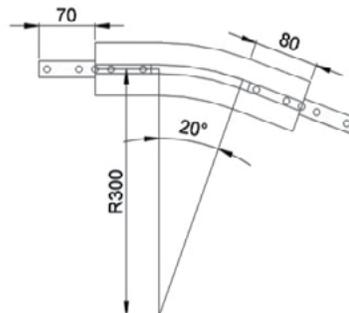
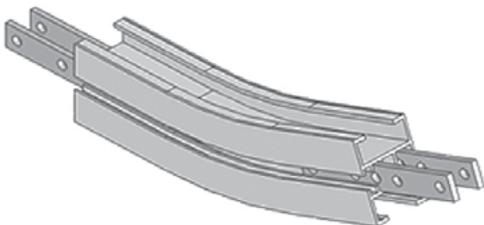
**FKVB-15R300**



**UOM: pc**  
 Chain required 2-way: 0.5 meter  
 Slide rail required 2-way: 1.0 meter

**FK Vertical Bend 20°**

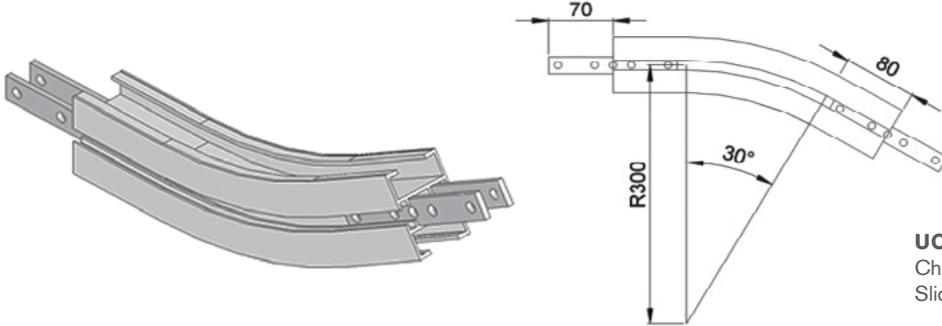
**FKVB-20R300**



**UOM: pc**  
 Chain required 2-way: 0.5 meter  
 Slide rail required 2-way: 1.1 meter

## FK Vertical Bend 30°

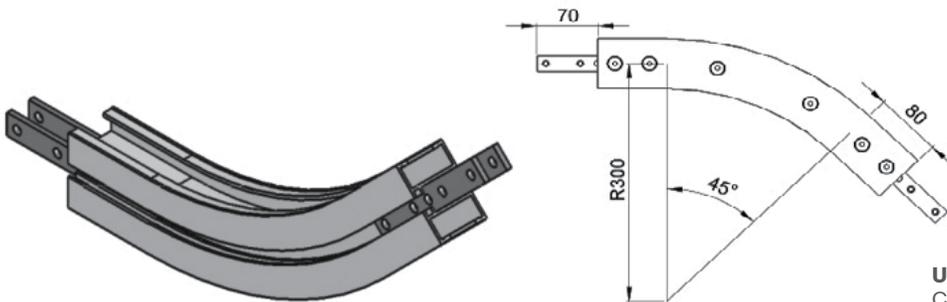
FKVB-30R300



**UOM: pc**  
 Chain required 2-way: 0.6 meter  
 Slide rail required 2-way: 1.3 meter

## FK Vertical Bend 45°

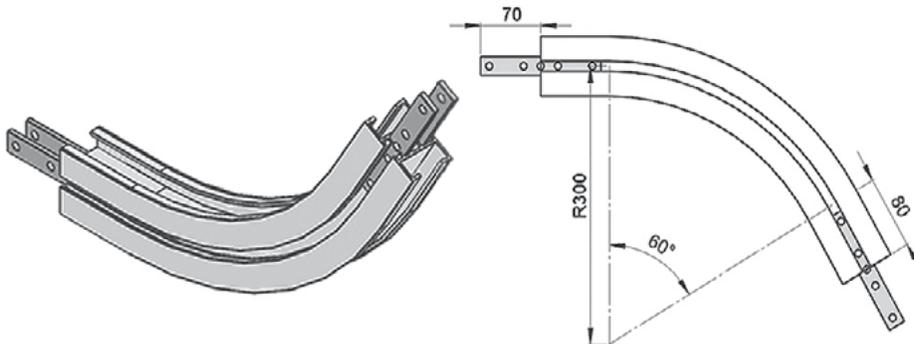
FKVB-45R300



**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 1.6 meter

## FK Vertical Bend 60°

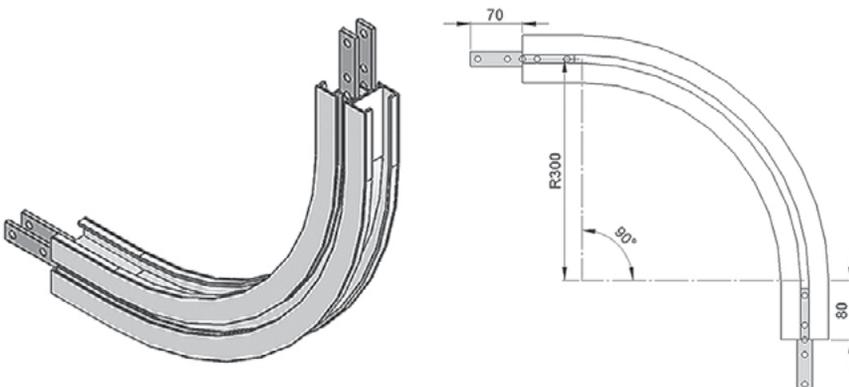
FKVB-60R300



**UOM: pc**  
 Chain required 2-way: 0.9 meter  
 Slide rail required 2-way: 1.9 meter

## FK Vertical Bend 90°

FKVB-90R300



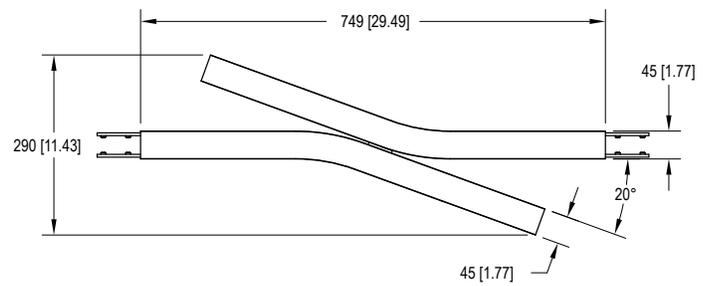
**UOM: pc**  
 Chain required 2-way: 1.3 meter  
 Slide rail required 2-way: 2.5 meter

## FK X In-Line Transfer Module

FKXT-045



- X In-Line Modules provide a standard, compact way to side transfer product from conveyor to conveyor.
- Straight guiding is placed across the transfer module for smooth In-Line product flow
- Conveyors are mounted together to provide a smooth transfer even for small products
- X In-Line transfers are compact in the length direction



Variety of chain types suitable for wide range of applications either horizontal or vertical product transportation. The maximum product width to be conveyed can be referred to guide rail assembly pages.

**FS Series Characteristic**

**Beam Width:** 65 mm

**Product Width:** Refer to Guide Rail Assembly

**Accessories Needed**

**Slide Rail Required:** FASR-25 OR FASR-25U

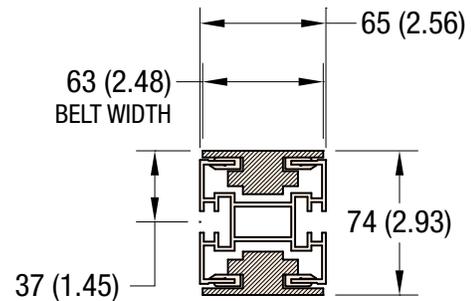
**Slide Rail Color:** White or Natural Color

**Slide Rail Material:** HDPE OR UHMW-PE

**Slide Rail Rivet & Screw:** FASLR-4X6 or FASLS-M5

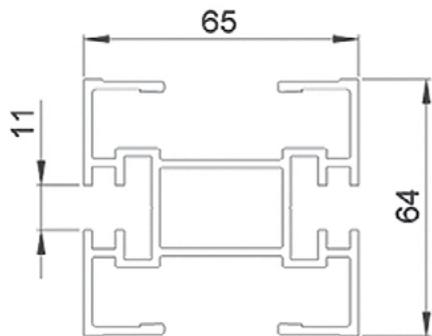
Connecting strip is used to connect two beams.

**Connecting Strip:** FACS-25x140A

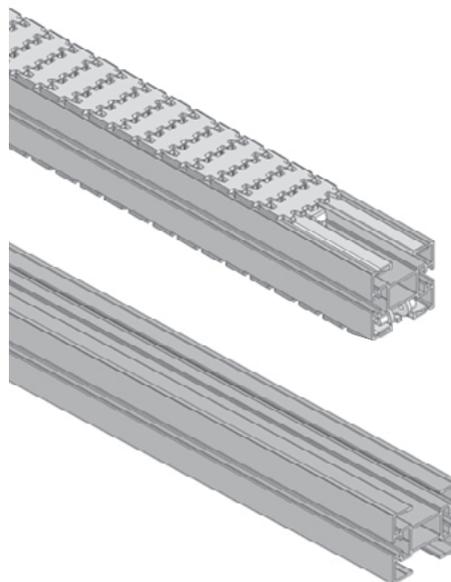


**65 MM WIDTH**

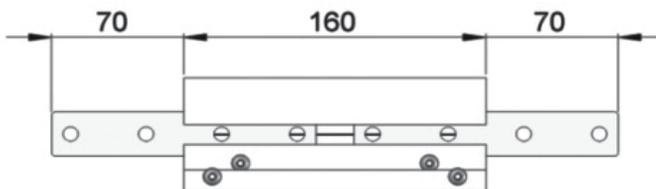
**Conveyor Beam FSCB-3**



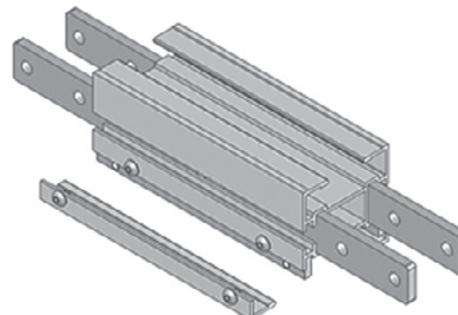
**UOM:** 3 Meter / Length



**Chain Connecting Module FSCG-160**



**UOM:** pc



## Chain Common Data

**Packaging:** 5 m per box

**Pitch:** 25.4 mm

**Width:** 63 mm

Tensile Strength at 20°C: 4000N

**Color:** White & Black (Conductive)

### Material:

**Chain:** White Acetal / POM

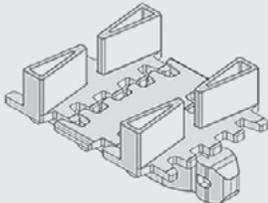
**Pivot:** Polyamide

**Pivot Pin:** Stainless Steel

**Insert (Wedge & Friction):** TPE Grey

### Example for FSCT-5A17-L#

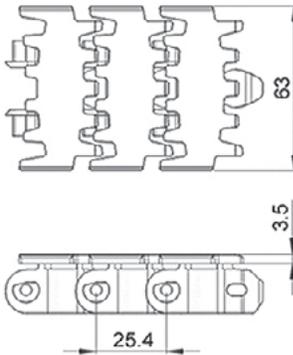
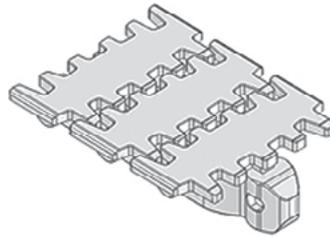
# = 1 cleated top chain with alternate of # link of plain chain



The above chain is FSCT-5A17-L1, 1 link cleated top chain with alternate of 1 link of plain chain.

**Note:** # = 1, 2, 3, 4, 5.....20

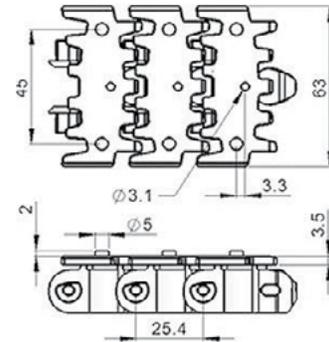
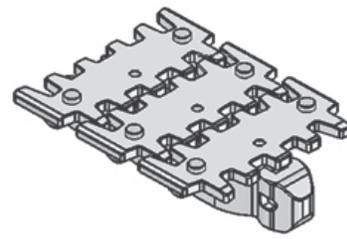
## Standard Plain Chain **FSPC-5**



**UOM: 5 Meter / box**

Application: Suitable for horizontal and slope < 5° transport of products with accumulation.

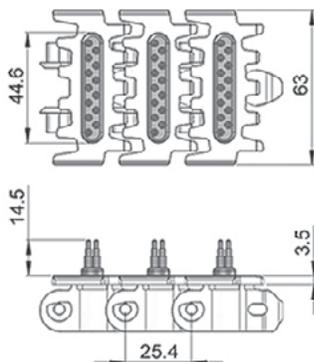
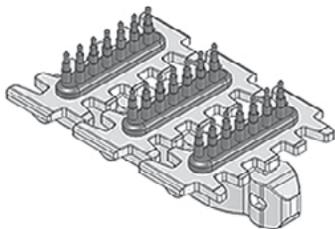
## Universal Chain **FSUC-5**



**UOM: 5 Meter / box**

Application: Universal Link with M3 Nut, Suitable for attached customer cleat or fixture

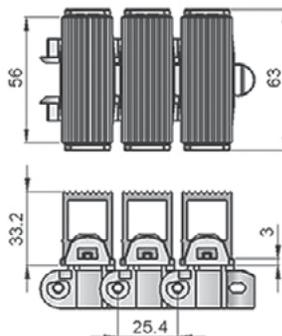
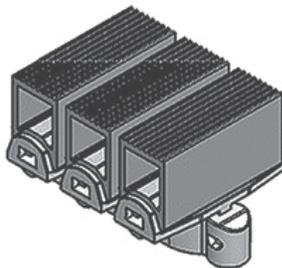
## Wedge Top Chain **FSWT-5A**



**UOM: 5 Meter / box**

Application: Vertical Wedge transportation of products.

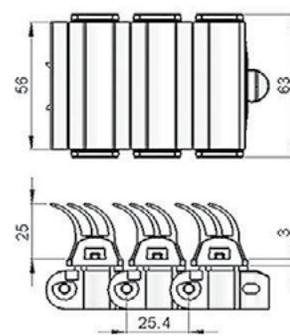
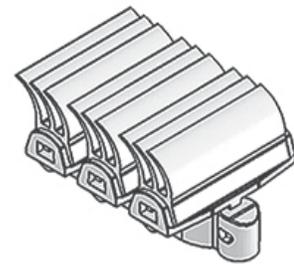
## Wedge Top Chain **FSWT-5C**



**UOM: 5 Meter / box**

Application: Vertical Wedge transportation of products. (Heavy Duty).

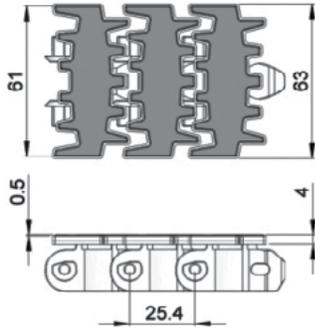
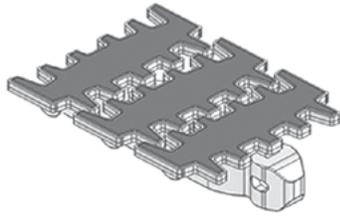
## Wedge Top Chain **FSWT-5D**



**UOM: 5 Meter / box**

Application: Vertical Wedge transportation of products.

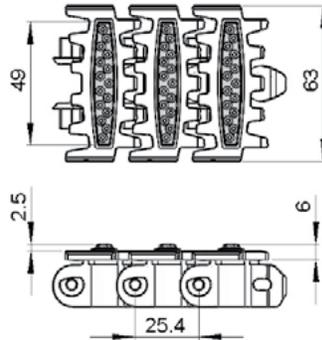
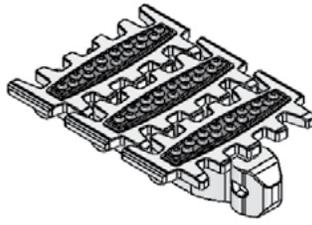
## Friction Top Chain **FSFT-5**



**UOM: 5 Meter / box**

Application: Suitable for transport product in slope  $> 5^\circ$  but  $\leq 30^\circ$  without accumulation.

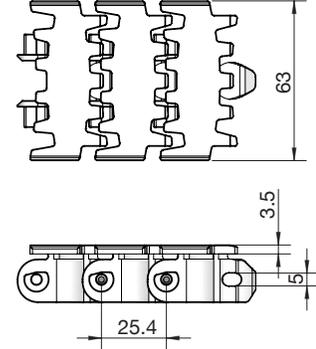
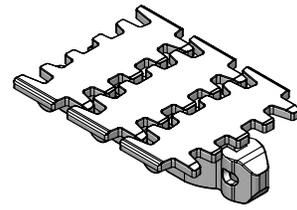
## Friction Top Chain **FSFT-5C**



**UOM: 5 Meter / box**

Application: Suitable for transport product in slope  $> 5^\circ$  but  $\leq 35^\circ$  without accumulation. Subject to product weight and packing

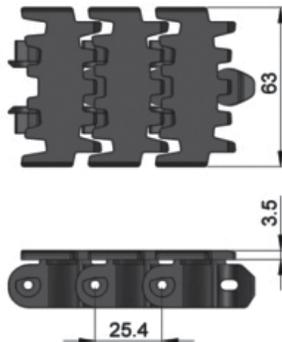
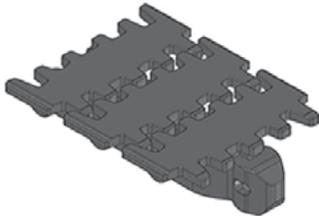
## Twist Chain **FSPC-5M**



**UOM: 5 Meter / box**

Application: Suitable twist conveyor beam; horizontal and slope  $< 5^\circ$  transport of products with accumulation

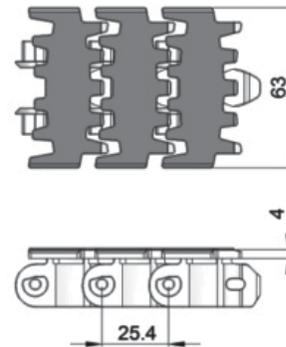
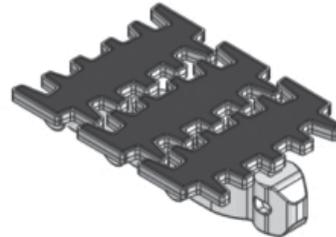
## Conductive Chain **FSPC-5CD**



**UOM: 5 Meter / box**

Application: Suitable for transport of static sensitive product.

## Flocked Chain **FSFK-5**

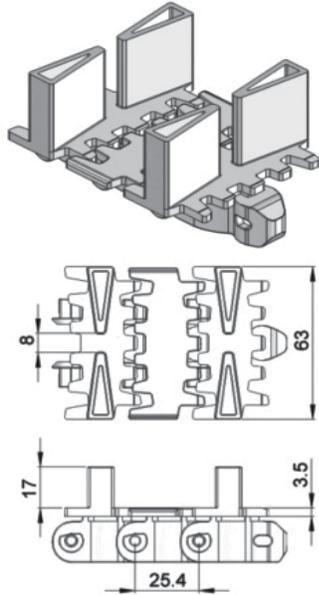


**UOM: 5 Meter / box**

Application: Suitable to transport lightweight, fragile and scratch sensitive product.

## Cleat Top Chain-A **FSCT-5A17-L#**

# = 1, 2, 3, 4, 5.....20

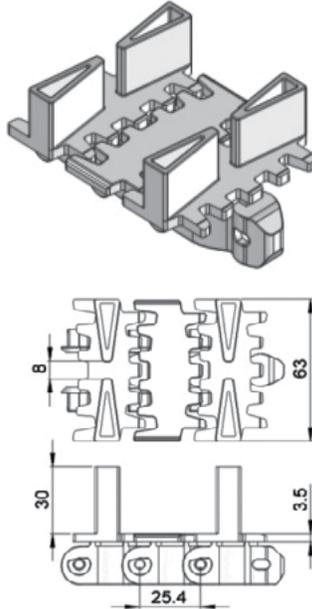


**UOM: 5 Meter / box**

Application: Suitable for vertical transport of product with no accumulation.

## Cleat Top Chain-A **FSCT-5A30-L#**

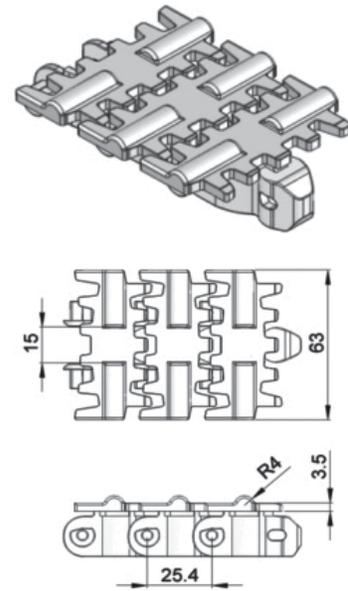
# = 1, 2, 3, 4, 5.....20



**UOM: 5 Meter / box**

Application: Suitable for vertical transport of product with no accumulation.

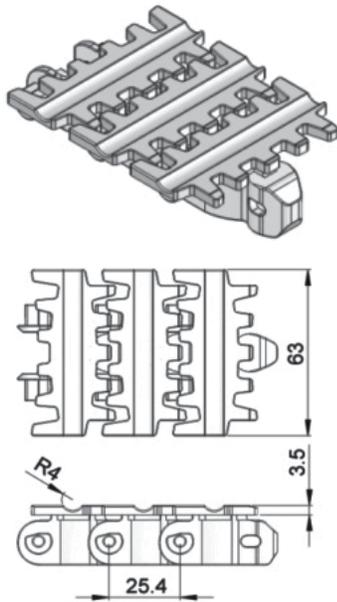
## Cleat Top Chain-B **FSCT-5B**



**UOM: 5 Meter / box**

Application: Suitable Cigarette transport.

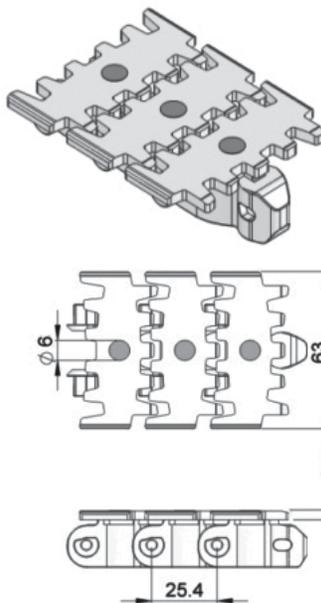
## Cleat Top Chain-C **FSCT-5C**



**UOM: 5 Meter / box**

Application: Suitable for Cigarette transport.

## Magnet Top Chain **FSMT-5**

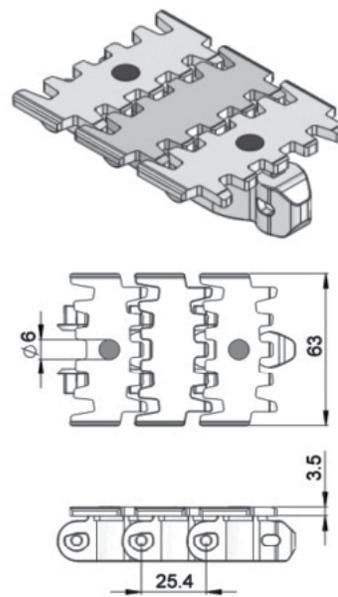


**UOM: 5 Meter / box**

Application: Suitable for conveying ferromagnetic products in slope.

## Magnet Top Chain **FSMT-5-L#**

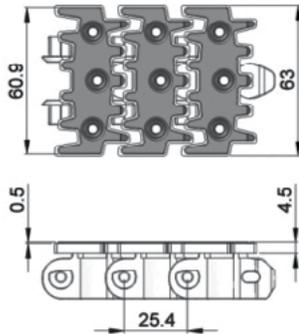
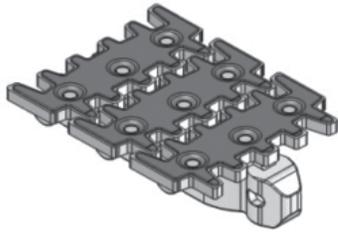
# = 1, 2, 3, 4, 5.....20



**UOM: 5 Meter / box**

Application: Suitable for conveying ferromagnetic products in slope.

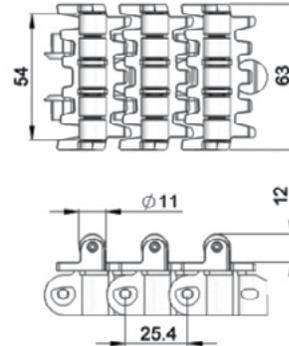
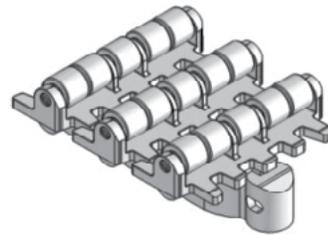
### Stainless Steel Top Chain **FSST-5S**



**UOM: 5 Meter / box**

Application: Suitable to transport metal products in accumulation.

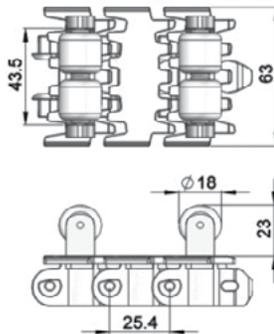
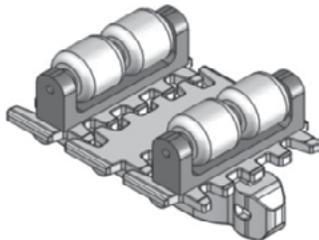
### Roller Top Chain **FSRT-5**



**UOM: 5 Meter / box**

Application: Suitable for accumulation of product with low friction and pressure.

### Roller Cleat Chain **FSRC-5A-L#**

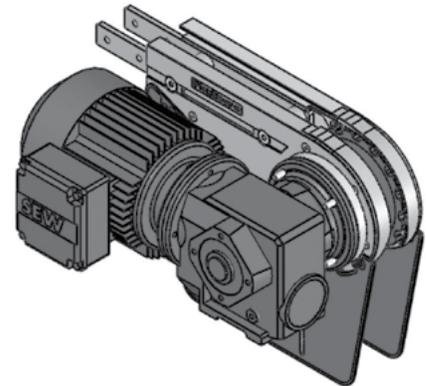
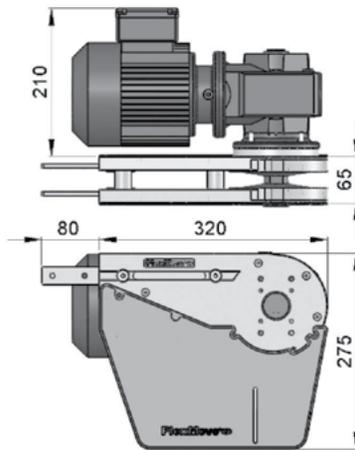
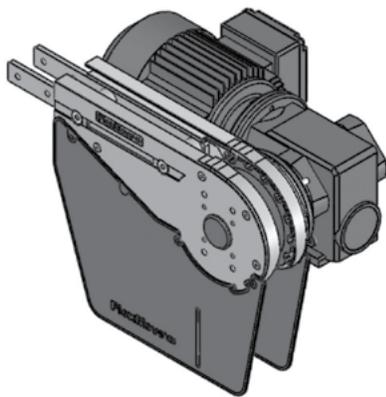


**UOM: 5 Meter / box**

Application: Suitable for vertical transportation, of product in slope with no accumulation.

**FS Direct End Drive without Motor (LEFT)**  
**FSDD-A65-XDY (See Chart)**

**FS Direct End Drive without Motor (RIGHT)**  
**FSDD-A65-XDY (See Chart)**



| Part Number |   | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|---|--------------------|-----------|----------------------|
| FSDD-A65    | - | X                  | D         | Y                    |
|             |   | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             |   | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             |   | A = 20 mm Aux Only |           |                      |

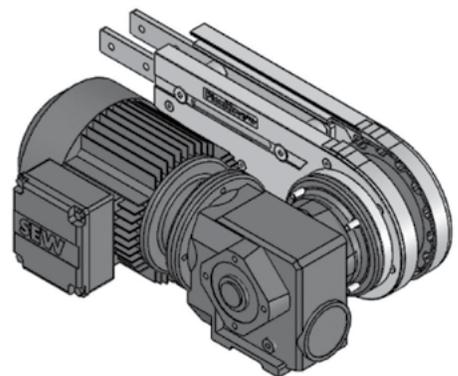
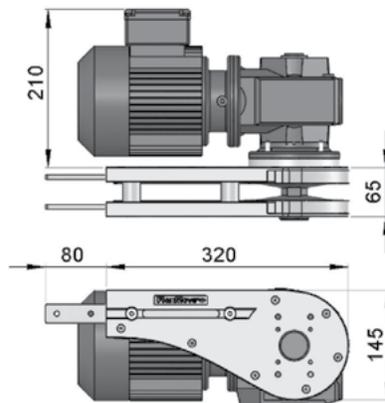
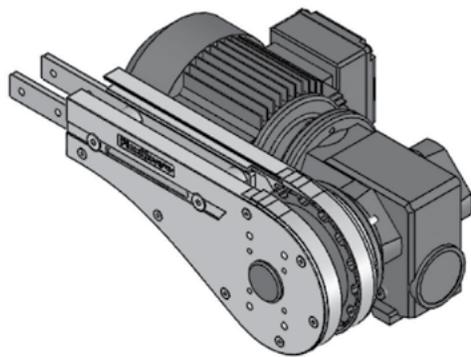
**Max Traction Force: 500N**  
 The Drive End Drive Unit is without torque limiter.

**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

\*3/4 inch shaft option available in North America only.

**FS Direct End Drive without Motor GP (LEFT)**  
**FSDD-A65GP-XDY (See Chart)**

**FS Direct End Drive without Motor GP (RIGHT)**  
**FSDD-A65GP-XDY (See Chart)**



Requires the use of connecting or weighted take-up module for chain maintenance.

| Part Number |   | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|---|--------------------|-----------|----------------------|
| FSDD-A65GP  | - | X                  | D         | Y                    |
|             |   | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             |   | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             |   | A = 20 mm Aux Only |           |                      |

**Max Traction Force: 500N**  
 The Direct End Drive Unit GP is without torque limiter.

**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

\*3/4 inch shaft option available in North America only.

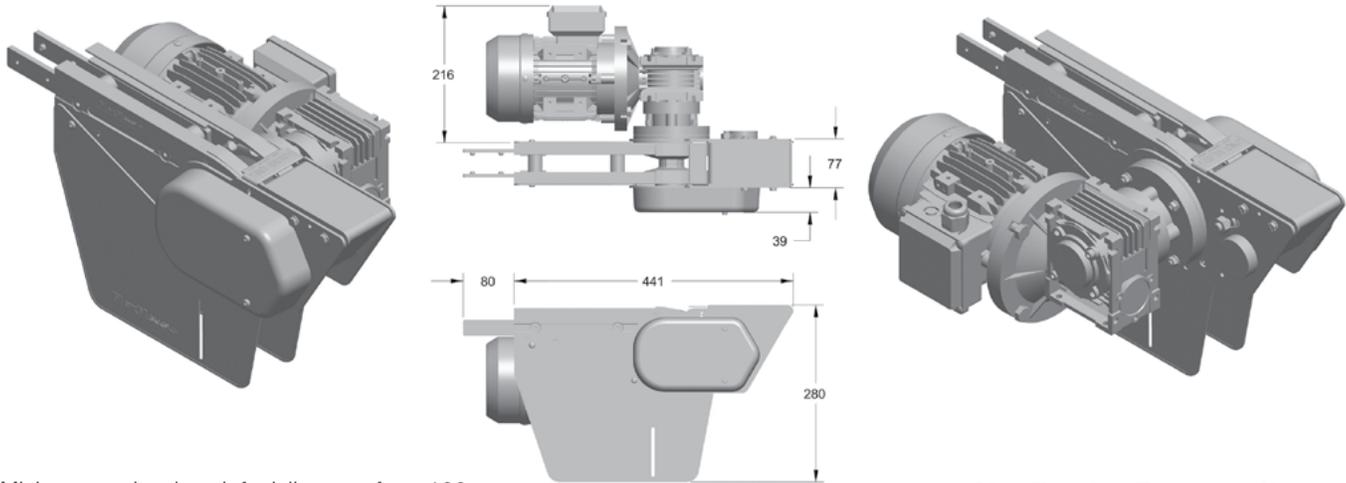
SEW gearmotors are products of SEW Eurodrive

### FS Direct with Power Transfer Motor (LEFT)

FSDD-A65PT-XD (See Chart)

### FS Direct with Power Transfer Motor (RIGHT)

FSDD-A65PT-XD (See Chart)



Minimum product length for inline transfer = 100 mm  
 Maximum speed is 30 m/min (100 ft/min)  
 Only one power transfer needed on either infeed or discharge trail required for end to end transfer.  
 Provides extended transfer nose for interfacing with large rollers.

**Max Traction Force: 500N**  
 The Drive End Drive Unit is without torque limiter.

**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

| Part Number |   | Shaft Selection | Direction |
|-------------|---|-----------------|-----------|
| FSDD-A65PT  | - | X               | D         |
|             |   | 0 = 20 mm       | L = Left  |
|             |   | E = 3/4 in*     | R = Right |

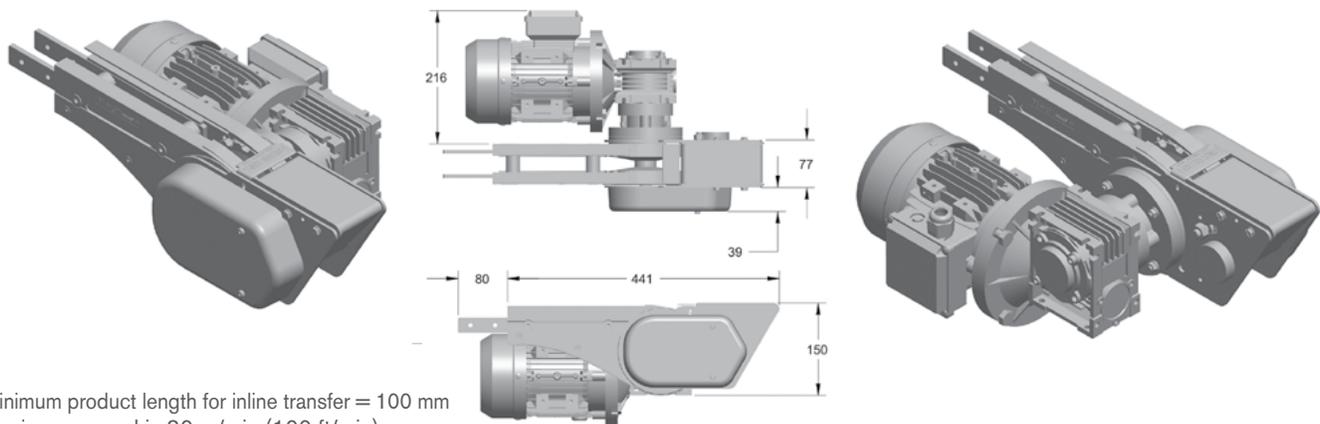
\*3/4 inch shaft option available in North America only.

### FS GP Direct with Power Transfer Motor (LEFT)

FSDD-A65GPPT-XD (See Chart)

### FS GP Direct with Power Transfer Motor (RIGHT)

FSDD-A65GPPT-XD (See Chart)



Minimum product length for inline transfer = 100 mm  
 Maximum speed is 30 m/min (100 ft/min)  
 Only one power transfer needed on either infeed or discharge trail required for end to end transfer.  
 Provides extended transfer nose for interfacing with large rollers.  
 Requires the use of connecting or weighted take-up module for chain maintenance.

**Max Traction Force: 500N**  
 The Direct End Drive Unit GP is without torque limiter.

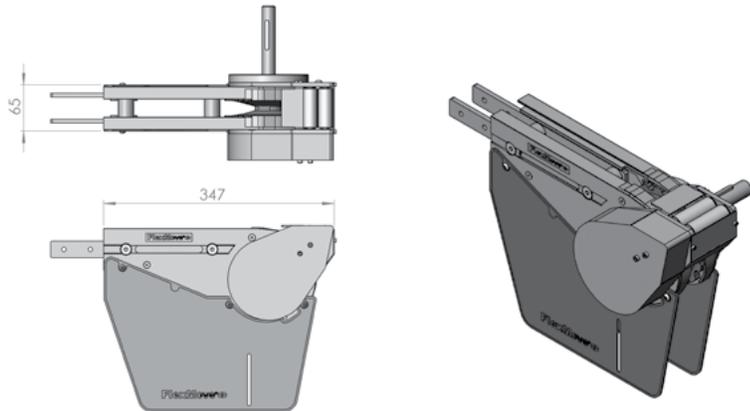
**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

| Part Number  |   | Shaft Selection | Direction |
|--------------|---|-----------------|-----------|
| FSDD-A65GPPT | - | X               | D         |
|              |   | 0 = 20 mm       | L = Left  |
|              |   | E = 3/4 in*     | R = Right |

\*3/4 inch shaft option available in North America only.

SEW gearmotors are products of SEW Eurodrive

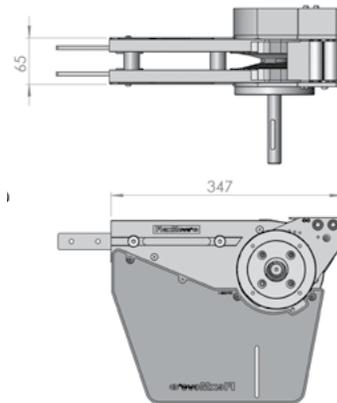
**FS Direct Drive Driven Transfer Bridge (LEFT)**  
**FSDD-A65DB-A-0L**



**UOM: pc**

20 mm Shaft only.  
 Minimum product length for inline transfer = 100 mm  
 Transfer extends past conveyor only 27 mm

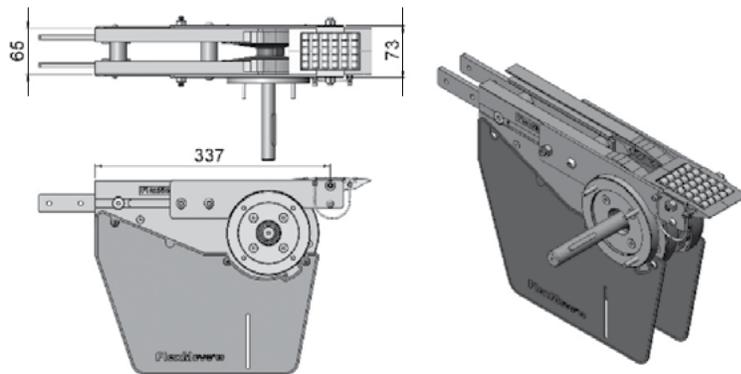
**FS Direct Drive Driven Transfer Bridge (RIGHT)**  
**FSDD-A65DB-A-0R**



**Max Traction Force: 500N**  
 The Drive End Drive Unit is without torque limiter.

**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

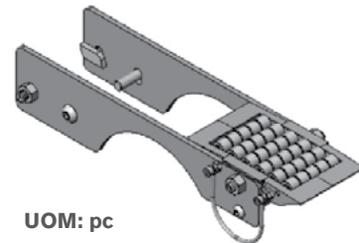
**FS Direct Drive Free Roller Transfer Bridge**



Roller transfer bridge is sold separately.

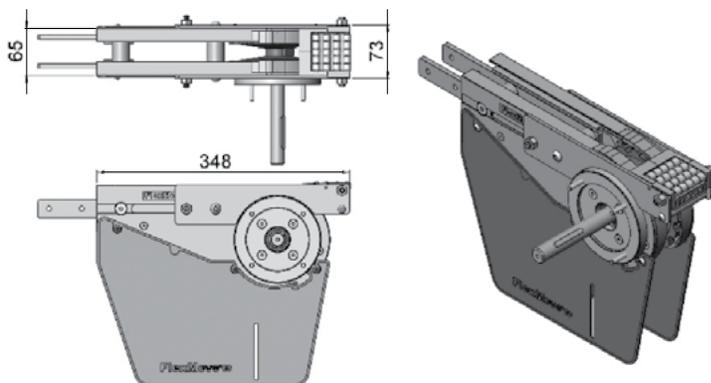
**FSTB-A65**

Transfer bridge c/w roller for FSIE-A65, FSDD-A65-XDY and FSDD-A65GP-XDY



**UOM: pc**

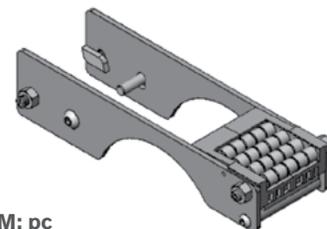
**FS Direct Drive End Free Roller Bridge (LEFT/RIGHT)**



Roller transfer bridge is sold separately.

**FSEB-A65**

End transfer bridge c/w roller for FSIE-A65, FSDD-A65-XDY and FSDD-A65GP-XDY

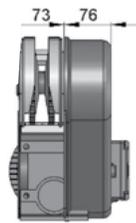
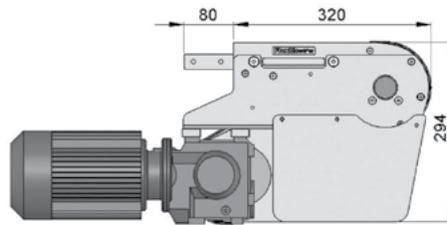
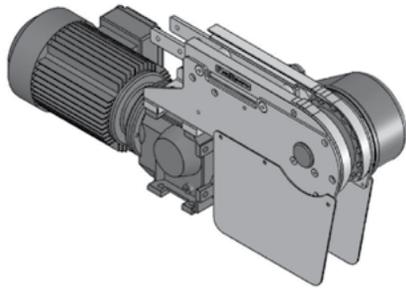


**UOM: pc**

SEW gearmotors are products of SEW Eurodrive

### FS Suspended End Drive without Motor (LEFT)

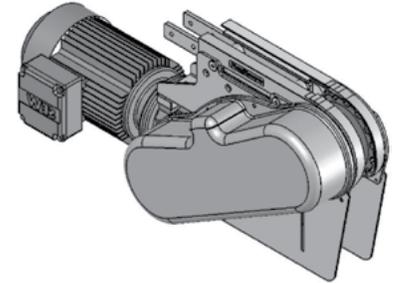
FSSD-A65-0L (with Torque Limiter)  
FSSD-A65SPT-0L (without Torque Limiter)



- Locates gearmotor below conveyor for compact applications.
- Includes torque limiter protecting chain and motor from overload.
- Maintains chain pull capacity at 500N.

### FS Suspended End Drive without Motor (RIGHT)

FSSD-A65-0R (with Torque Limiter)  
FSSD-A65SPT-0R (without Torque Limiter)



#### Max Traction Force: 500N

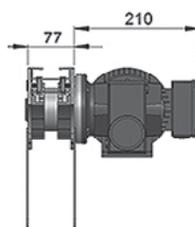
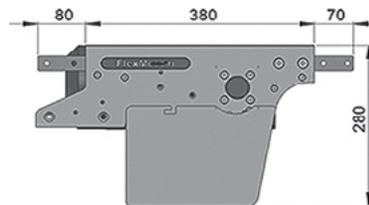
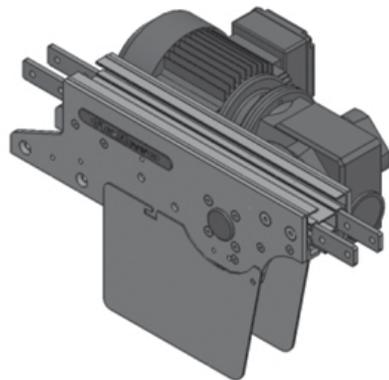
The Suspended End Drive Unit is available with and without torque limiter.

#### UOM: pc

Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0.5 meter

### FS Direct Intermediate Drive without Motor (LEFT)

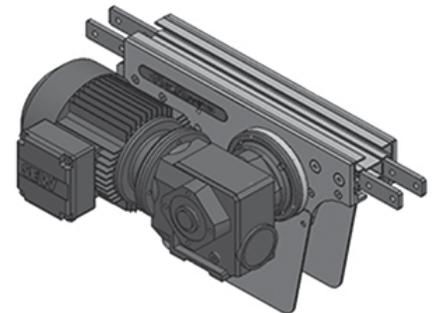
FSID-DD-0L1



Located in middle section of conveyor to free up drive end.

### FS Direct Intermediate Drive without Motor (RIGHT)

FSID-DD-0R1



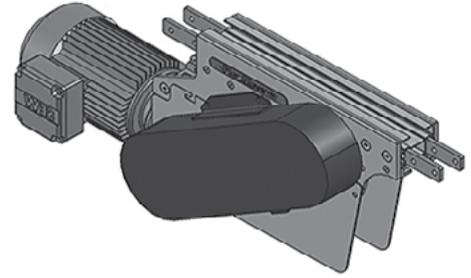
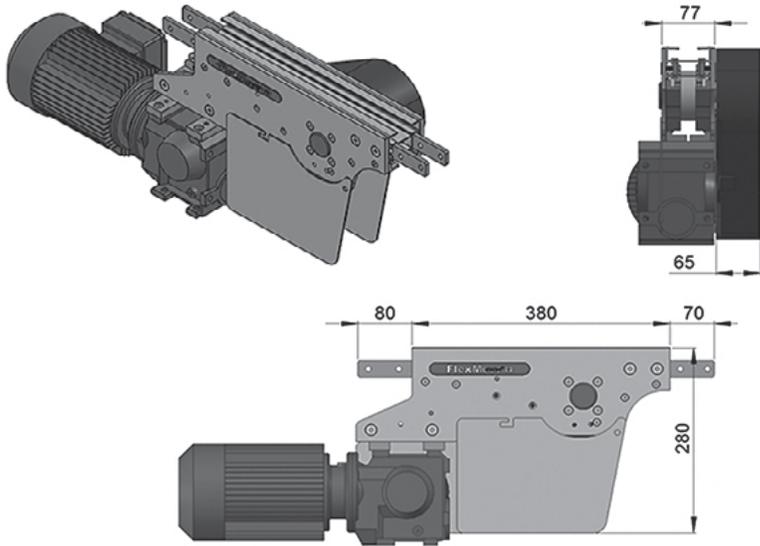
#### Max Traction Force: 200N

The Direct Intermediate Drive Unit is without torque limiter.

SEW gearmotors are products of SEW Eurodrive

FS Suspended Intermediate Drive without Motor (LEFT)  
FSID-SD-0L1

FS Suspended Intermediate Drive without Motor (RIGHT)  
FSID-SD-0R1



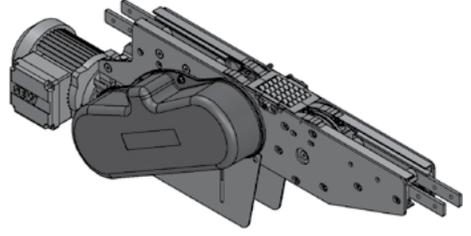
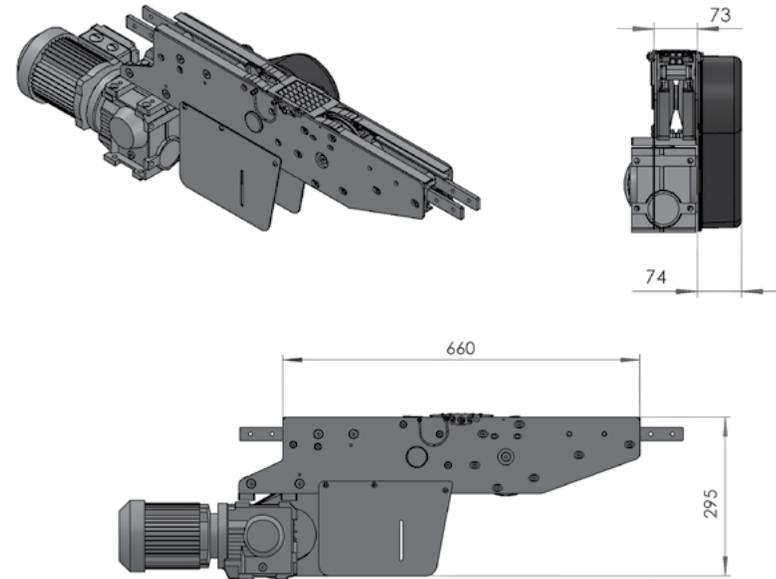
**Max Traction Force: 200N**  
The Suspended Intermediate Drive Unit is with torque limiter.

**UOM: pc**  
Chain required 2-way: 1.2 meter  
Slide rail required 2-way: 1.1 meter

- Located in middle of conveyor to free up drive end.
- Includes torque limiter protecting chain and motor from overload.
- Limits chain pull capacity at 200N.

FS Combined Suspended Drive & Idler (LEFT)  
FSCDI-SD-A65-0L

FS Combined Suspended Drive & Idler (RIGHT)  
FSCDI-SD-A65-0R



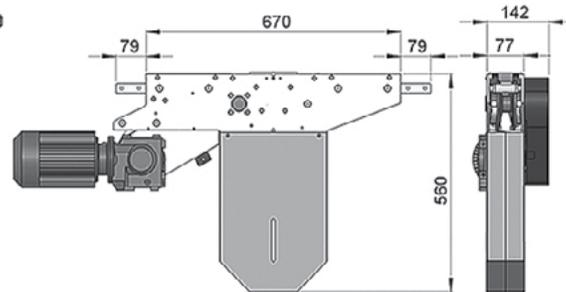
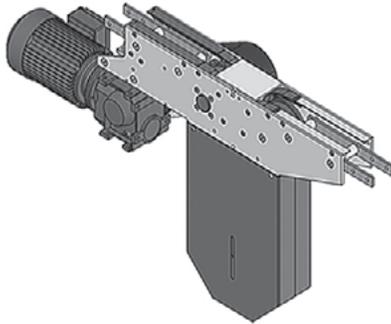
**Max Traction Force: 500N**  
The Combine Suspended End Drive Unit is with torque limiter.

**UOM: pc**  
Chain required 2-way: 1.6 meter  
Slide rail required 2-way: 1.0 meter

SEW gearmotors are products of SEW Eurodrive

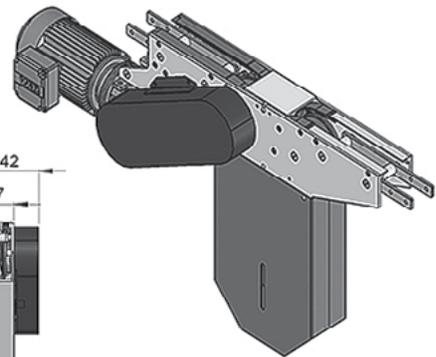
### FS Suspended Catenary Drive without Motor (LEFT)

FSCD-SD



### FS Suspended Catenary Drive without Motor (RIGHT)

FSCD-SD



#### Max Traction Force: 500N

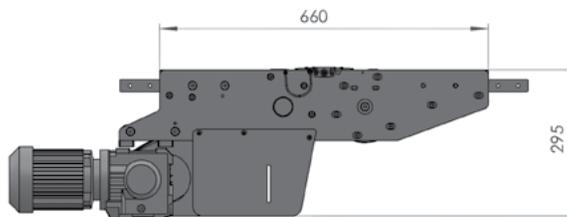
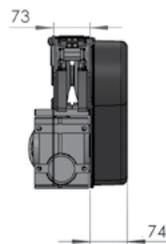
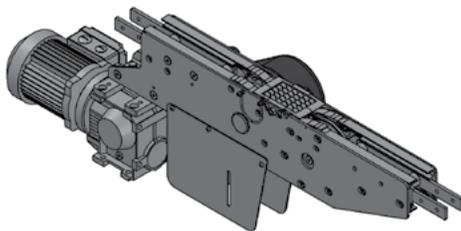
The Suspended Catenary Drive Unit is without torque limiter.

#### UOM: pc

Chain required 1-way: 1.4 meter  
Slide rail required 1-way: 1.0 meter

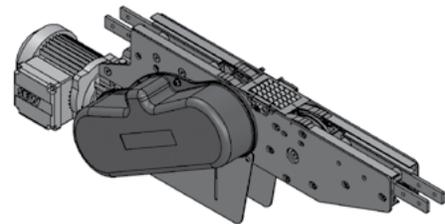
### FS Combined Direct Drive & Idler (LEFT)

FSCDI-DD-A65



### FS Combined Direct Drive & Idler (RIGHT)

FSCDI-DD-A65



#### Max Traction Force: 500N

The Combine Direct End Drive Unit is without torque limiter.

#### UOM: pc

Chain required 2-way: 1.6 meter  
Slide rail required 2-way: 1.0 meter

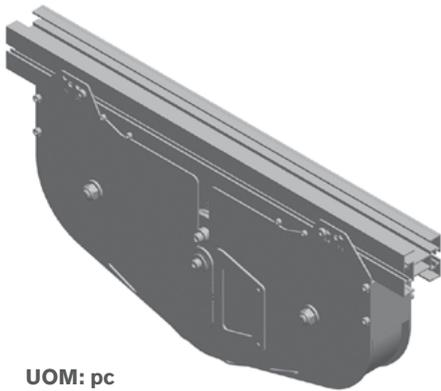
SEW gearmotors are products of SEW Eurodrive

## FS Weighted Take-up Module

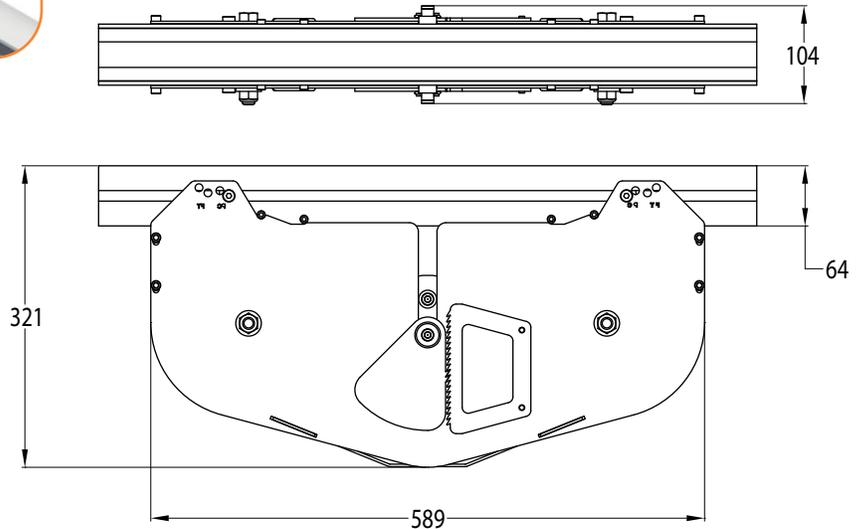
### FS-WTU-700



- Provides automatic chain stretch take-up
- Reduces noise caused from catenary tail
- Must be used with GP Drive End, sold separately
- Used on conveyors over 12 M long

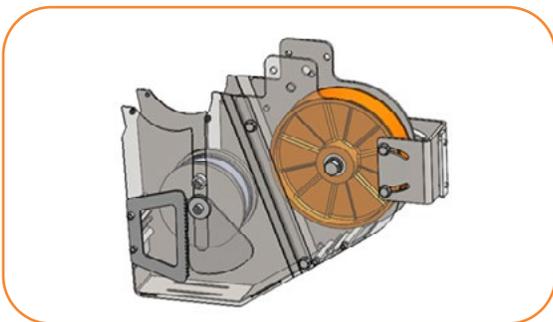


**UOM: pc**  
Chain required 1.5 meter  
Slide rail required 2.1 meter

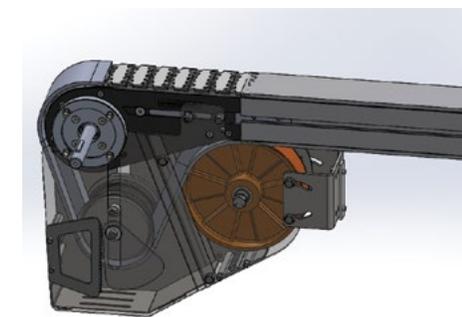


## FS Weighted Take-up Tail Module

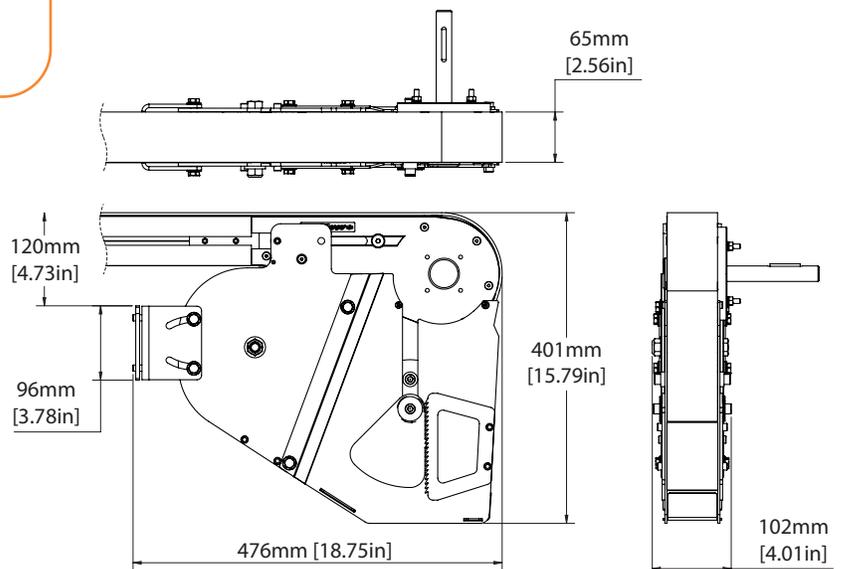
### FS-WTU-065



- Provides controlled chain take-up for improved conveyor performance
- Compact design fits in similar space as standard direct drive modules
- Smooths conveyor chain movement by helping to eliminate micro-surfing
- Suggested for conveyors over 12.2 M (40 ft) in length
- Capable of inclined and declined arrangement up to 30 degrees
- Improves operator safety by enclosing chain catenary
- Attaches to direct end drive tail
- Compatible with power transfer and driven bridge

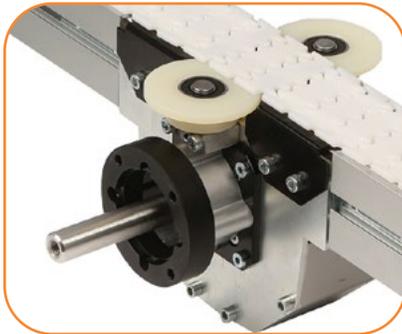


**UOM: pc**  
Chain required 1.5 meter  
Slide rail required 2.1 meter

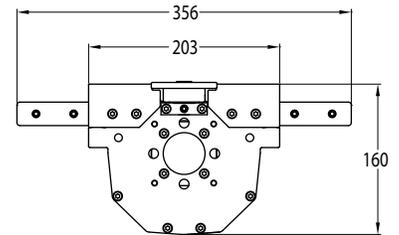
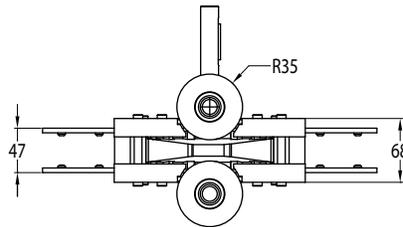
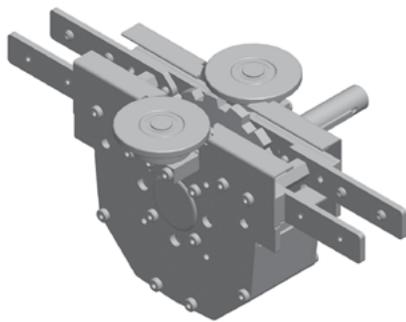


### FS Top Running Drive Module

FSTRD-203



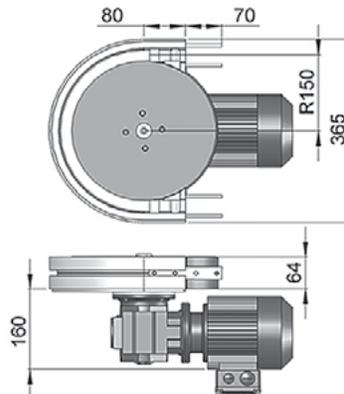
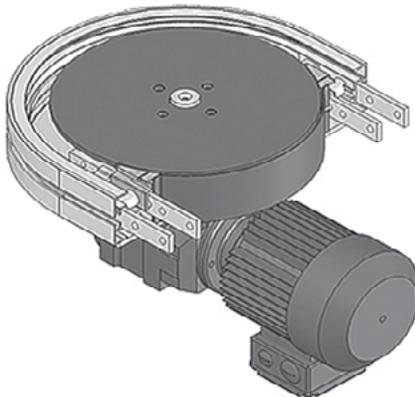
- For top running chain only
- 9M long conveyor length maximum
- 32 Kg load maximum
- Compatible with 3/4 inch shaft gearmotors only



**UOM: pc**  
Chain required 0.2 meter

### FS Direct Wheel Drive with Motor

FSWD-DD-0M



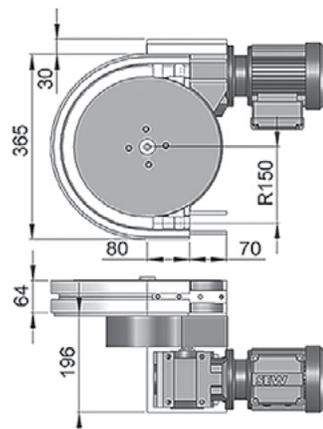
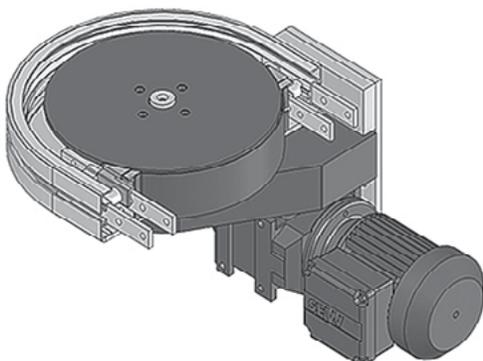
#### Max Traction Force: 200N

The Direct Wheel Drive Unit is without torque limiter. FSWD-DD-0M represents direct drive without gear motor. Maximum traction force for FSWD-DD is lower than FSDD and FSSD.

**UOM: pc**  
Chain required 1-way: 0.7 meter  
Slide rail required 1-way: 0.7 meter

### FS Suspended Wheel Drive without Motor

FSWD-SD-0M

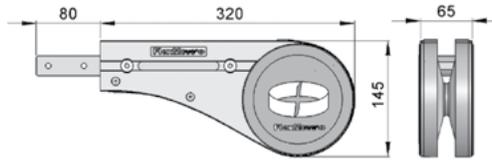
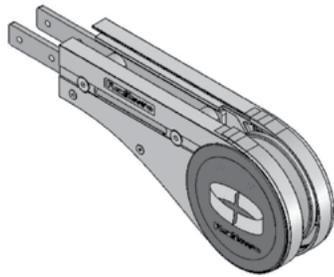


#### Max Traction Force: 200N

The Suspended Wheel Drive Unit is with torque limiter. FSWD-SD-0M represents direct drive without gear motor. Maximum traction force for FSWD-SD is lower than FSDD and FSSD.

**UOM: pc**  
Chain required 1-way: 0.7 meter  
Slide rail required 1-way: 0.7 meter

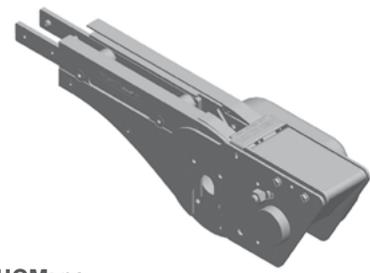
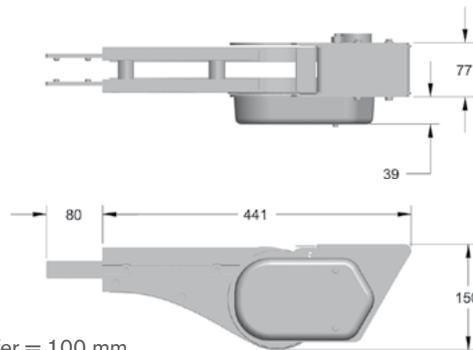
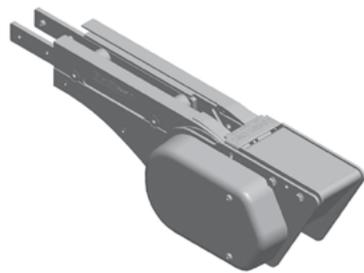
**FS Idler End-65**  
**FSIE-A65**



**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

**FS Idler End with Power Transfer (LEFT)**  
**FSIE-A65PT-L**

**FS Idler End with Power Transfer (LEFT)**  
**FSIE-A65PT-R**



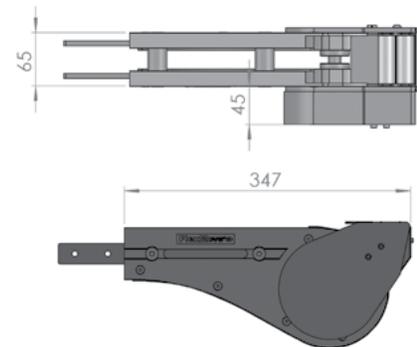
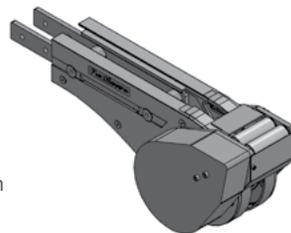
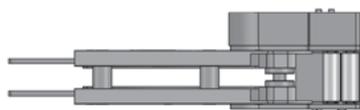
**UOM: pc**

Minimum product length for inline transfer = 100 mm  
 Provides extended transfer nose for interfacing with large rollers.

**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

**FS Idler End Driven Transfer Bridge (LEFT)**  
**FSIE-A65DB-A-L**

**FS Direct Drive Driven Transfer Bridge (RIGHT)**  
**FSIE-A65DB-A-R**

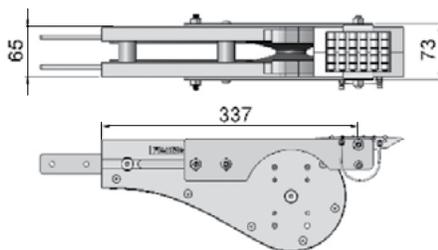


Minimum product length for inline transfer = 100 mm  
 Transfer extends past conveyor only 27 mm

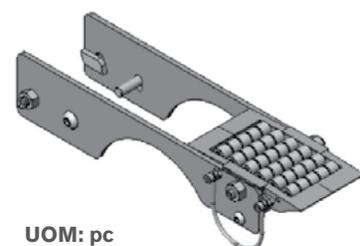
**UOM: pc**

**FS Idler Free Roller Transfer Bridge**

**FSTB-A65**



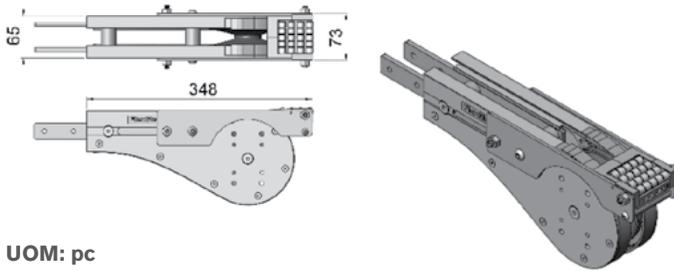
Transfer bridge c/w roller for FSIE-A65, FSDD-A65-XDY and FSDD-A65GP-XDY



Roller transfer bridge is sold separately.

**UOM: pc**  
 SEW gearmotors are products of SEW Eurodrive

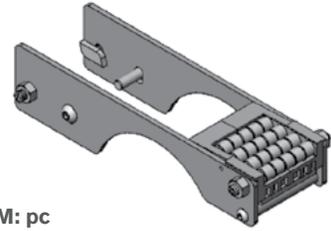
## FS Idler End Free Roller Bridge



UOM: pc

## FSEB-A65

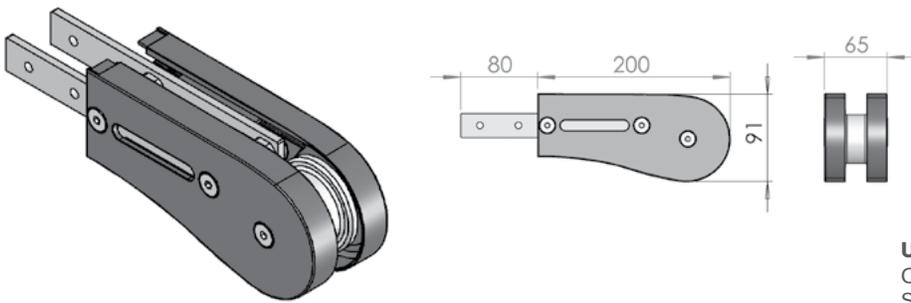
End transfer bridge c/w roller for FSIE-A65, FSDD-A65-XDY and FSDD-A65GP-XDY



UOM: pc

## FS Idler End-200

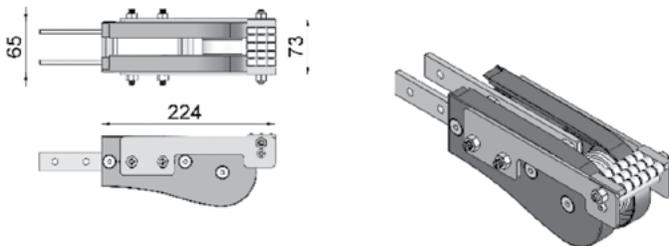
### FSIE-200



UOM: pc  
Chain required 2-way: 0.7 meter  
Slide rail required 2-way: 0

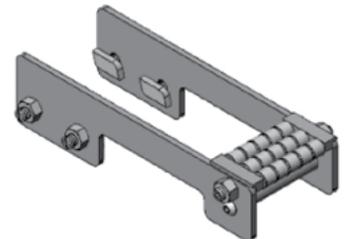
## FS Idler-200 End Free Roller Bridge

Roller transfer bridge is sold separately.



## FSEB-A65-200

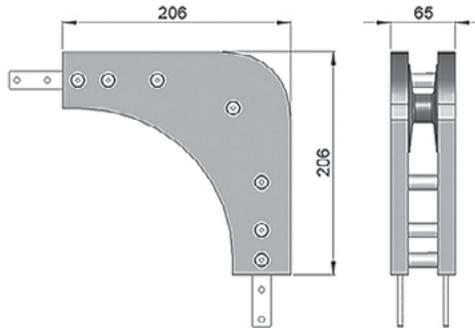
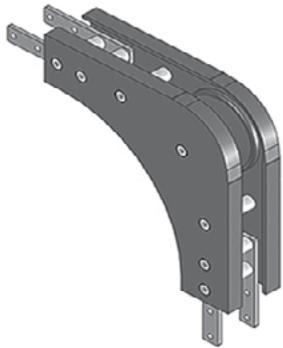
End transfer bridge c/w roller for FSIE-200



UOM: pc

## FS Idler Bend

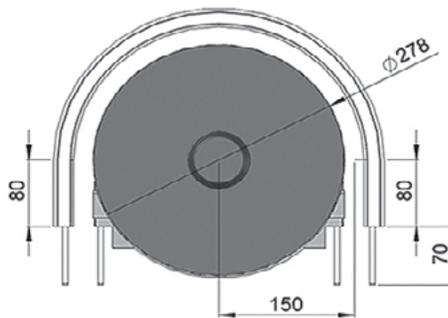
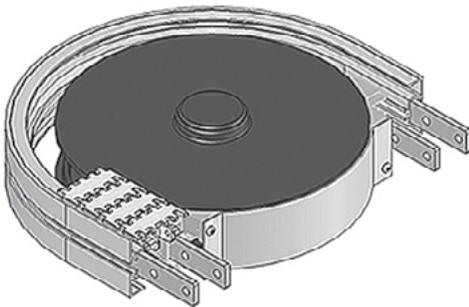
FSIB-206



**UOM: pc**  
 Chain required 1-way: 0.6 meter  
 Slide rail: 0 meter  
**Note:** Cannot be used with return chain

## FS Wheel Bend 180°

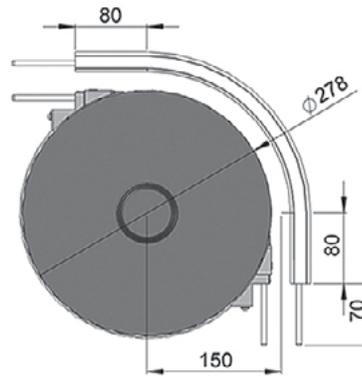
FSWB-180R150A



**UOM: pc**  
 Chain required 2-way: 1.3 meter  
 Slide rail required 2-way: 1.3 meter

## FS Wheel Bend 90°

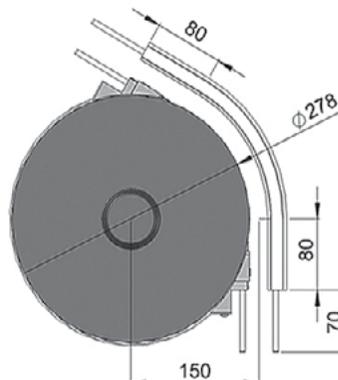
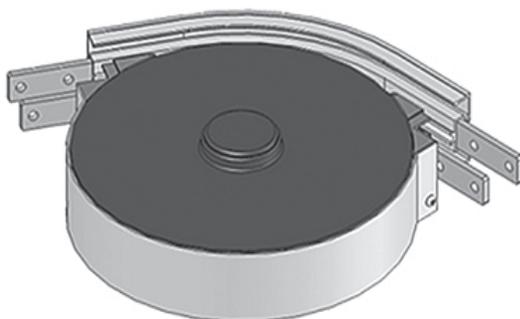
FSWB-90R150A



**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.8 meter

## FS Wheel Bend 60°

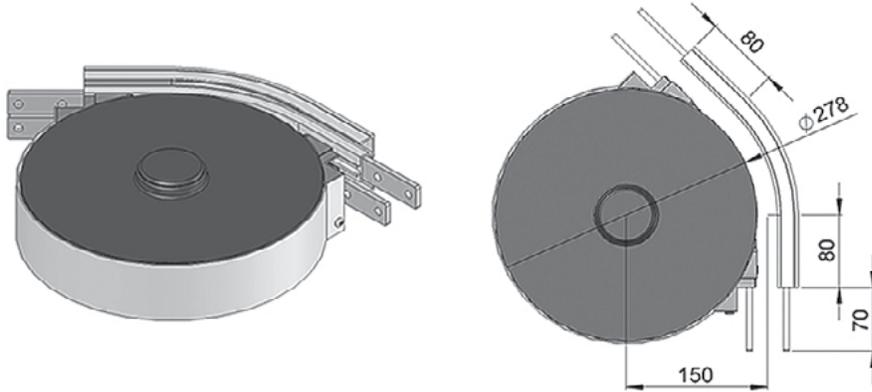
FSWB-60R150A



**UOM: pc**  
 Chain required 2-way: 0.6 meter  
 Slide rail required 2-way: 0.6 meter

### FS Wheel Bend 45°

FSWB-45R150A

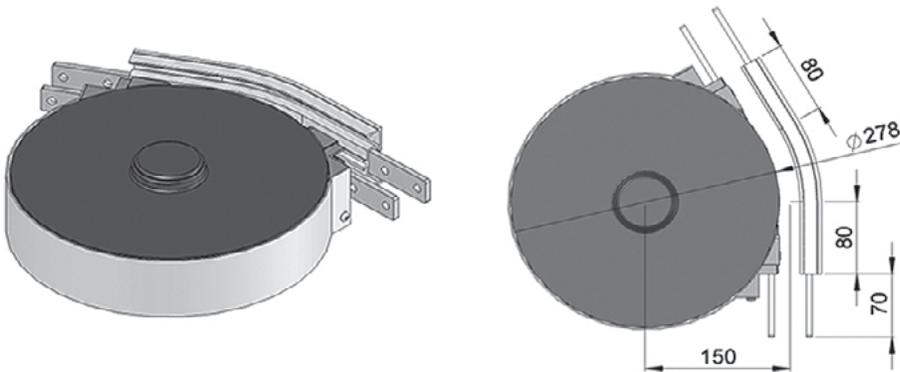


**UOM: pc**

Chain required 2-way: 0.6 meter  
Slide rail required 2-way: 0.6 meter

### FS Wheel Bend 30°

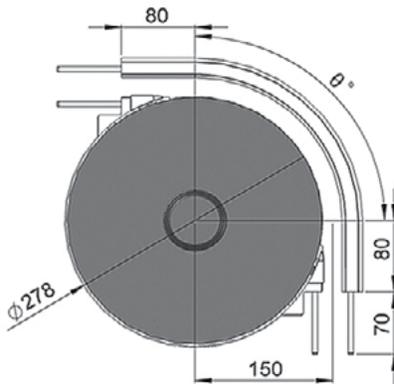
FSWB-30R150A



**UOM: pc**

Chain required 2-way: 0.5 meter  
Slide rail required 2-way: 0.5 meter

### FS Wheel Bend 5° - 180°



#### Example for FS Wheel Bend Ordering

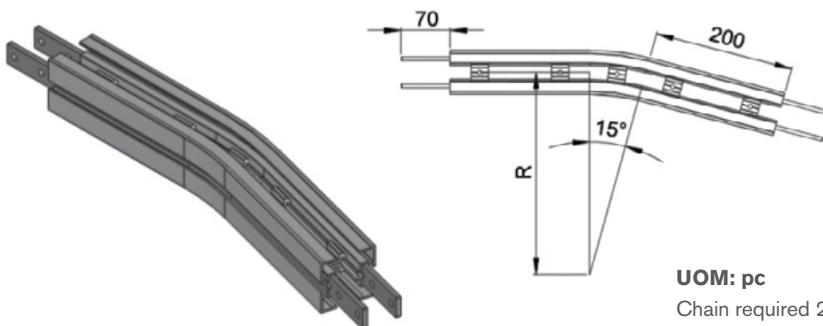
- Wheel bend,  $\text{Ø}^\circ \pm 1^\circ$
- FSWB- $\text{Ø}^\circ\text{R}150\text{A}$

If an angle of 65° is needed for wheel bend, the ordering part number is

**FSWB-65R150A**

*The outer bend is assembled using connecting strip (FACS-25x140A). Angle of  $\text{Ø}^\circ$  must be indicated when ordering.*

### FS Horizontal Plain Bend 15°



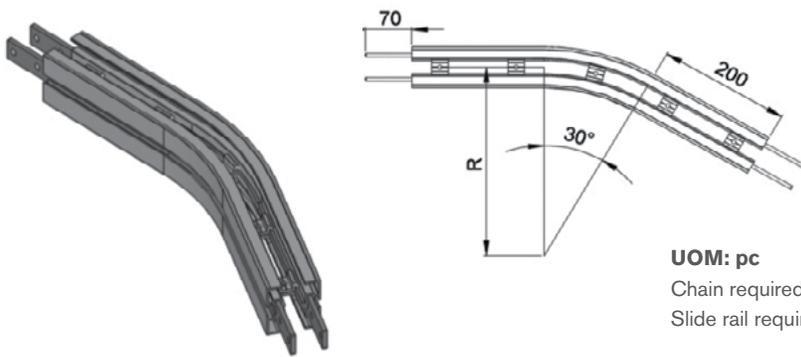
#### Horizontal plain bend, 15° ± 1°

|                  |                     |
|------------------|---------------------|
| R = 300 ± 10 mm  | <b>FSHB-15R300</b>  |
| R = 500 ± 10 mm  | <b>FSHB-15R500</b>  |
| R = 700 ± 10 mm  | <b>FSHB-15R700</b>  |
| R = 1000 ± 10 mm | <b>FSHB-15R1000</b> |

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1, 1.1, 1.2, 1.3 meter  
Slide rail required 2-way (300, 500, 700, 1000): 1.9, 2.1, 2.3, 2.6 meter

## FS Horizontal Plain Bend 30°



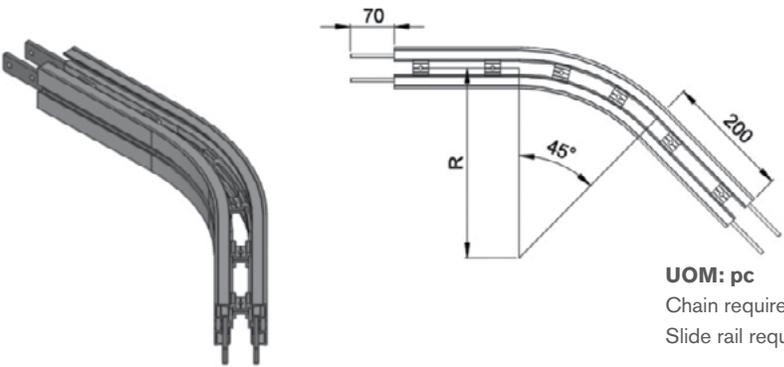
### Horizontal plain bend, 30° ± 1°

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

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.1, 1.3, 1.5, 1.8 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 2.2, 2.6, 3.1, 3.7 meter

## FS Horizontal Plain Bend 45°



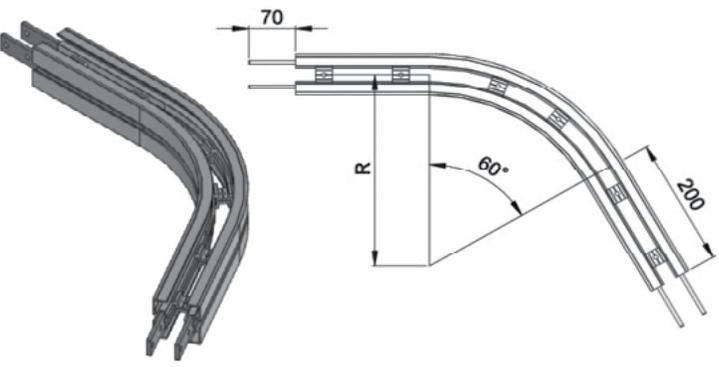
### Horizontal plain bend, 45° ± 1°

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

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.3, 1.6, 1.9, 2.4 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 2.5, 3.2, 3.8, 4.7 meter

## FS Horizontal Plain Bend 60°



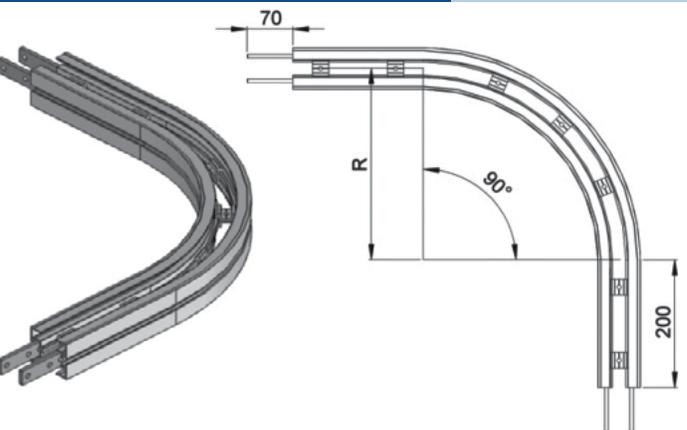
### Horizontal plain bend, 60° ± 1°

- R = 300 ± 10 mm     **FSHB-60R300**
- R = 500 ± 10 mm     **FSHB-60R500**
- R = 700 ± 10 mm     **FSHB-60R700**
- R = 1000 ± 10 mm    **FSHB-60R1000**

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.4, 1.8, 2.3, 2.9 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 2.9, 3.7, 4.5, 5.8 meter

## FS Horizontal Plain Bend 90°



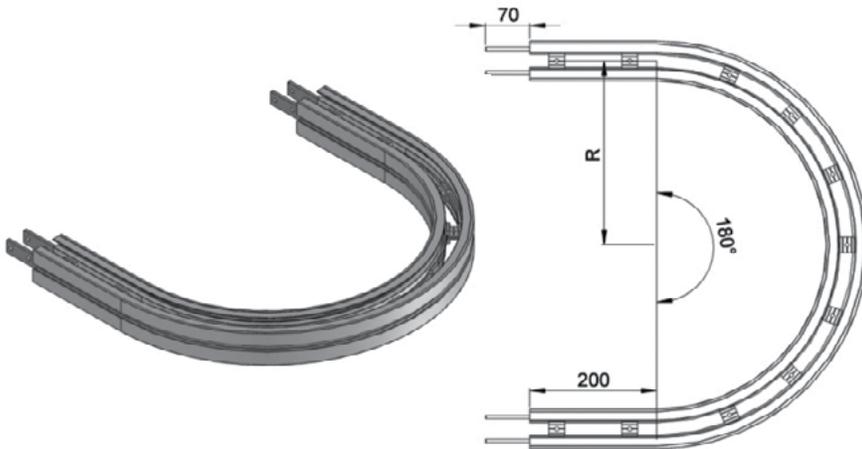
### Horizontal plain bend, 90° ± 1°

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

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.7, 2.4, 3.0, 3.9 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 3.5, 4.7, 6.0, 7.9 meter

### FS Horizontal Plain Bend 180°



#### Horizontal plain bend, 180° ± 1°

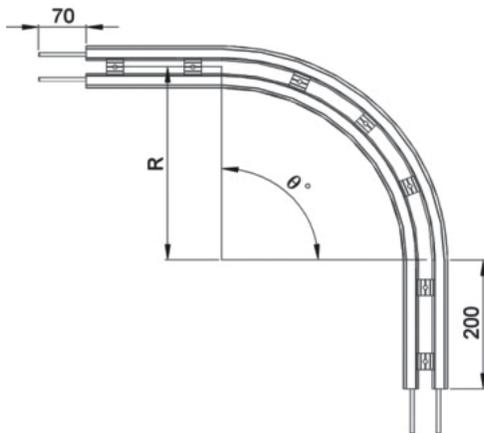
|                  |                      |
|------------------|----------------------|
| R = 300 ± 10 mm  | <b>FSHB-180R300</b>  |
| R = 500 ± 10 mm  | <b>FSHB-180R500</b>  |
| R = 700 ± 10 mm  | <b>FSHB-180R700</b>  |
| R = 1000 ± 10 mm | <b>FSHB-180R1000</b> |

#### UOM: pc

Chain required 2-way (300, 500, 700, 1000): 2.7, 3.9, 5.2, 7.1 meter

Slide rail required 2-way (300, 500, 700, 1000): 5.4, 7.9, 10.4, 14.2 meter

### FS Horizontal Plain Bend 5° - 180°



#### Example for FS Horizontal Plain Bend Ordering

#### Horizontal plain bend, θ° ± 1°

|                  |                     |
|------------------|---------------------|
| R = 300 ± 10 mm  | <b>FSHB- θ°300</b>  |
| R = 500 ± 10 mm  | <b>FSHB- θ°500</b>  |
| R = 700 ± 10 mm  | <b>FSHB- θ°700</b>  |
| R = 1000 ± 10 mm | <b>FSHB- θ°1000</b> |

If an angle of 120° is needed for radius R500 horizontal plain bend, the ordering part number is

#### **FSHB-120R500**

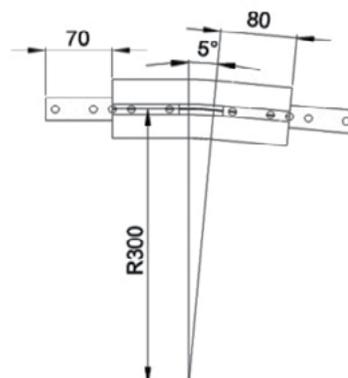
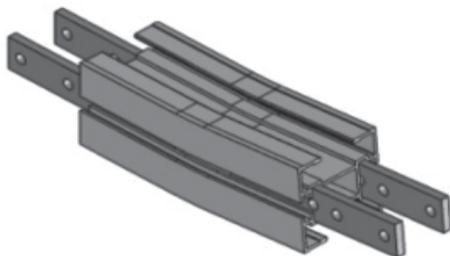
#### UOM: pc

Chain required 2-way (300, 500, 700, 1000): meter (Variable to angle)

Slide rail required 2-way (300, 500, 700, 1000): meter (Variable to angle)

### FS Vertical Bend 5°

**FSVB-5R300**



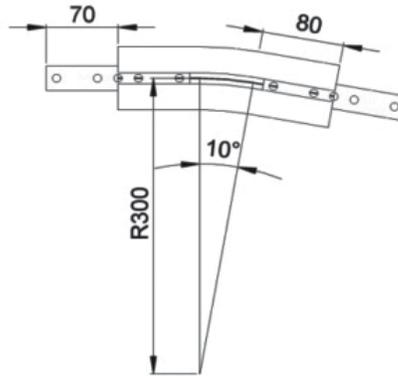
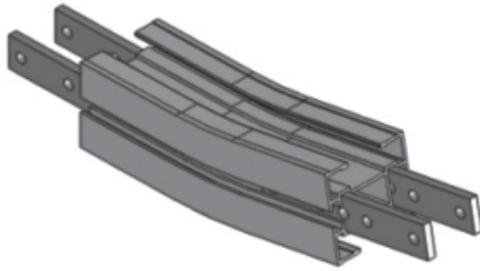
#### UOM: pc

Chain required 2-way: 0.4 meter

Slide rail required 2-way: 0.7 meter

## FS Vertical Bend 10°

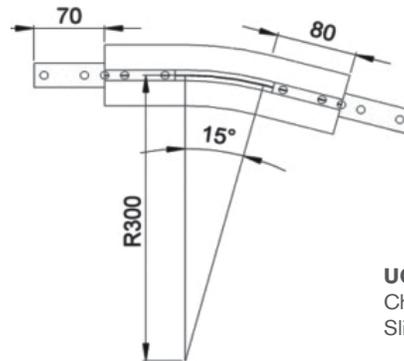
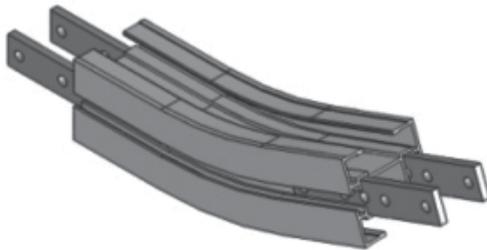
FSVB-10R300



**UOM: pc**  
 Chain required 2-way: 0.4 meter  
 Slide rail required 2-way: 0.8 meter

## FS Vertical Bend 15°

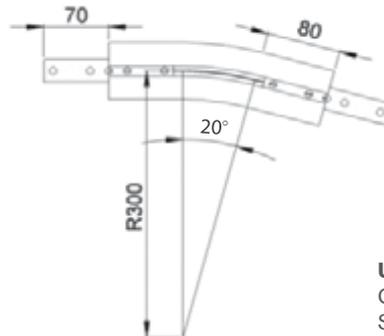
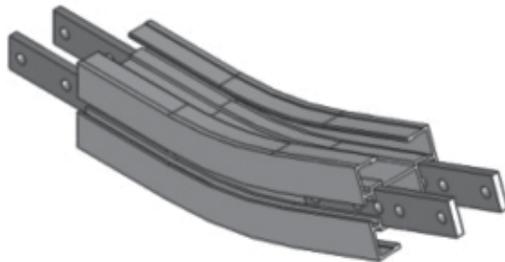
FSVB-15R300



**UOM: pc**  
 Chain required 2-way: 0.5 meter  
 Slide rail required 2-way: 1.0 meter

## FS Vertical Bend 20°

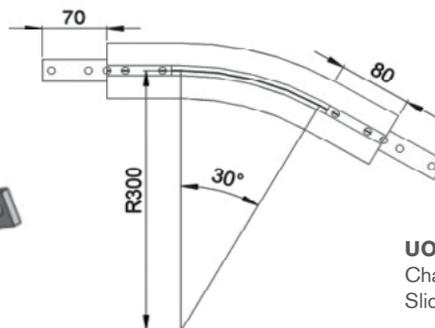
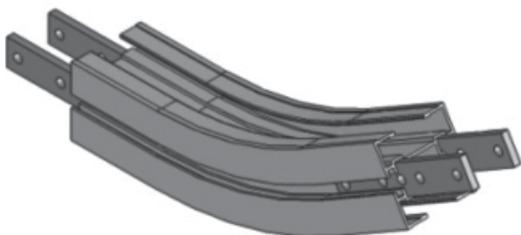
FSVB-20R300



**UOM: pc**  
 Chain required 2-way: 0.5 meter  
 Slide rail required 2-way: 1.1 meter

## FS Vertical Bend 30°

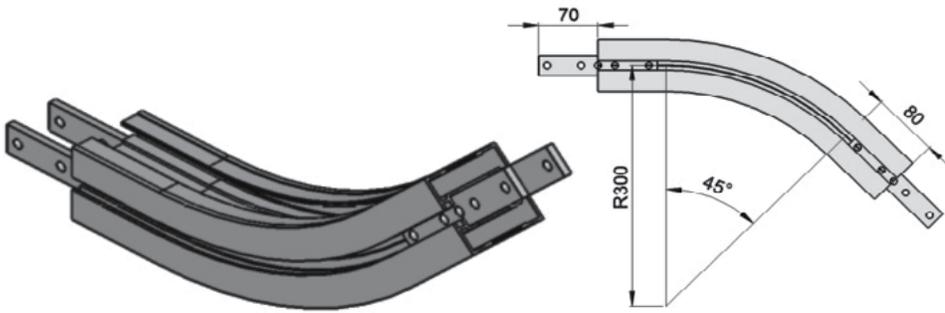
FSVB-30R300



**UOM: pc**  
 Chain required 2-way: 0.6 meter  
 Slide rail required 2-way: 1.3 meter

### FS Vertical Bend 45°

FSVB-45R300

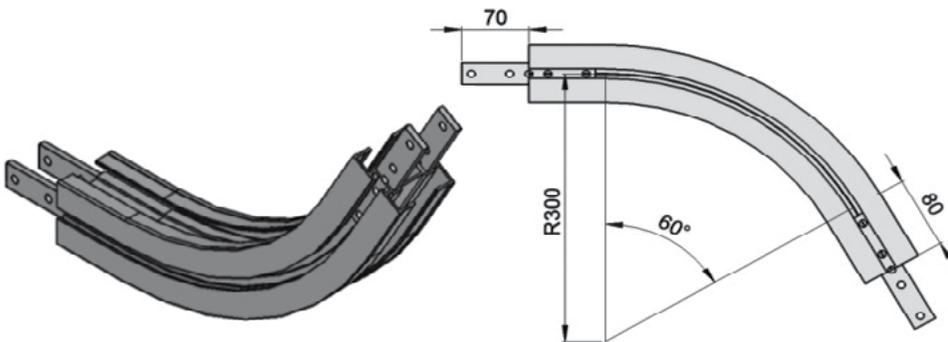


**UOM: pc**

Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 1.6 meter

### FS Vertical Bend 60°

FSVB-60R300

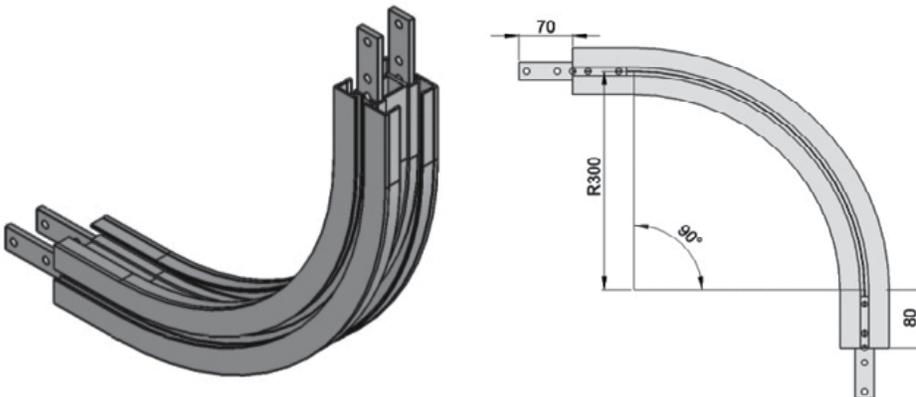


**UOM: pc**

Chain required 2-way: 0.9 meter  
Slide rail required 2-way: 1.9 meter

### FS Vertical Bend 90°

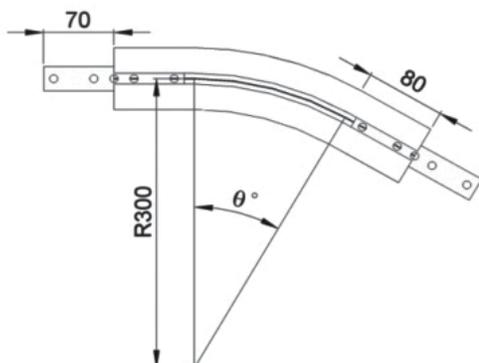
FSVB-90R300



**UOM: pc**

Chain required 2-way: 1.3 meter  
Slide rail required 2-way: 2.5 meter

### FS Vertical Bend 5° - 90°



**Example for FS Vertical Bend Ordering**

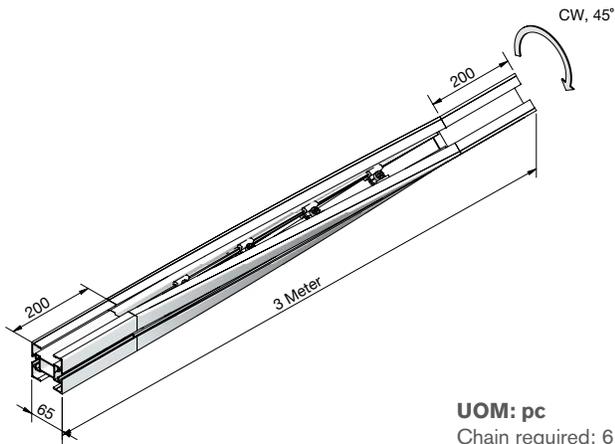
- Vertical bend,  $\varnothing^\circ \pm 1^\circ$
- FSVB- $\varnothing^\circ$ R300

If an angle of 65° is needed for vertical bend, the ordering part number is

**FSVB-65R300**

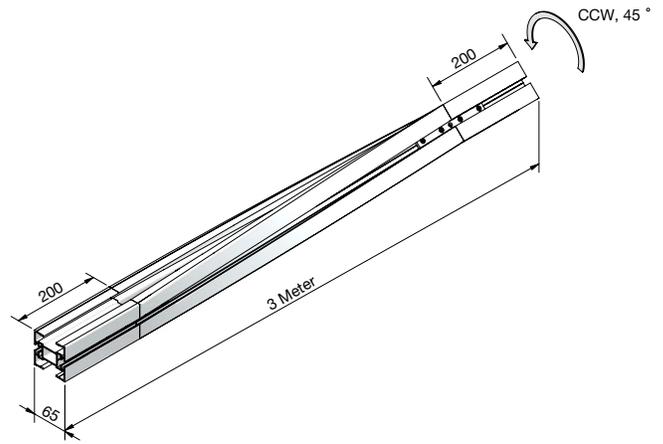
*The outer bend is assembled using connecting strip (FACS-25x140A). Angle of  $\varnothing^\circ$  must be indicated when ordering.*

**FS 45 Degree Twist Conveyor Beam (Clockwise)**  
**FSTB-CW45x3000**

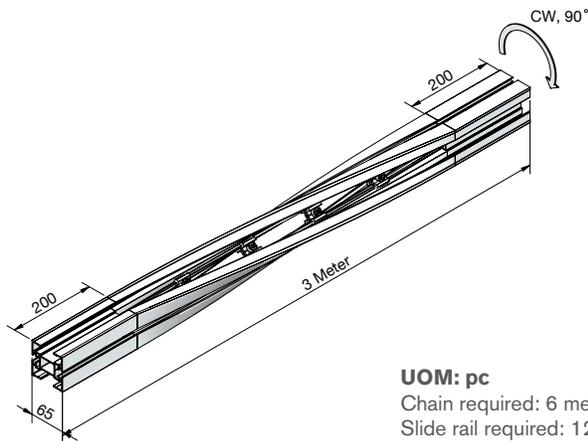


**UOM: pc**  
 Chain required: 6 meter  
 Slide rail required: 12 meter

**FS 45 Degree Twist Conveyor Beam (Counter-Clockwise)**  
**FSTB-CCW45x3000**

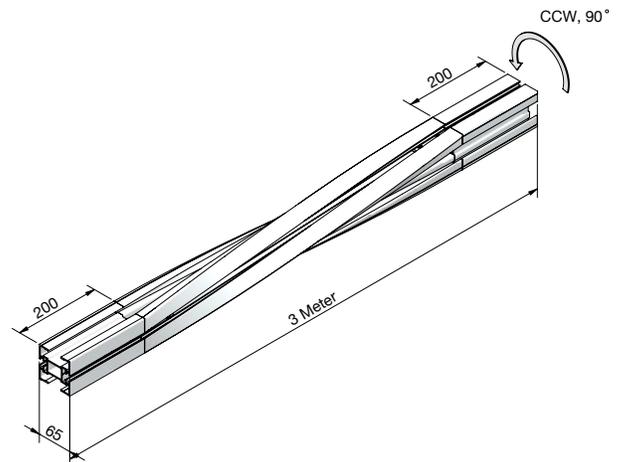


**FS 90 Degree Twist Conveyor Beam (Clockwise)**  
**FSTB-CW90x3000**

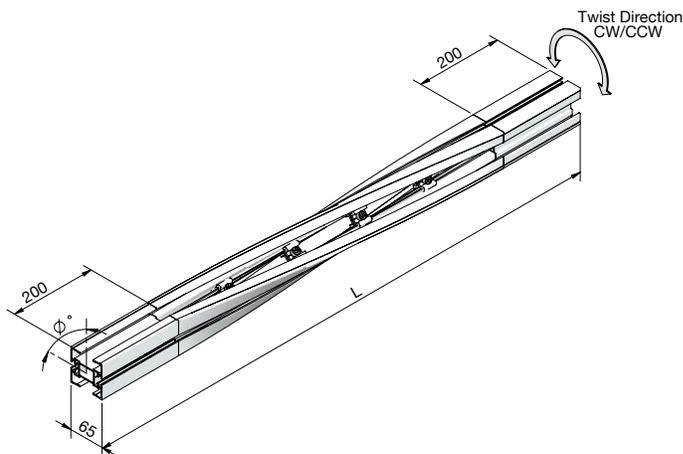


**UOM: pc**  
 Chain required: 6 meter  
 Slide rail required: 12 meter

**FS 90 Degree Twist Conveyor Beam (Counter-Clockwise)**  
**FSTB-CCW90x3000**



**FS Twist Conveyor Beam 15° - 90°**  
**FSTB-AAABx3000**      Where AAA = CW or CCW, BB = Angle



**Example for FS Twist Conveyor Beam Ordering**

- Twist Conveyor Beam,  $\varnothing \pm 5^\circ$

If an angle of  $30^\circ$  is needed for twist beam, in clockwise direction and length 3.0 m, the ordering part number is

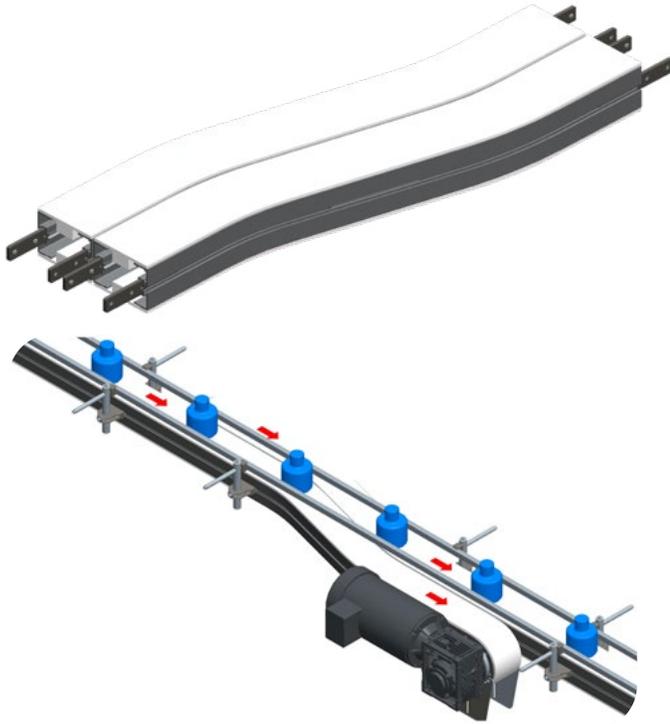
**FSTB-CW30x3000**

Angle of  $\varnothing^\circ$ , twist direction, and length  $L$ , must be indicated when ordering.

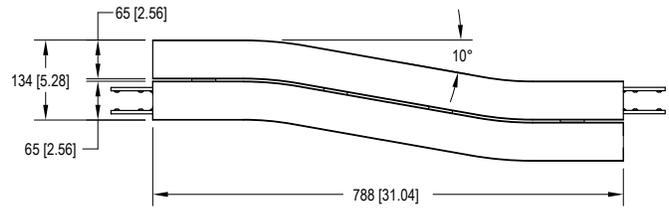
**UOM: pc**  
 Chain required: 6 meter  
 Slide rail required: 12 meter

### FS X In-Line Transfer Module

FSST-065



- S In-Line Modules provide a standard, compact way to side transfer product from conveyor to conveyor.
- Straight guiding is placed across the transfer module for smooth In-Line product flow
- Conveyors are mounted together to provide a smooth transfer even for small products
- S In-Line transfers are compact in the width dimension

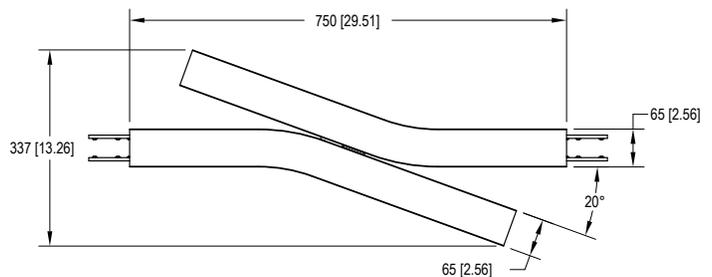


### FX S X In-Line Transfer Module

FSXT-065



- X In-Line Modules provide a standard, compact way to side transfer product from conveyor to conveyor.
- Straight guiding is placed across the transfer module for smooth In-Line product flow
- Conveyors are mounted together to provide a smooth transfer even for small products
- X In-Line transfers are compact in the length direction



Variety of chain type suitable for wide range of applications either horizontal or vertical product transportation. Higher capacity than FK and FS. The maximum product width to be conveyed can be referred to guide rail assembly pages.

### FM Series Characteristic

**Beam Width:** 85 mm

**Product Width:** Refer to Guide Rail Assembly

### Accessories Needed

**Slide Rail Required:** FASR-25 OR FASR-25U

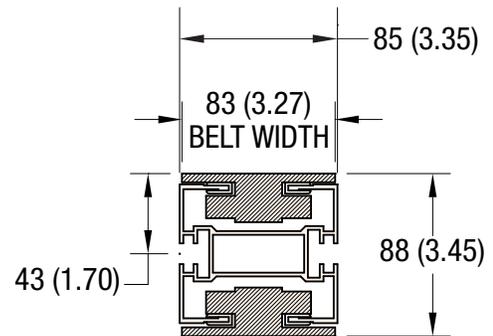
**Slide Rail Color:** White or Natural Color

**Slide Rail Material:** HDPE OR UHMW-PE

**Slide Rail Rivet & Screw:** FASLR-4X6 or FASLS-M5

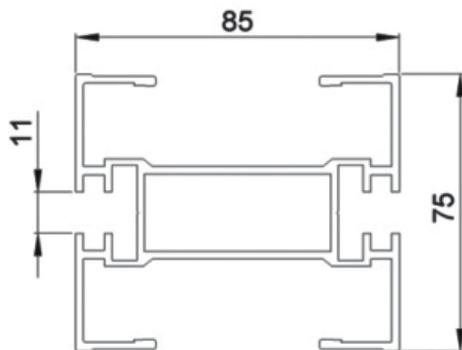
Connecting strip is used to connect two beams.

**Connecting Strip:** FACS-25x140A

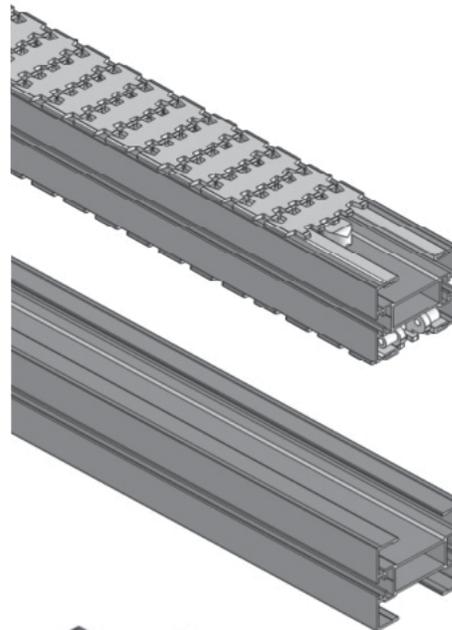


**85 MM WIDTH**

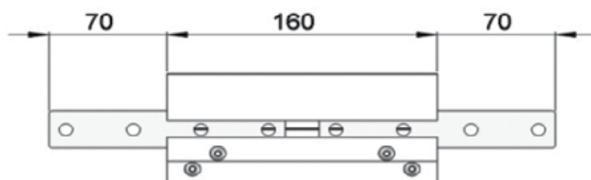
### Conveyor Beam FMCB-3



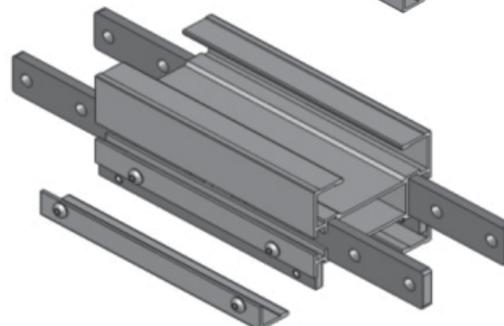
UOM: 3 Meter / Length



### Chain Connecting Module FMCC-160



UOM: pc



### Chain Common Data

**Packaging:** 5 m per box

**Pitch:** 33.5 mm

**Width:** 83 mm

Tensile Strength at 20°C: 6000N

**Color:** White & Black (Conductive)

### Material:

**Chain:** White Acetal / POM

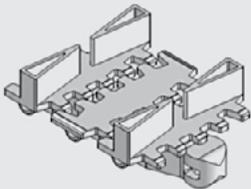
**Pivot:** Polyamide

**Pivot Pin:** Stainless Steel

**Insert (Wedge & Friction):** TPE Grey

### Example for FMCT-5A17-L#

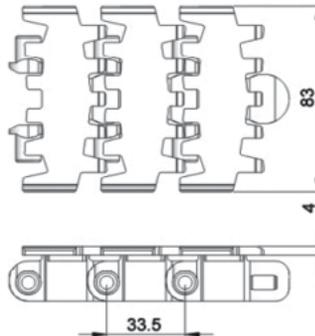
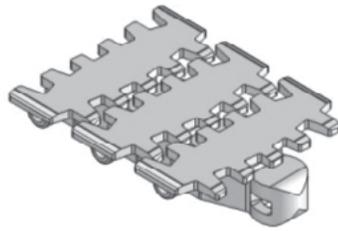
# = 1 cleated top chain with alternate of # link of plain chain



The above chain is FMCT-5A17-L1, 1 link cleated top chain with alternate of 1 link of plain chain.

**Note:** # = 1, 2, 3, 4, 5.....20

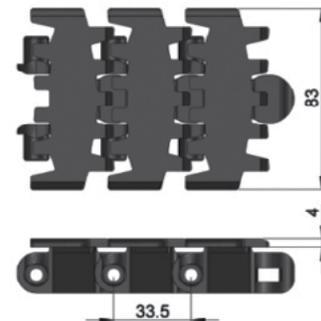
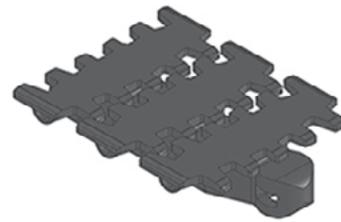
### Standard Plain Chain FMPC-5



**UOM:** 5 Meter / box

Application: Suitable for horizontal and slope < 5° transport of products with accumulation.

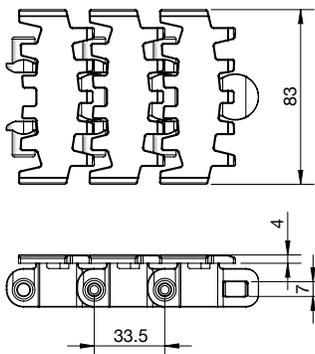
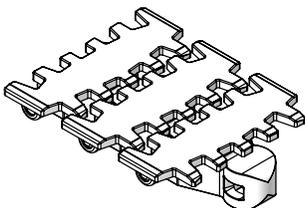
### Conductive Chain FMPC-5CD



**UOM:** 5 Meter / box

Application: Suitable for transport of static sensitive product.

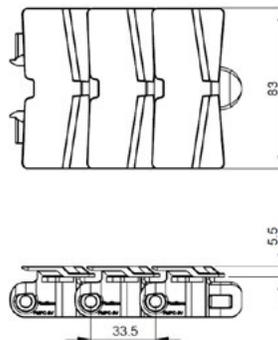
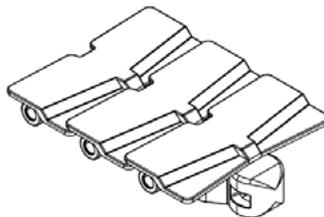
### Twist Chain FMPC-5M



**UOM:** 5 Meter / box

Application: Suitable twist conveyor beam; horizontal and slope < 5° transport of products with accumulation

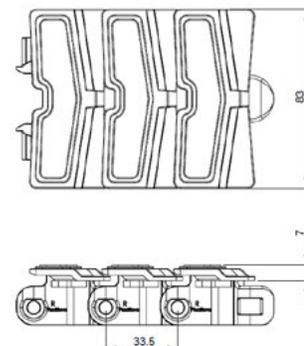
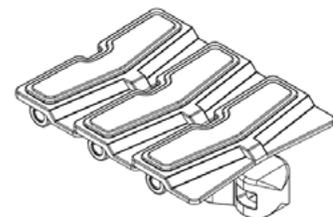
### Safety Chain FMPC-B-5V



**UOM:** 5 Meter / box

Application: (Safety Chain) Suitable for horizontal and slope < 5° transport of products with accumulation

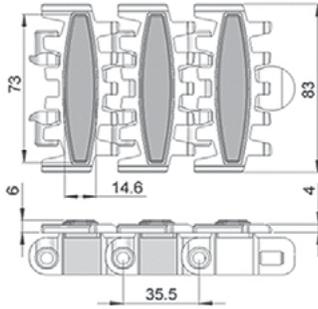
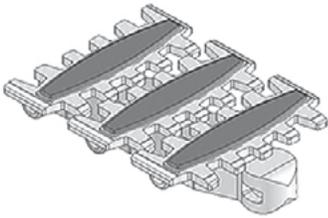
### Safety Chain Friction Top FMFT-B-5V



**UOM:** 5 Meter / box

Application: (Safety Chain) Suitable for transport product in slope > 5° but ≤ 30° without accumulation.

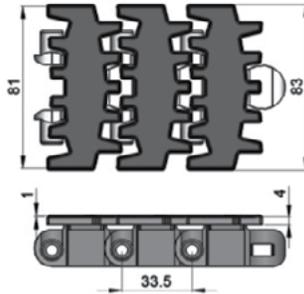
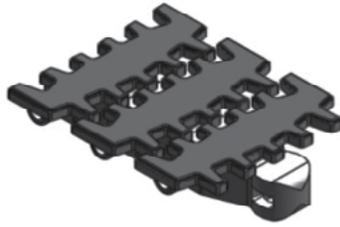
## Friction Top Chain **FMFT-5**



**UOM: 5 Meter / box**

Application: Suitable for transport product in slope  $> 5^\circ$  but  $\leq 30^\circ$  without accumulation.

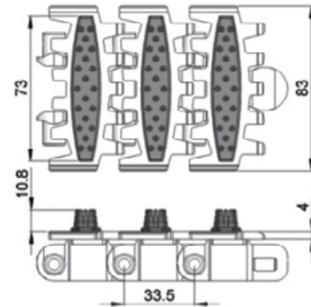
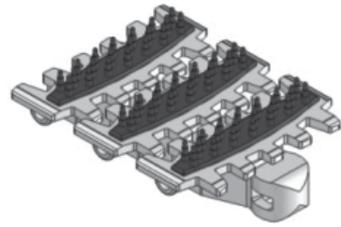
## Friction Top Chain **FMFT-5A**



**UOM: 5 Meter / box**

Application: Suitable for transport product in slope  $> 5^\circ$  but  $\leq 30^\circ$  without accumulation.

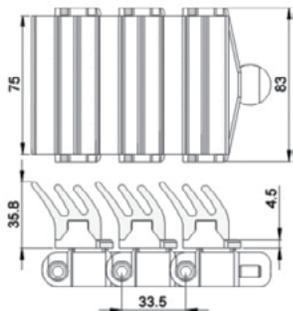
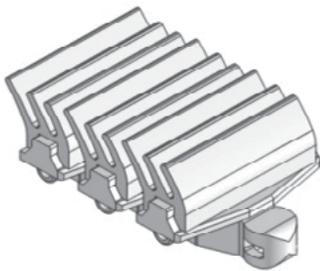
## Wedge Top Chain **FMWT-5A**



**UOM: 5 Meter / box**

Application: Vertical Wedge transportation of products.

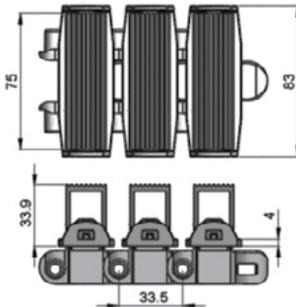
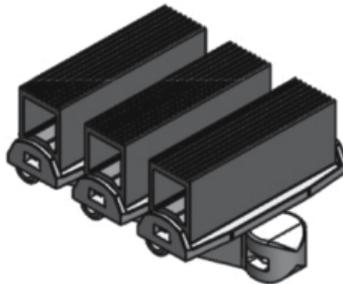
## Wedge Top Chain **FMWT-5B**



**UOM: 5 Meter / box**

Application: Vertical Wedge transportation of products (Heavy Duty)

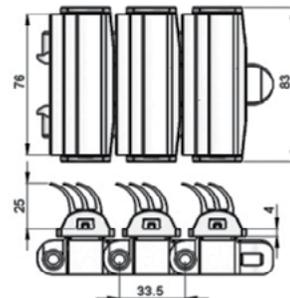
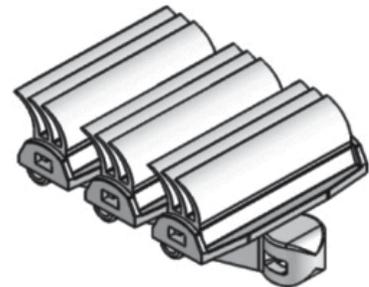
## Wedge Top Chain **FMWT-5C**



**UOM: 5 Meter / box**

Application: Vertical Wedge transportation of products (Heavy Duty)

## Wedge Top Chain **FMWT-5D**



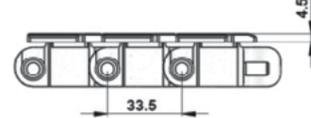
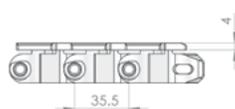
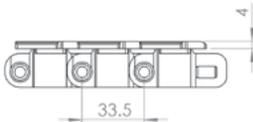
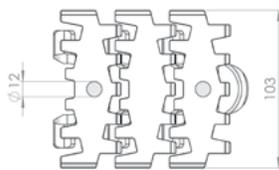
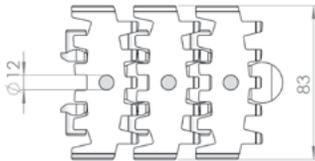
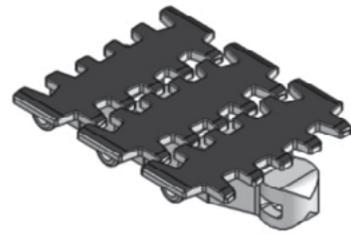
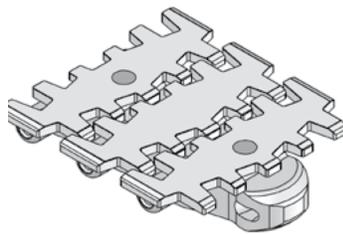
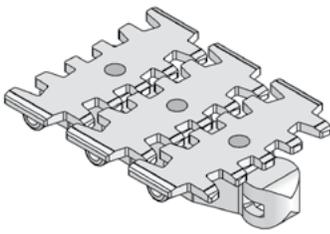
**UOM: 5 Meter / box**

Application: Vertical Wedge transportation of products.

Magnet Top Chain **FMMT-5**

Magnet Top Chain **FMMT-5-L#**

Flocked Chain **FMFK-5**



**UOM: 5 Meter / box**

Application: Suitable for conveying of ferromagnetic products in slope.

**UOM: 5 Meter / box**

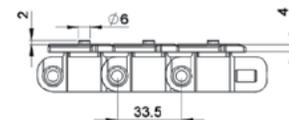
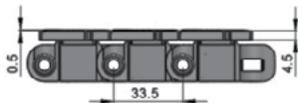
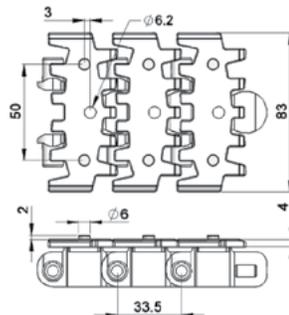
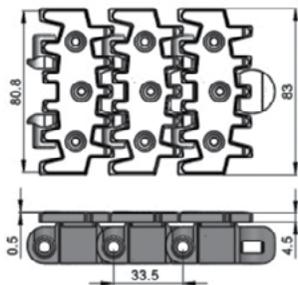
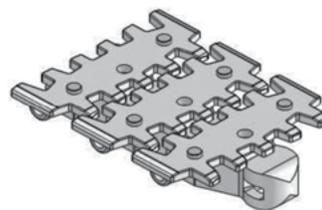
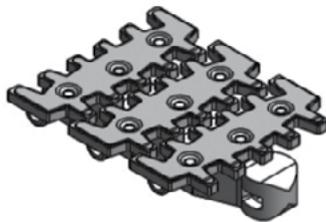
Application: Suitable for conveying of ferromagnetic products in slope.

**UOM: 5 Meter / box**

Application: Suitable to transport lightweight, fragile and scratch sensitive product.

Stainless Steel Top Chain **FMST-5S**

Universal Chain **FMUC-5**



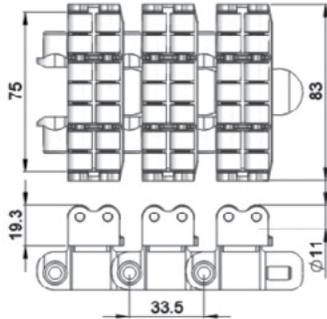
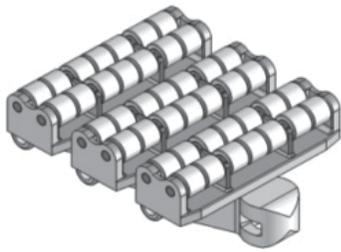
**UOM: 5 Meter / box**

Application: Suitable to transport metal products in accumulation.

**UOM: 5 Meter / box**

Application: Universal Link with M6 Nut, Suitable for attached customer cleat or fixture.

## Roller Top Chain **FMRT-5**

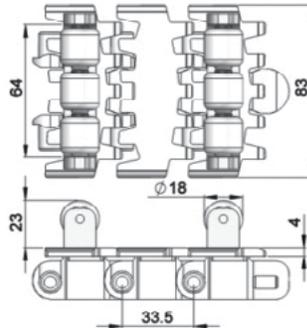
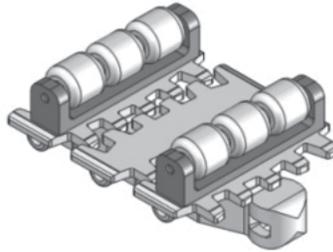


**UOM: 5 Meter / box**

Application: Suitable for accumulation of product with low friction and pressure.

## Roller Cleat Chain **FMRC-5A-L#**

# = 1, 2, 3, 4, 5.....20

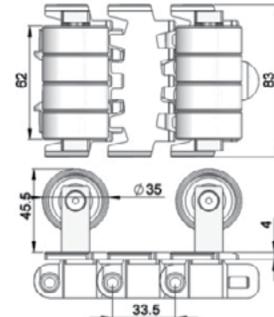
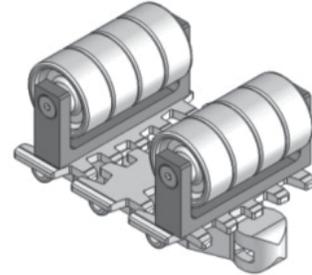


**UOM: 5 Meter / box**

Application: Suitable for vertical transportation of product in slope with no accumulation.

## Roller Cleat Chain **FMRC-5B-L#**

# = 1, 2, 3, 4, 5.....20

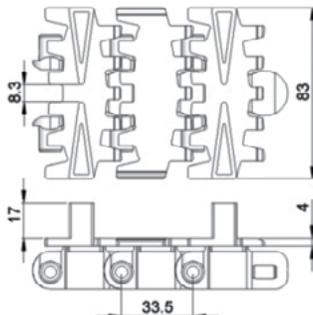
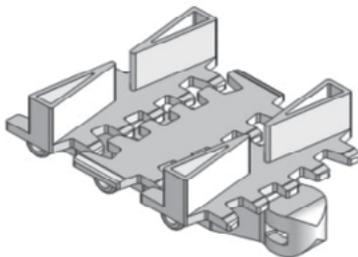


**UOM: 5 Meter / box**

Application: Suitable for vertical transportation of product in slope with no accumulation.

## Cleat Top Chain **FMCT-5A17-L#**

# = 1, 2, 3, 4, 5.....20

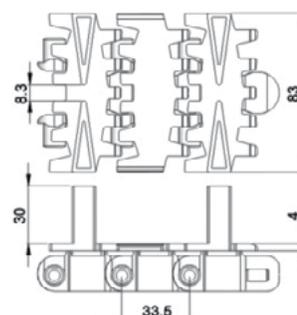
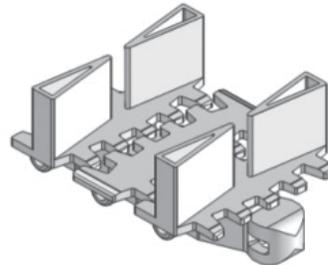


**UOM: 5 Meter / box**

Application: Suitable for vertical transport of product with no accumulation.

## Cleat Top Chain **FMCT-5A30-L#**

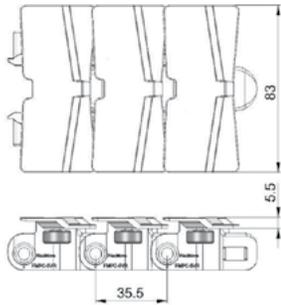
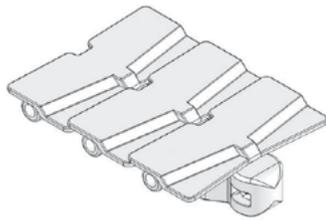
# = 1, 2, 3, 4, 5.....20



**UOM: 5 Meter / box**

Application: Suitable for vertical transport of product with no accumulation.

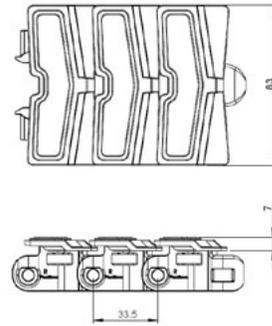
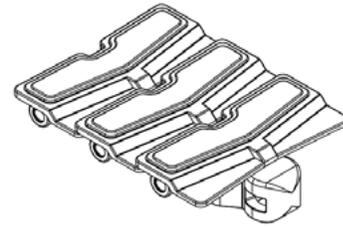
Safety Chain with rollers **FMPC-5VR**



**UOM: 5 Meter / box**

Application: Suitable for transport product in slope  $> 5^\circ$  but  $\leq 30^\circ$  without accumulation. (Subject to product weight and Packing)

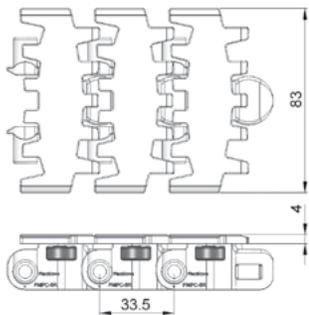
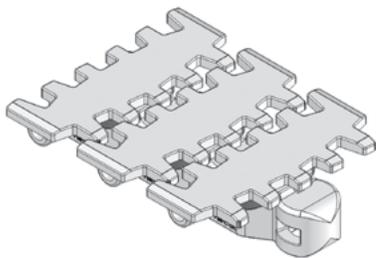
Safety Chain Friction Top with rollers **FMFT-B-5VR**



**UOM: 5 Meter / box**

Application: Suitable for transport product in slope  $> 5^\circ$  but  $\leq 30^\circ$  without accumulation. (Subject to product weight and Packing)

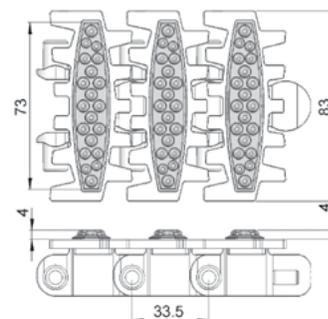
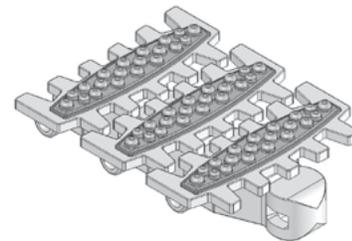
Plain Chain with rollers **FMPC-5R**



**UOM: 5 Meter / box**

Application: Suitable for horizontal and slope  $< 5^\circ$  transport of products with accumulation.

Friction Top Chain **FMFT-5C**

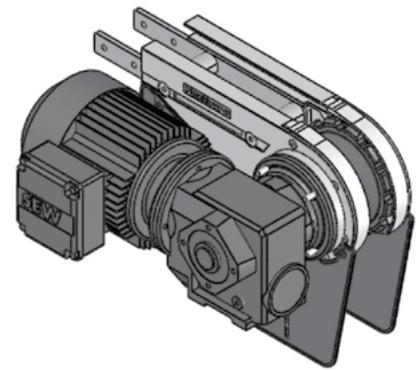
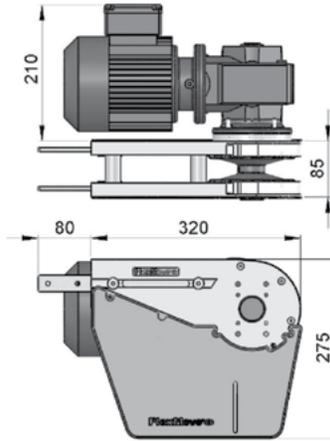
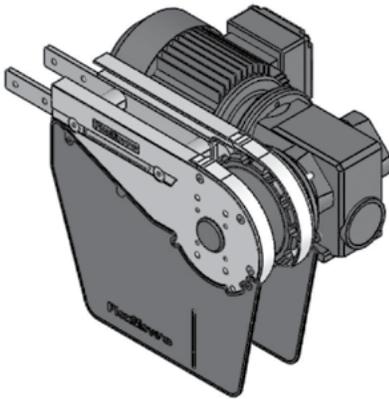


**UOM: 5 Meter / box**

Application: Suitable for transport product in slope  $> 5^\circ$  but  $\leq 35^\circ$  without accumulation. (Subject to product weight and Packing)

**FM Direct End Drive without Motor (LEFT)**  
FMDD-A85-XDY (See Chart)

**FM Direct End Drive without Motor (RIGHT)**  
FMDD-A85-XDY (See Chart)



| Part Number |   | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|---|--------------------|-----------|----------------------|
| FMDD-A85    | - | X                  | D         | Y                    |
|             |   | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             |   | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             |   | A = 20 mm Aux Only |           |                      |

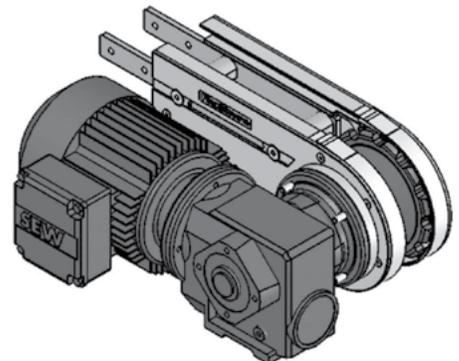
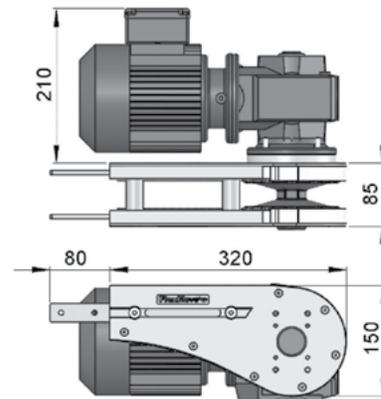
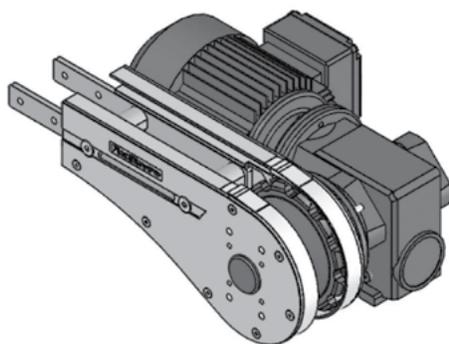
**Max Traction Force: 1250N**  
The Direct End Drive Unit is without torque limiter.

**UOM: pc**  
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0.5 meter

\*3/4 inch shaft option available in North America only.

**FM Direct End Drive without Motor GP (LEFT)**  
FMDD-A85GP-XDY (See Chart)

**FM Direct End Drive without Motor GP (RIGHT)**  
FMDD-A85GP-XDY (See Chart)



Requires the use of connecting or weighted take-up module for chain maintenance.

| Part Number |   | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|---|--------------------|-----------|----------------------|
| FMDD-A85GP  | - | X                  | D         | Y                    |
|             |   | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             |   | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             |   | A = 20 mm Aux Only |           |                      |

**Max Traction Force: 1250N**  
The Direct End Drive Unit GP is without torque limiter.

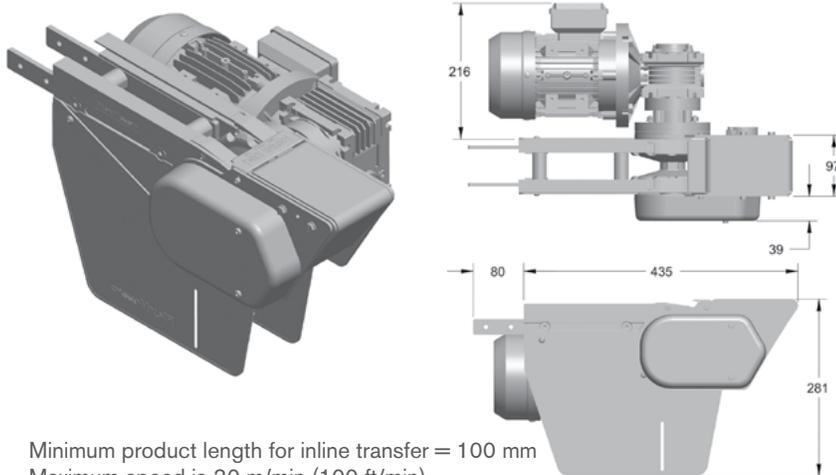
**UOM: pc**  
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0.5 meter

\*3/4 inch shaft option available in North America only.

SEW gearmotors are products of SEW Eurodrive

### FM Direct with Power Transfer Motor (LEFT)

FMDD-A85PT-XD (See Chart)



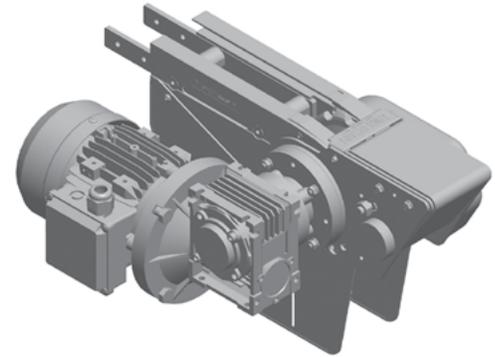
Minimum product length for inline transfer = 100 mm  
 Maximum speed is 30 m/min (100 ft/min)  
 Only one power transfer needed on either infeed or discharge trail required for end to end transfer.  
 Provides extended transfer nose for interfacing with large rollers.

| Part Number |   | Shaft Selection | Direction |
|-------------|---|-----------------|-----------|
| FMDD-A85PT  | - | X               | D         |
|             |   | 0 = 20 mm       | L = Left  |
|             |   | E = 3/4 in*     | R = Right |

\*3/4 inch shaft option available in North America only.

### FM Direct with Power Transfer Motor (RIGHT)

FMDD-A85PT-XD (See Chart)



### Max Traction Force: 1250N

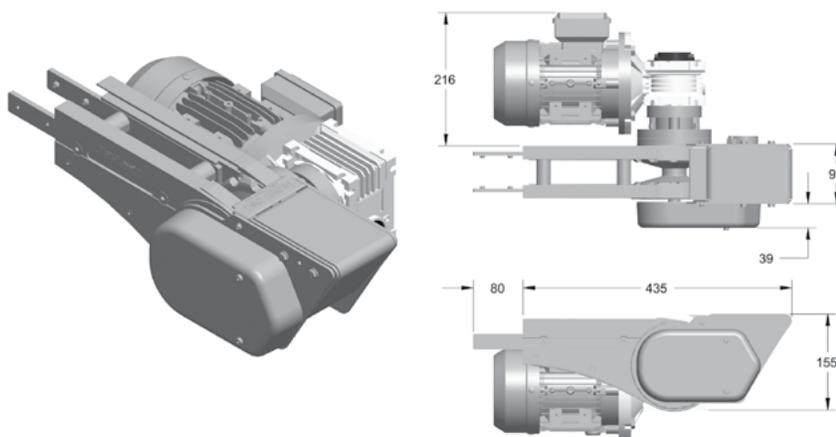
The Direct End Drive Unit is without torque limiter.

### UOM: pc

Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

### FM GP Direct with Power Transfer Motor (LEFT)

FMDD-A85GPPT-XD (See Chart)



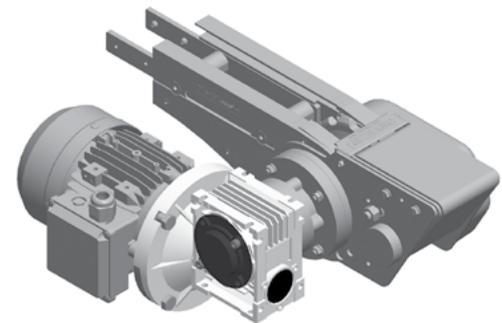
Minimum product length for inline transfer = 100 mm  
 Maximum speed is 30 m/min (100 ft/min)  
 Only one power transfer needed on either infeed or discharge trail required for end to end transfer. Provides extended transfer nose for interfacing with large rollers.  
 Requires the use of connecting or weighted take-up module for chain maintenance.

| Part Number  |   | Shaft Selection | Direction |
|--------------|---|-----------------|-----------|
| FMDD-A85GPPT | - | X               | D         |
|              |   | 0 = 20 mm       | L = Left  |
|              |   | E = 3/4 in*     | R = Right |

\*3/4 inch shaft option available in North America only.

### FM GP Direct with Power Transfer Motor (RIGHT)

FMDD-A85GPPT-XD (See Chart)



### Max Traction Force: 1250N

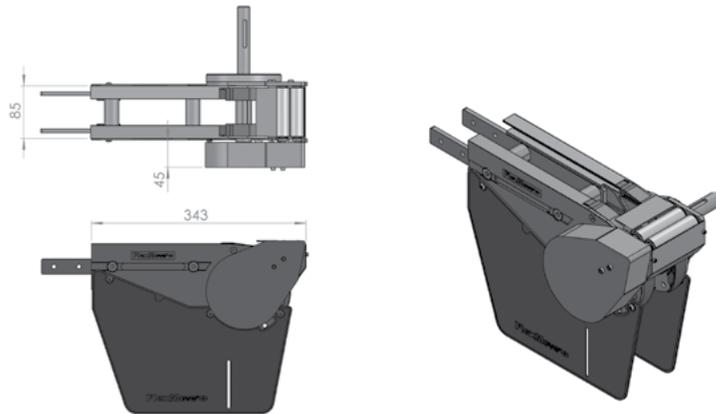
The Direct End Drive Unit GP is without torque limiter.

### UOM: pc

Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

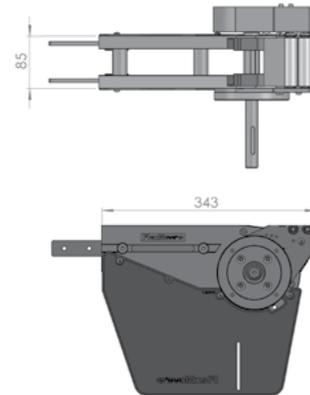
SEW gearmotors are products of SEW Eurodrive

**FM Direct Drive Driven Transfer Bridge (LEFT)**  
**FMDD-A85DB-A-0L**



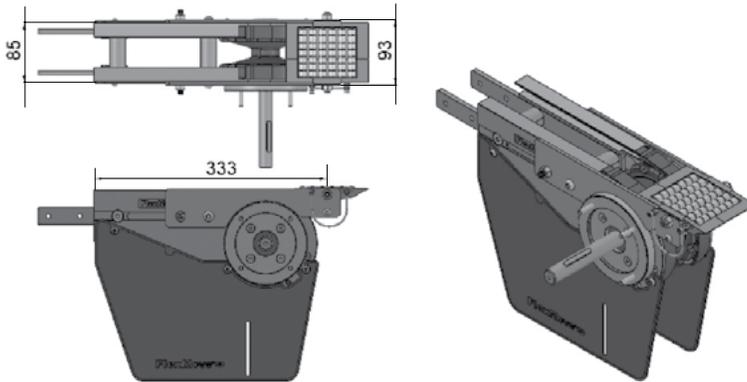
20 mm Shaft only.  
 Minimum product length for inline transfer = 100 mm  
 Transfer extends past conveyor only 27 mm

**FM Direct Drive Driven Transfer Bridge (RIGHT)**  
**FSIE-A65DB-A-R**



**UOM: Unit**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

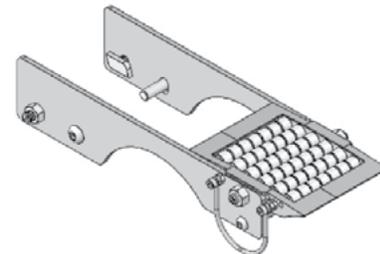
**FM Direct Drive Free Roller Transfer Bridge (LEFT/ RIGHT)**



**UOM: pc**

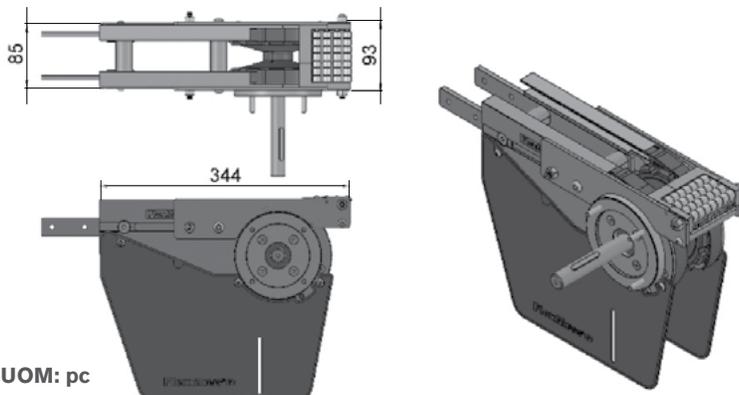
**FMTB-A85**

Transfer bridge c/w roller for FMIE-A85  
 Transfer bridge c/w roller for FMDD-A85-0L  
 Transfer bridge c/w roller for FMDD-A85-0R



**UOM: pc**

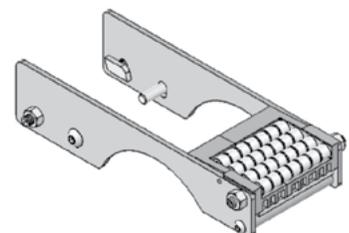
**FM Direct Drive End Free Roller Bridge (LEFT/ RIGHT)**



**UOM: pc**

**FMEB-A85**

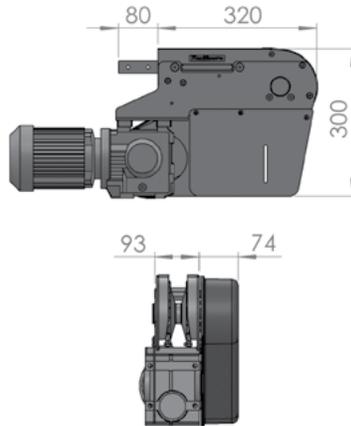
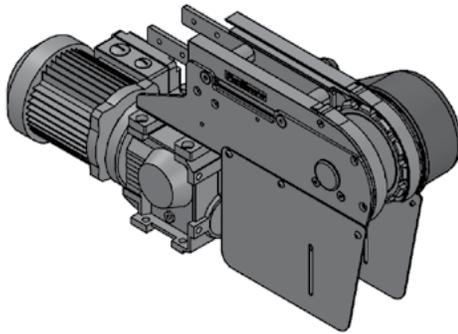
End transfer bridge c/w roller for FMIE-A85  
 End transfer bridge c/w roller for FMDD-A85-0L  
 End transfer bridge c/w roller for FMDD-A85-0R



**UOM: pc**

### FM Suspended End Drive without Motor (LEFT)

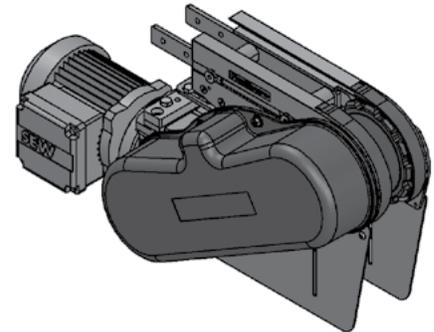
FMSD-A85-0L (with Torque Limiter)  
FMSD-A85SPT-0L (without Torque Limiter)



- Locates gearmotor below conveyor for compact applications.
- Includes torque limiter protecting chain and motor from overload.
- Chain pull capacity at 1250N for unit without torque limiter.
- Chain pull capacity at 840N for unit with torque limiter.

### FM Suspended End Drive without Motor (RIGHT)

FMSD-A85-OR (with Torque Limiter)  
FMSD-A85SPT-OR (without Torque Limiter)

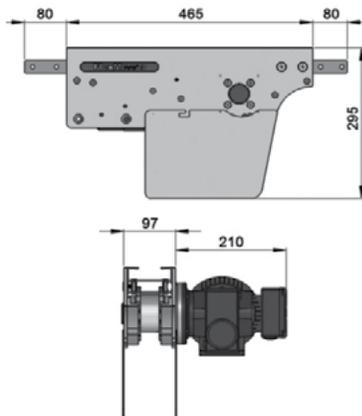
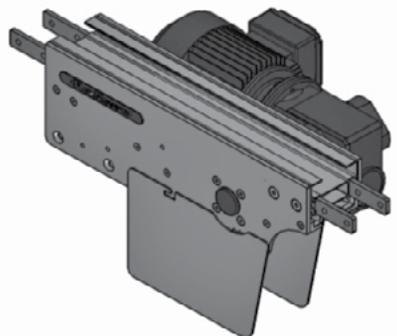


**Max Traction Force:**  
**1250N** (without limiter)  
**840N** (with limiter)

**UOM: pc**  
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0.5 meter

### FM Direct Intermediate Drive without Motor (LEFT)

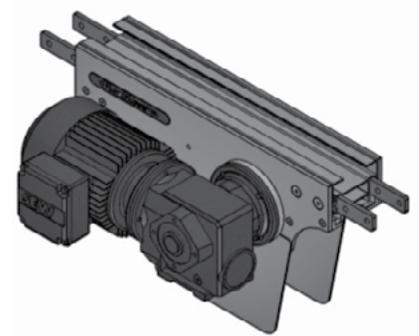
FMID-DD-0L1



- Located in middle of conveyor to free up drive end.
- Includes torque limiter protecting chain and motor from overload.
- Limits chain pull capacity at 200N.

### FM Direct Intermediate Drive without Motor (RIGHT)

FMID-DD-0R1

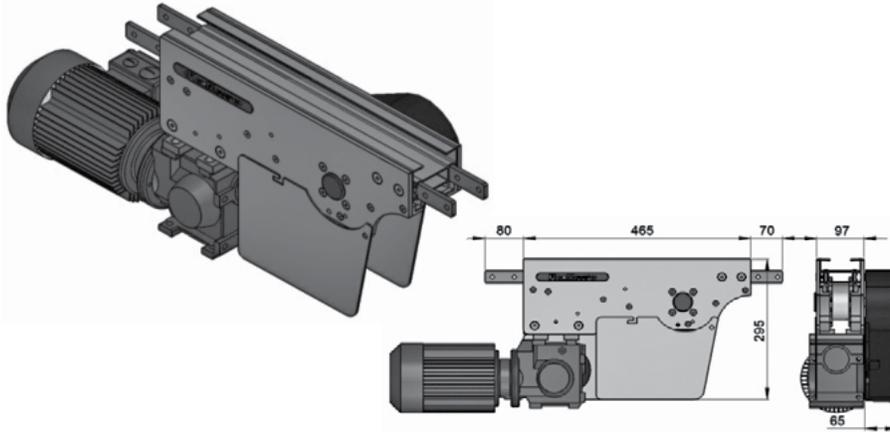


**Max Traction Force: 200N**  
The Direct Intermediate Drive Unit is without torque limiter.

**UOM: pc**  
Chain required 2-way: 1.2 meter  
Slide rail required 2-way: 1.1 meter

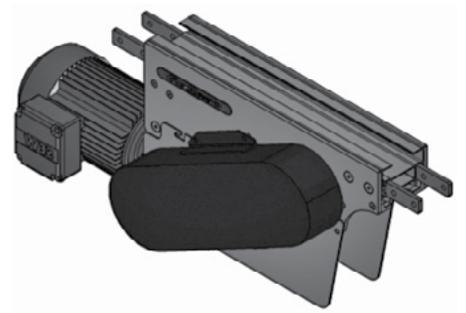
SEW gearmotors are products of SEW Eurodrive

FM Suspended Intermediate Drive without Motor (LEFT)  
FMID-SD-0L1



- Located in middle of conveyor to free up drive end.
- Includes torque limiter protecting chain and motor from overload.
- Limits chain pull capacity at 200N.

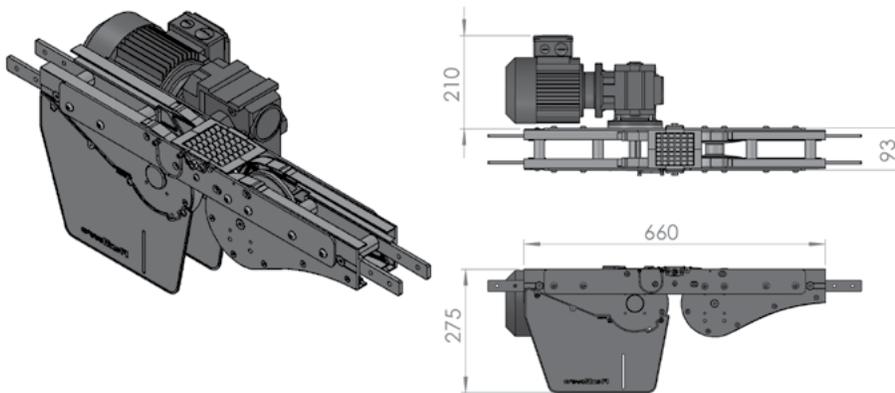
FM Suspended Intermediate Drive without Motor (RIGHT)  
FMID-SD-0R1



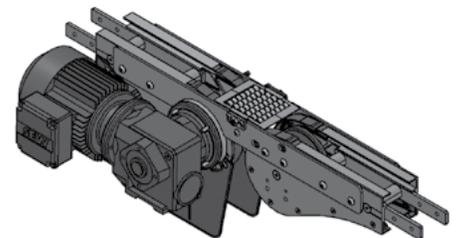
**Max Traction Force: 200N**  
The Suspended Intermediate Drive Unit is with torque limiter.

**UOM: pc**  
Chain required 2-way: 1.2 meter  
Slide rail required 2-way: 1.1 meter

FM Combined Direct Drive & Idler (LEFT)  
FMCDI-DD-A85



FM Combined Direct Drive & Idler (RIGHT)  
FMCDI-DD-A85



**Max Traction Force: 1250N**  
The Combine Direct End Drive Unit is without torque limiter.

**UOM: pc**  
Chain required 2-way: 1.6 meter  
Slide rail required 2-way: 1.0 meter

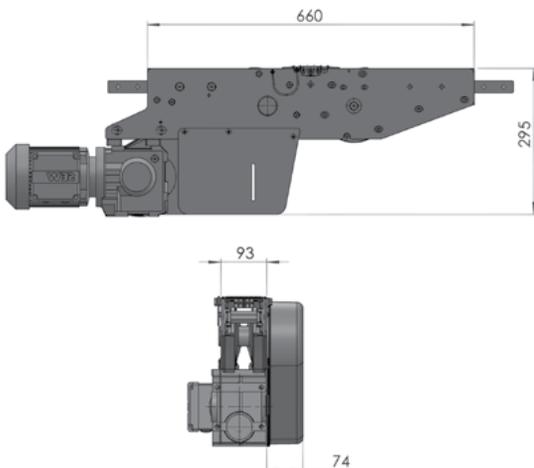
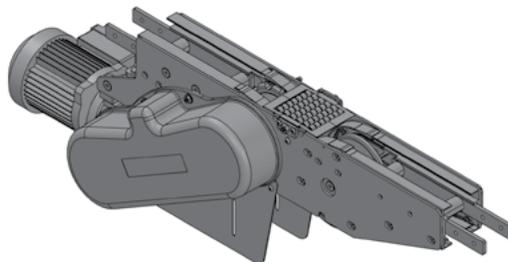
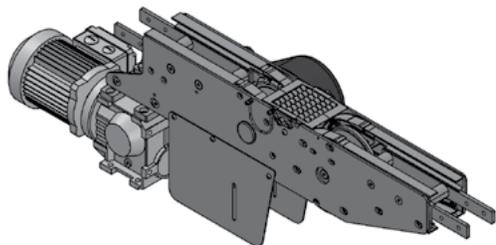
SEW gearmotors are products of SEW Eurodrive

FM Combined Suspended Drive & Idler (LEFT)

FMCDI-SD-A85

FM Combined Suspended Drive & Idler (RIGHT)

FMCDI-SD-A85



**Max Traction Force: 840N**

The Combine Suspended End Drive Unit is with torque limiter.

**UOM: pc**

Chain required 2-way: 1.6 meter

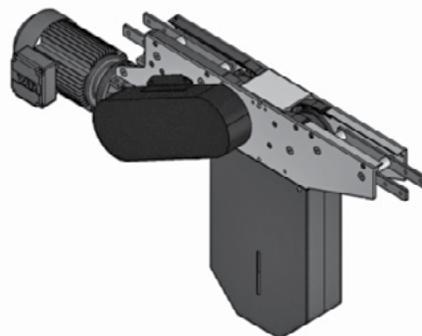
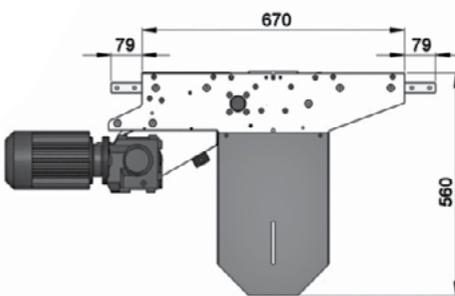
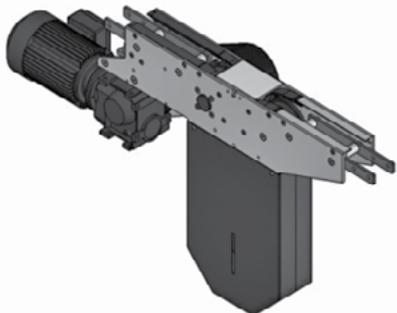
Slide rail required 2-way: 1.0 meter

FM Suspended Catenary Drive without Motor (LEFT)

FMCD-SD

FM Suspended Catenary Drive without Motor (RIGHT)

FMCD-SD



**Max Traction Force: 840N**

The Suspended Catenary Drive Unit is with torque limiter.

**UOM: pc**

Chain required 1-way: 1.4 meter

Slide rail required 1-way: 1.0 meter

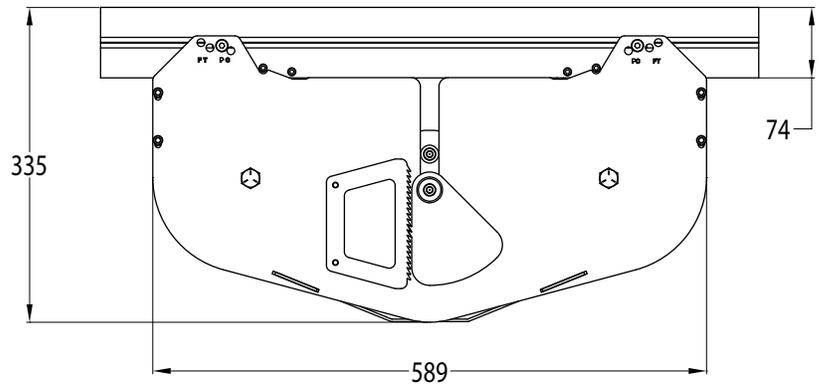
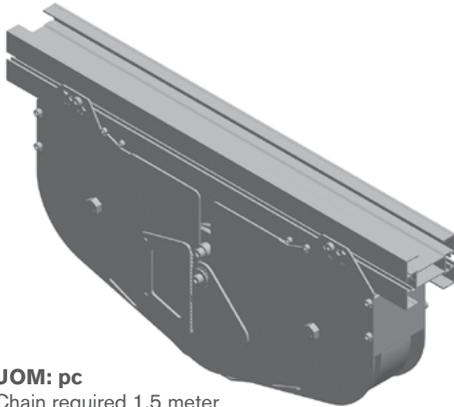
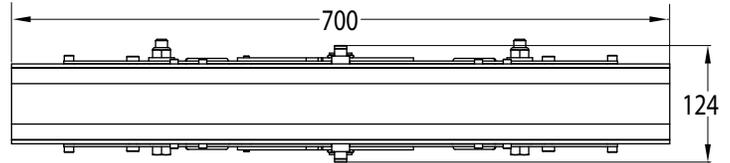
SEW gearmotors are products of SEW Eurodrive

## FM Weighted Take-up Module

FM-WTU-700



- Provides automatic chain stretch take-up
- Reduces noise caused from catenary tail
- Must be used with GP Drive End, sold separately
- Used on conveyors over 12 M long

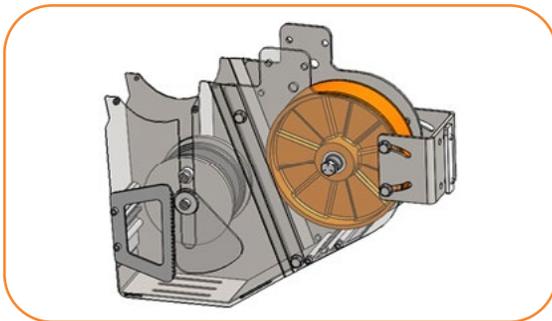


**UOM: pc**

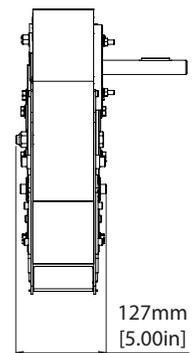
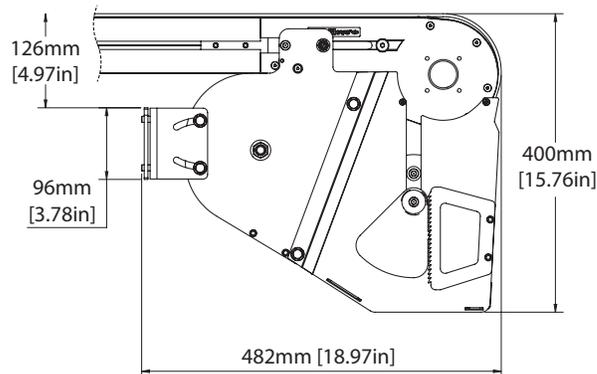
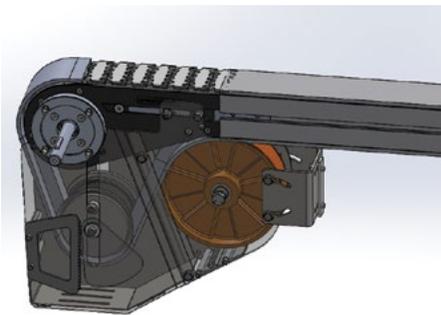
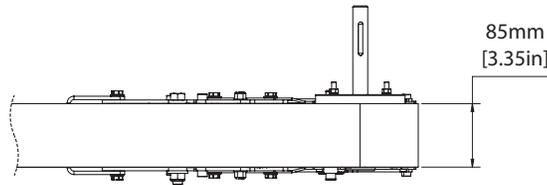
Chain required 1.5 meter  
Slide rail required 2.1 meter

## FM Weighted Take-up Tail Module

FM-WTU-085



- Provides controlled chain take-up for improved conveyor performance
- Compact design fits in similar space as standard direct drive modules
- Smooths conveyor chain movement by helping to eliminate micro-surfing
- Suggested for conveyors over 12.2 M (40 ft) in length
- Capable of inclined and declined arrangement up to 30 degrees
- Improves operator safety by enclosing chain catenary
- Attaches to direct end drive tail
- Compatible with power transfer and driven bridge

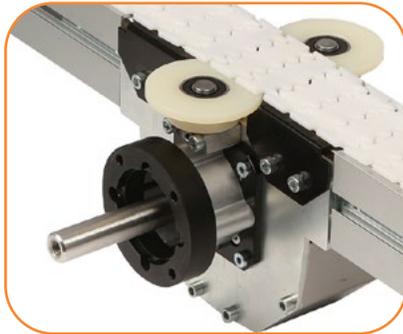


**UOM: pc**

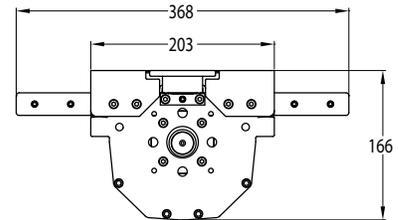
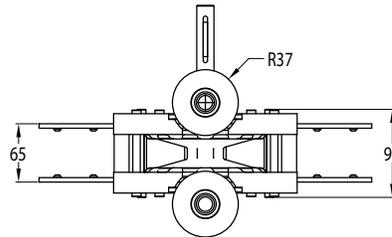
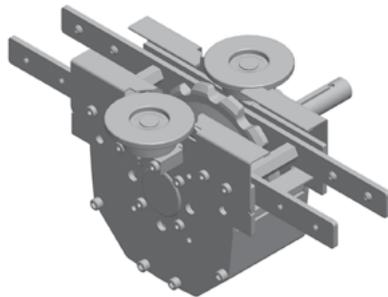
Chain required 1.5 meter  
Slide rail required 2.1 meter

### FM Top Running Drive Module

FMTRD-203



- For top running chain only
- 9M long conveyor length maximum
- 32 Kg load maximum
- Compatible with 3/4 inch shaft gearmotors only

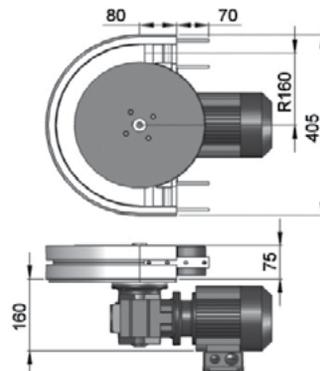
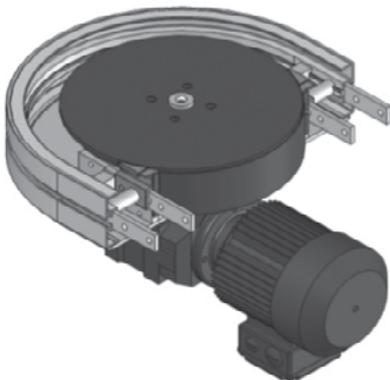


**UOM: pc**

Chain required 0.2 meter

### FM Direct Wheel Drive without Motor

FMWD-DD-0M



**Max Traction Force: 200N**

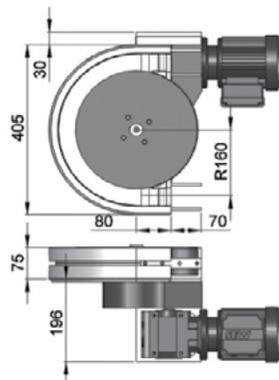
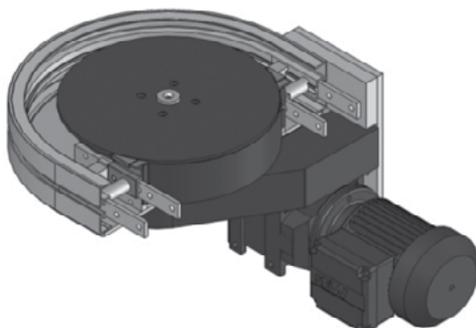
The Direct Wheel Drive Unit is without torque limiter. FMWD-DD-0M represents wheel drive without gear motor. Maximum traction force for FMWD-DD is lower than FMDD and FMSD.

**UOM: pc**

Chain required 1-way: 0.7 meter  
Slide rail required 1-way: 0.7 meter

### FM Suspended Wheel Drive without Motor

FMWD-SD-0M



**Max Traction Force: 200N**

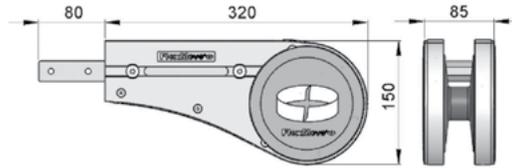
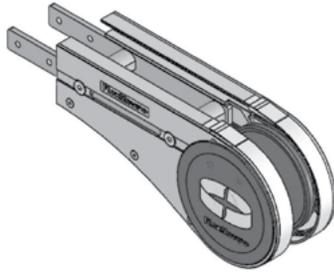
The Suspended Wheel Drive Unit is with torque limiter. FMWD-SD-0M represents wheel drive without gear motor. Maximum traction force for FMWD-SD is lower than FMDD and FMSD.

**UOM: pc**

Chain required 1-way: 0.7 meter  
Slide rail required 1-way: 0.7 meter

SEW gearmotors are products of SEW Eurodrive

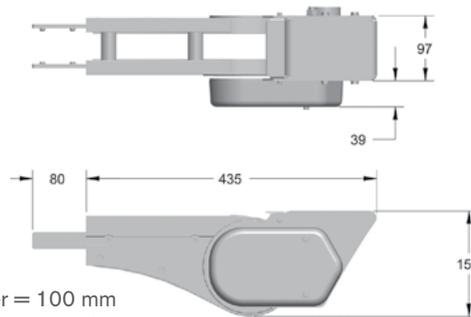
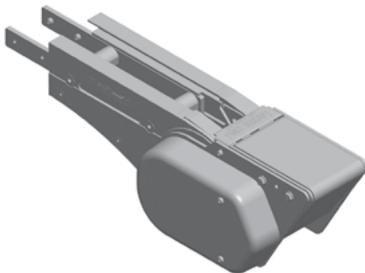
**FM Idler End-65**  
**FMIE-A85**



**UOM: pc**  
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0.5 meter

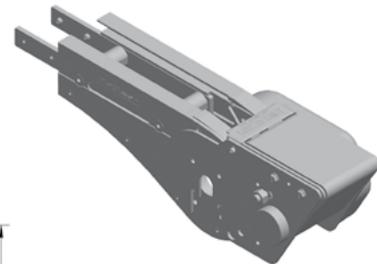
**FM Idler End with Power Transfer (LEFT)**  
**FMIE-A85PT-L**

**FM Idler End with Power Transfer (RIGHT)**  
**FMIE-A65PT-R**



**UOM: pc**

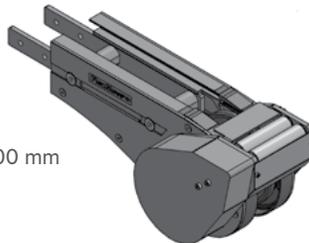
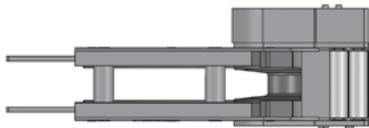
Minimum product length for inline transfer = 100 mm  
Provides extended transfer nose for interfacing with large rollers.



**UOM: pc**  
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0.5 meter

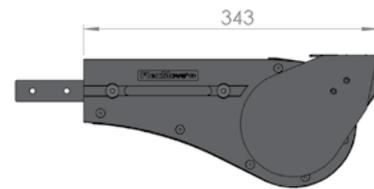
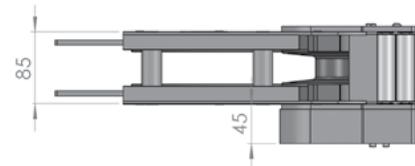
**FM Idler End Driven Transfer Bridge (LEFT)**  
**FMIE-A85DB-A-L**

**FM Direct Drive Driven Transfer Bridge (RIGHT)**  
**FMIE-A85DB-A-R**



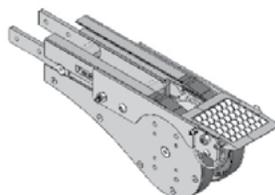
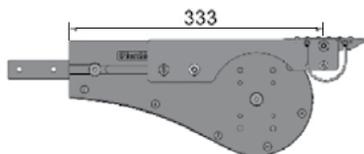
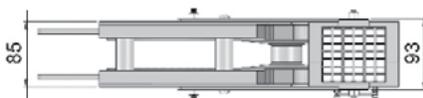
Minimum product length for inline transfer = 100 mm  
Transfer extends past conveyor only 27 mm

**UOM: pc**  
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0.5 meter



**FM Idler Free Roller Transfer Bridge**

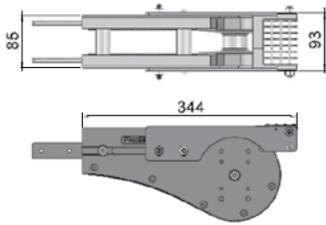
**FMTB-A85**



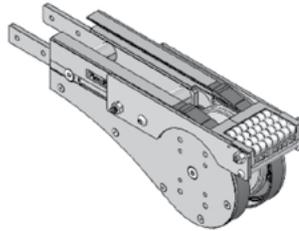
Transfer bridge c/w roller for FMIE-A85, FMDD-A85-XDY and FMDD-A85GP-XDY

**UOM: pc**

## FM Idler End Free Roller Bridge

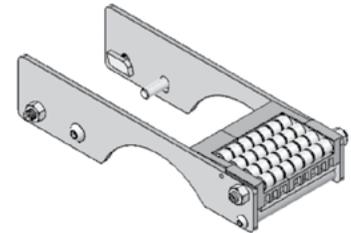


UOM: pc



## FMEB-A85

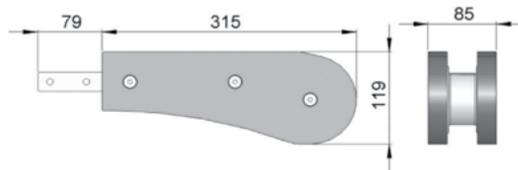
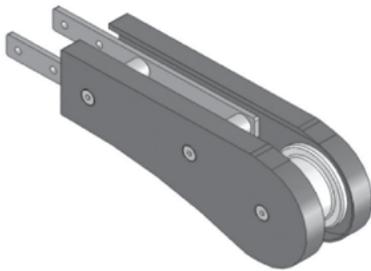
End transfer bridge c/w roller for FMIE-A85, FMDD-A85-XDY and FMDD-A85GP-XDY



UOM: pc

## FM Idler End-315

## FMIE-315B

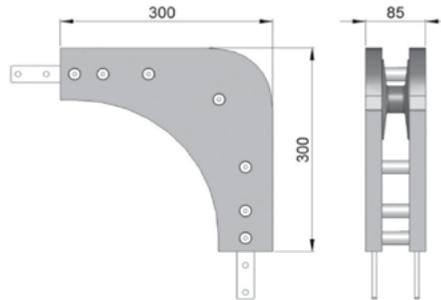


UOM: pc

Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0

## FM Idler Bend

## FMIB-300



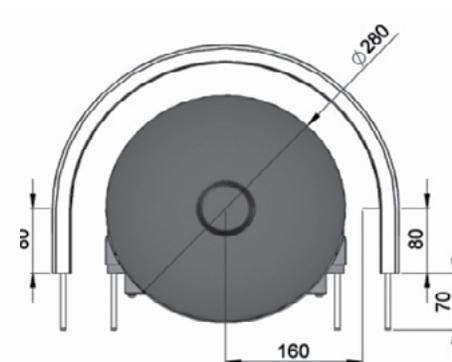
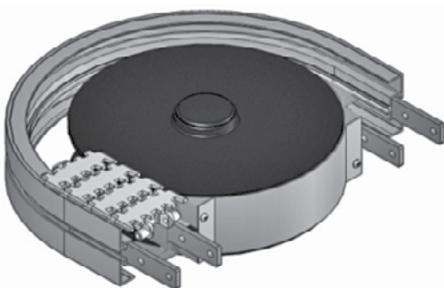
UOM: pc

Chain required 1-way: 0.6 meter  
Slide rail: 0 meter

**Note:** Cannot be used with return chain

## FM Wheel Bend 180°

## FMWB-180R160A

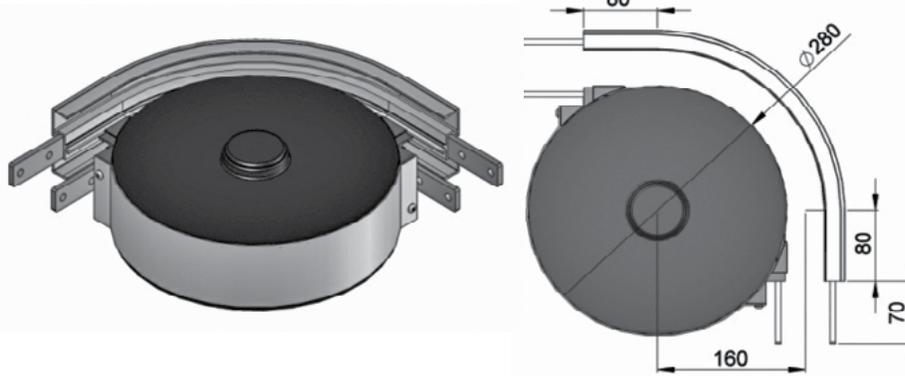


UOM: pc

Chain required 2-way: 1.3 meter  
Slide rail required 2-way: 1.3 meter

FM Wheel Bend 90°

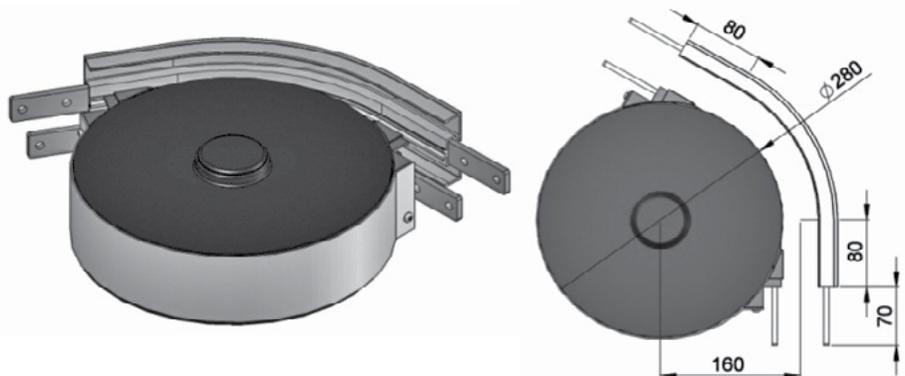
FMWB-90R160A



**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.8 meter

FM Wheel Bend 60°

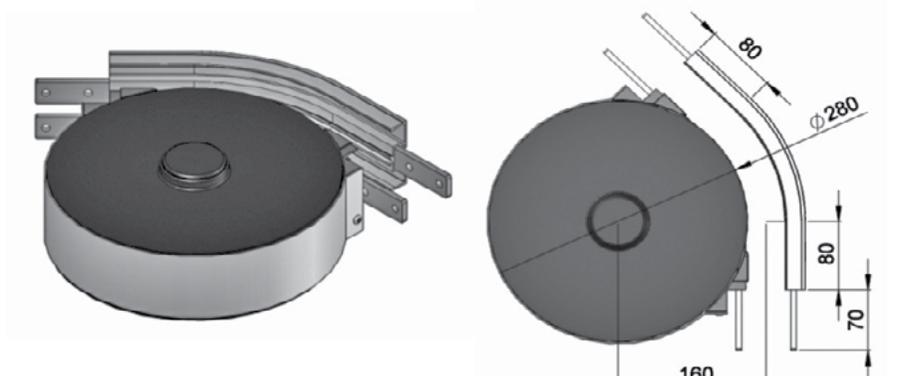
FMWB-60R160A



**UOM: pc**  
 Chain required 2-way: 0.7 meter  
 Slide rail required 2-way: 0.7 meter

FM Wheel Bend 45°

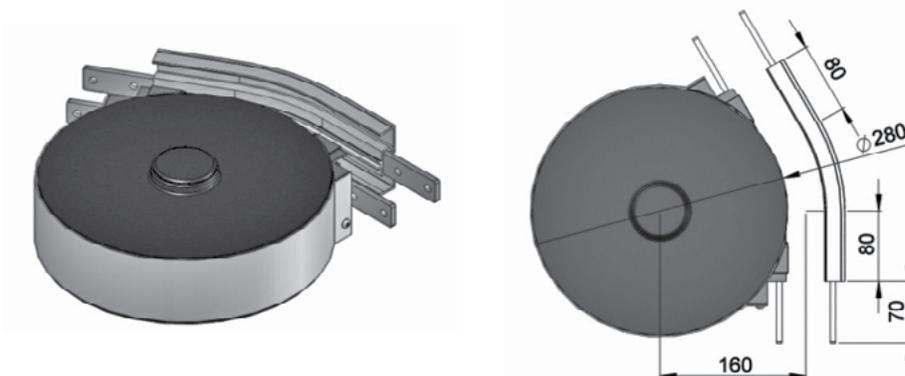
FMWB-45R160A



**UOM: pc**  
 Chain required 2-way: 0.6 meter  
 Slide rail required 2-way: 0.6 meter

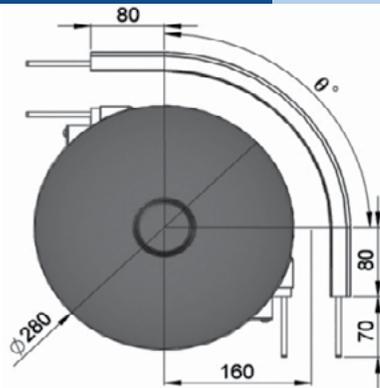
FM Wheel Bend 30°

FMWB-30R160A



**UOM: pc**  
 Chain required 2-way: 0.5 meter  
 Slide rail required 2-way: 0.5 meter

## FM Wheel Bend 5° - 180°



### Example for FM Wheel Bend Ordering

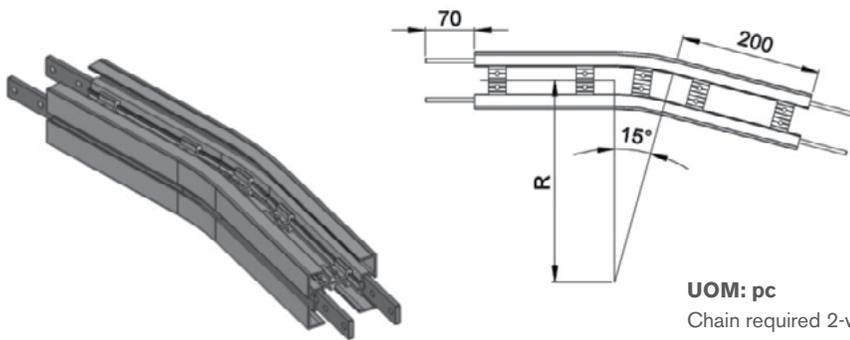
- Wheel bend,  $\theta^\circ \pm 1^\circ$
- FMWB- $\theta^\circ$ R160A

If an angle of 65° is needed for wheel bend, the ordering part number is

### FMWB-65R160A

The outer bend is assembled using connecting strip (FACS-25x140A). Angle of  $\theta^\circ$  must be indicated when ordering.

## FM Horizontal Plain Bend 15°



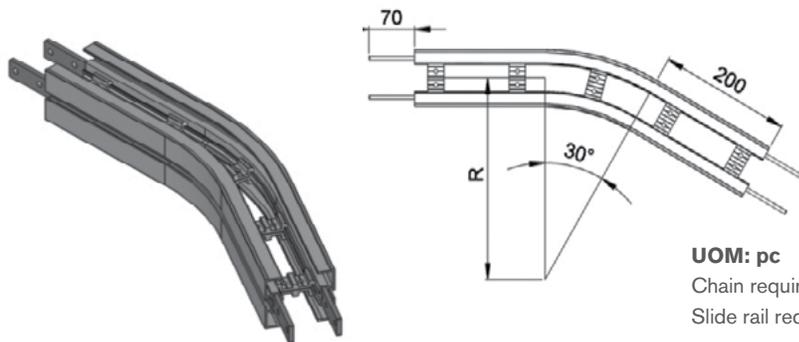
### Horizontal plain bend, 15° ± 1°

- |                  |                     |
|------------------|---------------------|
| R = 300 ± 10 mm  | <b>FMHB-15R300</b>  |
| R = 500 ± 10 mm  | <b>FMHB-15R500</b>  |
| R = 700 ± 10 mm  | <b>FMHB-15R700</b>  |
| R = 1000 ± 10 mm | <b>FMHB-15R1000</b> |

#### UOM: pc

Chain required 2-way (300, 500, 700, 1000): 1, 1.1, 1.2, 1.4 meter  
Slide rail required 2-way (300, 500, 700, 1000): 2, 2.2, 2.4, 2.8 meter

## FM Horizontal Plain Bend 30°



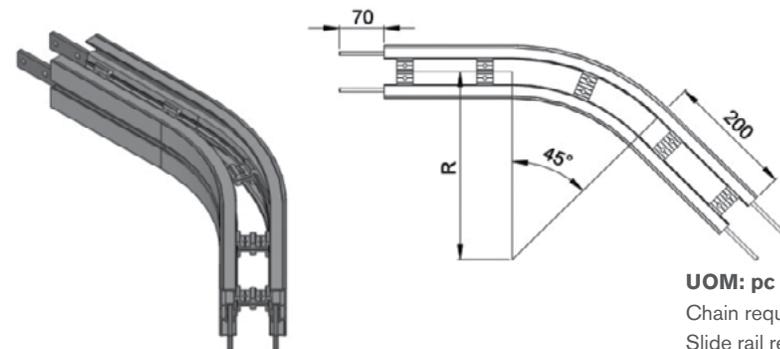
### Horizontal plain bend, 30° ± 1°

- |                  |                     |
|------------------|---------------------|
| R = 300 ± 10 mm  | <b>FMHB-30R300</b>  |
| R = 500 ± 10 mm  | <b>FMHB-30R500</b>  |
| R = 700 ± 10 mm  | <b>FMHB-30R700</b>  |
| R = 1000 ± 10 mm | <b>FMHB-30R1000</b> |

#### UOM: pc

Chain required 2-way (300, 500, 700, 1000): 1.2, 1.4, 1.6, 1.9 meter  
Slide rail required 2-way (300, 500, 700, 1000): 2.4, 2.8, 3.2, 3.8 meter

## FM Horizontal Plain Bend 45°



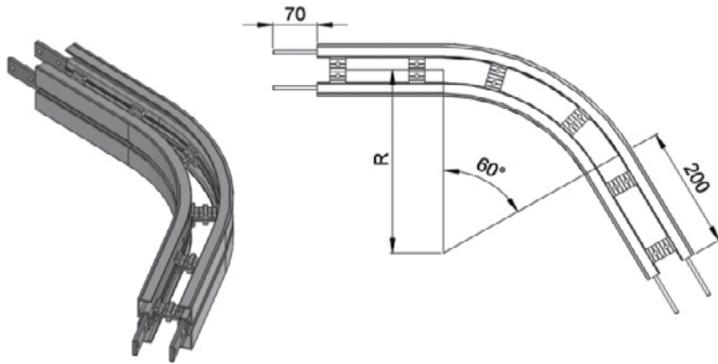
### Horizontal plain bend, 45° ± 1°

- |                  |                     |
|------------------|---------------------|
| R = 300 ± 10 mm  | <b>FMHB-45R300</b>  |
| R = 500 ± 10 mm  | <b>FMHB-45R500</b>  |
| R = 700 ± 10 mm  | <b>FMHB-45R700</b>  |
| R = 1000 ± 10 mm | <b>FMHB-45R1000</b> |

#### UOM: pc

Chain required 2-way (300, 500, 700, 1000): 1.3, 1.6, 1.9, 2.4 meter  
Slide rail required 2-way (300, 500, 700, 1000): 2.5, 2.9, 3.3, 3.9 meter

## FM Horizontal Plain Bend 60°



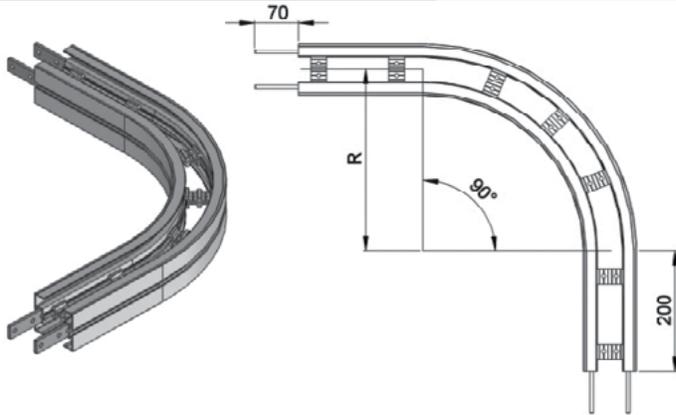
### Horizontal plain bend, 60° ± 1°

- R = 300 ± 10 mm     **FMHB-60R300**
- R = 500 ± 10 mm     **FMHB-60R500**
- R = 700 ± 10 mm     **FMHB-60R700**
- R = 1000 ± 10 mm    **FMHB-60R1000**

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.5, 1.9, 2.3, 2.9 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 2.9, 3.7, 4.6, 5.8 meter

## FM Horizontal Plain Bend 90°



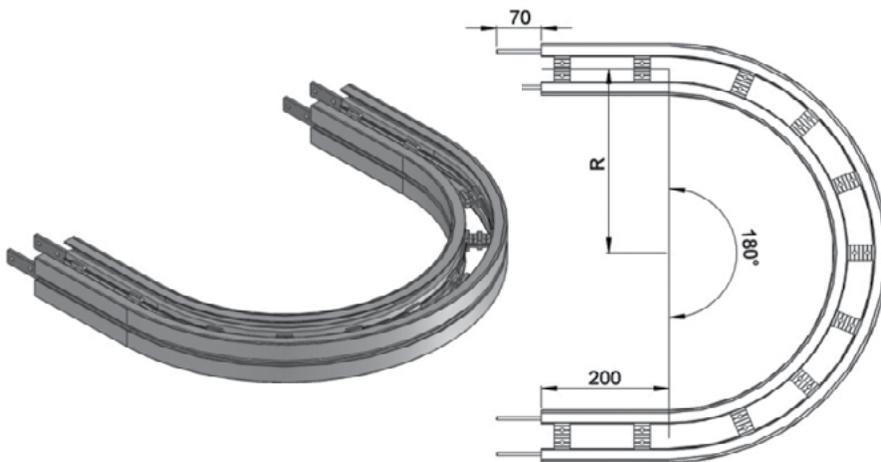
### Horizontal plain bend, 90° ± 1°

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

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.8, 2.4, 3.0, 4.0 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 3.5, 4.8, 6.0, 8.0 meter

## FM Horizontal Plain Bend 180°



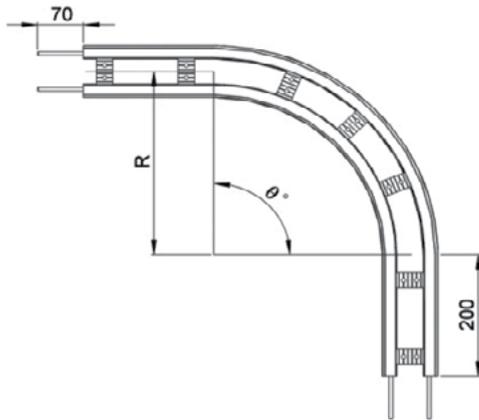
### Horizontal plain bend, 180° ± 1°

- R = 300 ± 10 mm     **FMHB-180R300**
- R = 500 ± 10 mm     **FMHB-180R500**
- R = 700 ± 10 mm     **FMHB-180R700**
- R = 1000 ± 10 mm    **FMHB-180R1000**

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 2.7, 4.0, 5.2, 7.1 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 5.4, 7.9, 1.1, 14.2 meter

## FM Horizontal Plain Bend 5° - 180°



### Example for FM Horizontal Plain Bend Ordering

#### Horizontal plain bend, $\theta^\circ \pm 1^\circ$

- R = 300 ± 10 mm     **FMHB- Ø°R300**
- R = 500 ± 10 mm     **FMHB- Ø°R500**
- R = 700 ± 10 mm     **FMHB- Ø°R700**
- R = 1000 ± 10 mm    **FMHB- Ø°R1000**

If an angle of 120° is needed for radius R500 horizontal plain bend, the ordering part number is

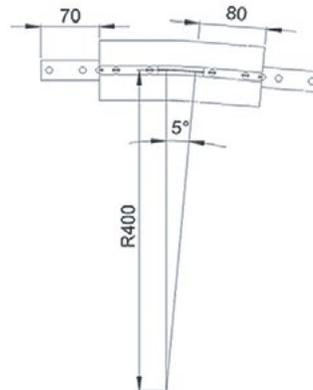
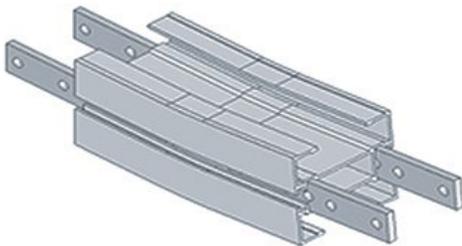
#### **FMHB-120R500**

#### **UOM: pc**

- Chain required 2-way (300, 500, 700, 1000): meter (Variable to angle)
- Slide rail required 2-way (300, 500, 700, 1000): meter (Variable to angle)

## FM Vertical Bend 5°

FMVB-5R400

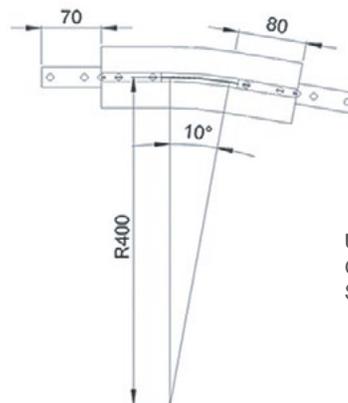
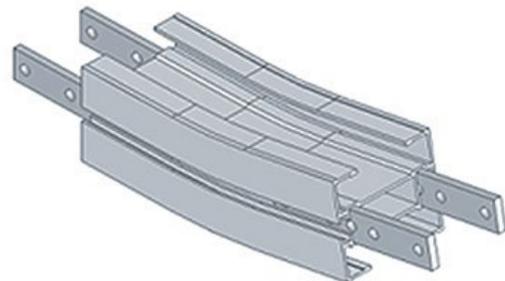


#### **UOM: pc**

- Chain required 2-way: 0.4 meter
- Slide rail required 2-way: 0.8 meter

## FM Vertical Bend 10°

FMVB-10R400

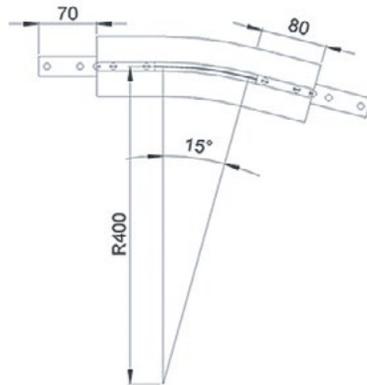
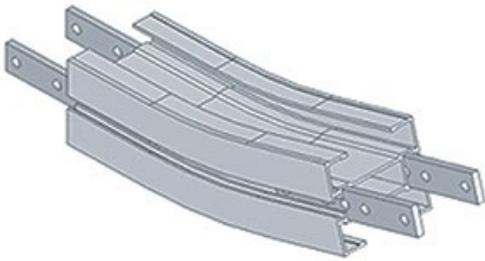


#### **UOM: pc**

- Chain required 2-way: 0.5 meter
- Slide rail required 2-way: 1.1 meter

## FM Vertical Bend 15°

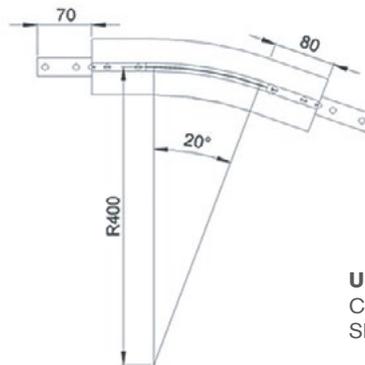
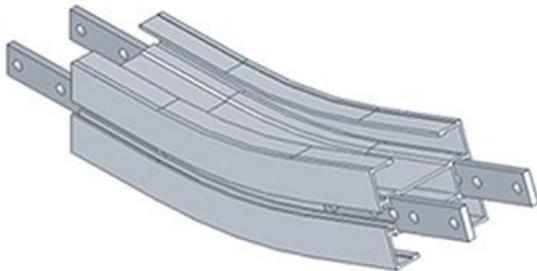
FMVB-15R400



**UOM: pc**  
 Chain required 2-way: 0.5 meter  
 Slide rail required 2-way: 1.1 meter

## FM Vertical Bend 20°

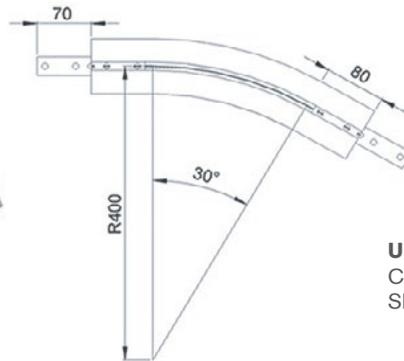
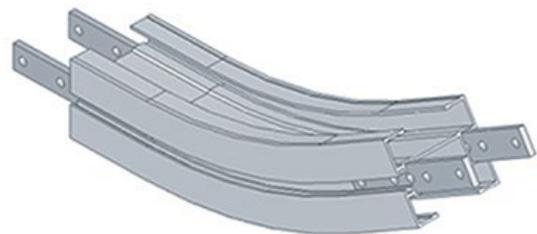
FMVB-20R400



**UOM: pc**  
 Chain required 2-way: 0.6 meter  
 Slide rail required 2-way: 1.2 meter

## FM Vertical Bend 30°

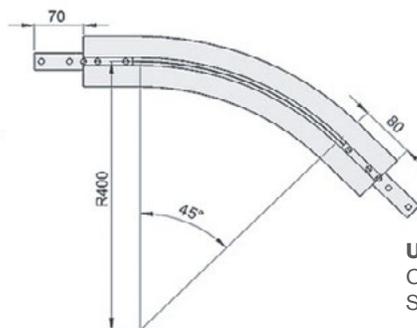
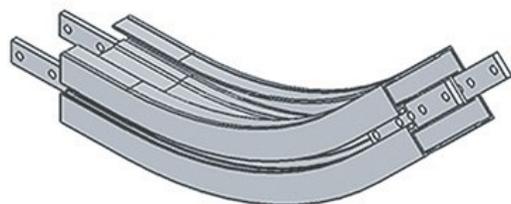
FMVB-30R400



**UOM: pc**  
 Chain required 2-way: 0.7 meter  
 Slide rail required 2-way: 1.5 meter

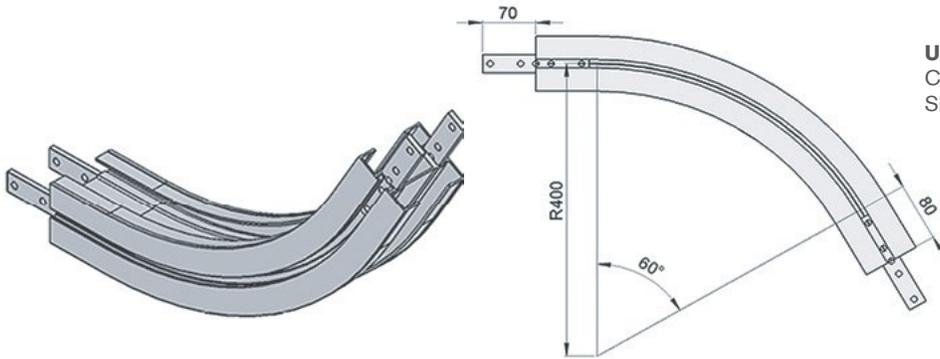
## FM Vertical Bend 45°

FMVB-45R400



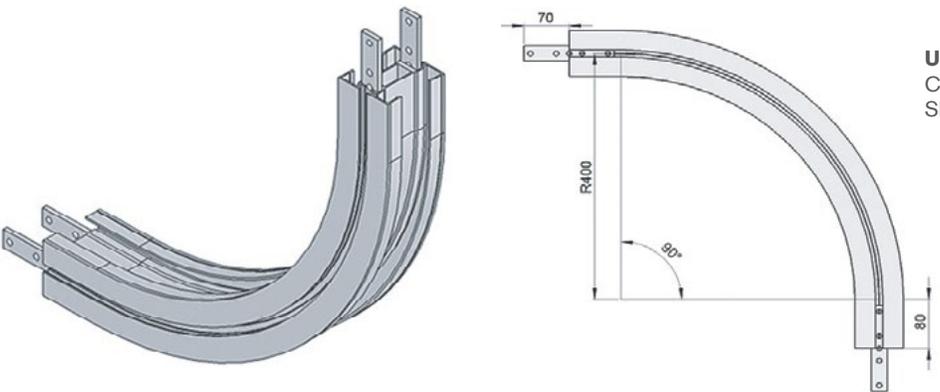
**UOM: pc**  
 Chain required 2-way: 0.9 meter  
 Slide rail required 2-way: 1.9 meter

**FM Vertical Bend 60° FMVB-60R400**



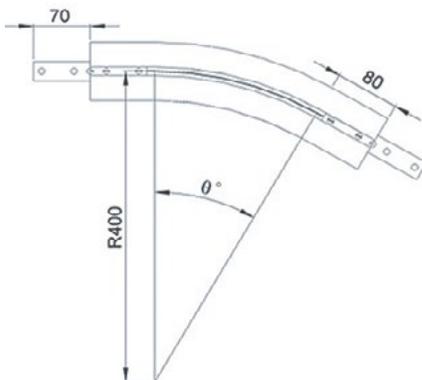
**UOM: pc**  
 Chain required 2-way: 1.2 meter  
 Slide rail required 2-way: 2.3 meter

**FM Vertical Bend 90° FMVB-90R400**



**UOM: pc**  
 Chain required 2-way: 1.6 meter  
 Slide rail required 2-way: 3.2 meter

**FM Vertical Bend 5° - 90°**



**Example for FM Vertical Bend Ordering**

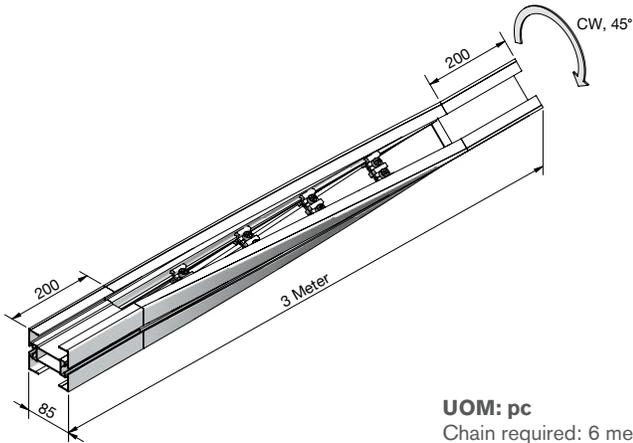
- Vertical bend,  $\theta^\circ \pm 1^\circ$
- FMVB- $\theta^\circ$ R400

If an angle of 65° is needed for vertical bend, the ordering part number is

**FMVB-65R400**

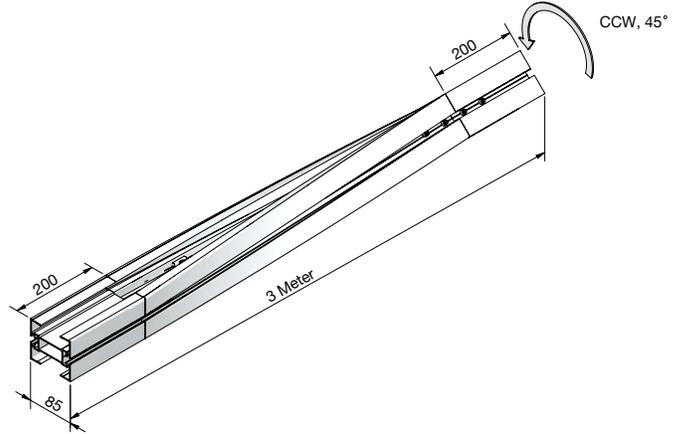
*The outer bend is assembled using connecting strip (FACS-25x140A). Angle of "θ" must be indicated when ordering.*

**FM 45 Degree Twist Conveyor Beam (Clockwise)**  
**FMTB-CW45x3000**

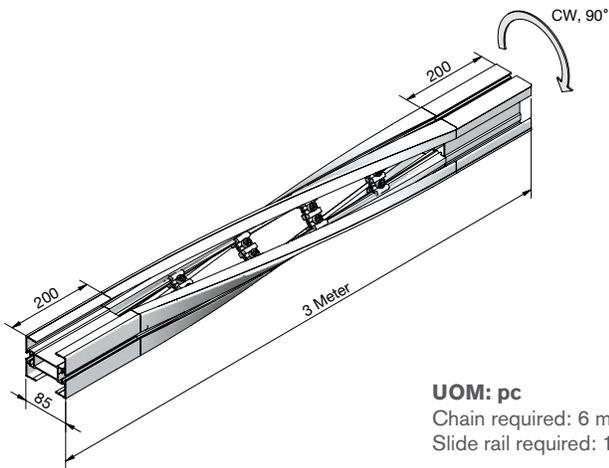


**UOM: pc**  
 Chain required: 6 meter  
 Slide rail required: 12 meter

**FM 45 Degree Twist Conveyor Beam (Counter-Clockwise)**  
**FMTB-CCW45x3000**

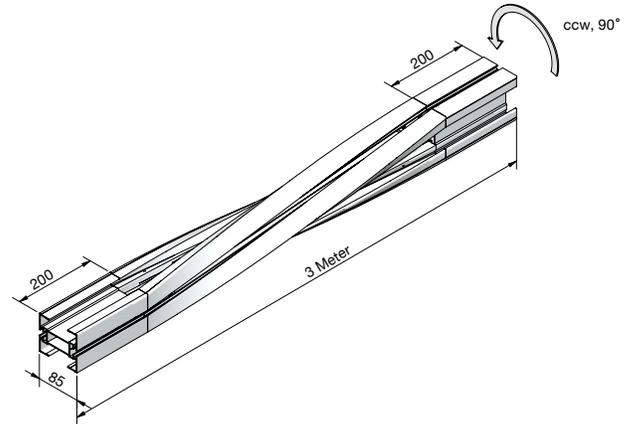


**FM 90 Degree Twist Conveyor Beam (Clockwise)**  
**FMTB-CW90x3000**

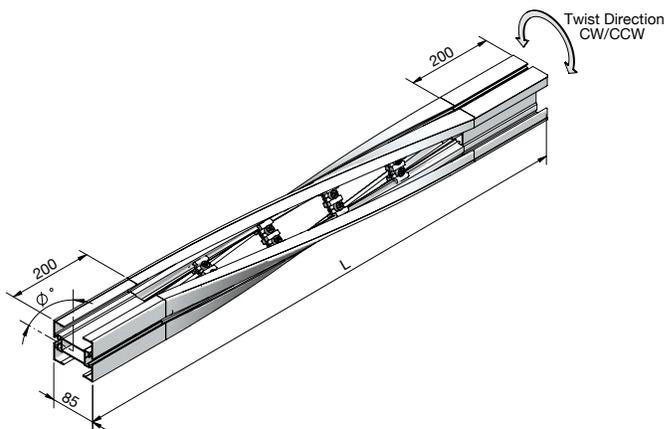


**UOM: pc**  
 Chain required: 6 meter  
 Slide rail required: 12 meter

**FM 90 Degree Twist Conveyor Beam (Counter-Clockwise)**  
**FMTB-CCW90x3000**



**FM Twist Conveyor Beam 15° - 90°**  
**FMTB-AAABBx3000**      Where AAA = CW or CCW, BB = Angle



**Example for FM Twist Conveyor Beam Ordering**

- Twist Conveyor Beam,  $\varnothing^\circ \pm 5^\circ$

If an angle of  $30^\circ$  is needed for twist beam, in clockwise direction and length 3.0 m, the ordering part number is

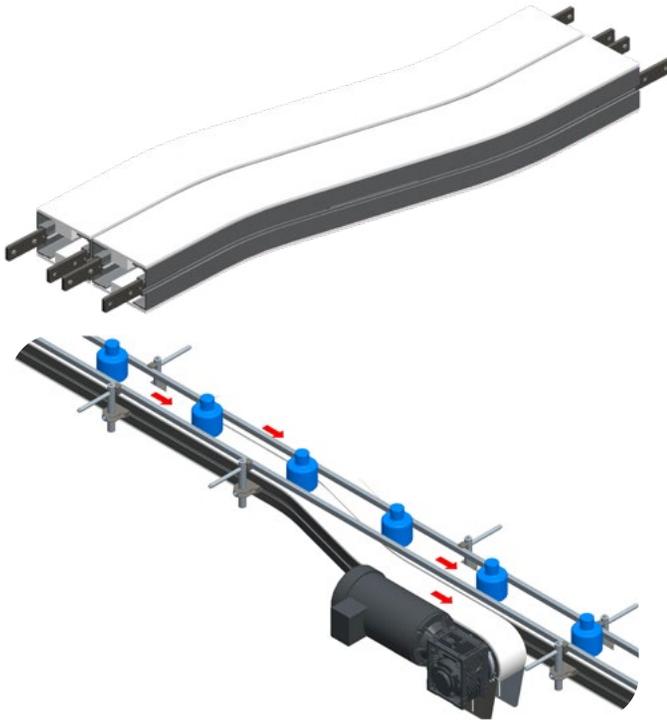
**FMTB-CW30x3000**

Angle of  $\varnothing^\circ$ , twist direction, and length  $L$ , must be indicated when ordering.

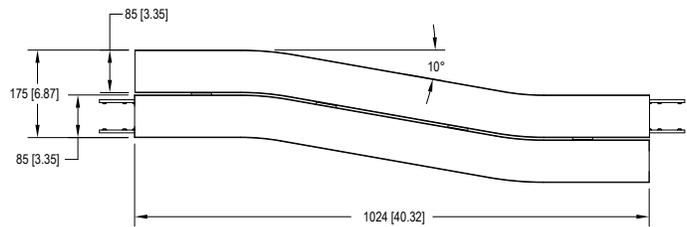
**UOM: pc**  
 Chain required: 6 meter  
 Slide rail required: 12 meter

### FM S In-Line Transfer Module

FMST-085



- S In-Line Modules provide a standard, compact way to side transfer product from conveyor to conveyor.
- Straight guiding is placed across the transfer module for smooth In-Line product flow
- Conveyors are mounted together to provide a smooth transfer even for small products
- S In-Line transfers are compact in the width dimension

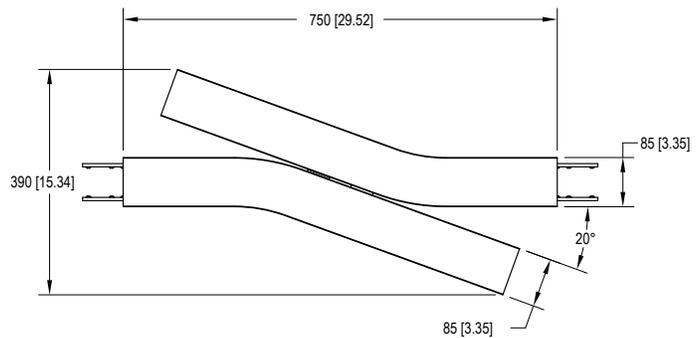


### FM X In-Line Transfer Module

FMXT-085



- X In-Line Modules provide a standard, compact way to side transfer product from conveyor to conveyor.
- Straight guiding is placed across the transfer module for smooth In-Line product flow
- Conveyors are mounted together to provide a smooth transfer even for small products
- X In-Line transfers are compact in the length direction



Variety of chain type suitable for wide range of applications either horizontal or vertical product transportation. Capacity higher than FK, FS, FM. The maximum product width to be conveyed can be referred to guide rail assembly pages.

### FC Series Characteristic

**Beam Width:** 105 mm

**Product Width:** Refer to Guide Rail Assembly

### Accessories Needed

**Slide Rail Required:** FASR-25 OR FASR-25U

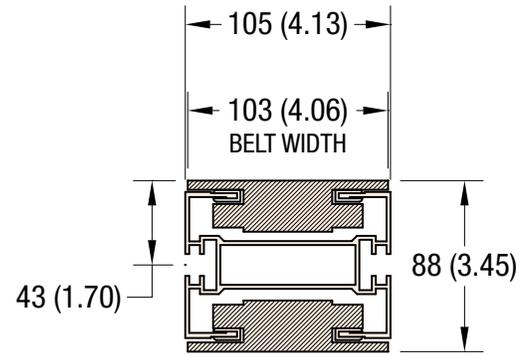
**Slide Rail Color:** White or Natural Color

**Slide Rail Material:** HDPE OR UHMW-PE

**Slide Rail Rivet & Screw:** FASLR-4X6 or FASLS-M5

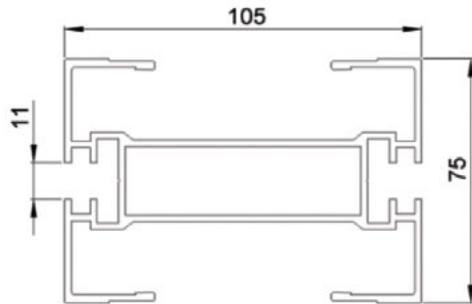
Connecting strip is used to connect two beams.

**Connecting Strip:** FACS-25x140A

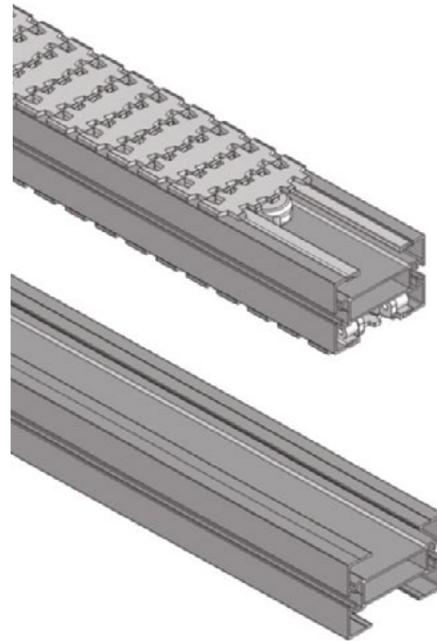


**105 MM WIDTH**

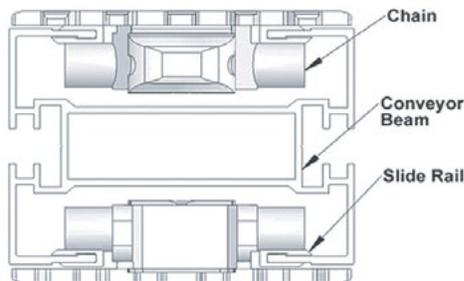
### Conveyor Beam FCCB-3



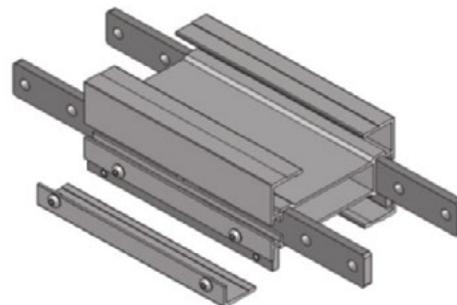
UOM: 3 Meter / Length



### Chain Connecting Module FCCC-160



UOM: pc



### Chain Common Data

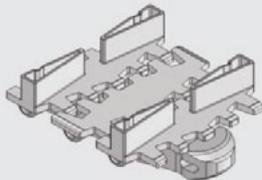
**Packaging:** 5 m per box  
**Pitch:** 35.5 mm  
**Width:** 103 mm  
 Tensile Strength at 20°C: 6000N  
**Color:** White & Black (Conductive)

### Material:

**Chain:** White Acetal / POM  
**Pivot:** Polyamide  
**Pivot Pin:** Stainless Steel  
**Insert (Wedge & Friction):** TPE Grey

### Example for FCCT-5A17-L#

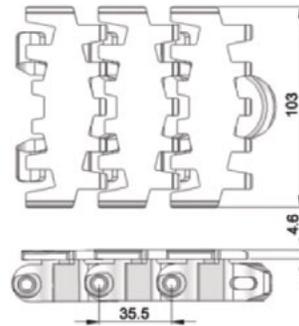
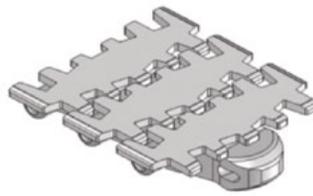
# = 1 cleated top chain with alternate of # link of plain chain



The above chain is FCCT-5A17-L1, 1 link cleated top chain with alternate of 1 link of plain chain.

**Note: # = 1, 2, 3, 4, 5.....20**

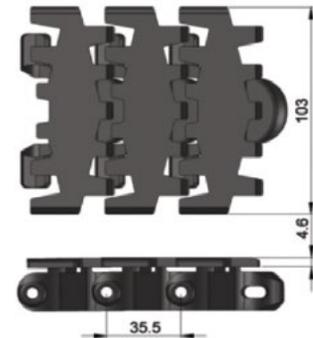
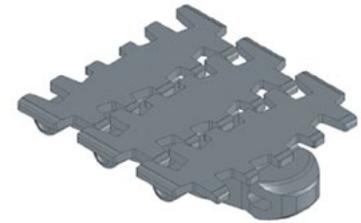
### Standard Plain Chain FCPC-5



**UOM: 5 Meter / box**

Application: Suitable for horizontal and slope < 5° transport of products with accumulation.

### Conductive Chain FCPC-5CD

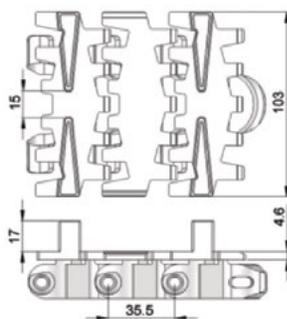
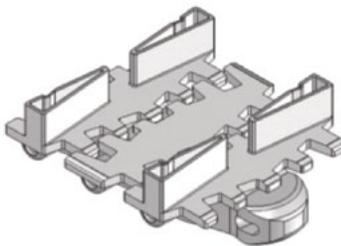


**UOM: 5 Meter / box**

Application: Suitable for transport of static sensitive product.

### Cleat Top Chain FCCT-5A17-L#

# = 1, 2, 3, 4, 5.....20

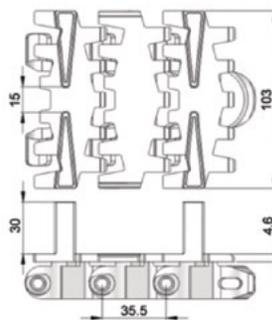
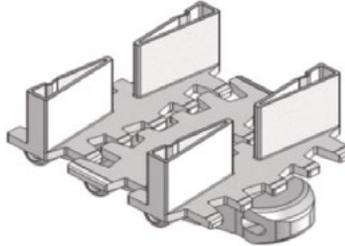


**UOM: 5 Meter / box**

Application: Suitable for vertical transport of product with no accumulation.

### Cleat Top Chain FCCT-5A30-L#

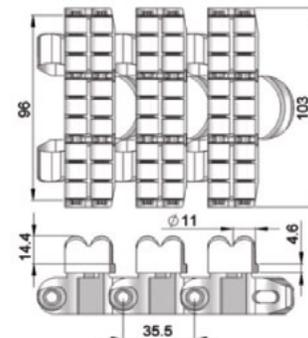
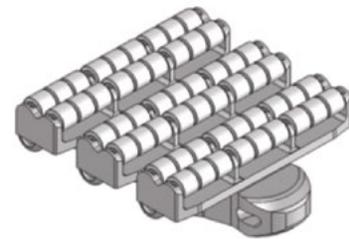
# = 1, 2, 3, 4, 5.....20



**UOM: 5 Meter / box**

Application: Suitable for vertical transport of product with no accumulation.

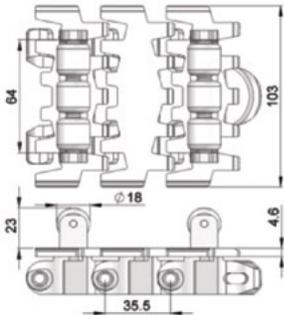
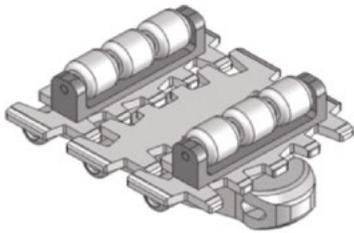
### Roller Top Chain FCRT-5



**UOM: 5 Meter / box**

Application: Suitable for accumulation of product with low friction and pressure.

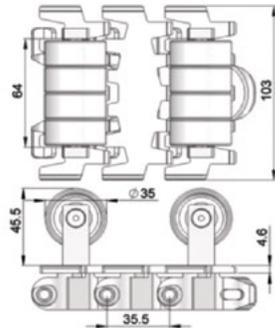
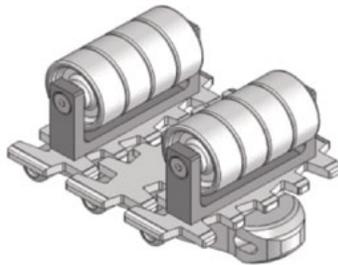
## Roller Cleat Chain **FCRC-5A-L#**



**UOM: 5 Meter / box**

Application: Suitable for vertical transportation of product in slope with no accumulation.

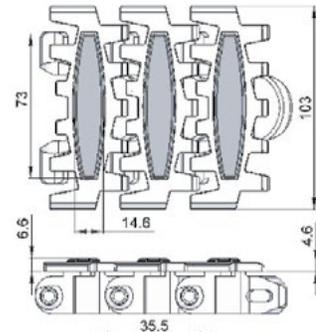
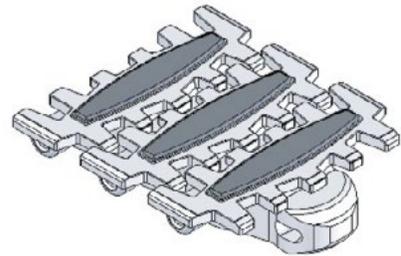
## Roller Cleat Chain **FCRC-5B-L#**



**UOM: 5 Meter / box**

Application: Suitable for vertical transportation of product in slope with no accumulation.

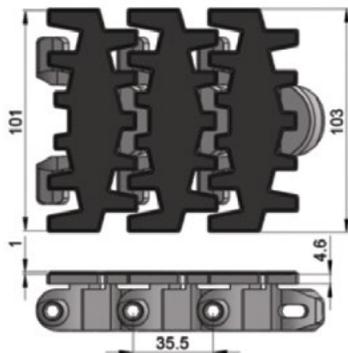
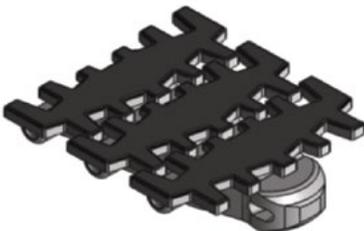
## Friction Top Chain **FCFT-5**



**UOM: 5 Meter / box**

Application: Suitable for transport product in slope  $> 5^\circ$  but  $\leq 30^\circ$  without accumulation.

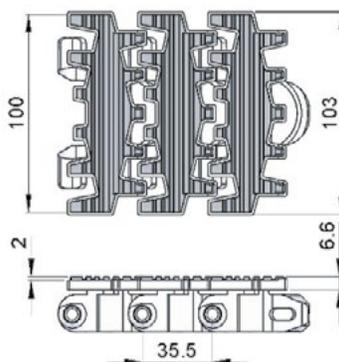
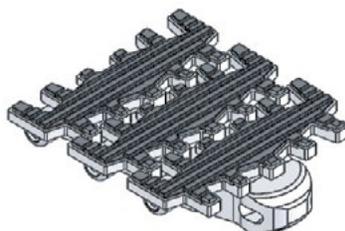
## Friction Top Chain **FCFT-5A**



**UOM: 5 Meter / box**

Application: Suitable for transport product in of slope  $> 5^\circ$  but  $\leq 30^\circ$  without accumulation.

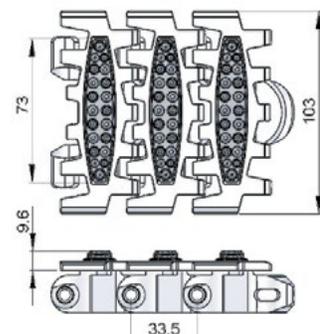
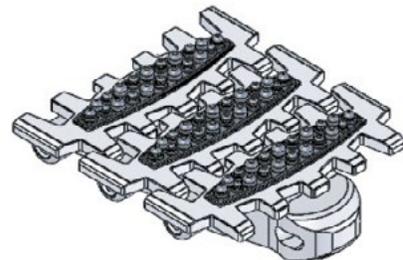
## Friction Top Chain **FCFT-5B**



**UOM: 5 Meter / box**

Application: Suitable for transport product in slope  $> 5^\circ$  but  $\leq 40^\circ$  without accumulation.

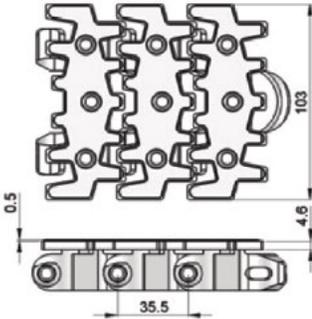
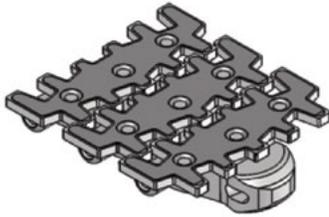
## Friction Top Chain **FCFT-5C**



**UOM: 5 Meter / box**

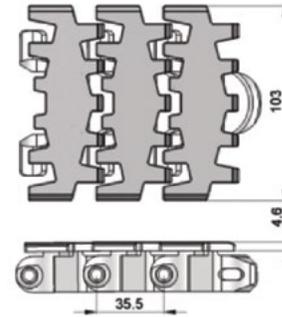
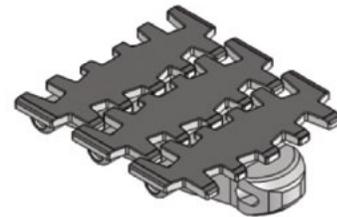
Application: Suitable for transport product in of slope  $> 5^\circ$  but  $\leq 35^\circ$  without accumulation.

## S/steel Top Chain **FCST-5S**



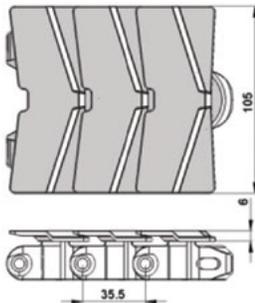
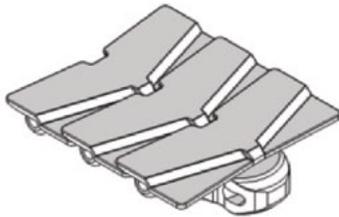
**UOM: 5 Meter / box**  
 Application: Suitable to transport metal products in accumulation.

## Flocked Chain **FCFK-5**



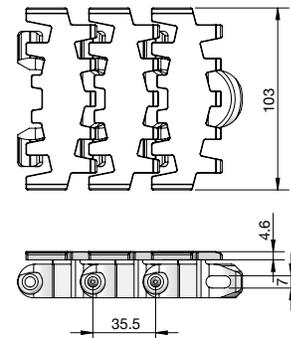
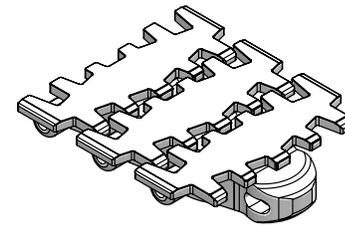
**UOM: 5 Meter / box**  
 Application: Suitable to transport lightweight, fragile and scratch sensitive product.

## Safety Chain **FCPC-5V**



**UOM: 5 Meter / box**  
 Application: (Safety Chain) Suitable for horizontal and slope <math>< 5^\circ</math> transport of products with accumulation.

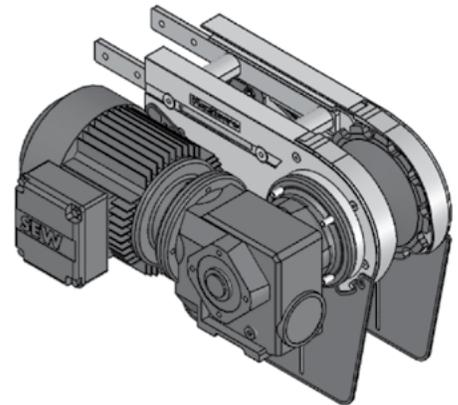
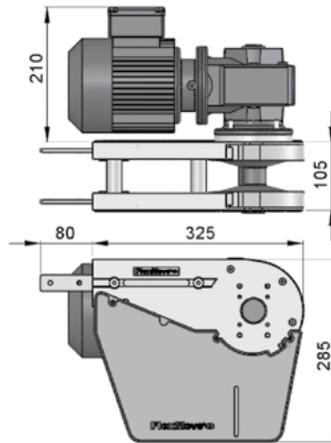
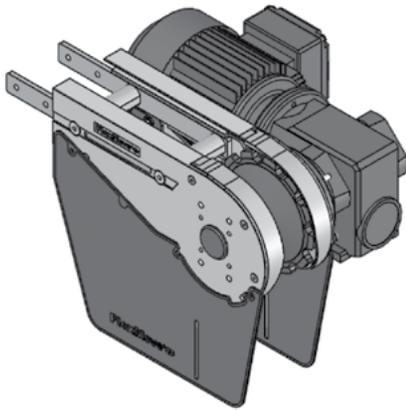
## Twist Chain **FCPC-5M**



**UOM: 5 Meter / box**  
 Application: Suitable twist conveyor beam; horizontal and slope <math>< 5^\circ</math> transport of products with accumulation

**FC Direct End Drive without Motor (LEFT)**  
FCDD-A105-XDY (See Chart)

**FC Direct End Drive without Motor (RIGHT)**  
FCDD-A105-XDY (See Chart)



| Part Number |   | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|---|--------------------|-----------|----------------------|
| FCDD-A105   | - | X                  | D         | Y                    |
|             |   | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             |   | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             |   | A = 20 mm Aux Only |           |                      |

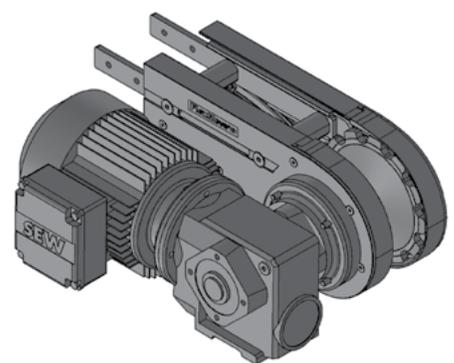
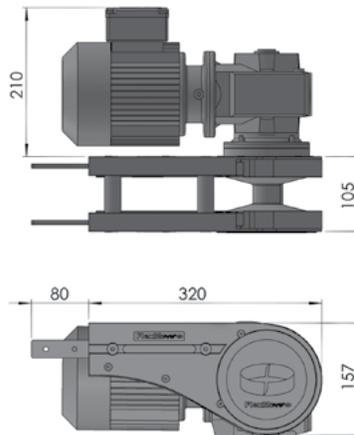
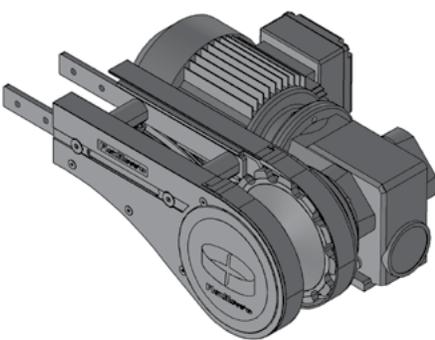
**Max Traction Force: 1250N**  
The Direct End Drive Unit is without torque limiter.

**UOM: pc**  
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0.5 meter

\*3/4 inch shaft option available in North America only.

**FC Direct End Drive unit without Motor GP (LEFT)**  
FCDD-A105GP-XDY (See Chart)

**FC Direct End Drive unit without Motor GP (RIGHT)**  
FCDD-A105GP-XDY (See Chart)



Requires the use of connecting or weighted take-up module for chain maintenance.

| Part Number |   | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|---|--------------------|-----------|----------------------|
| FCDD-A105GP | - | X                  | D         | Y                    |
|             |   | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             |   | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             |   | A = 20 mm Aux Only |           |                      |

**Max Traction Force: 1250N**  
The Direct End Drive Unit GP is without torque limiter.

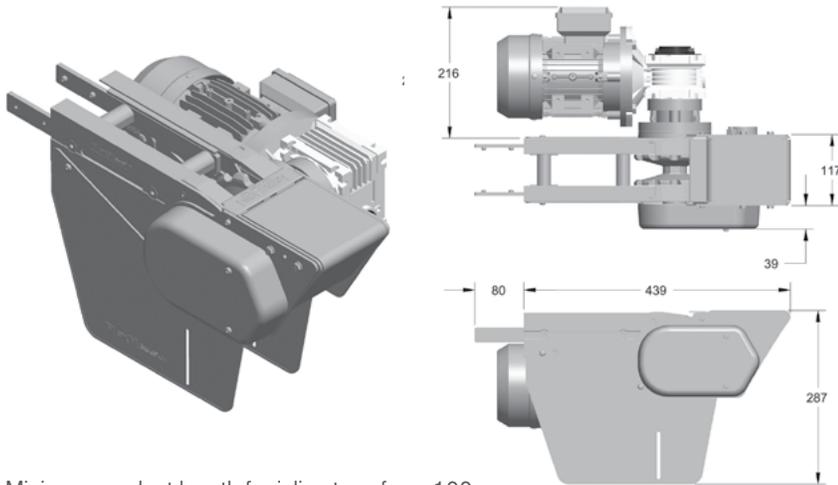
**UOM: pc**  
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0.5 meter

\*3/4 inch shaft option available in North America only.

SEW gearmotors are products of SEW Eurodrive

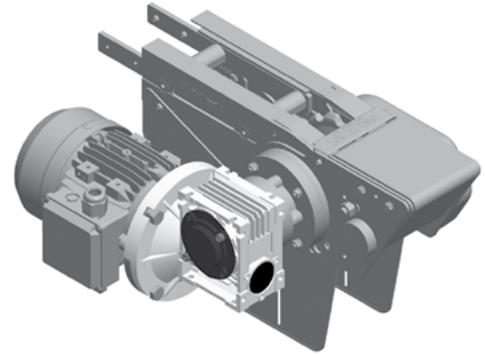
### FC Direct with Power Transfer Motor (LEFT)

FCDD-A105PT-XD (See Chart)



### FC Direct with Power Transfer Motor (RIGHT)

FCDD-A105PT-XD (See Chart)



Minimum product length for inline transfer = 100 mm  
 Maximum speed is 30 m/min (100 ft/min)  
 Only one power transfer needed on either infeed or discharge trail required for end to end transfer. Provides extended transfer nose for interfacing with large rollers.

| Part Number |   | Shaft Selection | Direction |
|-------------|---|-----------------|-----------|
| FCDD-A105PT | - | X               | D         |
|             |   | 0 = 20 mm       | L = Left  |
|             |   | E = 3/4 in*     | R = Right |

\*3/4 inch shaft option available in North America only.

### Max Traction Force: 1250N

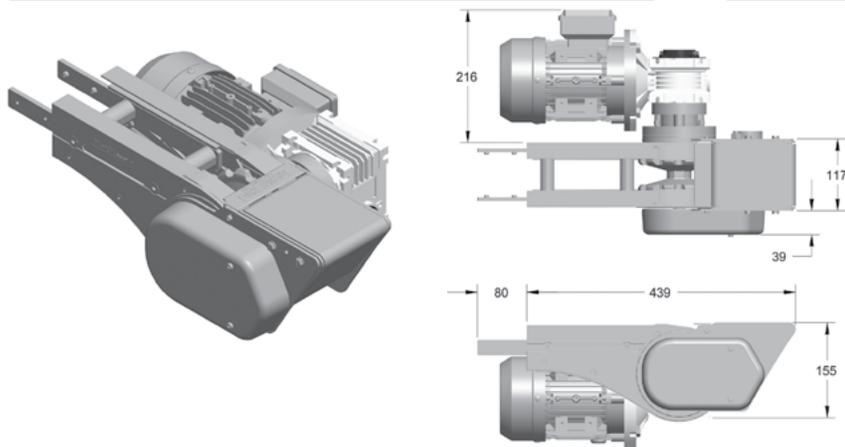
The Direct End Drive Unit is without torque limiter.

### UOM: pc

Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

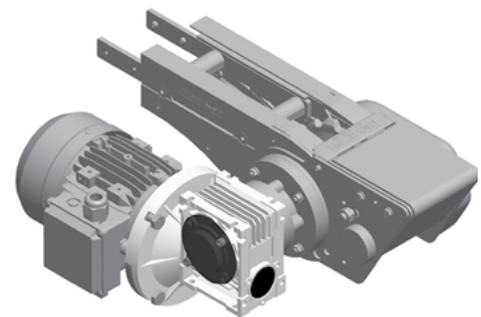
### FC GP Direct with Power Transfer Motor (LEFT)

FCDD-A105GPPT-XD (See Chart)



### FC GP Direct with Power Transfer Motor (RIGHT)

FCDD-A105GPPT-XD (See Chart)



Minimum product length for inline transfer = 100 mm  
 Maximum speed is 30 m/min (100 ft/min)  
 Only one power transfer needed on either infeed or discharge trail required for end to end transfer. Provides extended transfer nose for interfacing with large rollers.  
 Requires the use of connecting or weighted take-up module for chain maintenance.

| Part Number   |   | Shaft Selection | Direction |
|---------------|---|-----------------|-----------|
| FCDD-A105GPPT | - | X               | D         |
|               |   | 0 = 20 mm       | L = Left  |
|               |   | E = 3/4 in*     | R = Right |

\*3/4 inch shaft option available in North America only.

### Max Traction Force: 1250N

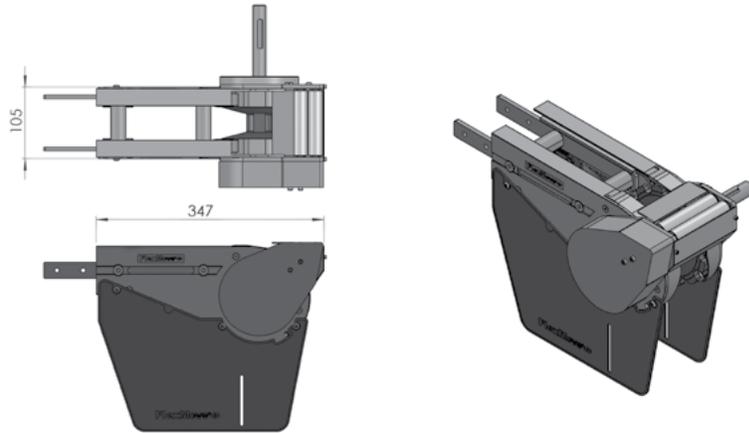
The Direct End Drive Unit GP is without torque limiter.

### UOM: pc

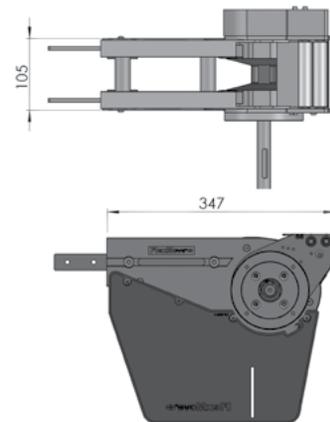
Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

SEW gearmotors are products of SEW Eurodrive

**FC Direct Drive Driven Transfer Bridge (LEFT)**  
FCDD-A105DB-A-0L



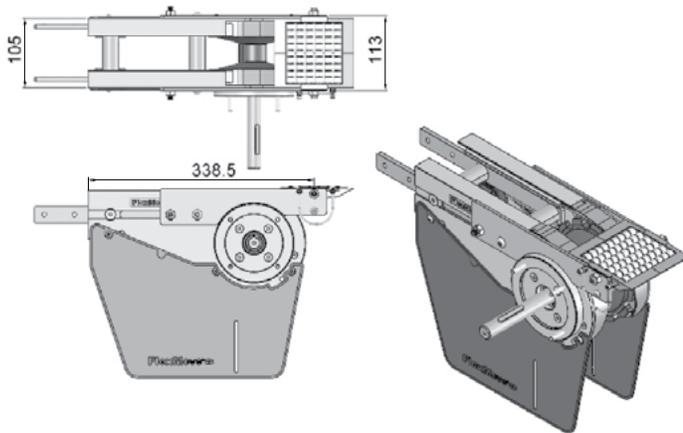
**FC Direct Drive Driven Transfer Bridge (RIGHT)**  
FCDD-A105DB-A-0R



**Max Traction Force: 1250N**  
The Direct End Drive Unit is without torque limiter.

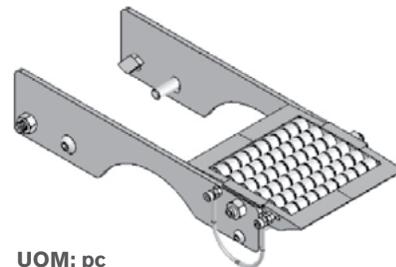
**UOM: pc**  
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0.5 meter

**FC Direct Drive Free Roller Transfer Bridge (LEFT/RIGHT)**



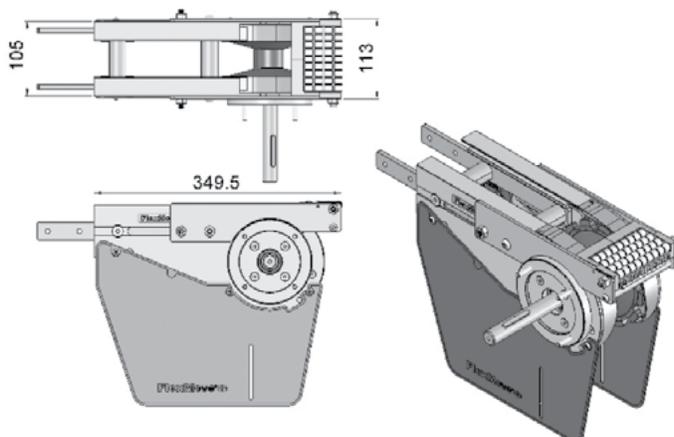
**FCTB-A105**

Transfer bridge c/w roller for FCIE-A105, FCDD-A105-XDY and FCDD-A105GP-XDY



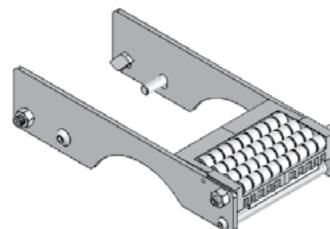
**UOM: pc**

**FC Direct Drive End Free Roller Bridge (LEFT/RIGHT)**



**FCEB-A105**

End transfer bridge c/w roller for FCIE-A105, FCDD-A105-XDY and FCDD-A105GP-XDY

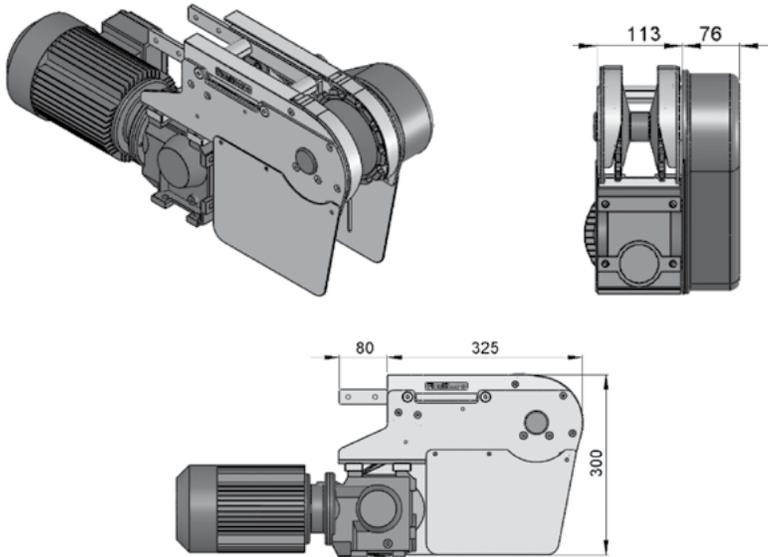


**UOM: pc**

*SEW gearmotors are products of SEW Eurodrive*

### FC Suspended End Drive without Motor (LEFT)

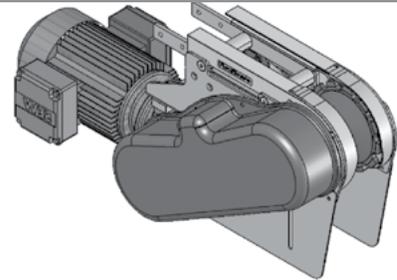
FCSD-A105-0L (with Torque Limiter)  
FCSD-A105SPT-0L (without Torque Limiter)



- Locates gearmotor below conveyor for compact applications.
- Includes torque limiter protecting chain and motor from overload.
- Chain pull capacity at 1250N for unit without torque limiter.
- Chain pull capacity at 840N for unit with torque limiter.

### FC Suspended End Drive without Motor (RIGHT)

FCSD-A105-0R (with Torque Limiter)  
FCSD-A105SPT-0R (without Torque Limiter)



#### Max Traction Force:

**1250N** (without limiter)

**800N** (with limiter)

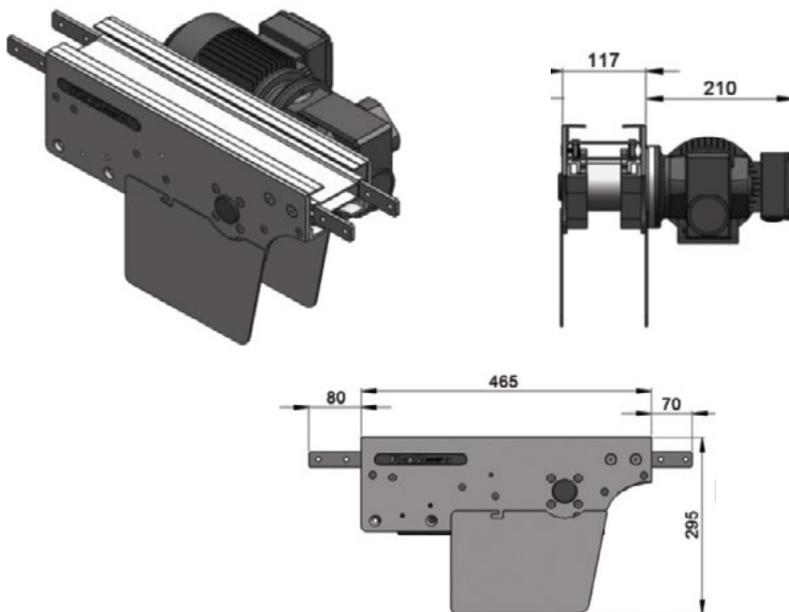
#### UOM: pc

Chain required 2-way: 0.8 meter

Slide rail required 2-way: 0.5 meter

### FC Direct Intermediate Drive without Motor (LEFT)

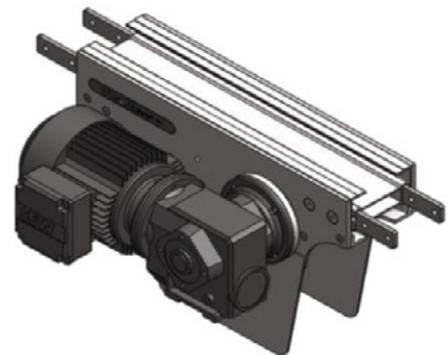
FCID-DD-0L1



- Located in middle section of conveyor to free up drive end.

### FC Direct Intermediate Drive without Motor (RIGHT)

FCID-DD-0R1



#### Max Traction Force: 200N

The Direct Intermediate Drive Unit is without torque limiter.

#### UOM: pc

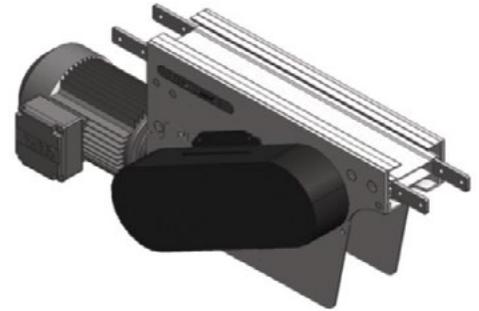
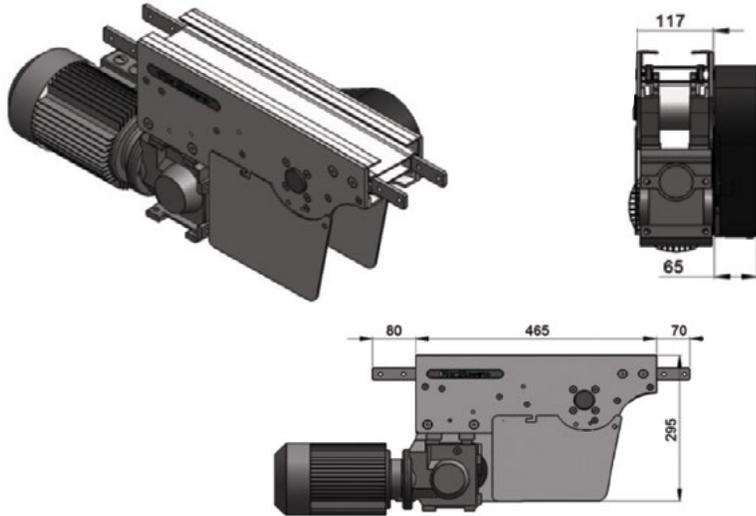
Chain required 2-way: 0.8 meter

Slide rail required 2-way: 0.5 meter

SEW gearmotors are products of SEW Eurodrive

FC Suspended Intermediate Drive without Motor (LEFT)  
FCID-SD -0L1

FC Suspended Intermediate Drive without Motor (RIGHT)  
FCID-SD-0R1



**Max Traction Force: 200N**

The Suspended Intermediate Drive Unit is with torque limiter.

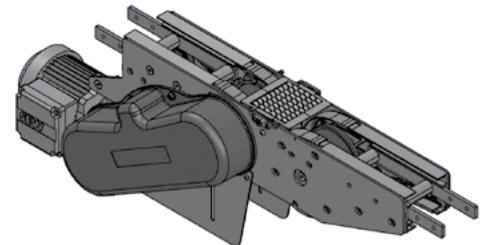
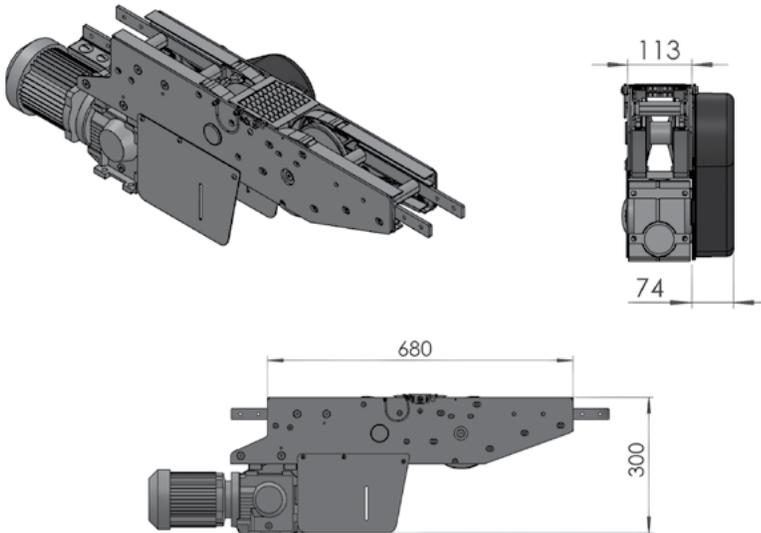
**UOM: pc**

Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0.5 meter

- Located in middle of conveyor to free up drive end.
- Includes torque limiter protecting chain and motor form overload.
- Limits chain pull capacity at 200N.

FC Combined Suspended Drive & Idler (LEFT)  
FCCDI-SD-A105-0L

FC Combined Suspended Drive & Idler (RIGHT)  
FCCDI-SD-A105-0R



**Max Traction Force: 800N**

The Combine Suspended End Drive Unit is with torque limiter.

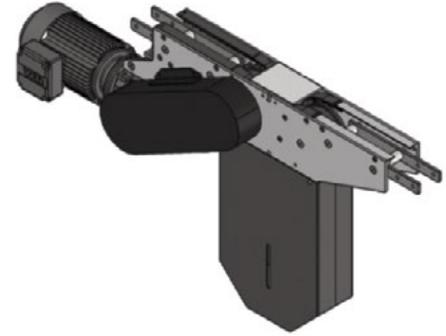
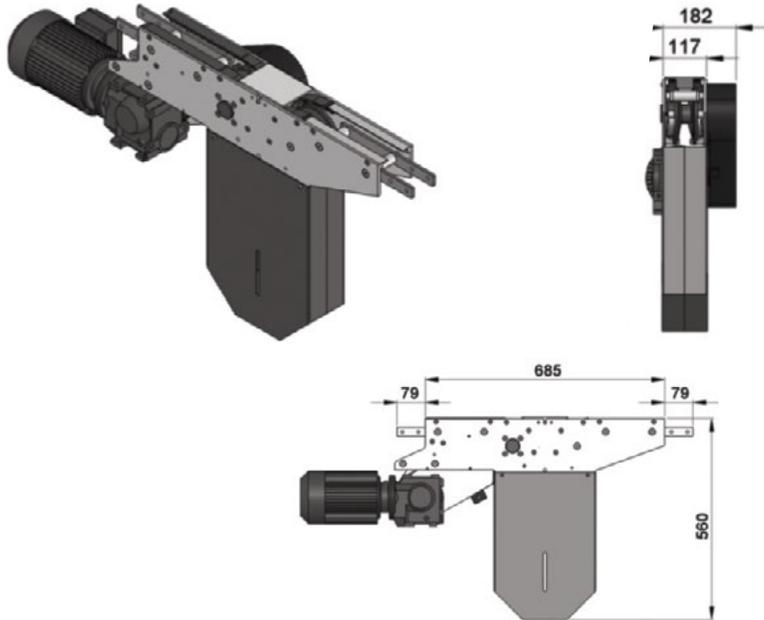
**UOM: pc**

Chain required 2-way: 1.6 meter  
Slide rail required 2-way: 1.0 meter

SEW gearmotors are products of SEW Eurodrive

**FC Suspended Catenary Drive without Motor (LEFT)**  
**FCCD-SD-0L**

**FC Suspended Catenary Drive without Motor (RIGHT)**  
**FCCD-SD-0R**

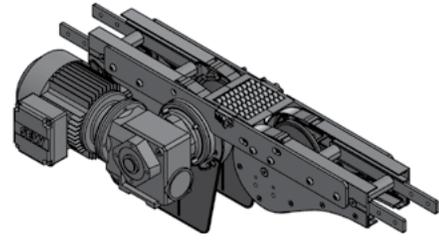
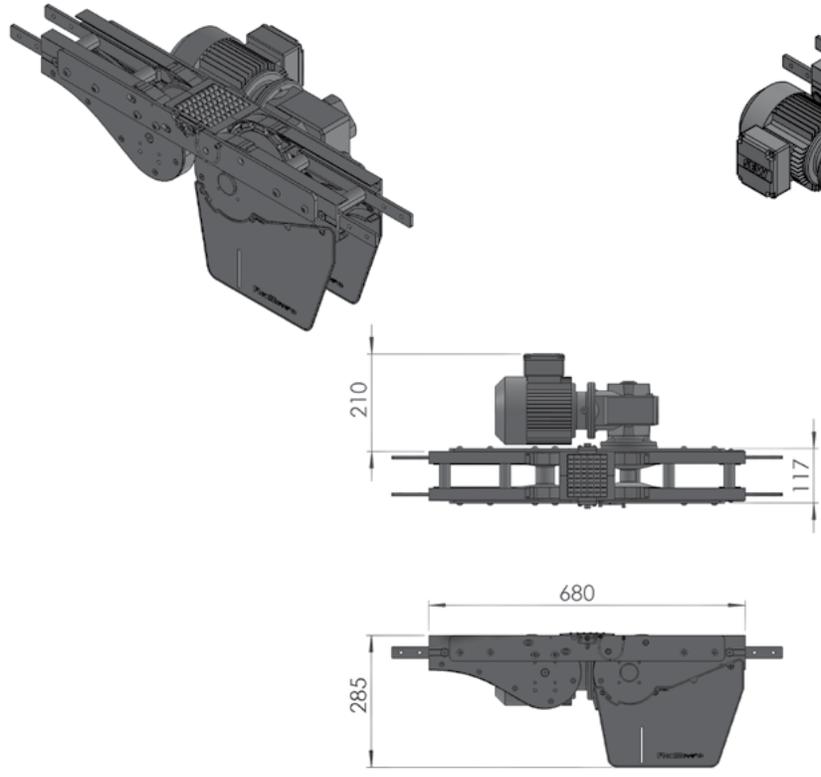


**Max Traction Force: 800N**  
 The Suspended Catenary Drive Unit is with torque limiter.

**UOM: pc**  
 Chain required 1-way: 1.4 meter  
 Slide rail required 1-way: 1.0 meter

**FC Combined Direct Drive & Idler (LEFT)**  
**FCCDI-DD-A105-0L**

**FC Combined Direct Drive & Idler (RIGHT)**  
**FCCDI-DD-A105-0R**



**Max Traction Force: 1250N**  
 The Combine Direct End Drive Unit is without torque limiter. Standard attached gearmotors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCCDI-DD-A105-0L represents direct drive without gear motor.

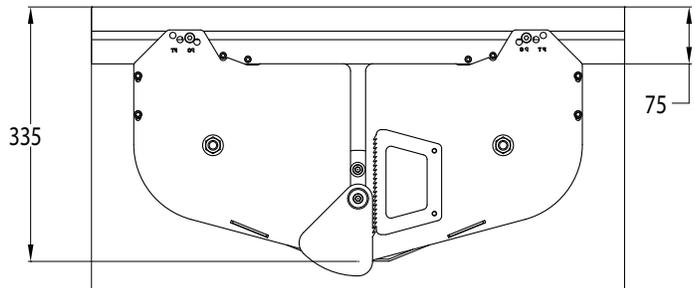
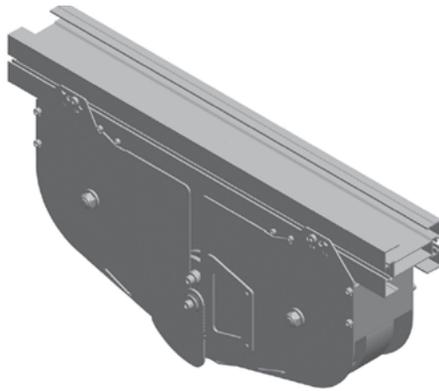
**UOM: pc**  
 Chain required 2-way: 1.6 meter  
 Slide rail required 2-way: 1.0 meter

## FC Weighted Take-up Module

FC-WTU-700



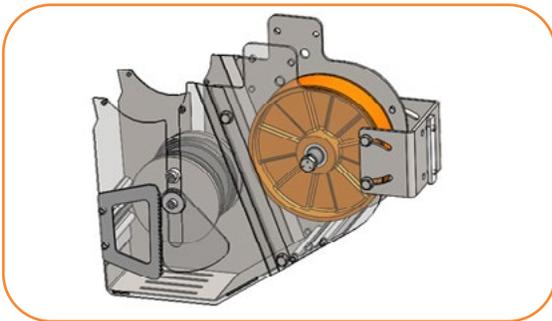
- Provides automatic chain stretch take-up
- Reduces noise caused from catenary tail
- Must be used with GP Drive End, sold separately
- Used on conveyors over 12 M long



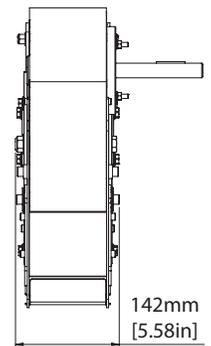
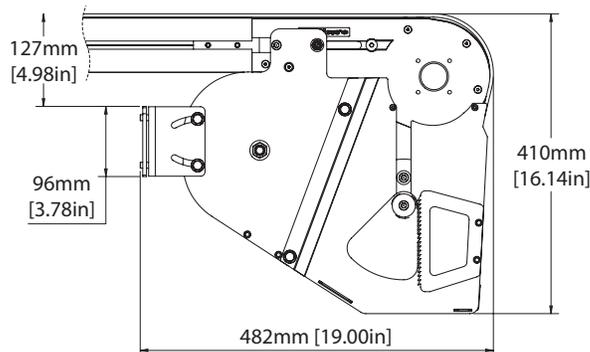
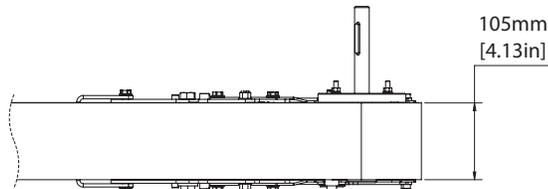
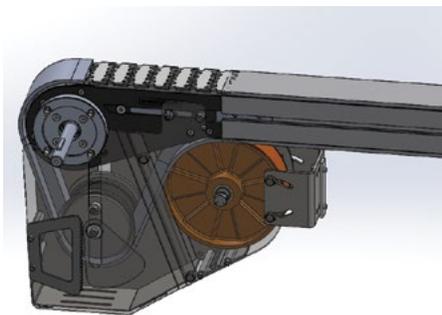
**UOM: pc**  
Chain required 1.5 meter  
Slide rail required 2.1 meter

## FC Weighted Take-up Tail Module

FC-WTU-105



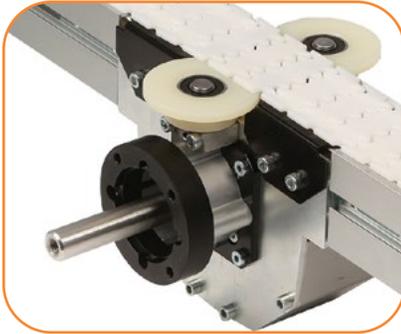
- Provides controlled chain take-up for improved conveyor performance
- Compact design fits in similar space as standard direct drive modules
- Smooths conveyor chain movement by helping to eliminate micro-surfing
- Suggested for conveyors over 12.2 M (40 ft) in length
- Capable of inclined and declined arrangement up to 30 degrees
- Improves operator safety by enclosing chain catenary
- Attaches to direct end drive tail
- Compatible with power transfer and driven bridge



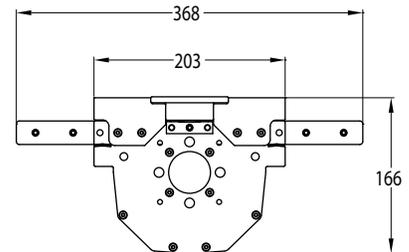
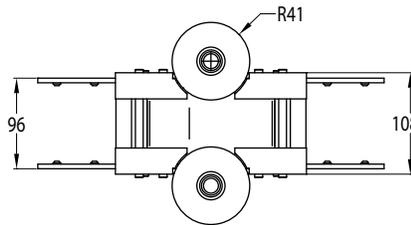
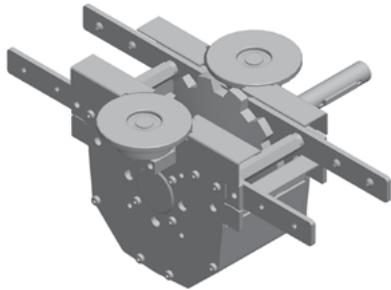
**UOM: pc**  
Chain required 1.5 meter  
Slide rail required 2.1 meter

### FC Top Running Drive Module

FCTRD-203



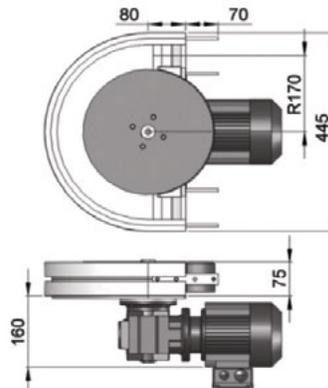
- For top running chain only
- 9M long conveyor length maximum
- 32 Kg load maximum
- Compatible with 3/4 inch shaft gearmotors only



**UOM: pc**  
Chain required 0.2 meter

### FC Direct Wheel Drive without Motor

FCWD-DD-0M



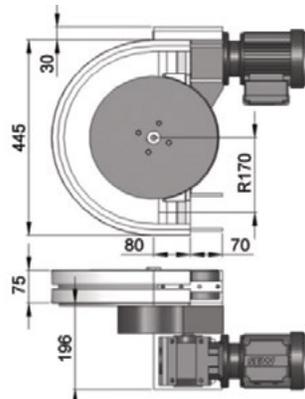
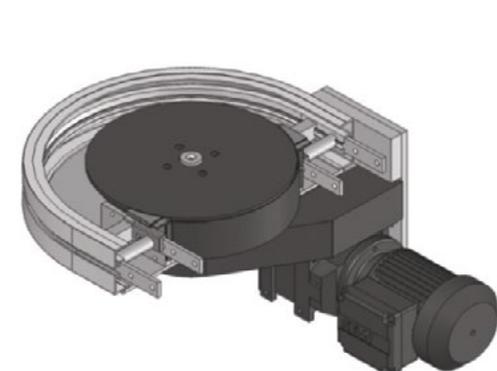
#### Max Traction Force: 200N

The Direct Wheel Drive Unit is without torque limiter. FCWD-DD-0M represents wheel drive without gear motor. Maximum traction force for FCWD-DD is lower than FCDD and FCSD.

**UOM: pc**  
Chain required 1-way: 0.7 meter  
Slide rail required 1-way: 0.7 meter

### FC Suspended Wheel Drive without Motor

FCWD-SD-0M



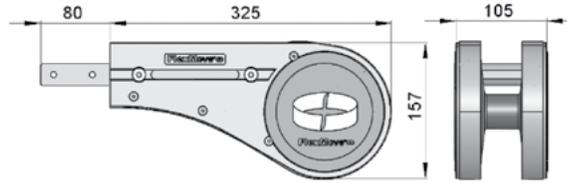
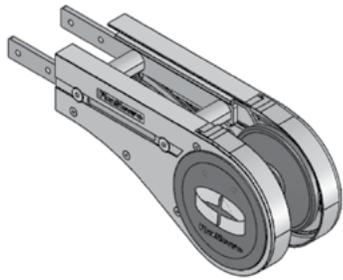
#### Max Traction Force: 200N

The Suspended Wheel Drive Unit is with torque limiter. FCWD-SD-0M represents wheel drive without motor. Maximum traction force for FCWD-SD is lower than FCDD and FCSD.

**UOM: pc**  
Chain required 1-way: 0.7 meter  
Slide rail required 1-way: 0.7 meter

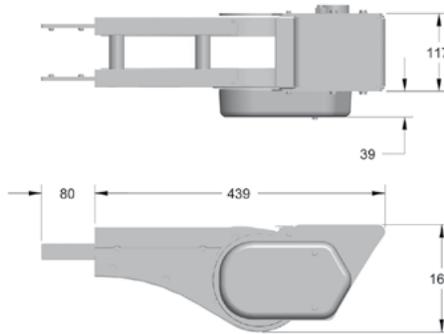
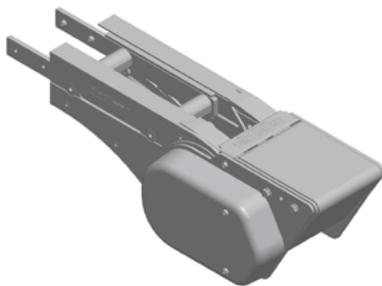
SEW gearmotors are products of SEW Eurodrive

**FC Idler End-105**  
**FCIE-A105**



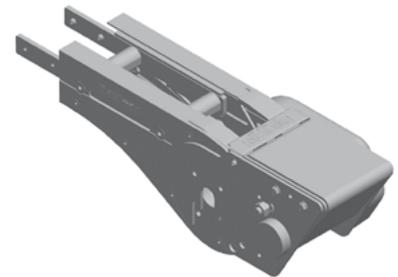
**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

**FC Idler End with Power Transfer (LEFT)**  
**FCIE-A105PT-L**



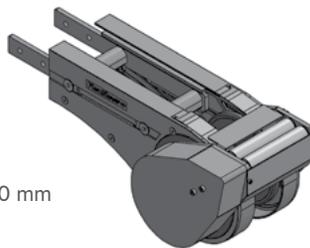
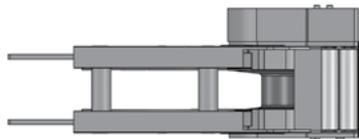
Minimum product length for inline transfer = 76 mm  
 Provides extended transfer nose for interfacing with large rollers.

**FC Idler End with Power Transfer (RIGHT)**  
**FCIE-A105PT-R**



**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

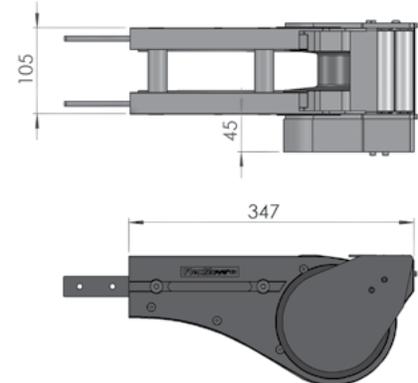
**FC Idler End Driven Transfer Bridge (LEFT)**  
**FCIE-A105DB-A-L**



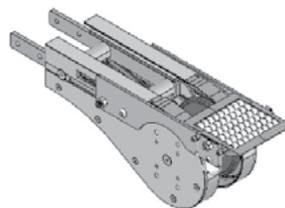
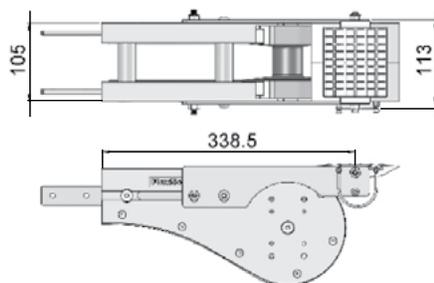
Minimum product length for inline transfer = 100 mm  
 Transfer extends past conveyor only 27 mm

**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

**FC Direct Drive Driven Transfer Bridge (RIGHT)**  
**FCIE-A105DB-A-R**

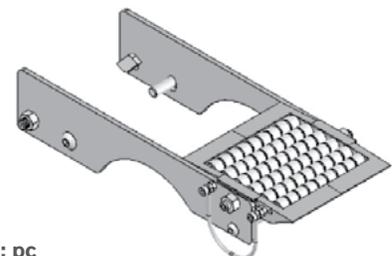


**FC Idler Free Roller Transfer Bridge**



**FCTB-A105**

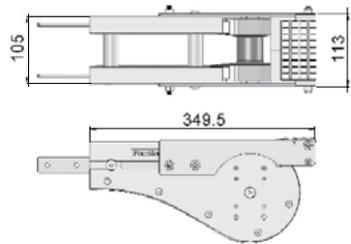
Transfer bridge c/w roller for FCIE-A105, FCDD-A105-XDY and FCDD-A105GP-XDY



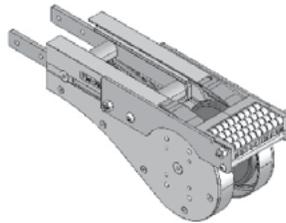
**UOM: pc**

## FC Idler End Free Roller Bridge

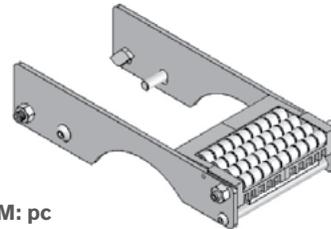
## FCIE-A105



UOM: pc



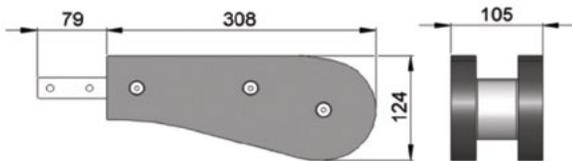
End transfer bridge c/w roller for FCIE-A105, FCDD-A105-XDY and FCDD-A105GP-XDY



UOM: pc

## FC Idler End-308

## FCIE-308B

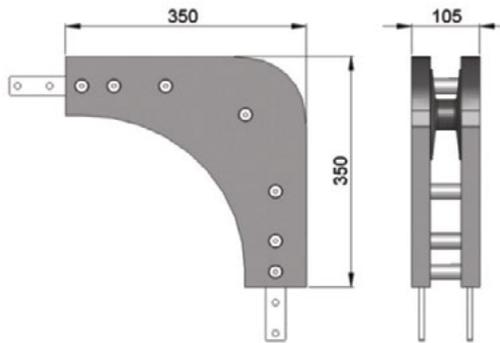


UOM: pc

Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0 meter

## FC Idler Bend

## FCIB-350



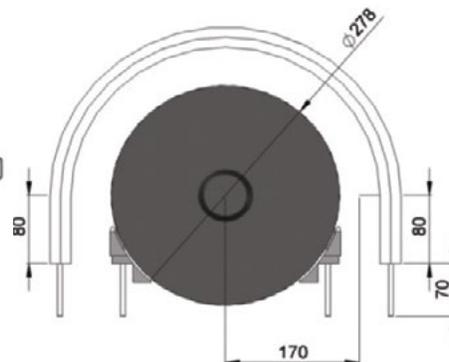
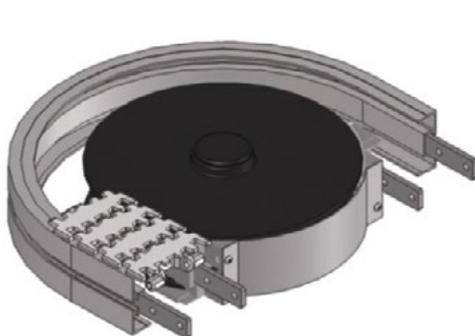
UOM: pc

Chain required 1-way: 0.6 meter  
Slide rail: 0 meter

**Note:** Cannot be used with return chain

## FC Wheel Bend 180°

## FCWB-180R170A



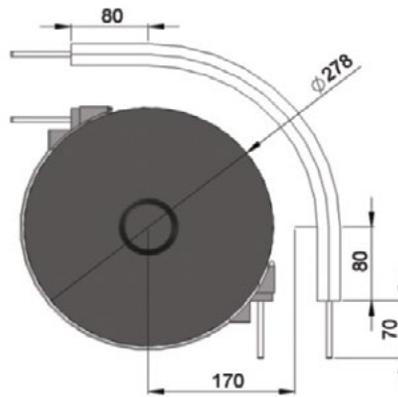
UOM: pc

Chain required 2-way: 1.4 meter  
Slide rail required 2-way: 1.4 meter

SEW gearmotors are products of SEW Eurodrive

**FC Wheel Bend 90°**

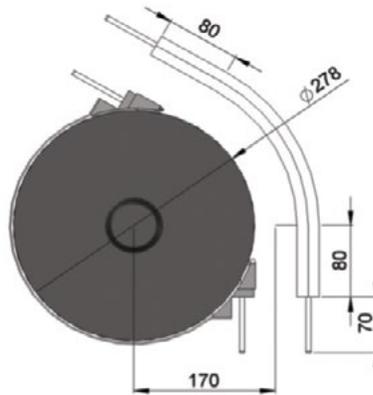
**FCWB-90R170A**



**UOM: pc**  
 Chain required 2-way: 0.9 meter  
 Slide rail required 2-way: 0.9 meter

**FC Wheel Bend 60°**

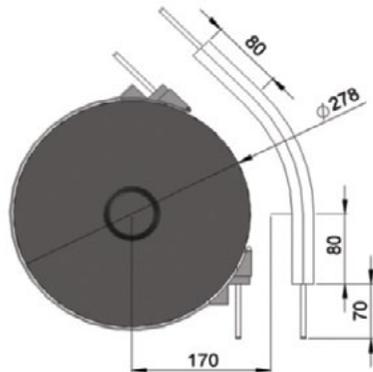
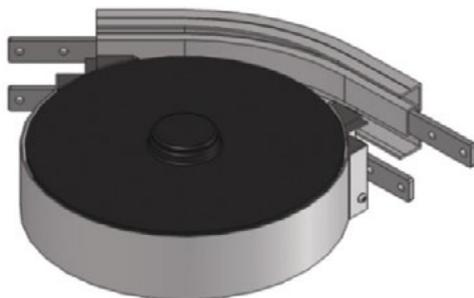
**FCWB-60R170A**



**UOM: pc**  
 Chain required 2-way: 0.7 meter  
 Slide rail required 2-way: 0.7 meter

**FC Wheel Bend 45°**

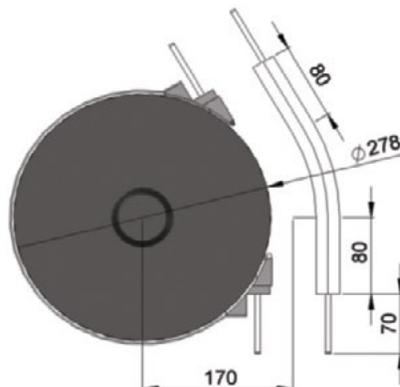
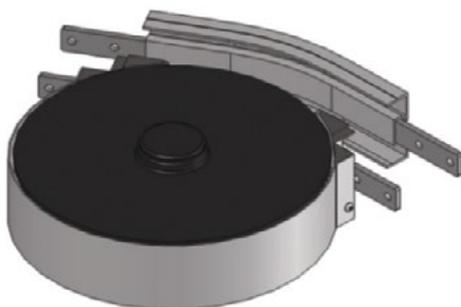
**FCWB-45R170A**



**UOM: pc**  
 Chain required 2-way: 0.6 meter  
 Slide rail required 2-way: 0.6 meter

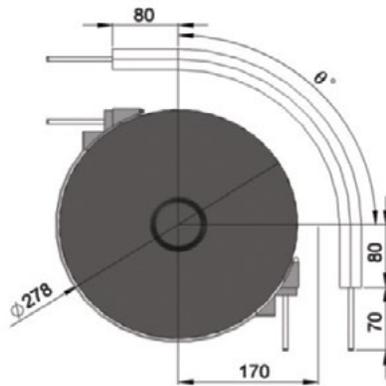
**FC Wheel Bend 30°**

**FCWB-30R170A**



**UOM: pc**  
 Chain required 2-way: 0.5 meter  
 Slide rail required 2-way: 0.5 meter

## FC Wheel Bend 5° - 180°



### Example for FC Wheel Bend Ordering

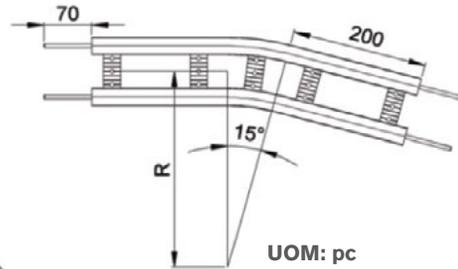
- Wheel bend,  $\varnothing^\circ \pm 1^\circ$
- FCWB- $\varnothing^\circ R170A$

If an angle of 65° is needed for wheel bend, the ordering part number is

### FCWB-65R170A

The outer bend is assembled using connecting strip (FACS-25x140A). Angle of  $\varnothing^\circ$  must be indicated when ordering.

## FC Horizontal Plain Bend 15°



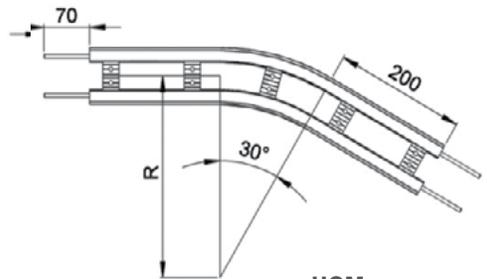
### Horizontal plain bend, 15° ± 1°

- |                  |                     |
|------------------|---------------------|
| R = 300 ± 10 mm  | <b>FCHB-15R300</b>  |
| R = 500 ± 10 mm  | <b>FCHB-15R500</b>  |
| R = 700 ± 10 mm  | <b>FCHB-15R700</b>  |
| R = 1000 ± 10 mm | <b>FCHB-15R1000</b> |

UOM: pc

Chain required 2-way (300, 500, 700, 1000): 1, 1.1, 1.2, 1.3 meter  
Slide rail required 2-way (300, 500, 700, 1000): 1.9, 2.1, 2.3, 2.6 meter

## FC Horizontal Plain Bend 30°



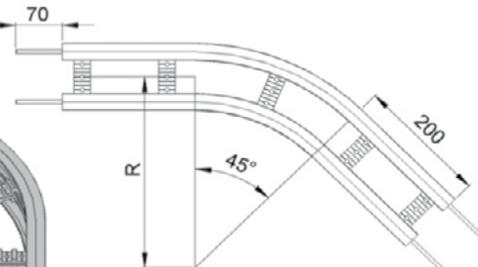
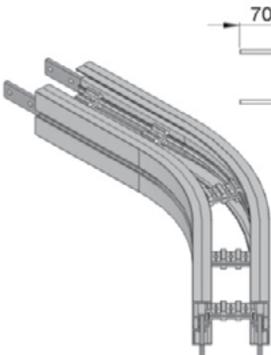
### Horizontal plain bend, 30° ± 1°

- |                  |                     |
|------------------|---------------------|
| R = 300 ± 10 mm  | <b>FCHB-30R300</b>  |
| R = 500 ± 10 mm  | <b>FCHB-30R500</b>  |
| R = 700 ± 10 mm  | <b>FCHB-30R700</b>  |
| R = 1000 ± 10 mm | <b>FCHB-30R1000</b> |

UOM: pc

Chain required 2-way (300, 500, 700, 1000): 1.1, 1.3, 1.5, 1.8 meter  
Slide rail required 2-way (300, 500, 700, 1000): 2.2, 2.6, 3.1, 3.7 meter

## FC Horizontal Plain Bend 45°



### Horizontal plain bend, 45° ± 1°

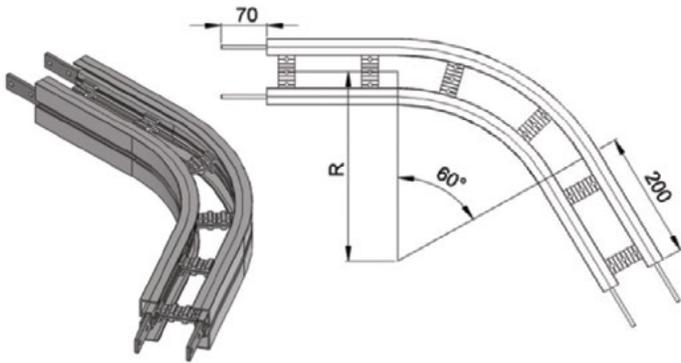
- |                  |                     |
|------------------|---------------------|
| R = 300 ± 10 mm  | <b>FCHB-45R300</b>  |
| R = 500 ± 10 mm  | <b>FCHB-45R500</b>  |
| R = 700 ± 10 mm  | <b>FCHB-45R700</b>  |
| R = 1000 ± 10 mm | <b>FCHB-45R1000</b> |

UOM: pc

Chain required 2-way (300, 500, 700, 1000): 1.3, 1.6, 1.9, 2.4 meter  
Slide rail required 2-way (300, 500, 700, 1000): 2.5, 3.2, 3.8, 4.7 meter

SEW gearmotors are products of SEW Eurodrive

## FC Horizontal Plain Bend 60°



### Horizontal plain bend, 60° ± 1°

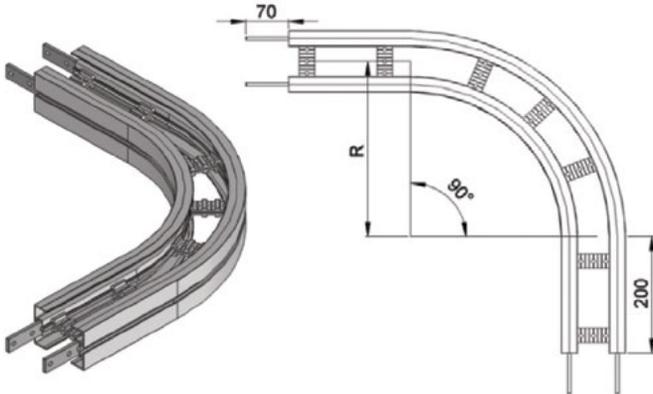
- R = 300 ± 10 mm     **FCHB-60R300**
- R = 500 ± 10 mm     **FCHB-60R500**
- R = 700 ± 10 mm     **FCHB-60R700**
- R = 1000 ± 10 mm    **FCHB-60R1000**

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.4, 1.8, 2.3, 2.9 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 2.9, 3.7, 4.5, 5.8 meter

*SEW gearmotors are products of SEW Eurodrive*

## FC Horizontal Plain Bend 90°



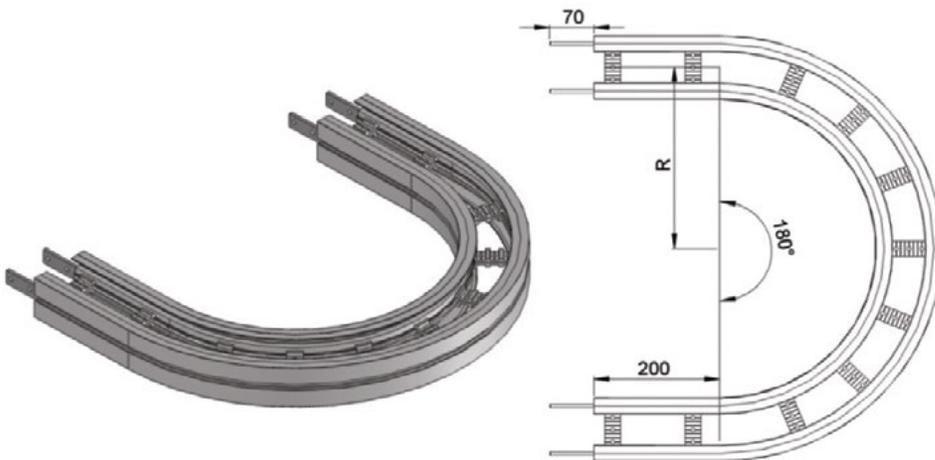
### Horizontal plain bend, 90° ± 1°

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

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.7, 2.4, 3.0, 3.9 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 3.5, 4.7, 6.0, 7.9 meter

## FC Horizontal Plain Bend 180°



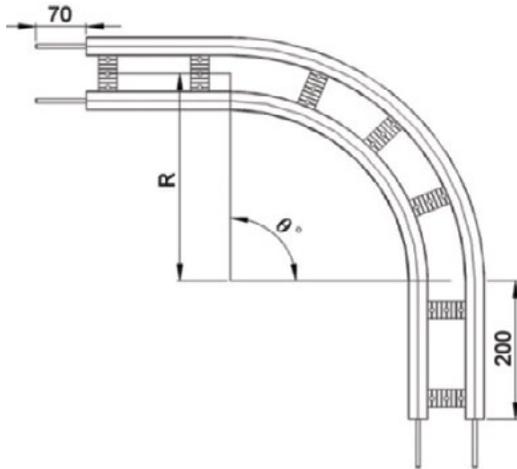
### Horizontal plain bend, 180° ± 1°

- R = 300 ± 10 mm     **FCHB-180R300**
- R = 500 ± 10 mm     **FCHB-180R500**
- R = 700 ± 10 mm     **FCHB-180R700**
- R = 1000 ± 10 mm    **FCHB-180R1000**

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000) : 2.7, 4.0, 5.2, 7.1 meter  
 Slide rail required 2-way(300, 500, 700, 1000): 5.4, 7.9, 1.1, 14.2 meter

## FC Horizontal Plain Bend 5° - 180°



### Example for FC Horizontal Plain Bend Ordering

#### Horizontal plain bend, $\theta^\circ \pm 1^\circ$

- R = 300 ± 10 mm    **FCHB- Ø°R300**
- R = 500 ± 10 mm    **FCHB- Ø°R500**
- R = 700 ± 10 mm    **FCHB- Ø°R700**
- R = 1000 ± 10 mm   **FCHB- Ø°R1000**

If an angle of 120° is needed for radius R500 horizontal plain bend, the ordering part number is

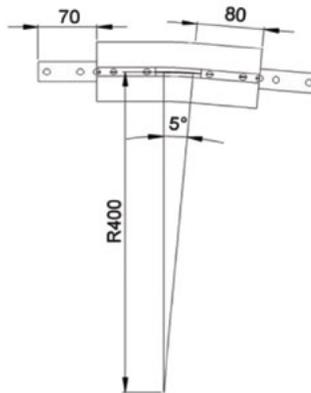
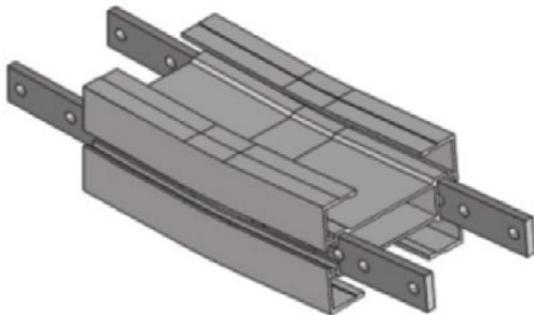
#### **FCHB-120R500**

#### UOM: pc

Chain required 2-way (300, 500, 700, 1000) : meter (variable to angle)  
 Slide rail required 2-way(300, 500, 700, 1000): meter (variable to angle)

## FC Vertical Bend 5°

FCVB-5R400

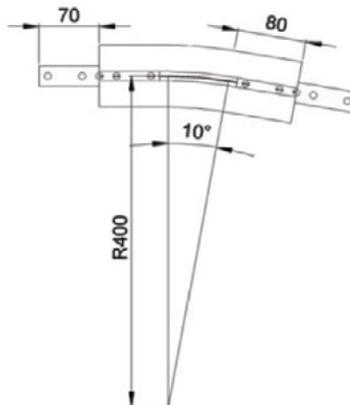
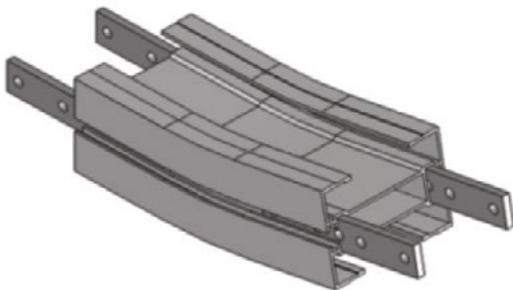


#### UOM: pc

Chain required 2-way: 0.4 meter  
 Slide rail required 2-way: 0.8 meter

## FC Vertical Bend 10°

FCVB-10R400

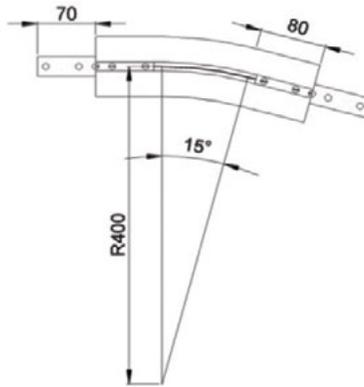
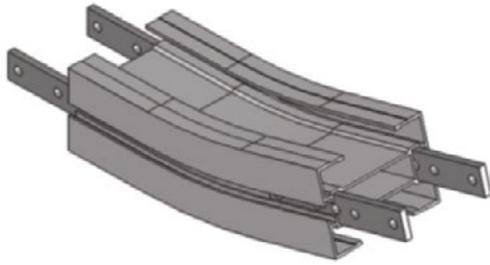


#### UOM: pc

Chain required 2-way: 0.5 meter  
 Slide rail required 2-way: 0.9 meter

## FC Vertical Bend 15°

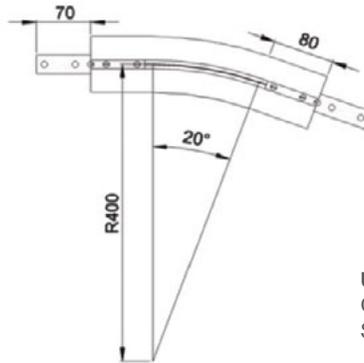
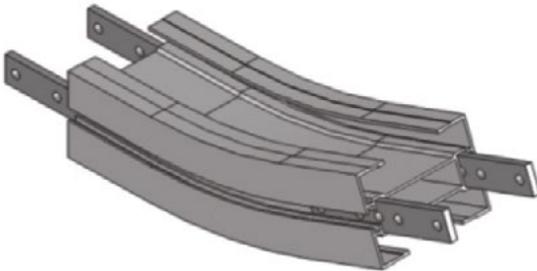
FCVB-15R400



**UOM: pc**  
 Chain required 2-way: 0.5 meter  
 Slide rail required 2-way: 1.1 meter

## FC Vertical Bend 20°

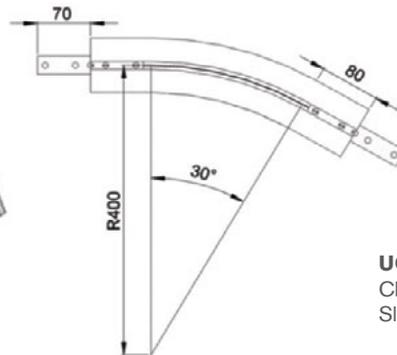
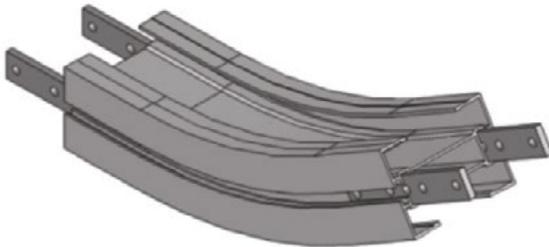
FCVB-20R400



**UOM: pc**  
 Chain required 2-way: 0.6 meter  
 Slide rail required 2-way: 1.2 meter

## FC Vertical Bend 30°

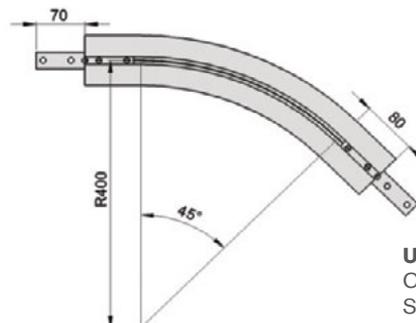
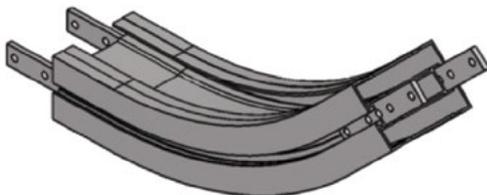
FCVB-30R400



**UOM: pc**  
 Chain required 2-way: 0.7 meter  
 Slide rail required 2-way: 1.5 meter

## FC Vertical Bend 45°

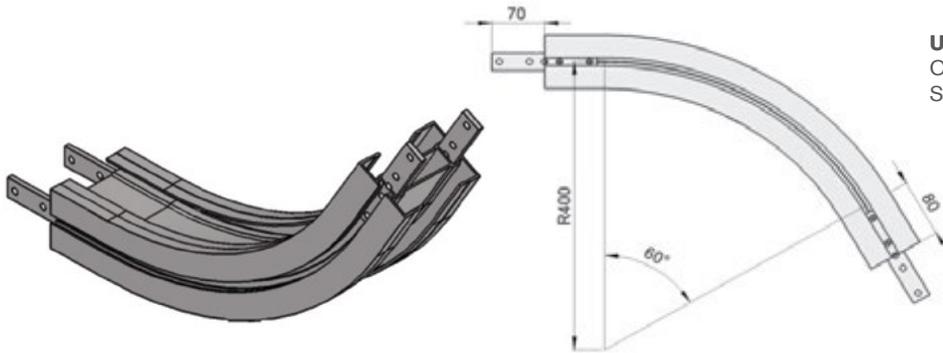
FCVB-45R400



**UOM: pc**  
 Chain required 2-way: 0.9 meter  
 Slide rail required 2-way: 1.9 meter

### FC Vertical Bend 60°

FCVB-60R400



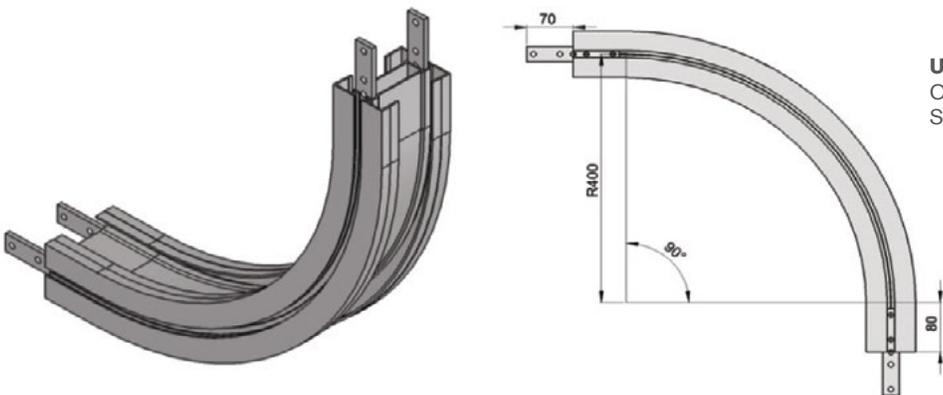
**UOM: pc**

Chain required 2-way: 1.2 meter

Slide rail required 2-way: 2.3 meter

### FC Vertical Bend 90°

FCVB-90R400

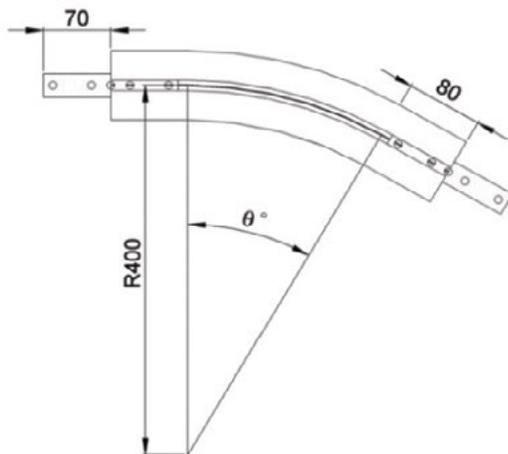


**UOM: pc**

Chain required 2-way: 1.6 meter

Slide rail required 2-way: 3.2 meter

### FC Vertical Bend 5° - 90°



#### Example for FC Vertical Bend Ordering

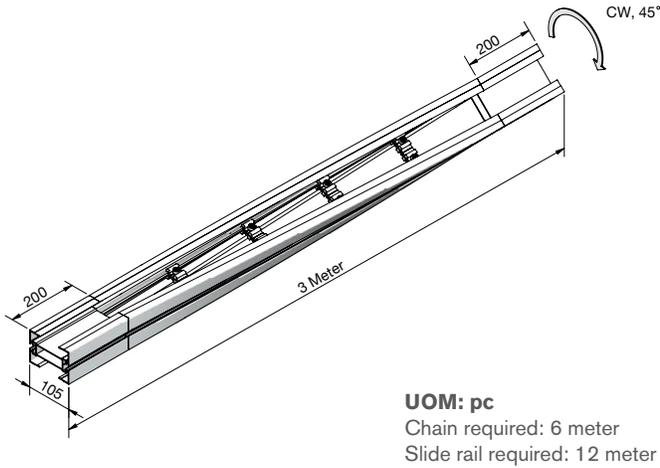
- Vertical bend,  $\theta^\circ \pm 1^\circ$
- FCVB- $\theta^\circ$ R400

If an angle of 65° is needed for vertical bend, the ordering part number is

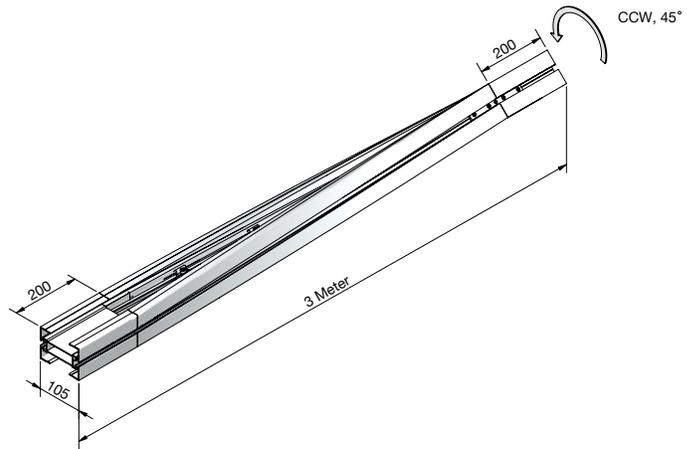
**FCVB-65R400**

*The outer bend is assembled using connecting strip (FACS-25x140A). Angle of "θ°" must be indicated when ordering.*

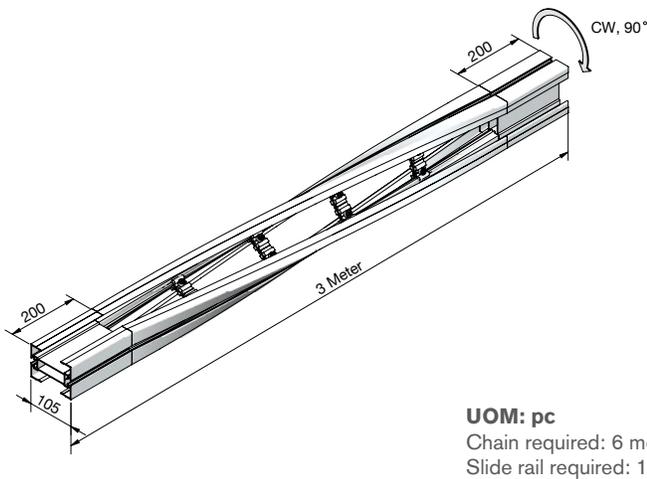
**FC 45 Degree Twist Conveyor Beam (Clockwise)**  
**FCTB-CW45x3000**



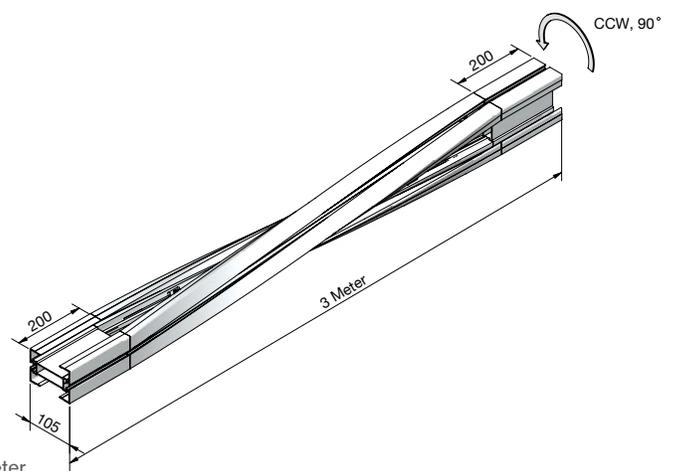
**FC 45 Degree Twist Conveyor Beam (Counter-Clockwise)**  
**FCTB-CCW45x3000**



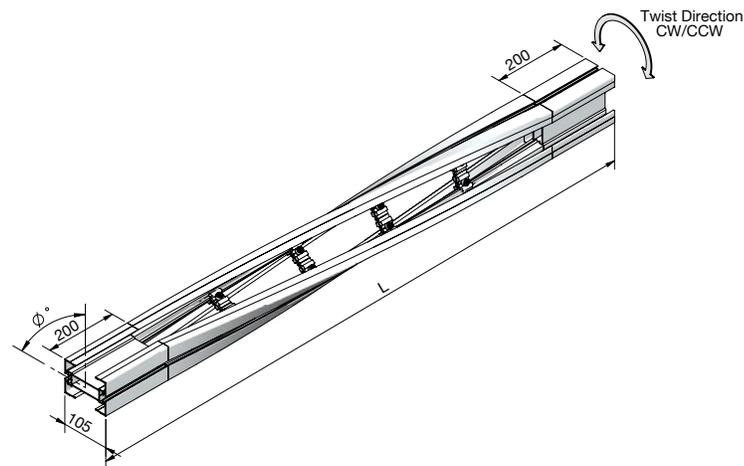
**FC 90 Degree Twist Conveyor Beam (Clockwise)**  
**FCTB-CW90x3000**



**FC 90 Degree Twist Conveyor Beam (Counter-Clockwise)**  
**FCTB-CCW90x3000**



**FC Twist Conveyor Beam 15° - 90°**  
**FCTB-AAABx3000**      Where AAA = CW or CCW, BB = Angle



**Example for FC Twist Conveyor Beam Ordering**

- Twist Conveyor Beam,  $\varnothing \pm 5^\circ$

If an angle of  $30^\circ$  is needed for twist beam, in clockwise direction and length 3.0 m, the ordering part number is

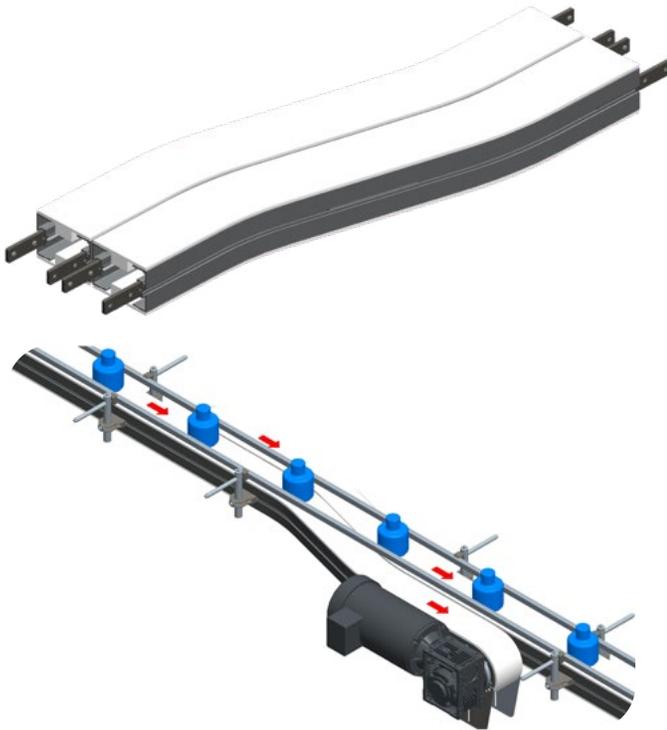
**FCTB-CW30x3000**

Angle of  $\varnothing^\circ$ , twist direction, and length L, must be indicated when ordering.

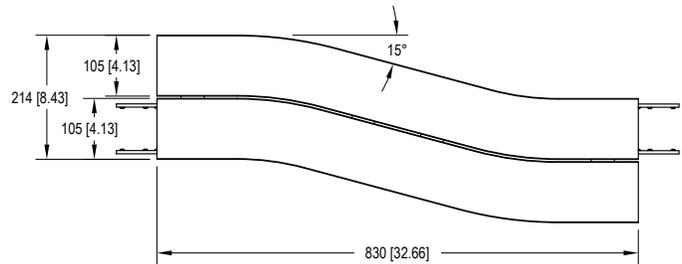
**UOM: pc**  
 Chain required: 6 meter  
 Slide rail required: 12 meter

### FC S In-Line Transfer Module

FCST-105

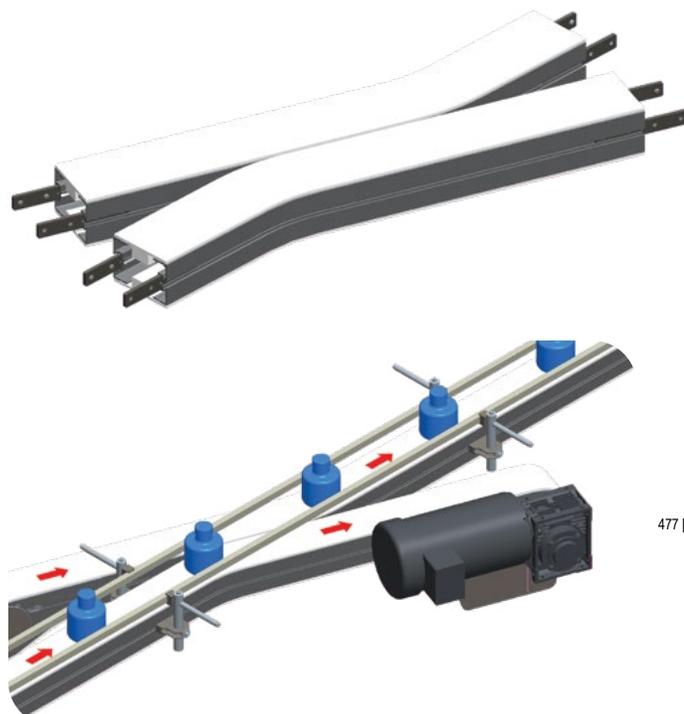


- S In-Line Modules provide a standard, compact way to side transfer product from conveyor to conveyor.
- Straight guiding is placed across the transfer module for smooth In-Line product flow
- Conveyors are mounted together to provide a smooth transfer even for small products
- S In-Line transfers are compact in the width dimension

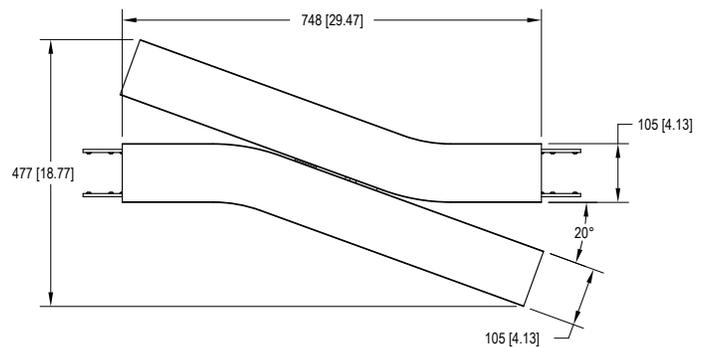


### FC X In-Line Transfer Module

FCXT-105



- X In-Line Modules provide a standard, compact way to side transfer product from conveyor to conveyor.
- Straight guiding is placed across the transfer module for smooth In-Line product flow
- Conveyors are mounted together to provide a smooth transfer even for small products
- X In-Line transfers are compact in the length direction



Variety of chain type suitable for wide range of applications either horizontal or vertical product transportation. Capacity higher than FK, FS, FM. The maximum product width to be conveyed can be referred to guide rail assembly pages.

### FL Series Characteristic

**Beam Width:** 150 mm

**Product Width:** Refer to Guide Rail Assembly

### Accessories Needed

**Slide Rail Required:** FASR-25 OR FASR-25U

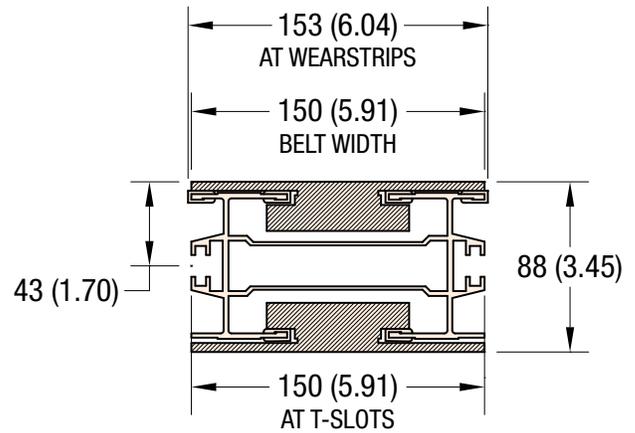
**Slide Rail Color:** White or Natural Color

**Slide Rail Material:** HDPE OR UHMW

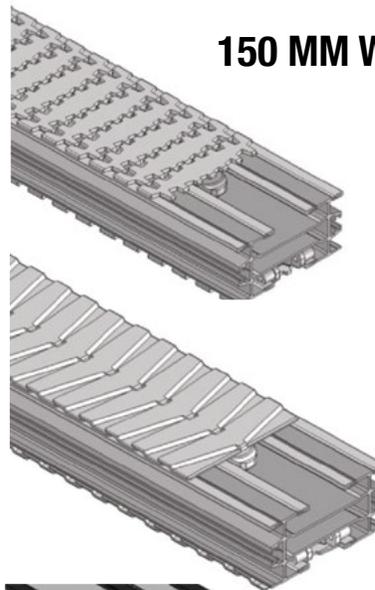
**Slide Rail Rivet & Screw:** FASLR-4X6 or FASLS-M5

Connecting strip is used to connect two beams.

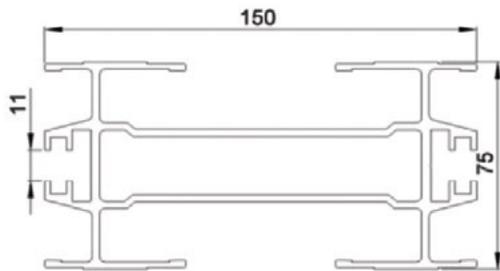
**Connecting Strip:** FACS-25x140A



**150 MM WIDTH**

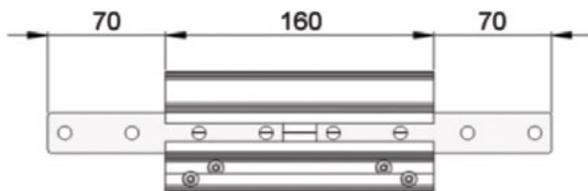


### Conveyor Beam **FLCB-3**

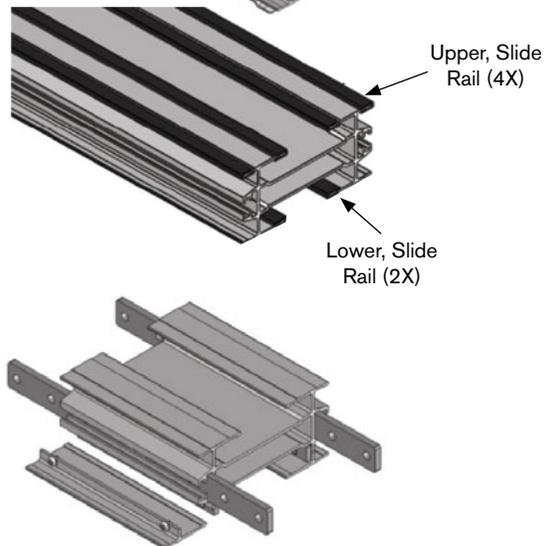


UOM: 3 Meter / Length

### Chain Connecting Module **FLCC-160**



UOM: pc



### Chain Common Data

**Packaging:** 5 m per box

**Pitch:** 35.5 mm

**Width:** 150 mm

Tensile Strength at 20°C: 6000N

**Color:** White & Black (Conductive)

### Material:

**Chain:** White Acetal / POM

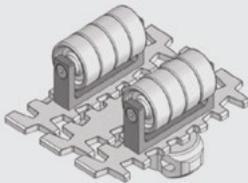
**Pivot:** Polyamide

**Pivot Pin:** Stainless Steel

**Insert (Wedge & Friction):** TPE Grey

### Example for FLRC-5B-L#

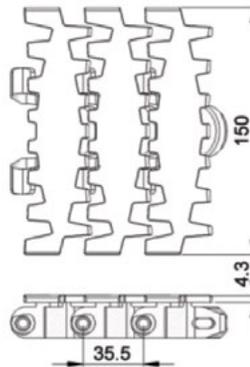
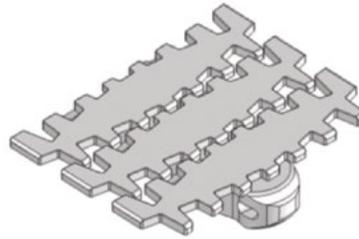
# = 1 cleated top chain with alternate of # link of plain chain



The above chain is FLRC-5B-L1, 1 link cleated top chain with alternate of 1 link of plain chain.

**Note:** # = 1, 2, 3, 4, 5.....20

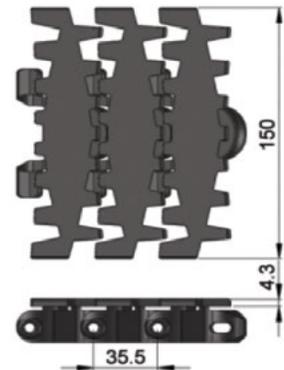
### Standard Plain Chain **FLPC-5**



**UOM:** 5 Meter / box

Application: Suitable for horizontal and slope < 5° transport of products with accumulation.

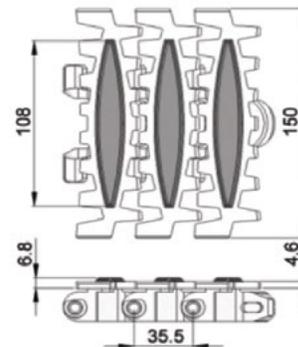
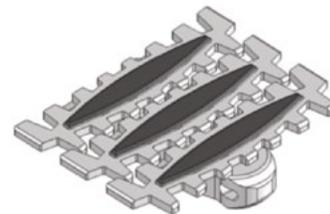
### Conductive Chain **FLPC-5CD**



**UOM:** 5 Meter / box

Application: Suitable for transport of static sensitive product.

### Friction Top Chain **FLFT-5**

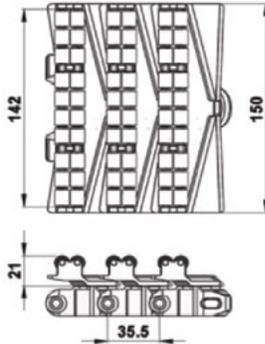
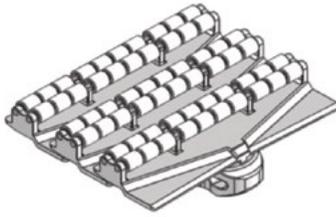


**UOM:** 5 Meter / box

Application: Suitable for transport product in slope > 5° but ≤ 30° without accumulation.



## Roller Top Chain **FLRT-5V**

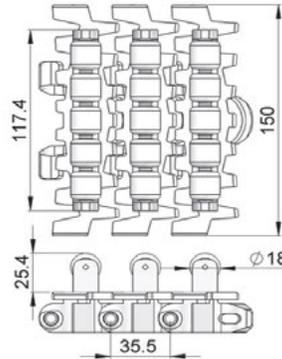
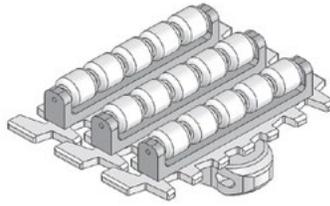


**UOM: 5 Meter / box**

Application: Suitable for accumulation of product with low friction and pressure.

## Roller Cleat Chain **FLRC-5A-L#**

# = 1, 2, 3, 4, 5.....20

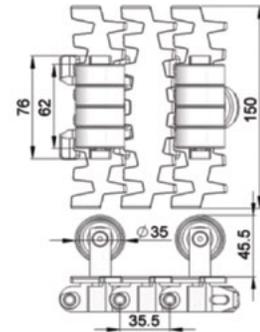
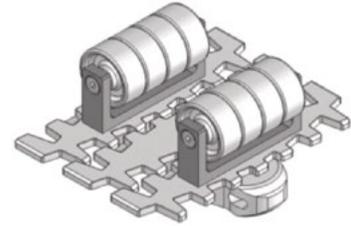


**UOM: 5 Meter / box**

Application: Suitable for vertical transportation of product in slope with no accumulation.

## Roller Cleat Chain **FLRC-5B-L#**

# = 1, 2, 3, 4, 5.....20

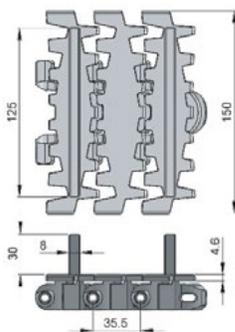
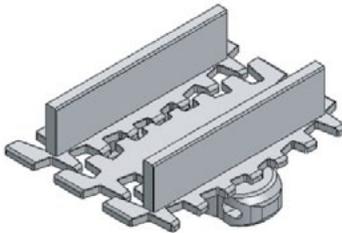


**UOM: 5 Meter / box**

Application: Suitable for vertical transportation of product in slope with no accumulation.

## Cleat Top Chain **FLCT-5A30-L#**

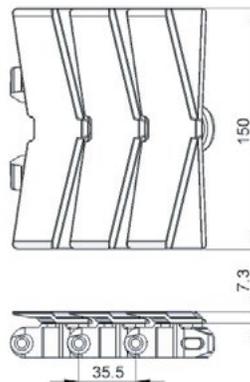
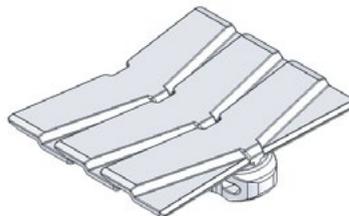
# = 1, 2, 3, 4, 5.....20



**UOM: 5 Meter / box**

Application: Suitable for vertical transportation of product in slope with no accumulation.

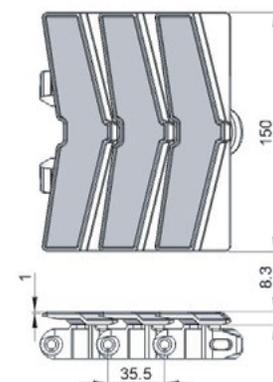
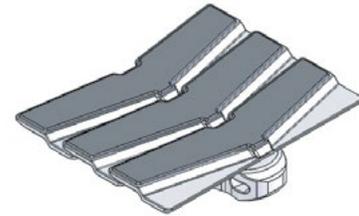
## Safety Chain-V **FLPC-5V**



**UOM: 5 Meter / box**

Application: (Safety Chain) Suitable for horizontal and slope < 5° transport of products with accumulation.

## Safety Chain Friction Top **FLFT-5V**



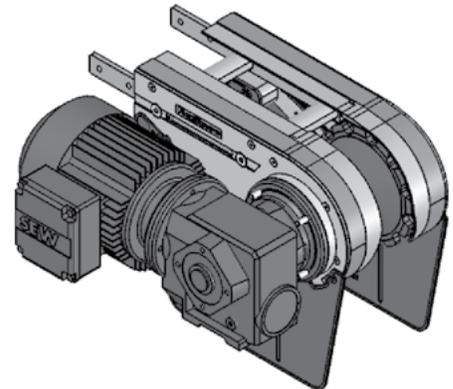
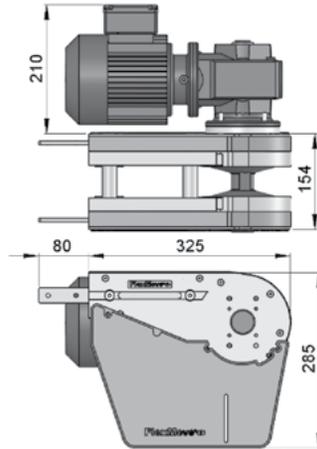
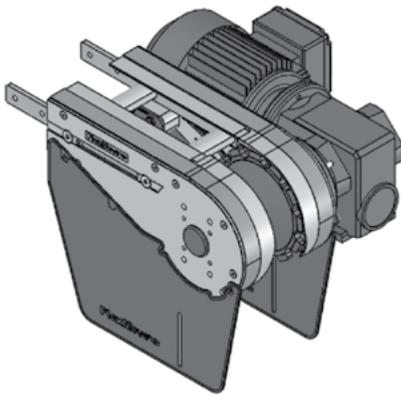
**UOM: 5 Meter / box**

Application: (Safety Chain) Suitable for transport product in slope > 5° but ≤ 30° without accumulation.

SEW gearmotors are products of SEW Eurodrive

**FL Direct End Drive without Motor (LEFT)**  
**FLDD-A150-XDY (See Chart)**

**FL Direct End Drive without Motor (RIGHT)**  
**FLDD-A150-XDY (See Chart)**



| Part Number | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|--------------------|-----------|----------------------|
| FLDD-A150   | X                  | D         | Y                    |
|             | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             | A = 20 mm Aux Only |           |                      |

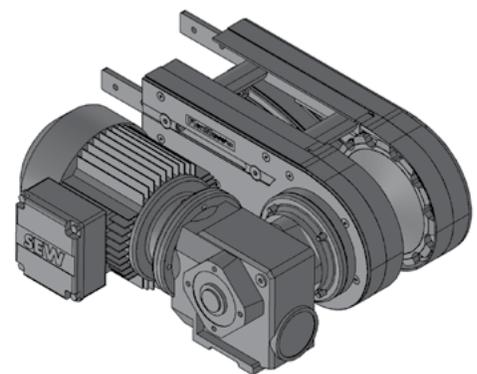
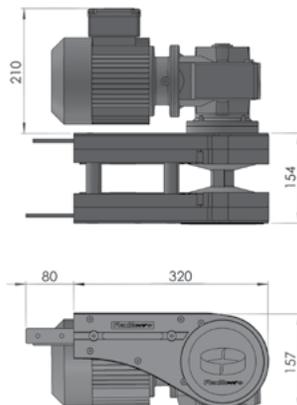
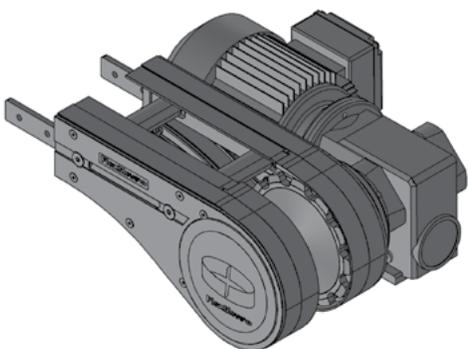
**Max Traction Force: 1250N**  
 The Direct End Drive Unit is without torque limiter.

**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

\*3/4 inch shaft option available in North America only.

**FL Direct End Drive unit without Motor GP (LEFT)**  
**FLDD-A150GP-XDY (See Chart)**

**FL Direct End Drive unit without Motor GP (RIGHT)**  
**FLDD-A150GP-XDY (See Chart)**



Requires the use of connecting or weighted take-up module for chain maintenance.

| Part Number | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|--------------------|-----------|----------------------|
| FLDD-A150GP | X                  | D         | Y                    |
|             | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             | A = 20 mm Aux Only |           |                      |

**Max Traction Force: 1250N**  
 The Direct End Drive Unit GP is without torque limiter.

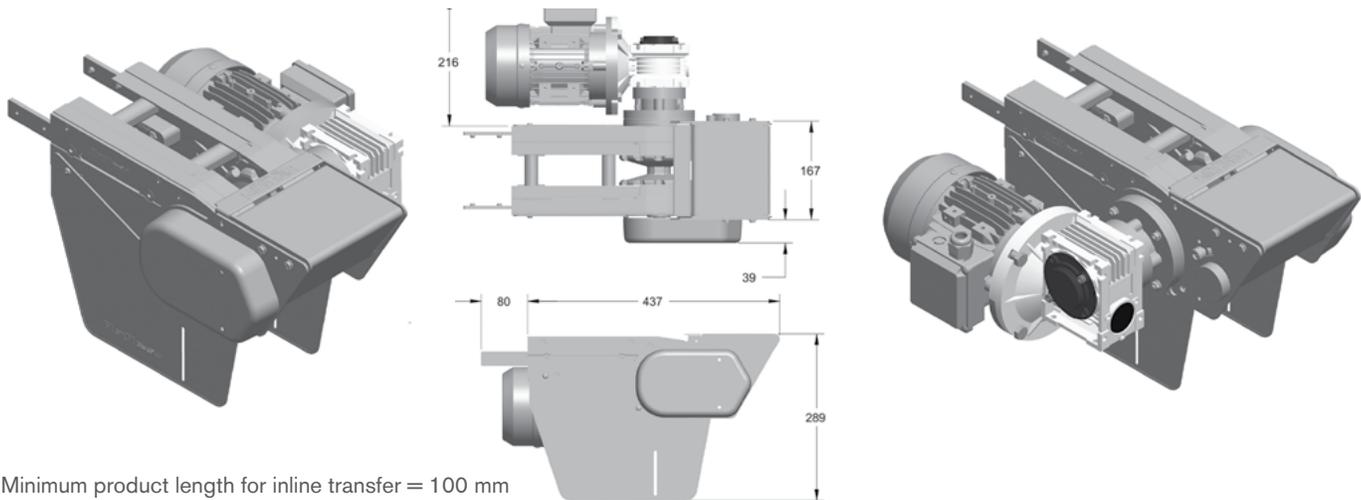
**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

\*3/4 inch shaft option available in North America only.

SEW gearmotors are products of SEW Eurodrive

**FL Direct with Power Transfer Motor (LEFT)**  
**FLDD - A150PT-XD (See Chart)**

**FL Direct with Power Transfer Motor (RIGHT)**  
**FLDD - A150PT-XD (See Chart)**



Minimum product length for inline transfer = 100 mm  
 Maximum speed is 30 m/min (100 ft/min)  
 Only one power transfer needed on either infeed or discharge trail required for end to end transfer. Provides extended transfer nose for interfacing with large rollers.

| Part Number |   | Shaft Selection | Direction |
|-------------|---|-----------------|-----------|
| FLDD-A150PT | - | X               | D         |
|             |   | 0 = 20 mm       | L = Left  |
|             |   | E = 3/4 in*     | R = Right |

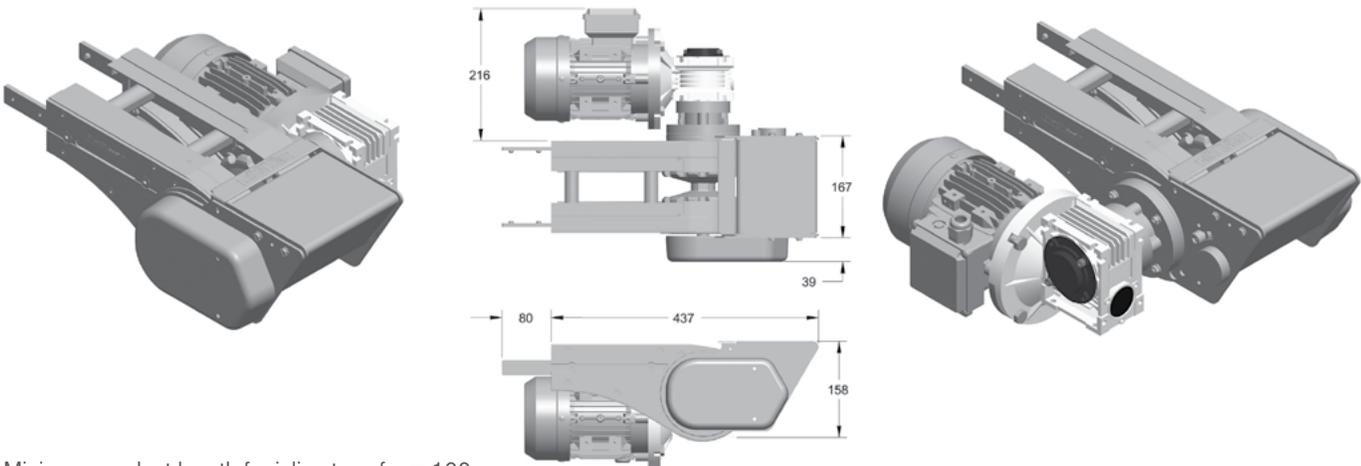
**Max Traction Force: 1250N**  
 The Direct End Drive Unit is without torque limiter.

**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

\*3/4 inch shaft option available in North America only.

**FL GP Direct with Power Transfer Motor (LEFT)**  
**FLDD-A150GPPT-XD (See Chart)**

**FL GP Direct with Power Transfer Motor (RIGHT)**  
**FLDD-A150GPPT-XD (See Chart)**



Minimum product length for inline transfer = 100 mm  
 Maximum speed is 30 m/min (100 ft/min)  
 Only one power transfer needed on either infeed or discharge trail required for end to end transfer. Provides extended transfer nose for interfacing with large rollers.  
 Requires the use of connecting or weighted take-up module for chain maintenance.

| Part Number   |   | Shaft Selection | Direction |
|---------------|---|-----------------|-----------|
| FLDD-A150GPPT | - | X               | D         |
|               |   | 0 = 20 mm       | L = Left  |
|               |   | E = 3/4 in*     | R = Right |

**Max Traction Force: 1250N**  
 The Direct End Drive Unit GP is without torque limiter.

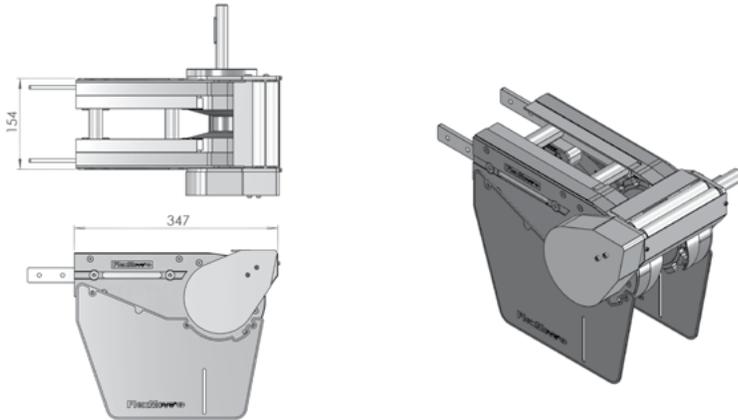
**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

\*3/4 inch shaft option available in North America only.

SEW gearmotors are products of SEW Eurodrive

### FL Direct Drive Driven Transfer Bridge (LEFT)

FLDD-A150DB-A-0L



**UOM: pc**

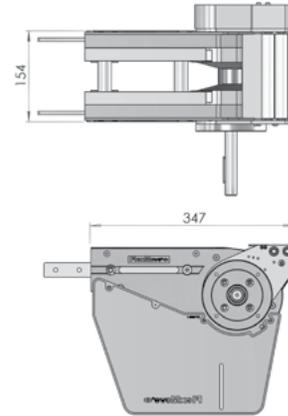
20 mm Shaft only.

Minimum product length for inline transfer = 100 mm

Transfer extends past conveyor only 27 mm

### FL Direct Drive Driven Transfer Bridge (RIGHT)

FLDD-A150DB-A-0R



**Max Traction Force: 1250N**

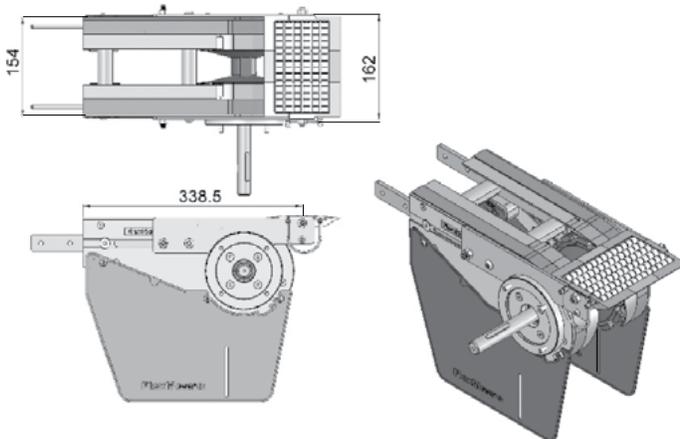
The Direct End Drive Unit is without torque limiter.

**UOM: pc**

Chain required 2-way: 0.8 meter

Slide rail required 2-way: 0.5 meter

### FL Direct Drive Free Roller Transfer Bridge (LEFT/RIGHT)



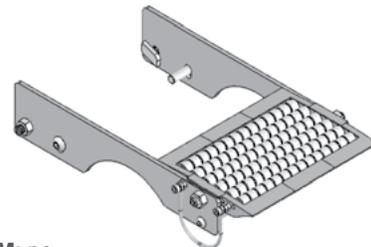
FLTB-A150

Transfer bridge c/w roller for FLIE-A150

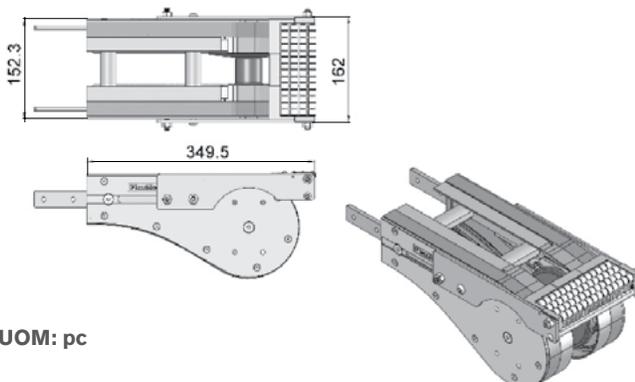
Transfer bridge c/w roller for FLDD-A150-0L

Transfer bridge c/w roller for FLDD-A150-0R

**UOM: pc**



### FL Idler End Free Roller Bridge



**UOM: pc**

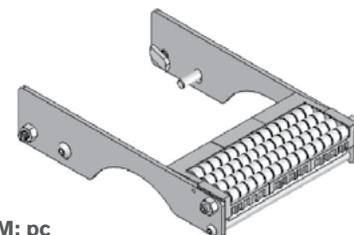
FLEB-A150

End transfer bridge c/w roller for FLIE-A150

End transfer bridge c/w roller for FLDD-A150-0L

End transfer bridge c/w roller for FLDD-A150-0R

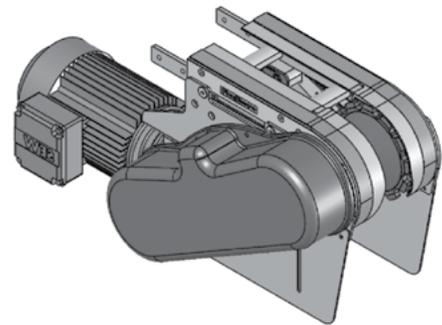
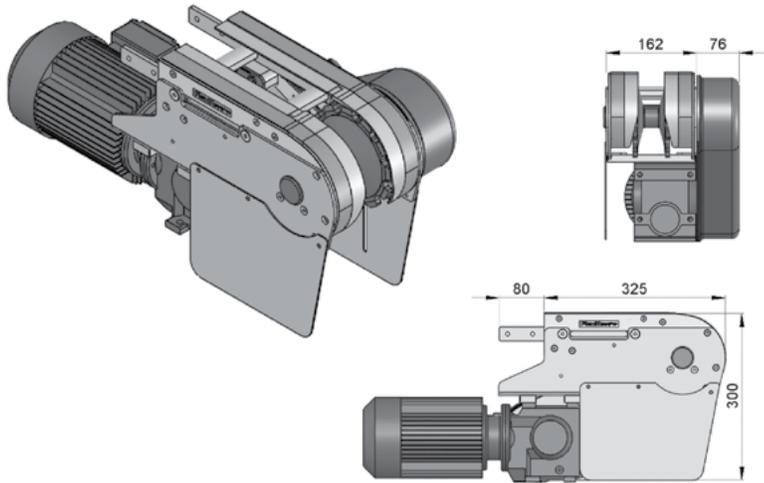
**UOM: pc**



SEW gearmotors are products of SEW Eurodrive

**FL Suspended End Drive without Motor (LEFT)**  
 FLSD-A150-0L (with Torque Limiter)  
 FLSD-A150SPT-0L (without Torque Limiter)

**FL Suspended End Drive without Motor (RIGHT)**  
 FLSD-A150-0R (with Torque Limiter)  
 FLSD-A150SPT-0R (without Torque Limiter)



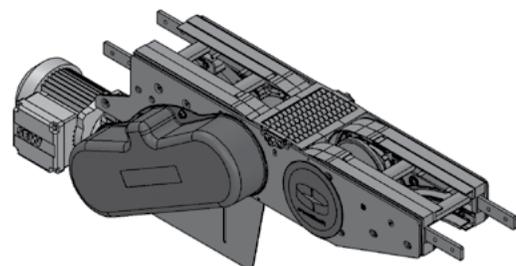
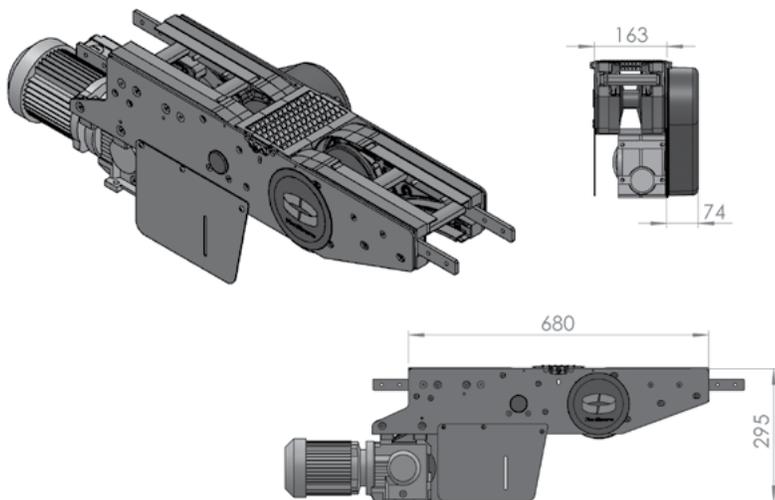
**Max Traction Force:**  
**1250N** (without limiter)  
**800N** (with limiter)

**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

- Locates gearmotor below conveyor for compact applications.
- Includes torque limiter protecting chain and motor from overload.
- Chain pull capacity at 1250N for unit without torque limiter.
- Chain pull capacity at 840N for unit with torque limiter.

**FL Combined Suspended Drive & Idler (LEFT)**  
 FLCDI-SD-A150-0L

**FL Combined Suspended Drive & Idler (RIGHT)**  
 FLCDI-SD-A150-0R

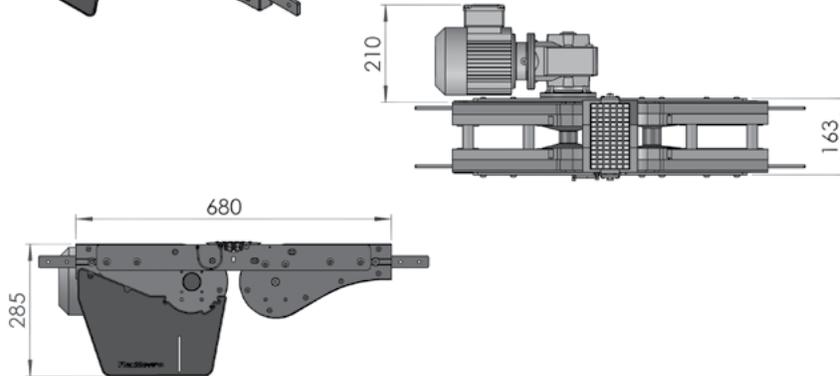
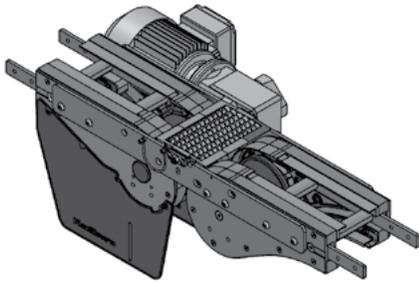


**Max Traction Force: 800N**  
 The Combine Suspended End Drive Unit is with torque limiter.

**UOM: pc**  
 Chain required 2-way: 1.6 meter  
 Slide rail required 2-way: 1.0 meter

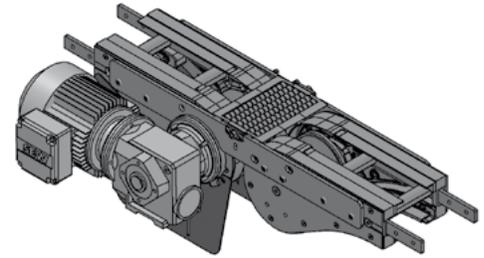
### FL Combined Direct Drive & Idler (LEFT)

FLCDDI-DD-A150-0L



### FL Combined Direct Drive & Idler (RIGHT)

FLCDDI-DD-A150-0R



#### Max Traction Force: 1250N

The Combine Direct End Drive Unit is without torque limiter.

#### UOM: pc

Chain required 2-way: 1.6 meter

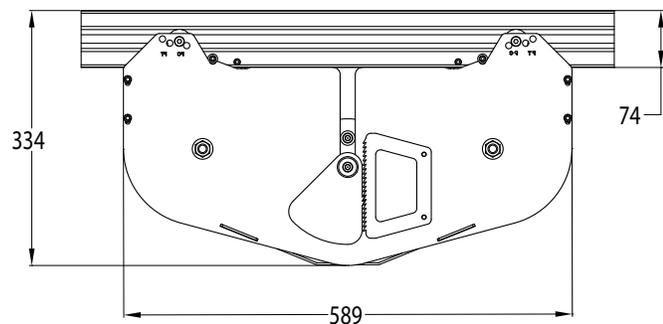
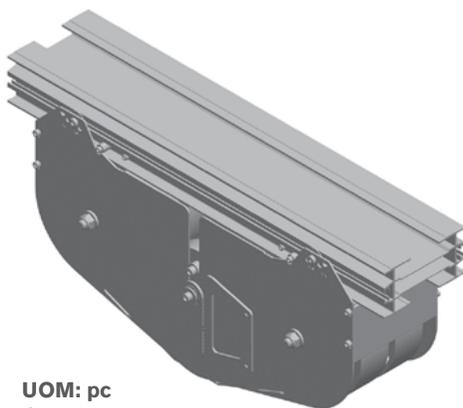
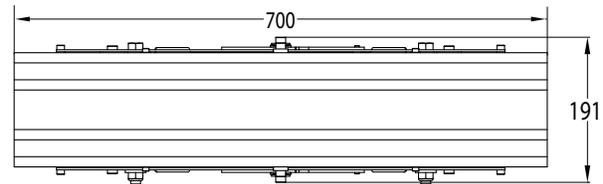
Slide rail required 2-way: 1.0 meter

### FL Weighted Take-up Module

FL-WTU-700



- Provides automatic chain stretch take-up
- Reduces noise caused from catenary tail
- Must be used with GP Drive End, sold separately
- Used on conveyors over 12 M long



#### UOM: pc

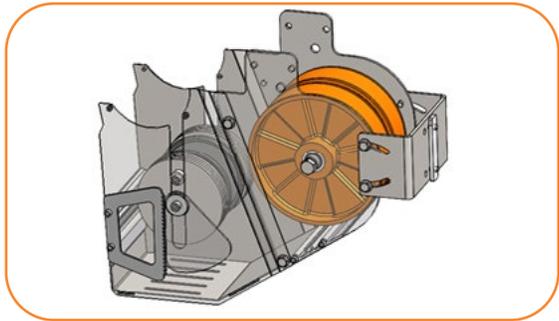
Chain required 1.5 meter

Slide rail required 3.5 meter

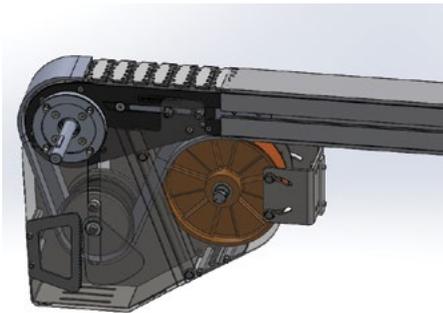
SEW gearmotors are products of SEW Eurodrive

## FL Weighted Take-up Tail Module

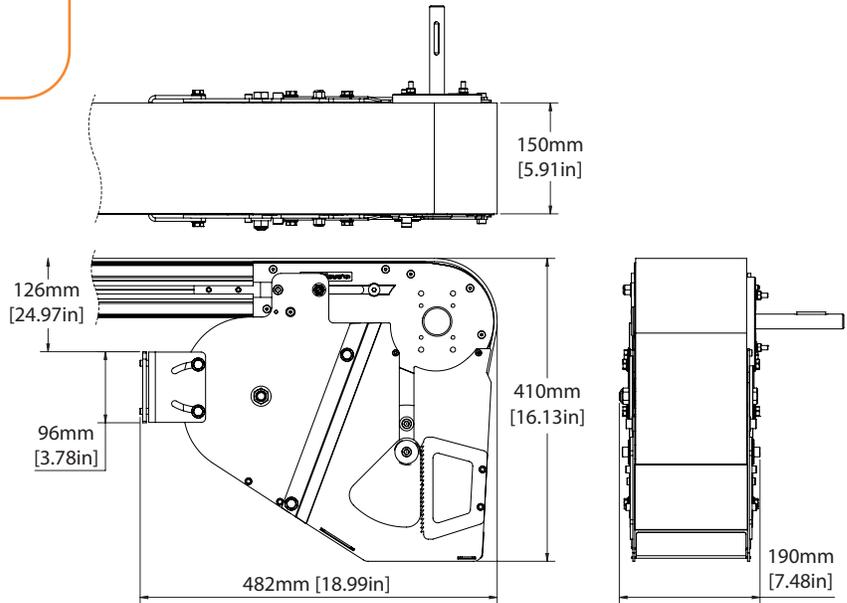
FL-WTU-150



- Provides controlled chain take-up for improved conveyor performance
- Compact design fits in similar space as standard direct drive modules
- Smooths conveyor chain movement by helping to eliminate micro-surfing
- Suggested for conveyors over 12.2 M (40 ft) in length
- Capable of inclined and declined arrangement up to 30 degrees
- Improves operator safety by enclosing chain catenar
- Attaches to direct end drive tail
- Compatible with power transfer and driven bridge



**UOM: pc**  
Chain required 1.5 meter  
Slide rail required 2.1 meter

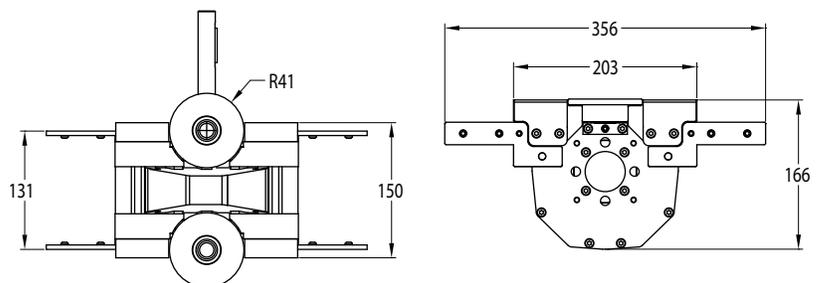
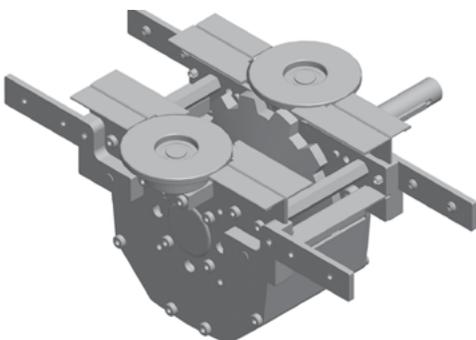


## FL Top Running Drive Module

FLTRD-203



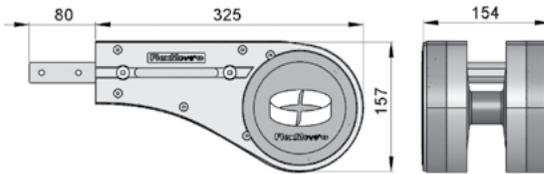
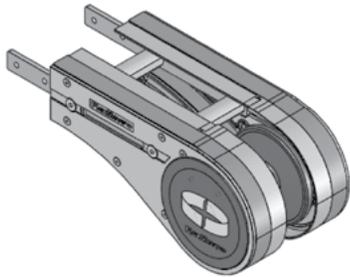
- For top running chain only
- 9M long conveyor length maximum
- 32 Kg load maximum
- Compatible with 3/4 inch shaft gearmotors only



**UOM: pc**  
Chain required 0.2 meter

## FL Idler End-150

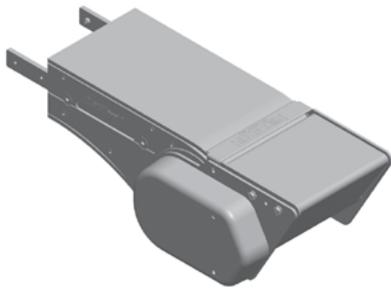
### FLIE-A150



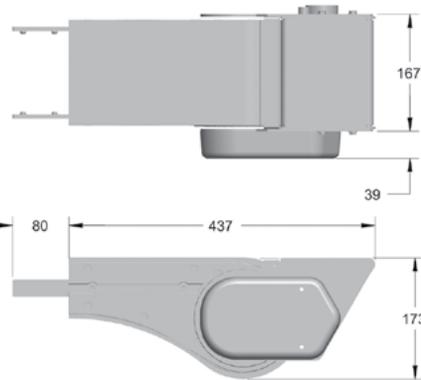
**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

## FL Idler End with Power Transfer (LEFT)

### FLIE-A150PT-L

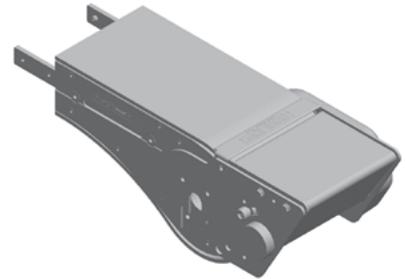


Minimum product length for inline transfer = 100 mm  
 Transfer extends past conveyor only 27 mm



## FL Idler End with Power Transfer (RIGHT)

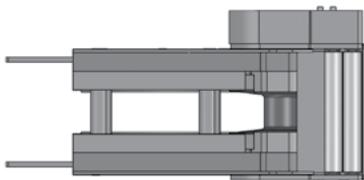
### FLIE-A150PT-R



**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

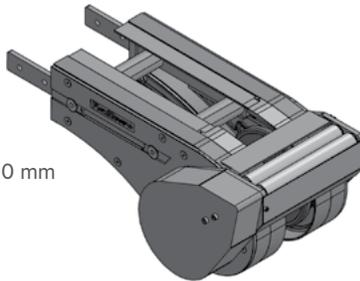
## FL Idler End Driven Transfer Bridge (LEFT)

### FLIE-A150DB-A-L



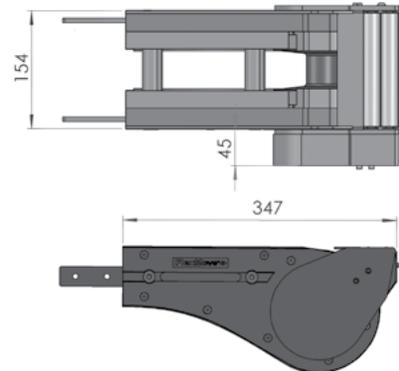
Minimum product length for inline transfer = 100 mm  
 Transfer extends past conveyor only 27 mm

**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

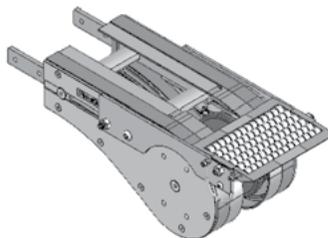
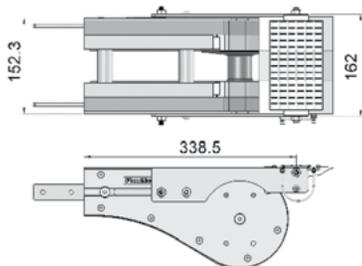


## FL Direct Drive Driven Transfer Bridge (RIGHT)

### FLIE-A150DB-A-R



## FL Idler End Free Transfer Bridge



### FLTB-A150

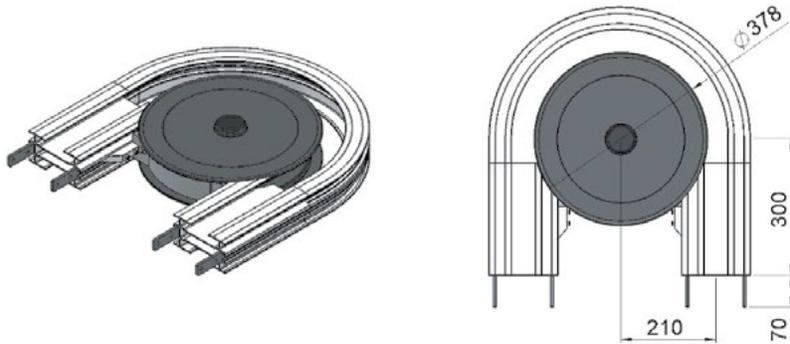
Transfer bridge c/w roller for FLIE-A150, FLDD-A150-XDY and FLDD-A150GP-XDY



**UOM: pc**

## FL Wheel Bend 180°

FLWB-180R210A

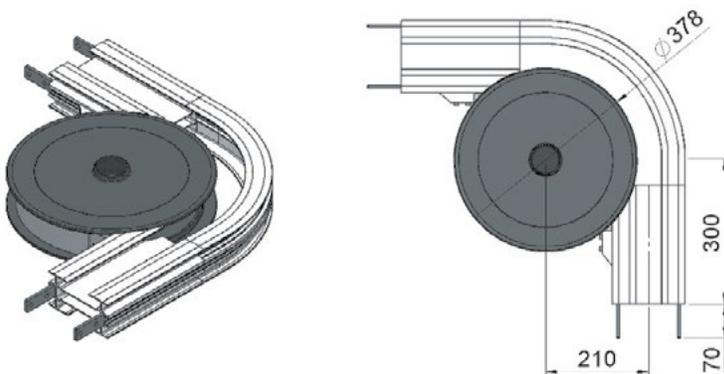


**UOM: pc**

Chain required 2-way: 2.5 meter  
Slide rail required 2-way: 2.8 meter

## FL Wheel Bend 90°

FLWB-90R210A

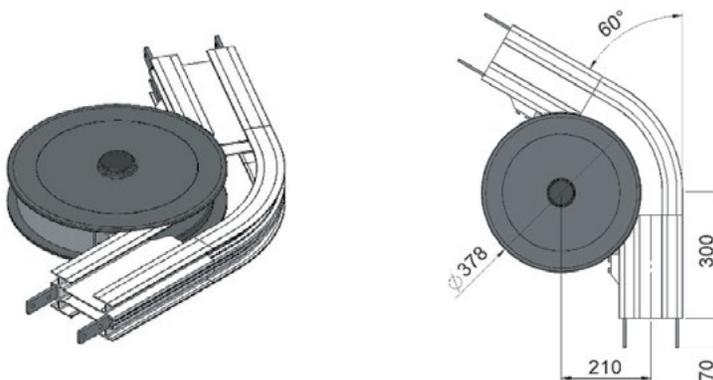


**UOM: pc**

Chain required 2-way: 1.9 meter  
Slide rail required 2-way: 2.2 meter

## FL Wheel Bend 60°

FLWB-60R210A

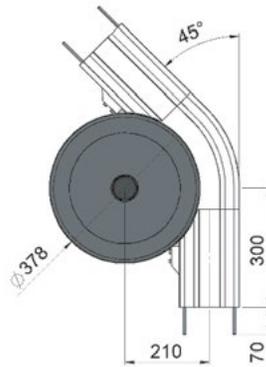
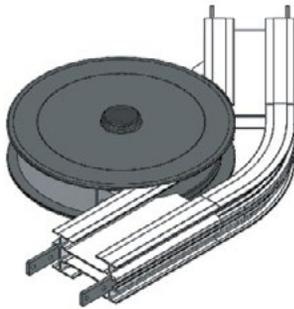


**UOM: pc**

Chain required 2-way: 1.6 meter  
Slide rail required 2-way: 2.0 meter

**FL Wheel Bend 45°**

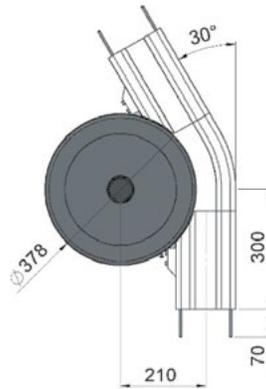
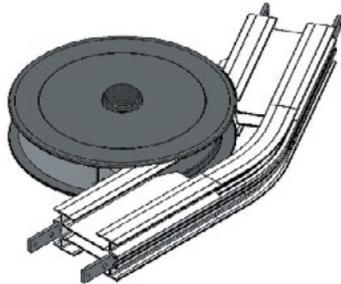
**FLWB-45R210A**



**UOM: pc**  
 Chain required 2-way: 1.5 meter  
 Slide rail required 2-way: 1.8 meter

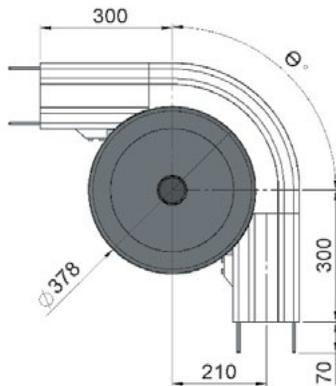
**FL Wheel Bend 30°**

**FLWB-30R210A**



**UOM: pc**  
 Chain required 2-way: 1.4 meter  
 Slide rail required 2-way: 1.7 meter

**FL Wheel Bend 5° - 180°**



**Example for FL Wheel Bend Ordering**

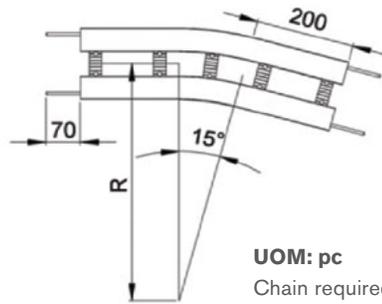
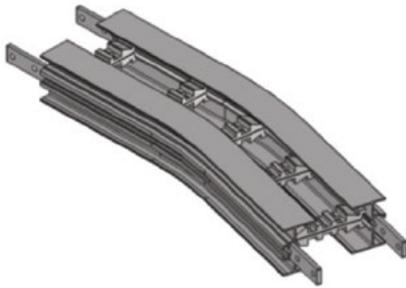
- Wheel bend,  $\varnothing^\circ \pm 1^\circ$
- FLWB- $\varnothing^\circ$ R210A

If an angle of 65° is needed for wheel bend, the ordering part number is

**FLWB-65R210A**

*The outer bend is assembled using connecting strip (FACS-25x140A). Angle of  $\varnothing^\circ$  must be indicated when ordering.*

## FL Horizontal Plain Bend 15°



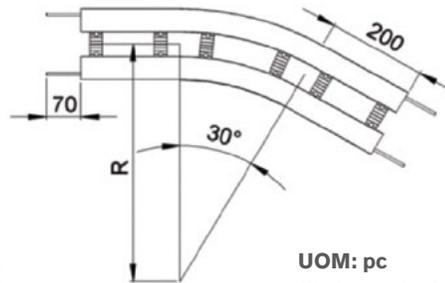
### Horizontal plain bend, 15° ± 1°

- R = 500 ± 10 mm    **FLHB-15R500**
- R = 700 ± 10 mm    **FLHB-15R700**
- R = 1000 ± 10 mm    **FLHB-15R1000**

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1, 1.1, 1.2, 1.3 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 1.9, 2.1, 2.3, 2.6 meter

## FL Horizontal Plain Bend 30°



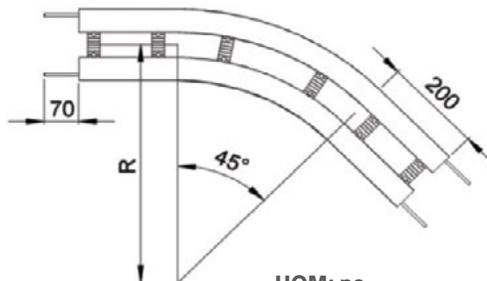
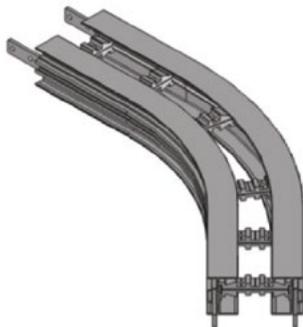
### Horizontal plain bend, 30° ± 1°

- R = 500 ± 10 mm    **FLHB-30R500**
- R = 700 ± 10 mm    **FLHB-30R700**
- R = 1000 ± 10 mm    **FLHB-30R1000**

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.1, 1.3, 1.5, 1.8 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 2.2, 2.6, 3.1, 3.7 meter

## FL Horizontal Plain Bend 45°



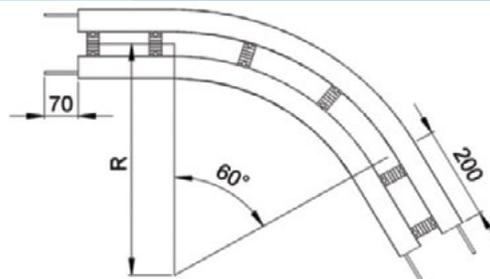
### Horizontal plain bend, 45° ± 1°

- R = 500 ± 10 mm    **FLHB-45R500**
- R = 700 ± 10 mm    **FLHB-45R700**
- R = 1000 ± 10 mm    **FLHB-45R1000**

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.3, 1.6, 1.9, 2.4 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 2.5, 3.2, 3.8, 4.7 meter

## FL Horizontal Plain Bend 60°



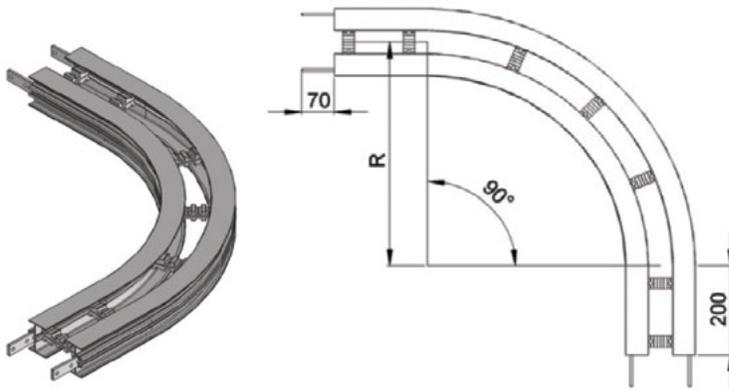
### Horizontal plain bend, 60° ± 1°

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

**UOM: pc**

Chain required 2-way (300, 500, 700, 1000): 1.4, 1.8, 2.3, 2.9 meter  
 Slide rail required 2-way (300, 500, 700, 1000): 2.9, 3.7, 4.5, 5.8 meter

## FL Horizontal Plain Bend 90°



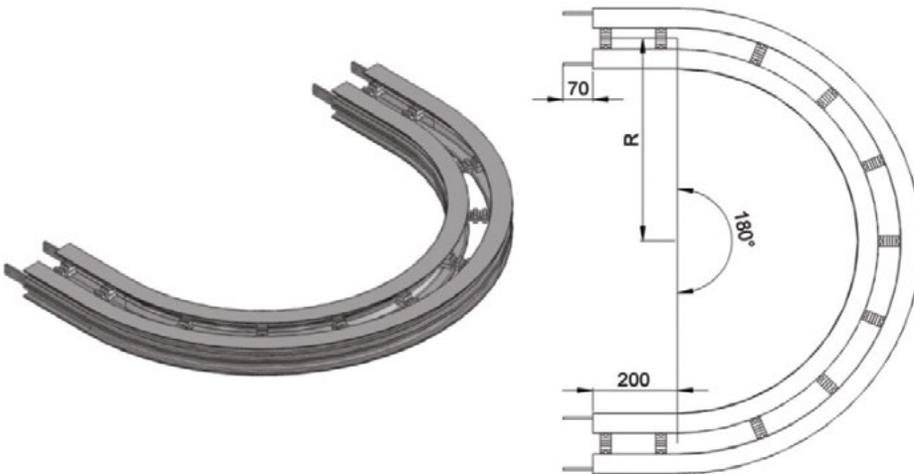
### Horizontal plain bend, 90° ± 1°

- R = 500 ± 10 mm    **FLHB-90R500**
- R = 700 ± 10 mm    **FLHB-90R700**
- R = 1000 ± 10 mm   **FLHB-90R1000**

### UOM: pc

Chain required 2-way (300, 500, 700, 1000):  
1.7, 2.4, 3.0, 3.9 meter  
Slide rail required 2-way (300, 500, 700, 1000):  
3.5, 4.7, 6.0, 7.9 meter

## FL Horizontal Plain Bend 180°



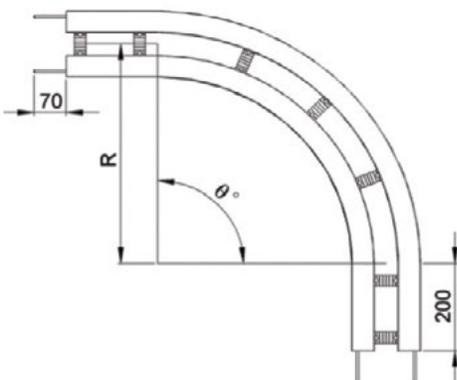
### Horizontal plain bend, 180° ± 1°

- R = 500 ± 10 mm    **FLHB-180R500**
- R = 700 ± 10 mm    **FLHB-180R700**
- R = 1000 ± 10 mm   **FLHB-180R1000**

### UOM: pc

Chain required 2-way (500, 700, 1000) : 4.0, 5.2, 7.1 meter  
Slide rail required 2-way (500, 700, 1000): 7.9, 1.1, 14.2 meter

## FL Horizontal Plain Bend 5° - 180°



### Example for FL Horizontal Plain Bend Ordering

#### Horizontal plain bend, θ° ± 1°

- R = 500 ± 10 mm    **FLHB- θ°R500**
- R = 700 ± 10 mm    **FLHB- θ°R700**
- R = 1000 ± 10 mm   **FLHB- θ°R1000**

If an angle of 120° is needed for radius R500 horizontal plain bend, the ordering part number is

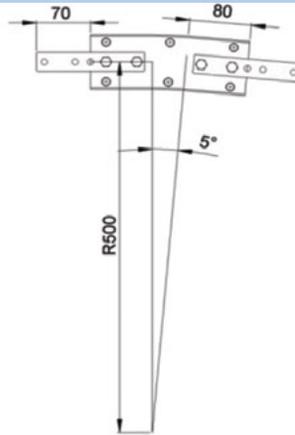
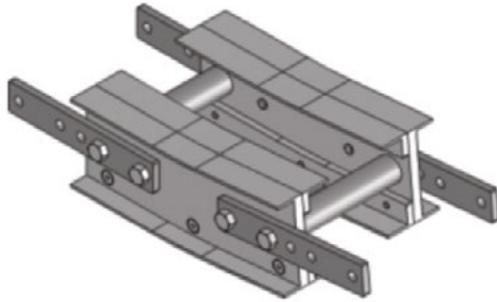
**FLHB-120R500**

### UOM: pc

Chain required 2-way (500, 700, 1000) : meter (variable to angle)  
Slide rail required 2-way (500, 700, 1000): meter (variable to angle)

## FL Vertical Bend 5°

FLVB-5R500

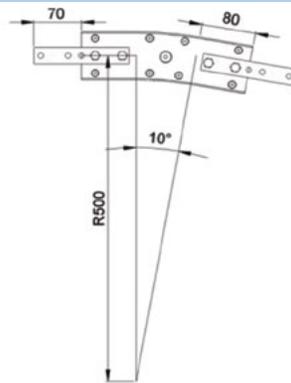
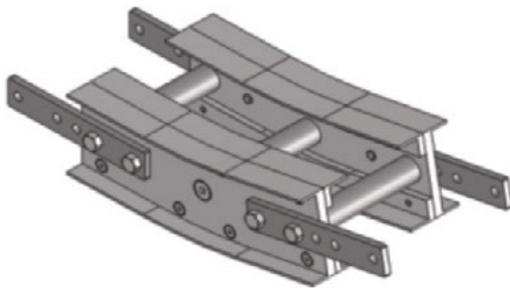


**UOM: pc**

Chain required 2-way: 0.4 meter  
Slide rail required 2-way: 0.8 meter

## FL Vertical Bend 10°

FLVB-10R500

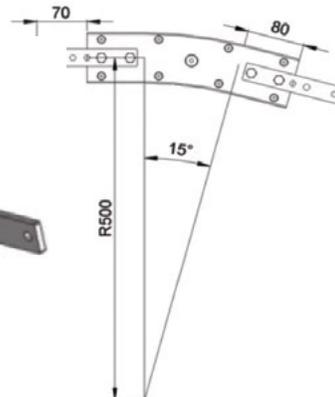
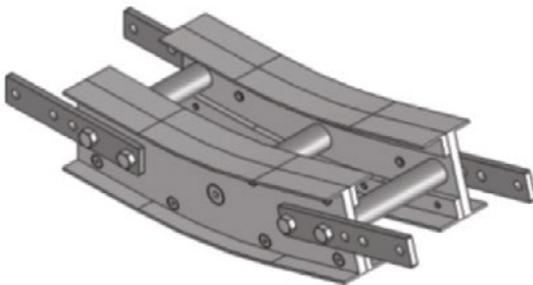


**UOM: pc**

Chain required 2-way: 0.5 meter  
Slide rail required 2-way: 1.0 meter

## FL Vertical Bend 15°

FLVB-15R500

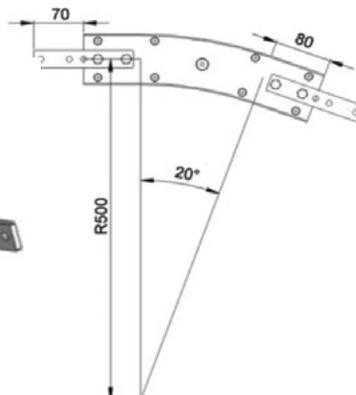
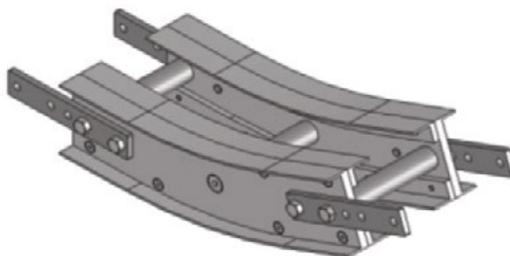


**UOM: pc**

Chain required 2-way: 0.6 meter  
Slide rail required 2-way: 1.2 meter

## FL Vertical Bend 20°

FLVB-20R500

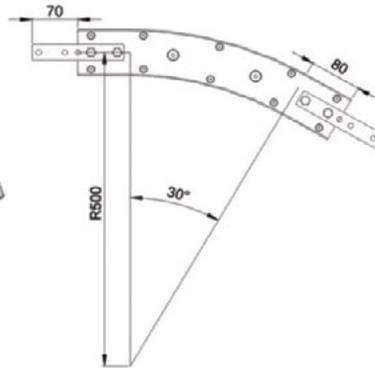
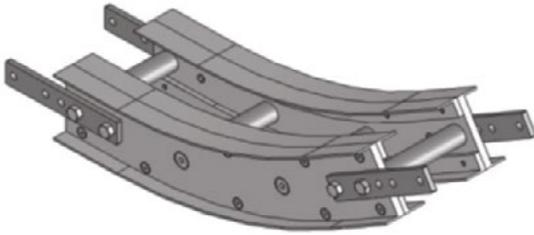


**UOM: pc**

Chain required 2-way: 0.7 meter  
Slide rail required 2-way: 1.3 meter

### FL Vertical Bend 30°

FLVB-30R500



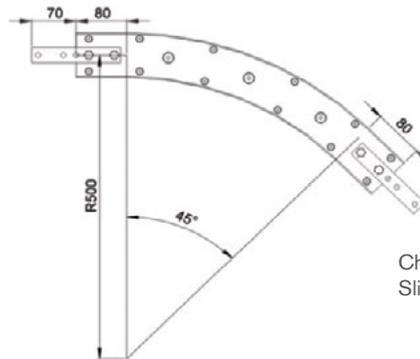
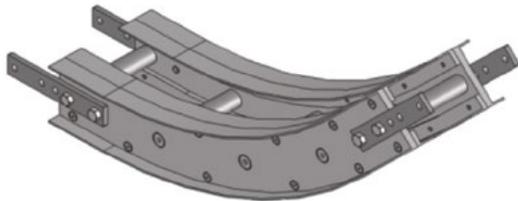
**UOM: pc**

Chain required 2-way: 0.8 meter

Slide rail required 2-way: 1.7 meter

### FL Vertical Bend 45°

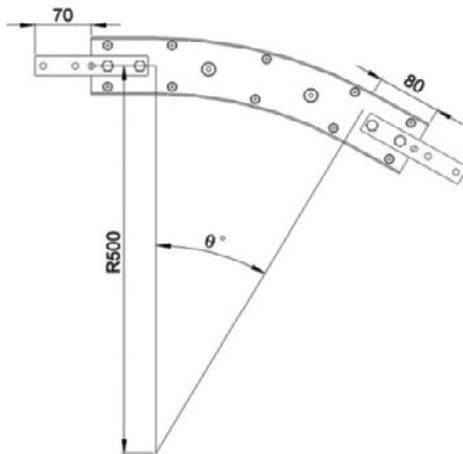
FLVB-45R500



Chain required 2-way: 1.1 meter

Slide rail required 2-way: 2.2 meter

### FL Vertical Bend 5°-90°



#### Example for FL Vertical Bend Ordering

- Vertical bend,  $\theta^\circ \pm 1^\circ$

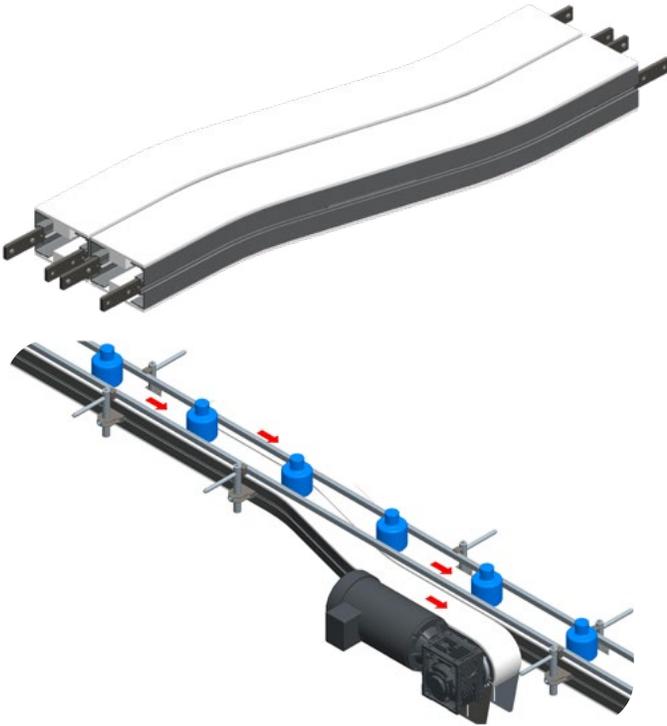
- FLVB- $\theta^\circ$ R500

If an angle of 65° is needed for vertical bend, the ordering part number is

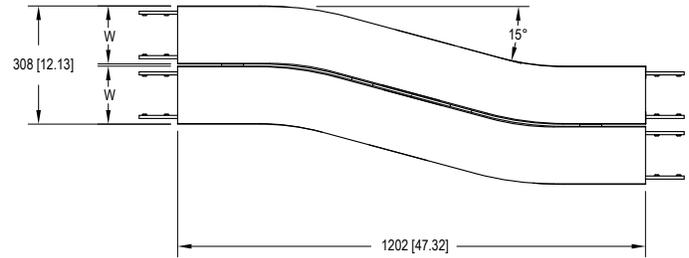
**FLVB-65R500**

*The outer bend is assembled using connecting strip (FACS-25x140A). Angle of "θ°" must be indicated when ordering.*

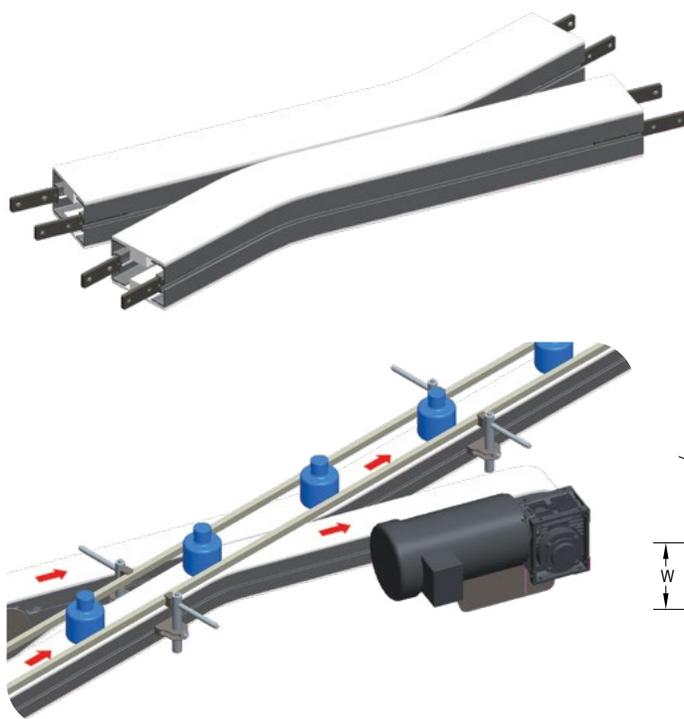
**FL S In-Line Transfer Module**  
**FLST-150**



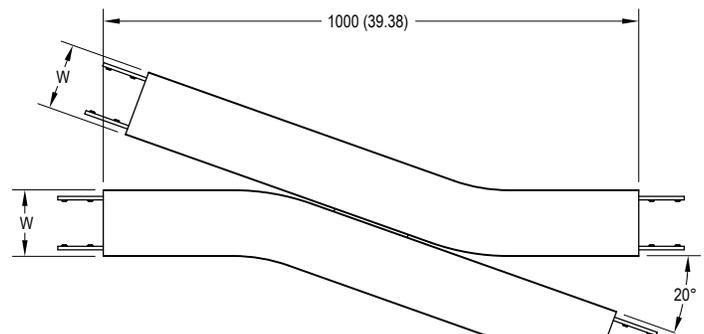
- S In-Line Modules provide a standard, compact way to side transfer product from conveyor to conveyor.
- Straight guiding is placed across the transfer module for smooth In-Line product flow
- Conveyors are mounted together to provide a smooth transfer even for small products
- S In-Line transfers are compact in the width dimension



**FL X In-Line Transfer Module**  
**FLXT-150**



- X In-Line Modules provide a standard, compact way to side transfer product from conveyor to conveyor.
- Straight guiding is placed across the transfer module for smooth In-Line product flow
- Conveyors are mounted together to provide a smooth transfer even for small products
- X In-Line transfers are compact in the length direction



Variety of chain type suitable for wide range of applications either horizontal or vertical product transportation. The maximum product width to be conveyed can be referred to guide rail assembly pages.

**FU180 Series Characteristic**

**Beam Width:** 179 mm

**Product Width:** Refer to Guide Rail Assembly

**Accessories Needed**

**Slide Rail Required:** FASR-25, FASR-25U, FASR-25X

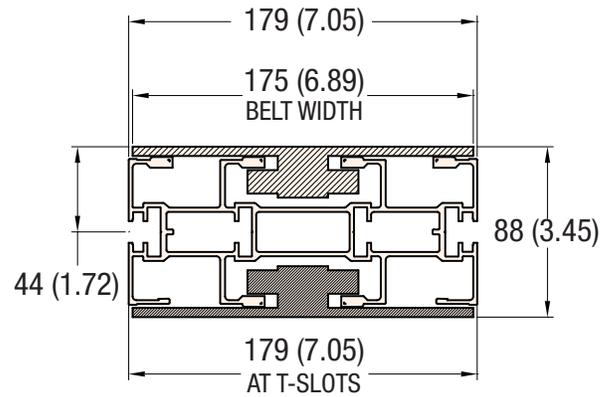
**Slide Rail Color:** White or Natural Color

**Slide Rail Material:** HDPE, UHMW OR SPECIAL PE

**Slide Rail Rivet & Screw:** FASLR-4X6 or FASLS-M5

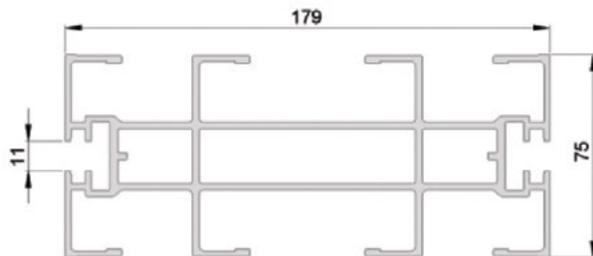
Connecting strip is used to connect two beams.

**Connecting Strip:** FACS-25x140A

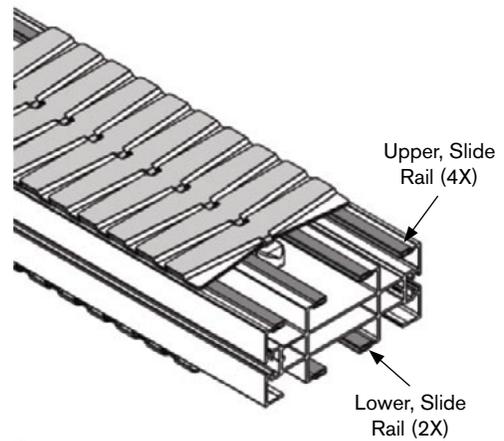


**180 MM WIDTH**

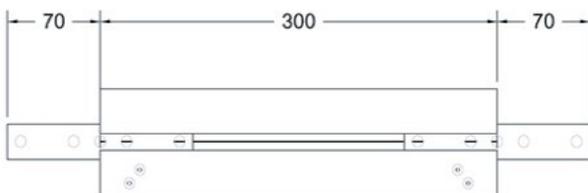
**Conveyor Beam FUCB-3**



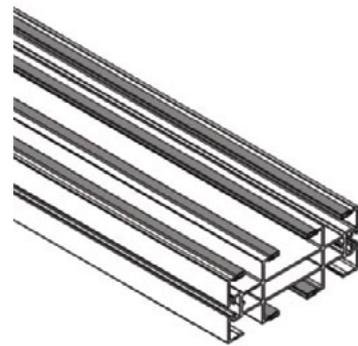
UOM: 3 Meter / Length



**Chain Connecting Module FUCC-300**



UOM: 3 Meter / Length



## Chain Common Data

**Packaging:** 5 m per box

**Pitch:** 33.5 mm

**Width:** 175 mm

Tensile Strength at 20°C: 6000N

**Color:** White

### Material:

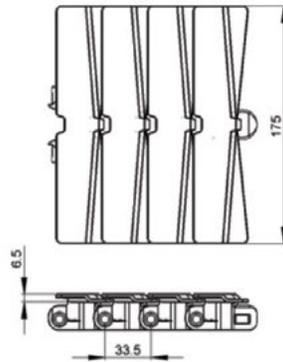
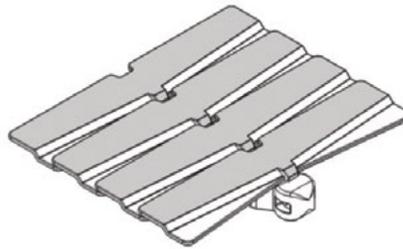
**Chain:** White Acetal / POM

**Pivot:** Polyamide

**Pivot Pin:** Stainless Steel

**Insert (Wedge & Friction):** TPE Grey

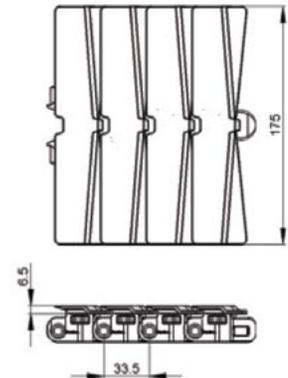
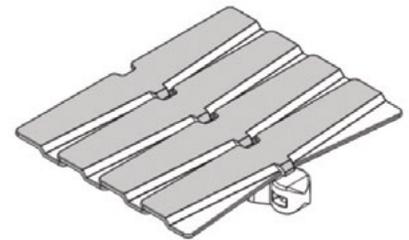
### Plain Chain FUPC-5



**UOM:** 5 Meter / box

Application: Suitable for horizontal and slope < 5° transport of products with accumulation.

### Roller Plain Chain FUPC-5R

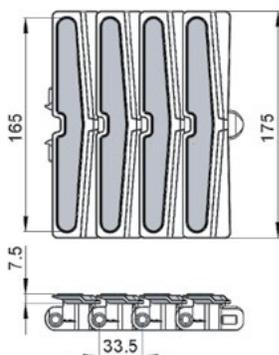
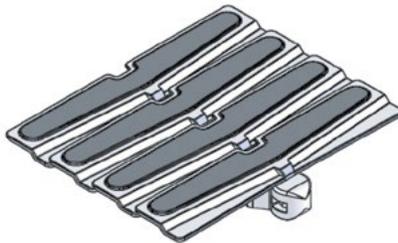


**UOM:** 5 Meter / box

Application: Suitable for horizontal and slope < 5° transport of products with accumulation.

**Note: Friction Reducing Roller Chain Recommended for high speed or high load plain bends**

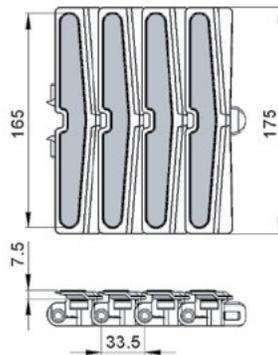
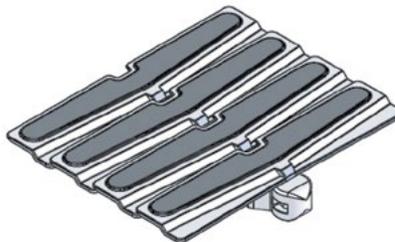
### Friction Top Chain FUFT-B-5



**UOM:** 5 Meter / box

Application: Suitable for horizontal and slope ≤ 30° transport of products without accumulation.

### Roller Friction Top Chain FUFT-B-5R

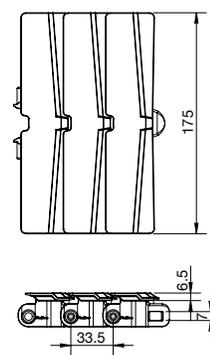
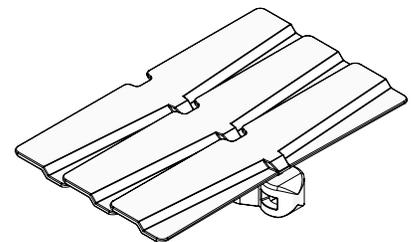


**UOM:** 5 Meter / box

Application: Suitable for horizontal and slope ≤ 30° transport of products without accumulation.

**Note: Friction Reducing Roller Chain Recommended for high speed or high load plain bends**

### Twist Chain FUPC-5M



**UOM:** 5 Meter / box

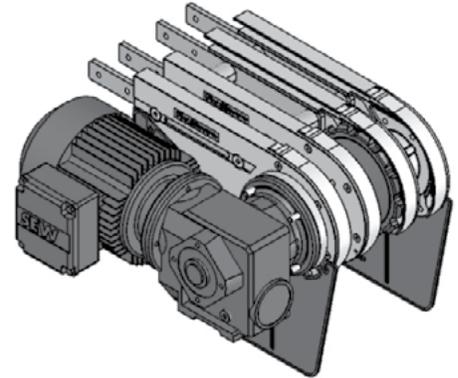
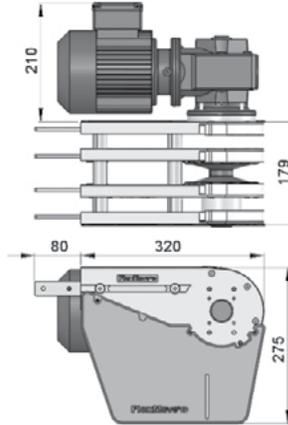
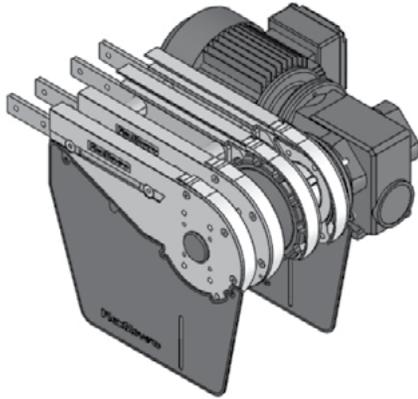
Application: Suitable twist conveyor beam; horizontal and slope < 5° transport of products with accumulation.

### FU Direct End Drive with Motor (LEFT)

FUDD-A180-XDY (See Chart)

### FU Direct End Drive with Motor (RIGHT)

FUDD-A180-XDY (See Chart)



| Part Number |   | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|---|--------------------|-----------|----------------------|
| FUDD-A180   | - | X                  | D         | Y                    |
|             |   | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             |   | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             |   | A = 20 mm Aux Only |           |                      |

### Max Traction Force: 1250N

The Direct End Drive Unit is without torque limiter.

### UOM: pc

Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 1.0 meter

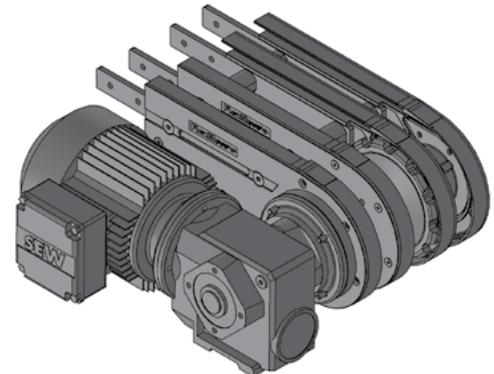
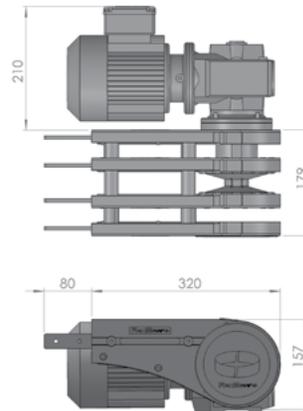
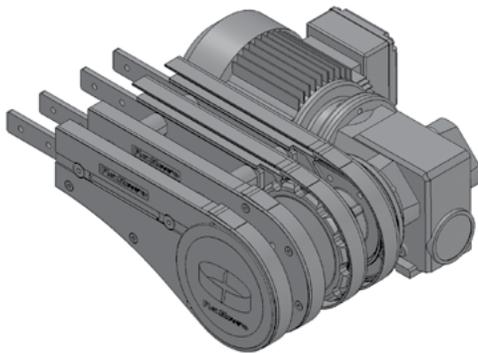
\*3/4 inch shaft option available in North America only.

### FU Direct End Drive unit without Motor GP (LEFT)

FUDD-A180GP-XDY (See Chart)

### FU Direct End Drive unit without Motor GP (RIGHT)

FUDD-A180GP-XDY (See Chart)



Requires the use of connecting or weighted take-up module for chain maintenance.

| Part Number |   | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|---|--------------------|-----------|----------------------|
| FUDD-A180GP | - | X                  | D         | Y                    |
|             |   | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             |   | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             |   | A = 20 mm Aux Only |           |                      |

### Max Traction Force: 1250N

The Direct End Drive Unit GP is without torque limiter.

### UOM: pc

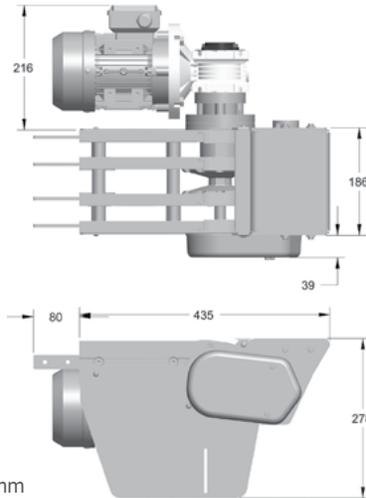
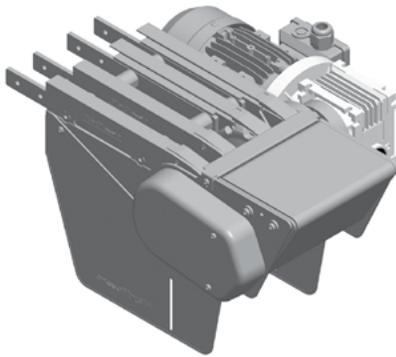
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 1.0 meter

\*3/4 inch shaft option available in North America only.

SEW gearmotors are products of SEW Eurodrive

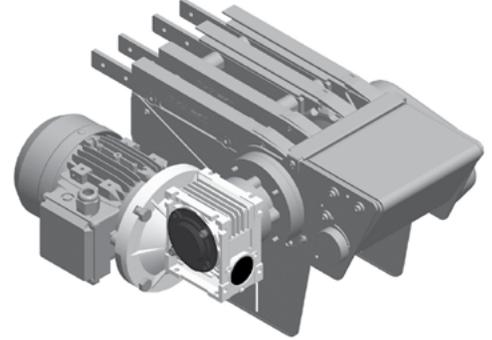
## FU Direct with Power Transfer Motor (LEFT)

FUDD-A180PT-XD (See Chart)



## FU Direct with Power Transfer Motor (RIGHT)

FUDD-A180PT-XD (See Chart)



Minimum product length for inline transfer = 100 mm  
 Maximum speed is 30 m/min (100 ft/min)  
 Only one power transfer needed on either infeed or discharge trail required for end to end transfer. Provides extended transfer nose for interfacing with large rollers.

| Part Number |   | Shaft Selection | Direction |
|-------------|---|-----------------|-----------|
| FUDD-A180PT | - | X               | D         |
|             |   | 0 = 20 mm       | L = Left  |
|             |   | E = 3/4 in*     | R = Right |

\*3/4 inch shaft option available in North America only.

### Max Traction Force: 1250N

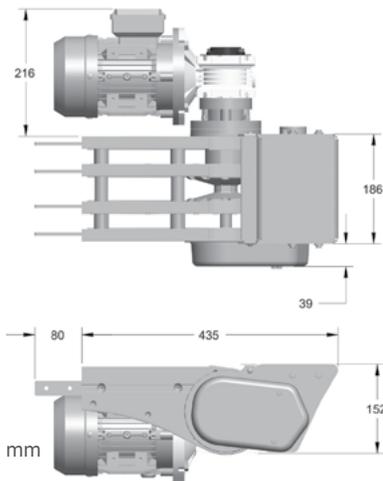
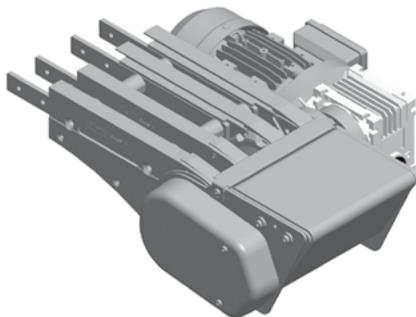
The Direct End Drive Unit is without torque limiter.

### UOM: pc

Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 1.0 meter

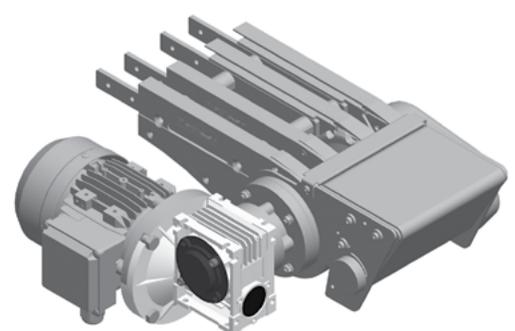
## FU GP Direct with Power Transfer Motor (LEFT)

FUDD-A180GPPT-XD (See Chart)



## FU GP Direct with Power Transfer Motor (RIGHT)

FUDD-A180GPPT-XD (See Chart)



Minimum product length for inline transfer = 100 mm  
 Maximum speed is 30 m/min (100 ft/min)  
 Only one power transfer needed on either infeed or discharge trail required for end to end transfer. Provides extended transfer nose for interfacing with large rollers.  
 Requires the use of connecting or weighted take-up module for chain maintenance.

| Part Number   |   | Shaft Selection | Direction |
|---------------|---|-----------------|-----------|
| FUDD-A180GPPT | - | X               | D         |
|               |   | 0 = 20 mm       | L = Left  |
|               |   | E = 3/4 in*     | R = Right |

\*3/4 inch shaft option available in North America only.

### Max Traction Force: 1250N

The Direct End Drive Unit GP is without torque limiter.

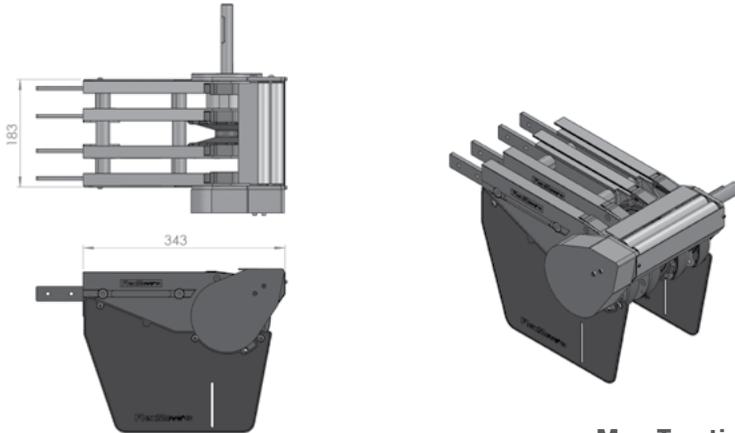
### UOM: pc

Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 1.0 meter

SEW gearmotors are products of SEW Eurodrive

### FU Direct Drive Driven Transfer Bridge (LEFT)

FUDD-A180DB-A-0L

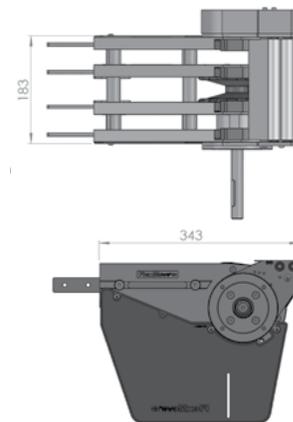


**UOM: pc**

20 mm Shaft only.  
Minimum product length for inline transfer = 100 mm  
Transfer extends past conveyor only 27 mm

### FU Direct Drive Driven Transfer Bridge (RIGHT)

FUDD-A180DB-A-0R



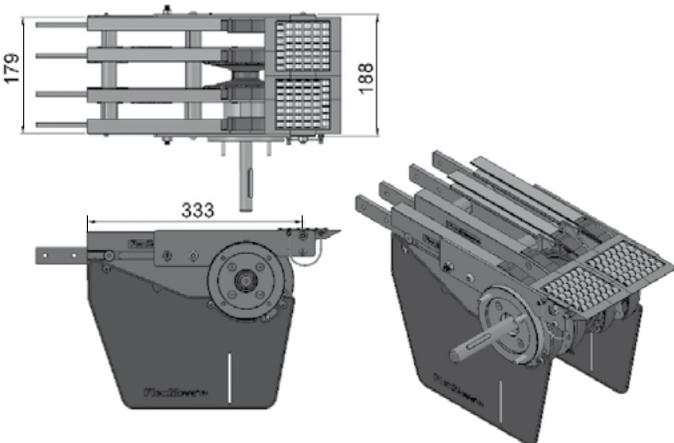
**Max Traction Force: 1250N**

The Direct End Drive Unit is without torque limiter.

**UOM: pc**

Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0 meter

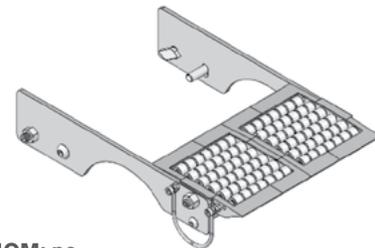
### FU Direct Drive Free Roller Transfer Bridge (LEFT/ RIGHT)



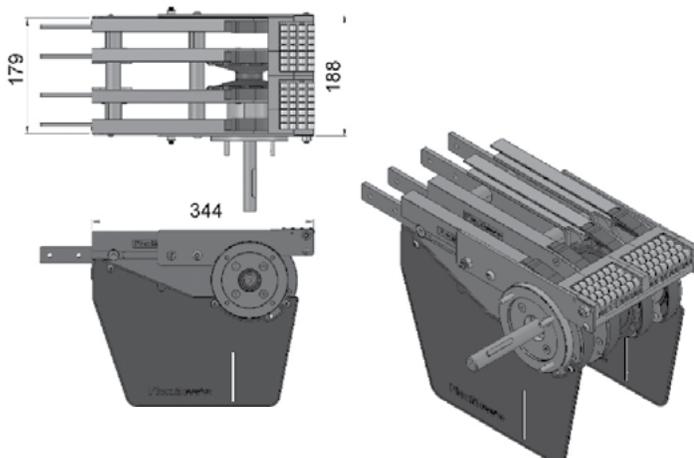
FUTB-A180

Transfer bridge c/w roller for FUIE-A180, FUDD-A180-XDY and FUDD-A180GP-XDY

**UOM: pc**



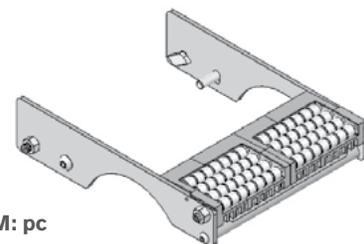
### FU Direct Drive End Free Roller Bridge (LEFT/ RIGHT)



FUEB-A180

End transfer bridge c/w roller for FUIE-A180, FUDD-A180-XDY and FUDD-A180GP-XDY

**UOM: pc**

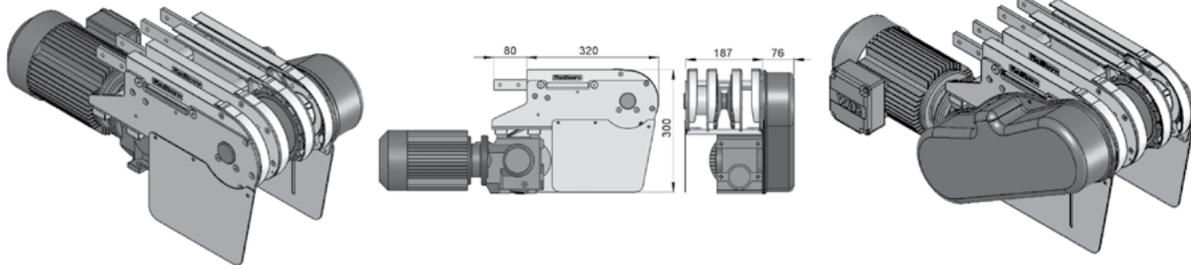


## FU Suspended Drive with Motor (LEFT)

FUSD-A180-0L (with Torque Limiter)  
FUSD-A180SPT-0L (without Torque Limiter)

## FU Suspended Drive with Motor (RIGHT)

FUSD-A180-0R (with Torque Limiter)  
FUSD-A180SPT-0R (without Torque Limiter)



- Locates gearmotor below conveyor for compact applications.
- Includes torque limiter protecting chain and motor from overload.
- Chain pull capacity at 1250N for unit without torque limiter.
- Chain pull capacity at 840N for unit with torque limiter.

**Max Traction Force: 1250N**  
**1250N** (without limiter)  
**840N** (with limiter)

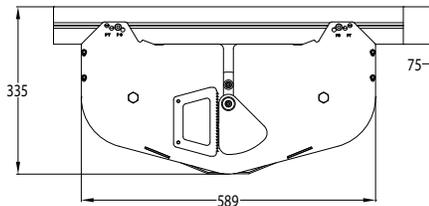
**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 1.0 meter

## FU Weighted Take-up Module

FU-WTU-700



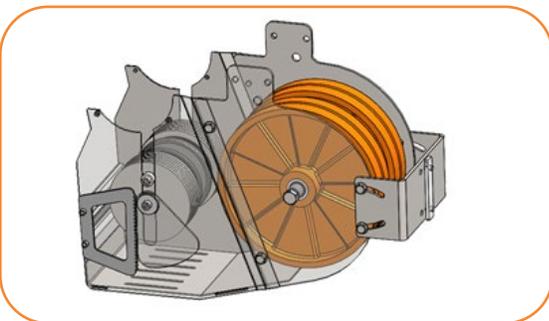
- Provides automatic chain stretch take-up
- Reduces noise caused from catenary tail
- Must be used with GP Drive End, sold separately
- Used on conveyors over 12 M long



**UOM: pc**  
 Chain required 1.5 meter  
 Slide rail required 3.5 meter

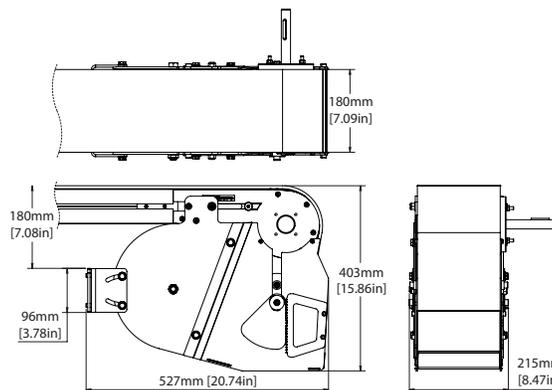
## FU Weighted Take-up Tail Module

FU-WTU-180



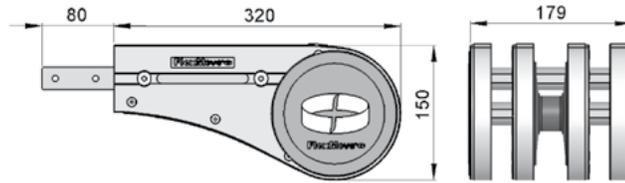
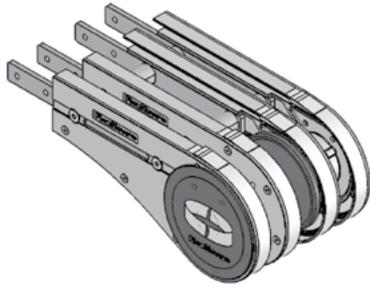
**UOM: pc**  
 Chain required 1.5 meter  
 Slide rail required 2.1 meter

- Provides controlled chain take-up for improved conveyor performance
- Compact design fits in similar space as standard direct drive modules
- Smooths conveyor chain movement by helping to eliminate micro-surfing
- Suggested for conveyors over 12.2 M (40 ft) in length
- Capable of inclined and declined arrangement up to 30 degrees
- Improves operator safety by enclosing chain catenary
- Attaches to direct end drive tail
- Compatible with power transfer and driven bridge



## FU Idler End-180

FUIE-A180

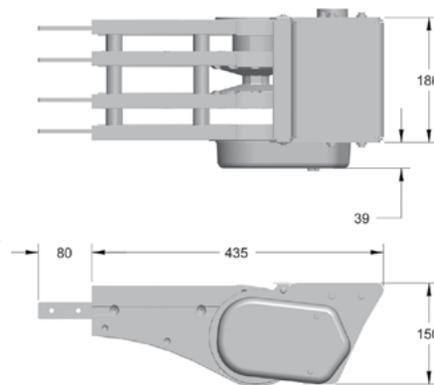
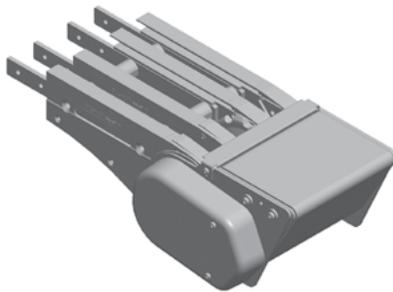


**UOM: pc**

Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 1.0 meter

## FU Idler End with Power Transfer (LEFT)

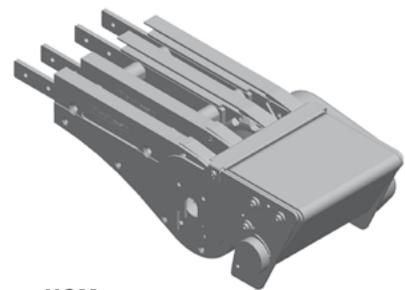
FUIE-A180PT-L



Minimum product length for inline transfer = 100 mm  
Provides extended transfer nose for interfacing with large rollers.

## FU Idler End with Power Transfer (RIGHT)

FUIE-A180PT-R

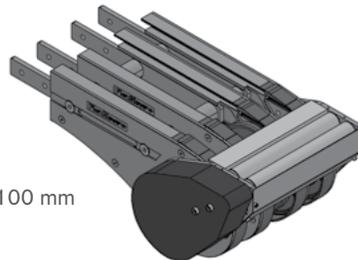
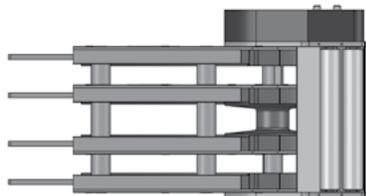


**UOM: pc**

Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 1.0 meter

## FU Idler End Driven Transfer Bridge (LEFT)

FUIE-A180DB-A-L



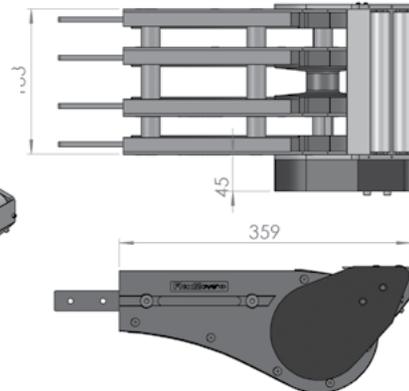
Minimum product length for inline transfer = 100 mm  
Transfer extends past conveyor only 27 mm

**UOM: pc**

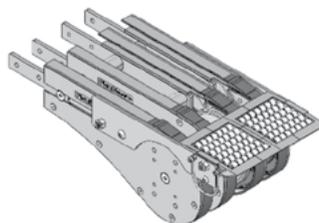
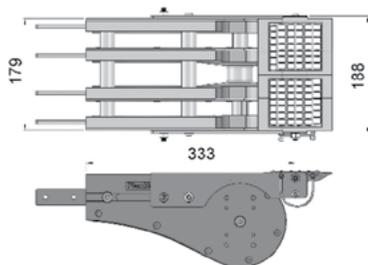
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 1.0 meter

## FU Idler End Driven Transfer Bridge (RIGHT)

FUIE-A180DB-A-R

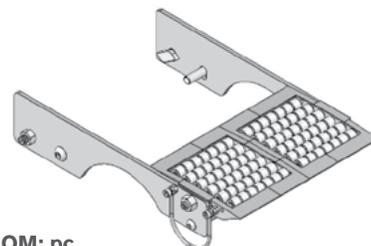


## FU Idler Free Roller Transfer Bridge



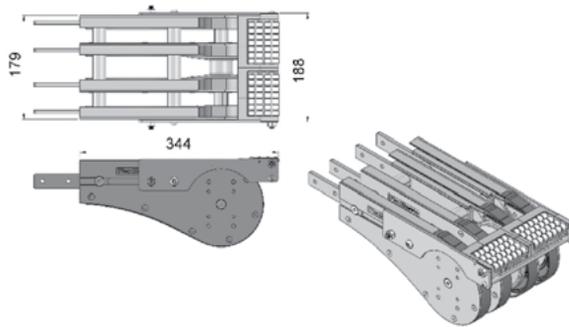
FUTB-A180

Transfer bridge c/w roller for FUIE-A180, FUDD-A180-XDY and FUDD-A180GP-XDY



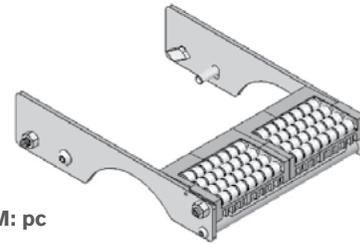
**UOM: pc**

## FU Idler End Free Roller Bridge



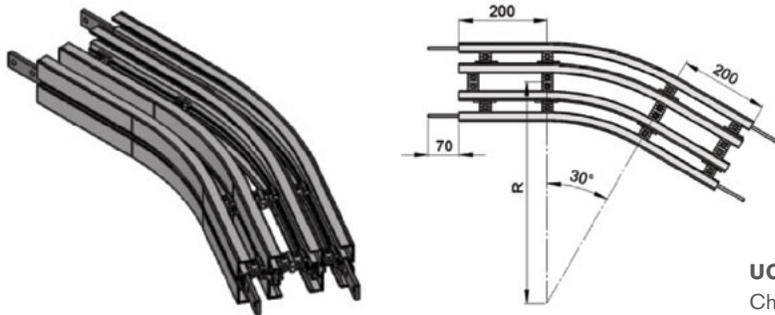
## FUEB-A180

End transfer bridge c/w roller for FUIE-A180, FUDD-A180-XDY and FUDD-A180GP-XDY



UOM: pc

## FU Horizontal Plain Bend 30°



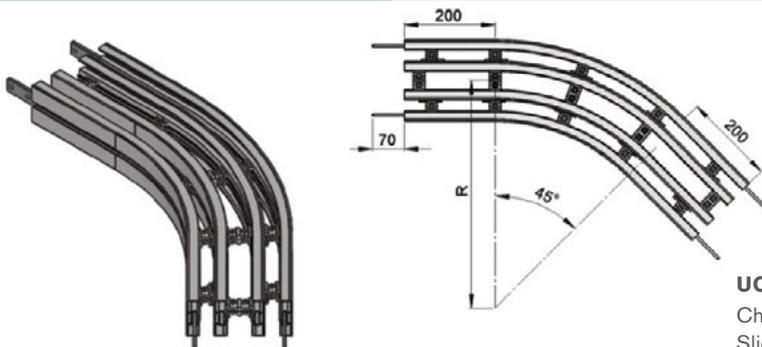
### Horizontal plain bend, 30° ± 1°

- R = 500 ± 10 mm **FUHB-30R500**
- R = 700 ± 10 mm **FUHB-30R700**
- R = 1000 ± 10 mm **FUHB-30R1000**

UOM: pc

Chain required 2-way (500, 700, 1000): 1.3, 1.5, 1.8 meter  
Slide rail required 2-way (500, 700, 1000): 4.0, 4.6, 5.5 meter

## FU Horizontal Plain Bend 45°



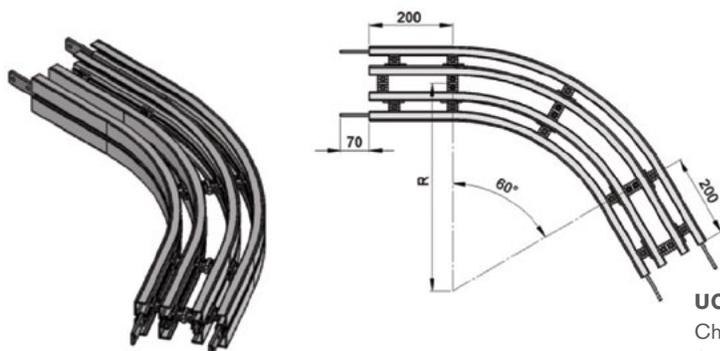
### Horizontal plain bend, 45° ± 1°

- R = 500 ± 10 mm **FUHB-45R500**
- R = 700 ± 10 mm **FUHB-45R700**
- R = 1000 ± 10 mm **FUHB-45R1000**

UOM: pc

Chain required 2-way (500, 700, 1000): 1.6, 1.9, 2.4 meter  
Slide rail required 2-way (500, 700, 1000): 4.8, 5.7, 7.1 meter

## FU Horizontal Plain Bend 60°



### Horizontal plain bend, 60° ± 1°

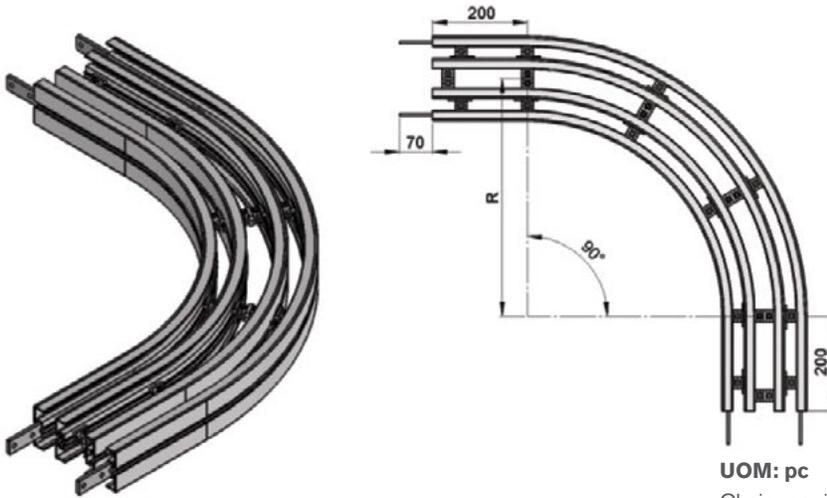
- R = 500 ± 10 mm **FUHB-60R500**
- R = 700 ± 10 mm **FUHB-60R700**
- R = 1000 ± 10 mm **FUHB-60R1000**

UOM: pc

Chain required 2-way (500, 700, 1000): 1.8, 2.3, 2.9 meter  
Slide rail required 2-way (500, 700, 1000): 5.5, 6.8, 8.7 meter

## FU Horizontal Plain Bend 90°

FUVB-10R400



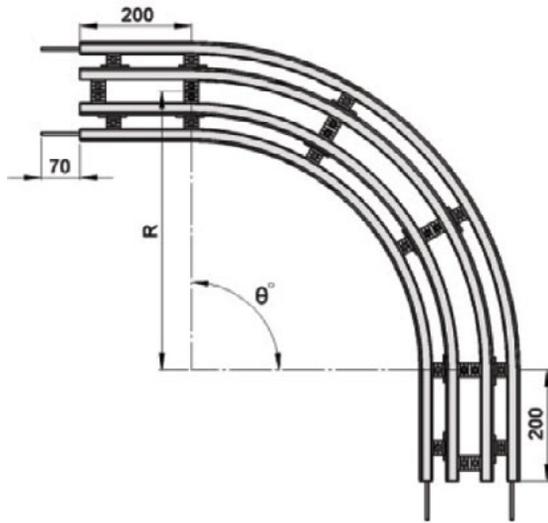
### Horizontal plain bend, 90° ± 1°

- R = 500 ± 10 mm     **FUHB-90R500**
- R = 700 ± 10 mm     **FUHB-90R700**
- R = 1000 ± 10 mm    **FUHB-90R1000**

**UOM: pc**

Chain required 2-way (500, 700, 1000): 2.4, 3.0, 3.9 meter  
 Slide rail required 2-way (500, 700, 1000): 7.1, 9.0, 11.8 meter

## FU Horizontal Plain Bend 5° - 180°



### Example for FU Horizontal Plain Bend Ordering

#### Horizontal plain bend, θ° ± 1°

- R = 500 ± 10 mm     **FUHB - θ°R500**
- R = 700 ± 10 mm     **FUHB - θ°R700**
- R = 1000 ± 10 mm    **FUHB - θ°R1000**

If an angle of 120° is needed for radius R500 horizontal plain bend, the ordering part number is

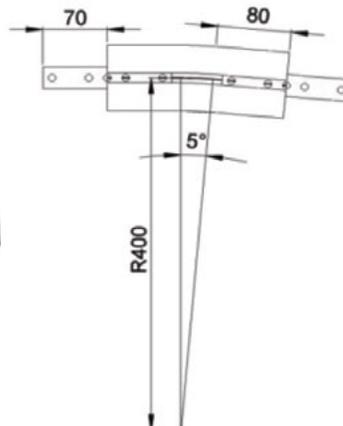
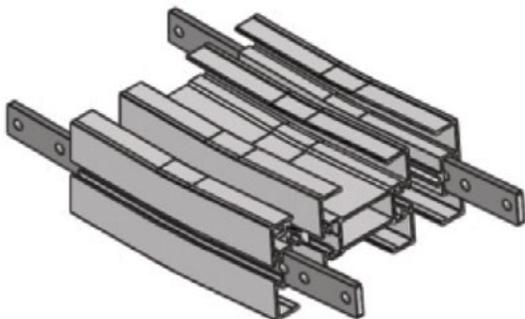
**FUHB-120R500**

**UOM: pc**

Chain required 2-way (500, 700, 1000) : meter (variable to angle)  
 Slide rail required 2-way (500, 700, 1000): meter (variable to angle)

## FU Vertical Bend 5°

FUVB-5R400

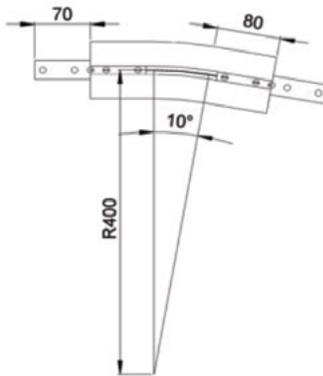
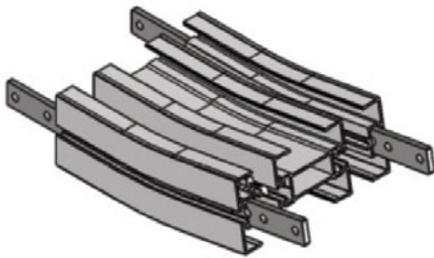


**UOM: pc**

Chain required 2-way: 0.4 meter  
 Slide rail required 2-way: 1.2 meter

## FU Vertical Bend 10°

FUVB-10R400

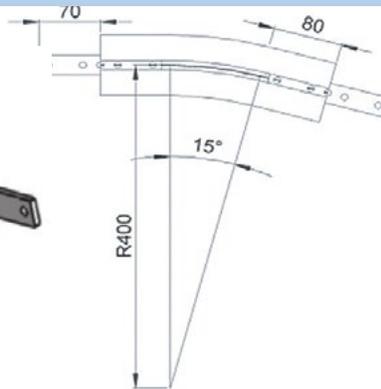
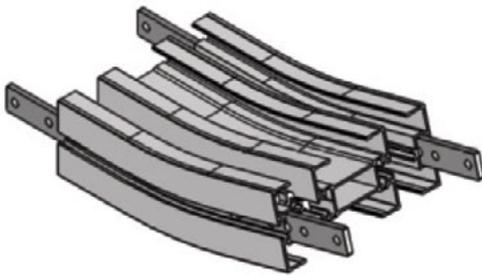


**UOM: pc**

Chain required 2-way: 0.5 meter  
Slide rail required 2-way: 1.4 meter

## FU Vertical Bend 15°

FUVB-15R400

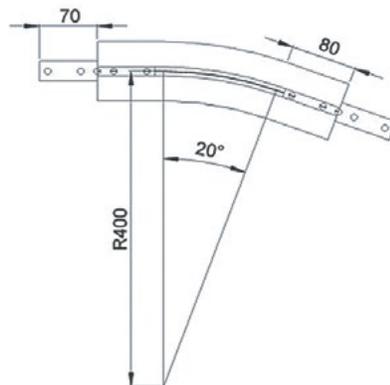
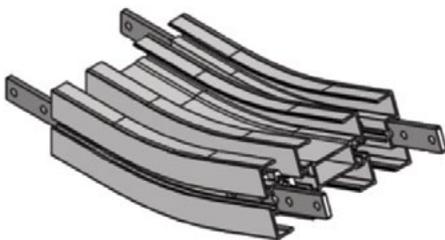


**UOM: pc**

Chain required 2-way: 0.5 meter  
Slide rail required 2-way: 1.6 meter

## FU Vertical Bend 20°

FUVB-20R400

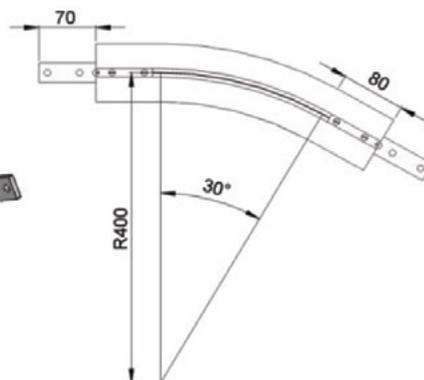
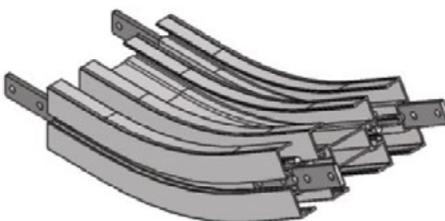


**UOM: pc**

Chain required 2-way: 0.6 meter  
Slide rail required 2-way: 1.8 meter

## FU Vertical Bend 30°

FUVB-30R400

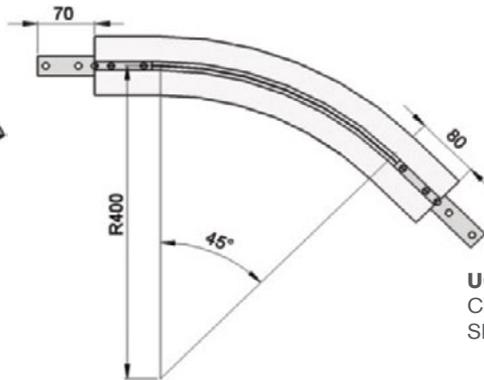
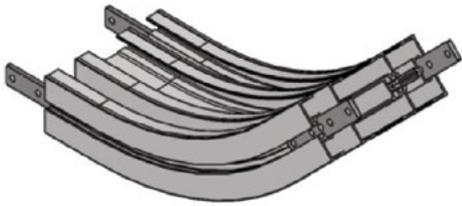


**UOM: pc**

Chain required 2-way: 0.7 meter  
Slide rail required 2-way: 2.2 meter

## FU Vertical Bend 45°

FUVB-45R400



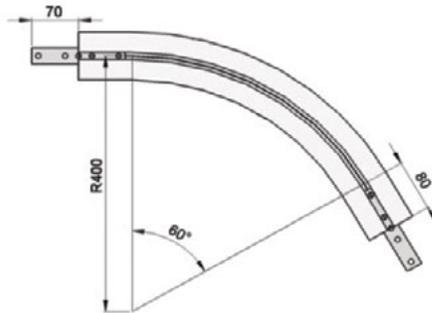
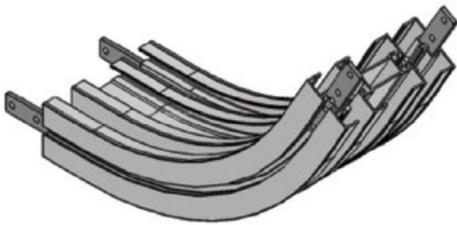
**UOM: pc**

Chain required 2-way: 0.9 meter

Slide rail required 2-way: 2.8 meter

## FU Vertical Bend 60°

FUVB-60R400



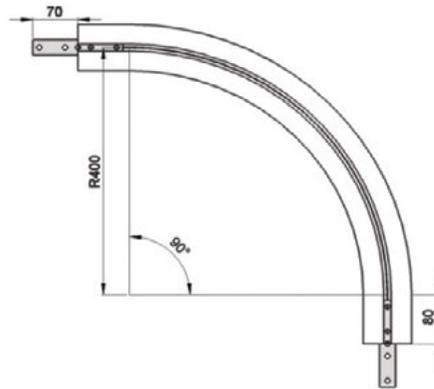
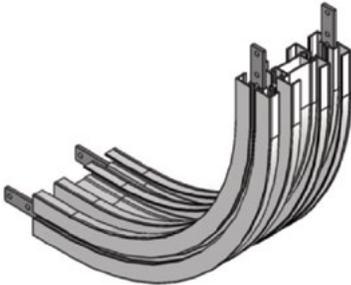
**UOM: pc**

Chain required 2-way: 1.2 meter

Slide rail required 2-way: 3.5 meter

## FU Vertical Bend 90°

FUVB-90R400

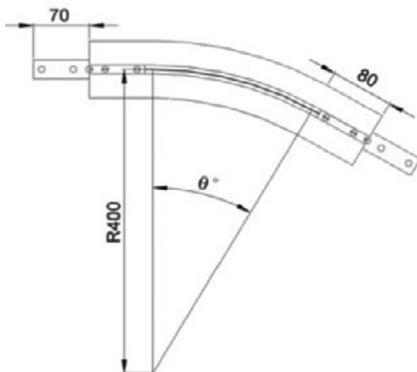


**UOM: pc**

Chain required 2-way: 1.6 meter

Slide rail required 2-way: 4.7 meter

## FU Vertical Bend 5°-90°



### Example for FU Vertical Bend Ordering

- Vertical bend,  $\varnothing \pm 1^\circ$

- FUVB- $\varnothing$ R400

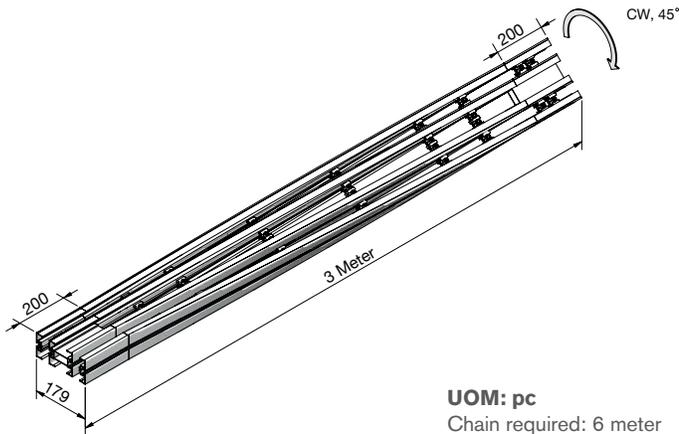
If an angle of 65° is needed for vertical bend, the ordering part number is

**FUVB-65R400**

*The outer bend is assembled using connecting strip (FACS-25x140A).*

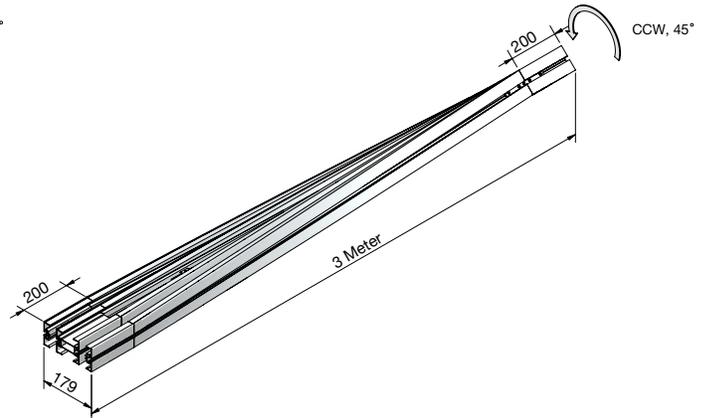
*Angle of "∅" must be indicated when ordering.*

**FU 45 Degree Twist Conveyor Beam (Clockwise)**  
**FUTB-CW45x3000**

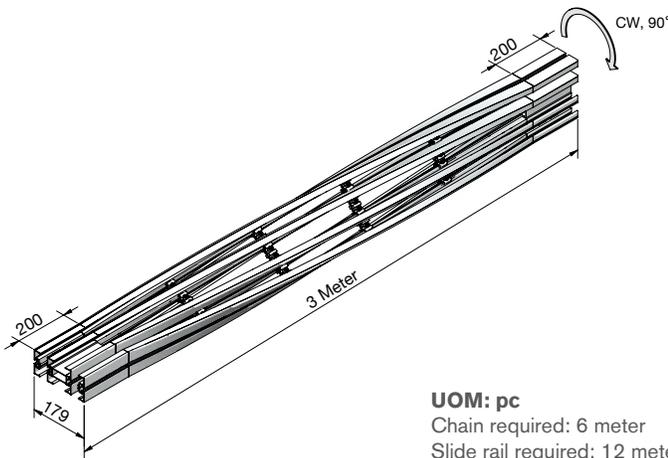


**UOM: pc**  
 Chain required: 6 meter  
 Slide rail required: 12 meter

**FU 45 Degree Twist Conveyor Beam (Counter-Clockwise)**  
**FUTB-CCW45x3000**

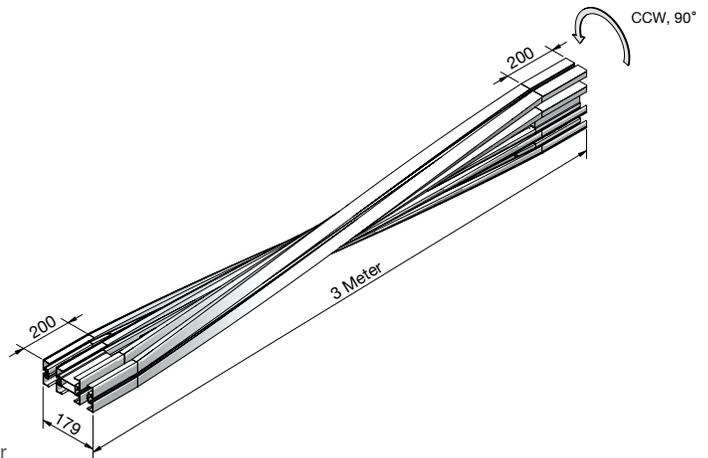


**FU 90 Degree Twist Conveyor Beam (Clockwise)**  
**FUTB-CW90x3000**

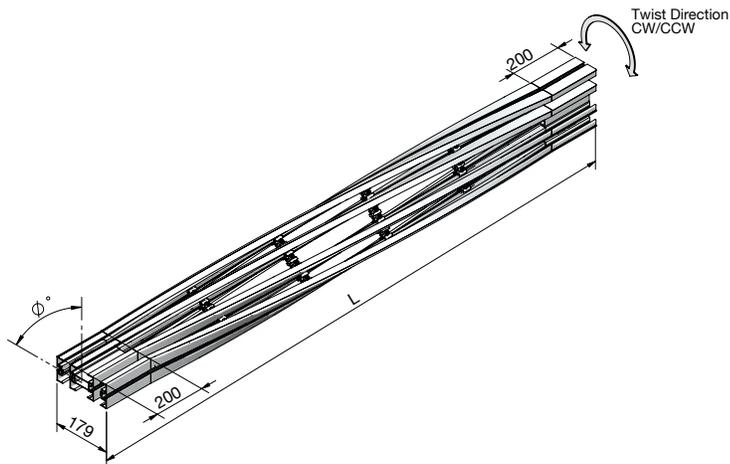


**UOM: pc**  
 Chain required: 6 meter  
 Slide rail required: 12 meter

**FU 90 Degree Twist Conveyor Beam (Counter-Clockwise)**  
**FUTB-CCW90x3000**



**FU Twist Conveyor Beam 15° - 90°**  
**FUTB-AAABBx3000**      Where AAA = CW or CCW, BB = Angle



**Example for FU Twist Conveyor Beam Ordering**

- Twist Conveyor Beam,  $\varnothing^\circ \pm 5^\circ$

If an angle of  $30^\circ$  is needed for twist beam, in clockwise direction and length 3.0 m, the ordering part number is

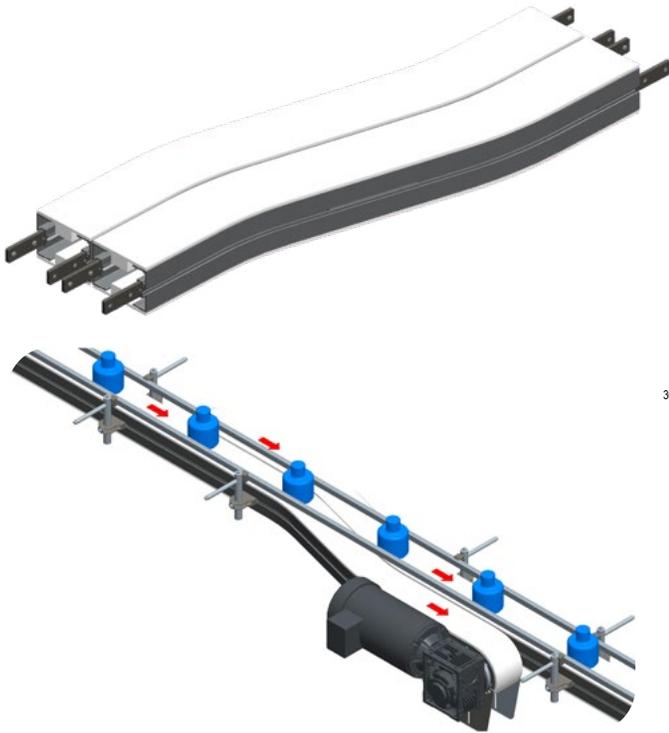
**FUTB-CW30x3000**

Angle of  $\varnothing^\circ$ , twist direction, and length L, must be indicated when ordering.

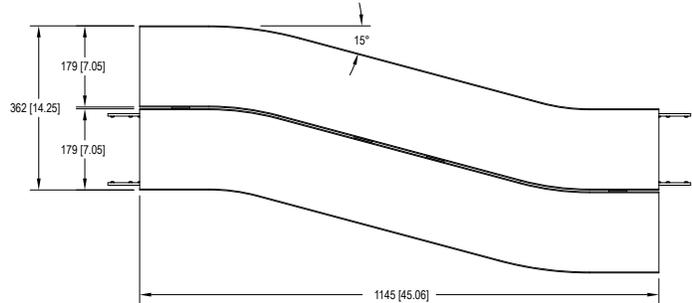
**UOM: pc**  
 Chain required: 6 meter  
 Slide rail required: 12 meter

**FU S In-Line Transfer Module**

**FUST-180**



- S In-Line Modules provide a standard, compact way to side transfer product from conveyor to conveyor.
- Straight guiding is placed across the transfer module for smooth In-Line product flow
- Conveyors are mounted together to provide a smooth transfer even for small products
- S In-Line transfers are compact in the width dimension

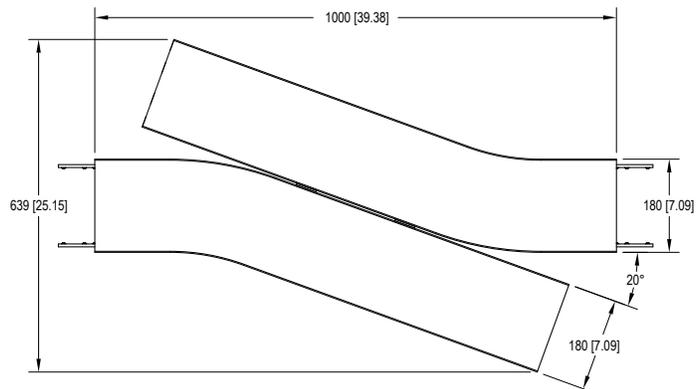


**FU X In-Line Transfer Module**

**FUXT-180**



- X In-Line Modules provide a standard, compact way to side transfer product from conveyor to conveyor.
- Straight guiding is placed across the transfer module for smooth In-Line product flow
- Conveyors are mounted together to provide a smooth transfer even for small products
- X In-Line transfers are compact in the length direction



Variety of chain type suitable for wide range of applications either horizontal or vertical product transportation. The maximum product width to be conveyed can be referred to guide rail assembly pages.

### FV Series Characteristic

**Beam Width:** 260 mm

**Product Width:** Refer to Guide Rail Assembly

### Accessories Needed

**Slide Rail Required:** FASR-25, FASR-25U, FASR-25X

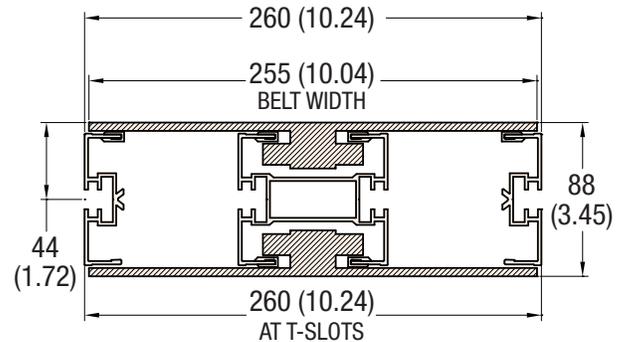
**Slide Rail Color:** White or Natural Color

**Slide Rail Material:** HDPE, UHMW OR SPECIAL PE

**Slide Rail Rivet & Screw:** FASLR-4X6 or FASLS-M5

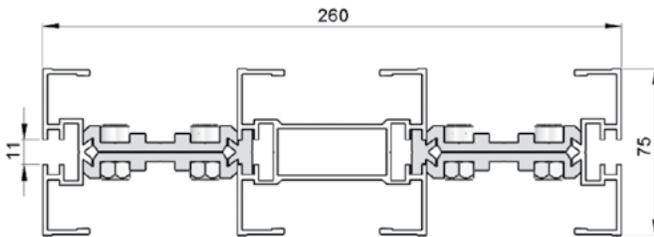
Connecting strip is used to connect two beams.

**Connecting Strip:** FACS-25x140A

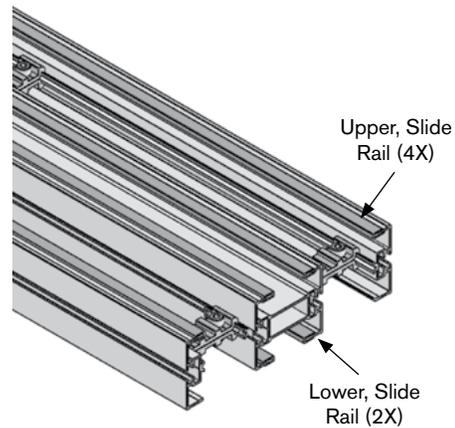
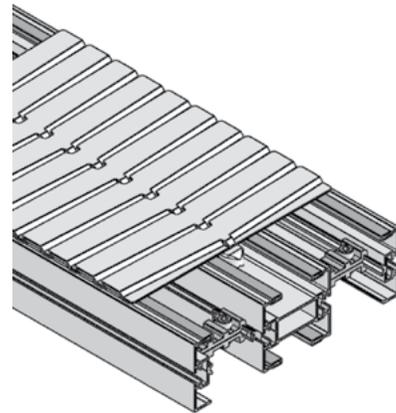


**260 MM WIDTH**

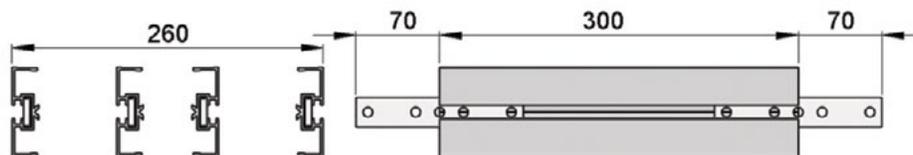
### Conveyor Beam **FVCB-3**



**UOM:** 3 Meter / Length



### Chain Connecting Module **FVCC-300**



**Beam section for chain installation.**

**UOM:** pc

### Chain Common Data

**Packaging:** 5 m per box

**Pitch:** 33.5 mm

**Width:** 255 mm

**Tensile Strength at 20°C:** 6000N

**Color:** White

#### Material:

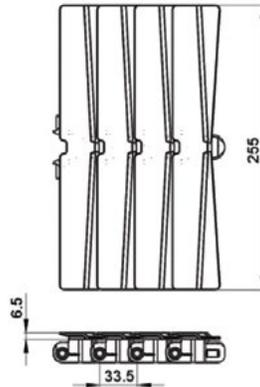
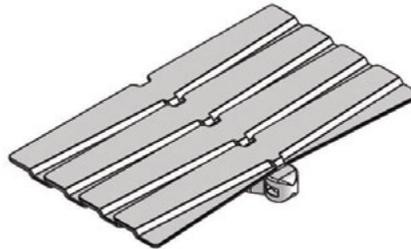
**Chain:** White Acetal / POM

**Pivot:** Polyamide

**Pivot Pin:** Stainless Steel

**Insert (Wedge & Friction):** TPE Grey

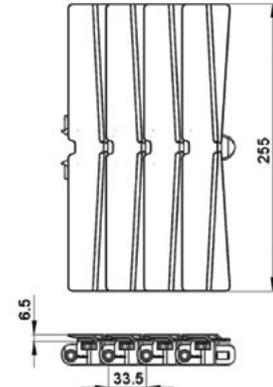
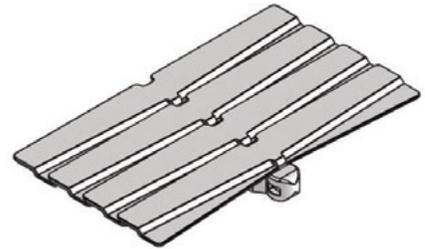
### Plain Chain **FVPC-5**



**UOM: 5 Meter / box**

Application: Suitable for horizontal and slope <math>< 5^\circ</math> transport of products with accumulation.

### Roller Plain Chain **FVPC-5R**

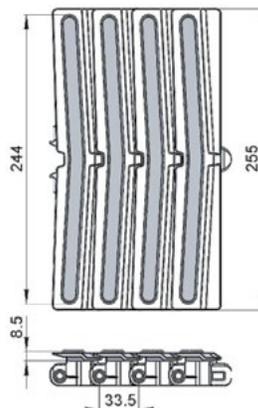
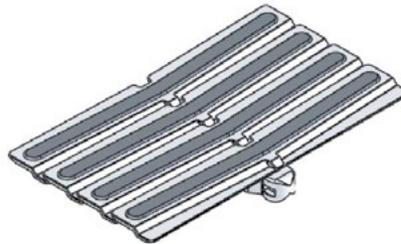


**UOM: 5 Meter / box**

Application: Suitable for horizontal and slope <math>< 5^\circ</math> transport of products with accumulation.

**Note: Friction Reducing Roller Chain Recommended for high speed or high load plain bends**

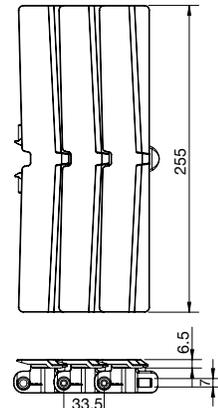
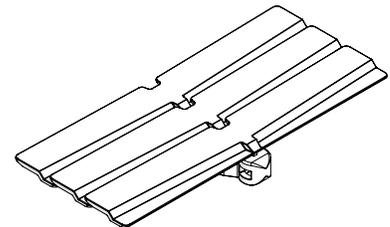
### Friction Top Chain **FVFT-B-5**



**UOM: 5 Meter / box**

Application: Suitable for horizontal and slope  $\leq 30^\circ$  transport of products without accumulation.

### Twist Chain **FVPC-5M**

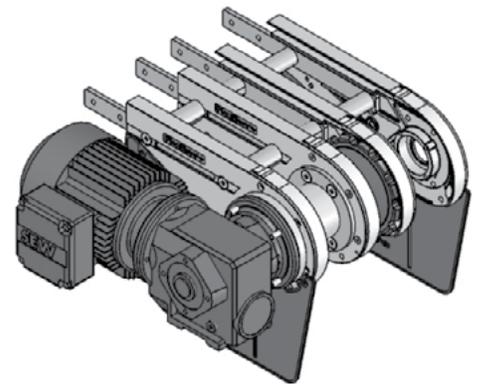
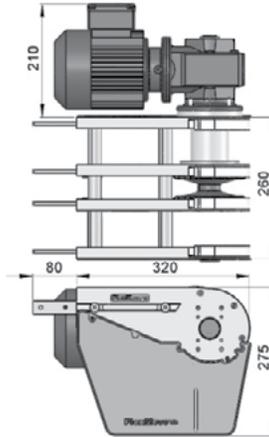
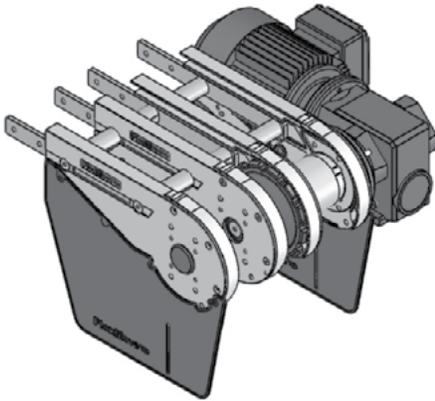


**UOM: 5 Meter / box**

Application: Suitable twist conveyor beam; horizontal and slope <math>< 5^\circ</math> transport of products with accumulation.

**FV Direct End Drive with Motor (LEFT)**  
FVDD-A260-XDY (See Chart)

**FV Suspended Drive with Motor (RIGHT)**  
FVDD-A260-XDY (See Chart)



| Part Number |   | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|---|--------------------|-----------|----------------------|
| FVDD-A260   | - | X                  | D         | Y                    |
|             |   | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             |   | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             |   | A = 20 mm Aux Only |           |                      |

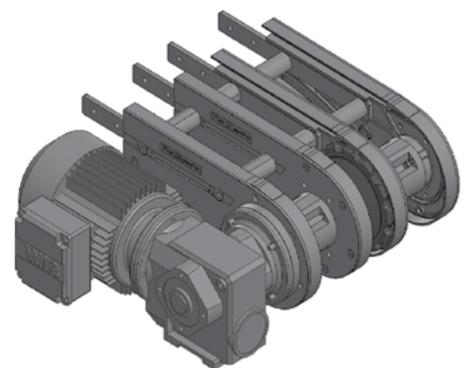
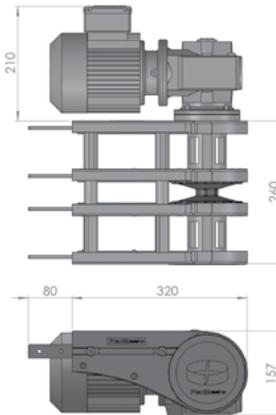
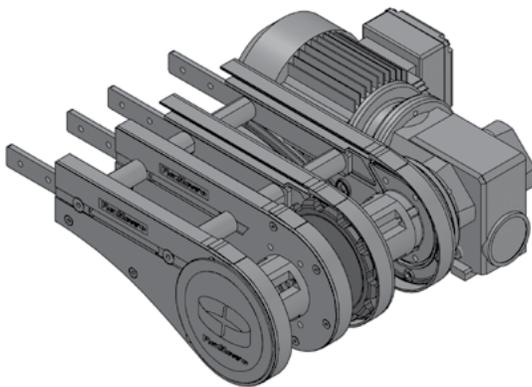
**Max Traction Force: 1250N**  
The Direct End Drive Unit is without torque limiter.

**UOM: pc**  
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0 meter

\*3/4 inch shaft option available in North America only.

**FV Direct End Drive unit without Motor GP (LEFT)**  
FVDD-A260GP-XDY (See Chart)

**FV Direct End Drive unit without Motor GP (RIGHT)**  
FVDD-A260GP-XDY (See Chart)



Requires the use of connecting or weighted take-up module for chain maintenance.

| Part Number |   | Shaft Selection    | Direction | Aux Shaft Selection  |
|-------------|---|--------------------|-----------|----------------------|
| FVDD-A260GP | - | X                  | D         | Y                    |
|             |   | 0 = 20 mm          | L = Left  | Blank = No Aux Shaft |
|             |   | E = 3/4 in*        | R = Right | A = 20 mm Aux Shaft  |
|             |   | A = 20 mm Aux Only |           |                      |

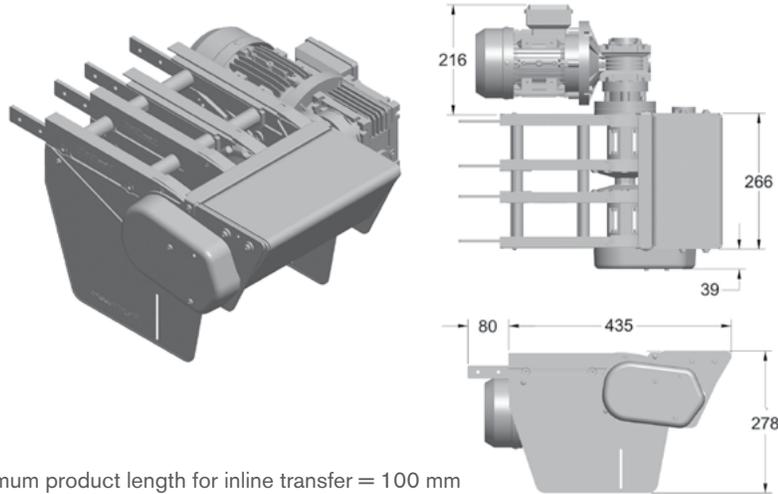
**Max Traction Force: 1250N**  
The Direct End Drive Unit GP is without torque limiter.

**UOM: pc**  
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0 meter

\*3/4 inch shaft option available in North America only.

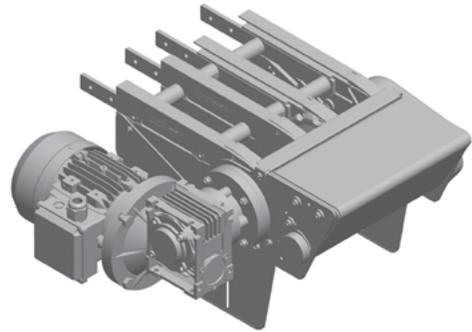
### FV Direct with Power Transfer Motor (LEFT)

FVDD-A260PT-XD (See Chart)



### FV Direct with Power Transfer Motor (RIGHT)

FVDD-A260PT-XD (See Chart)



Minimum product length for inline transfer = 100 mm  
 Maximum speed is 30 m/min (100 ft/min)  
 Only one power transfer needed on either infeed or discharge trail required for end to end transfer. Provides extended transfer nose for interfacing with large rollers.

| Part Number |   | Shaft Selection | Direction |
|-------------|---|-----------------|-----------|
| FVDD-A260PT | - | X               | D         |
|             |   | 0 = 20 mm       | L = Left  |
|             |   | E = 3/4 in*     | R = Right |

\*3/4 inch shaft option available in North America only.

### Max Traction Force: 1250N

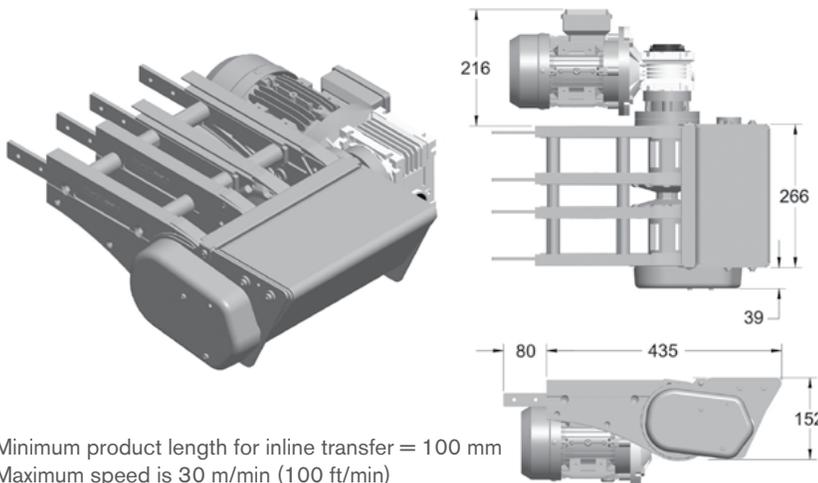
The Direct End Drive Unit is without torque limiter.

### UOM: pc

Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0 meter

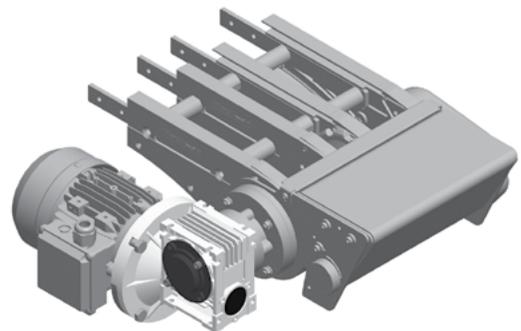
### FV GP Direct with Power Transfer Motor (LEFT)

FVDD-A260GPPT-XD (See Chart)



### FV GP Direct with Power Transfer Motor (RIGHT)

FVDD-A260GPPT-XD (See Chart)



Minimum product length for inline transfer = 100 mm  
 Maximum speed is 30 m/min (100 ft/min)  
 Only one power transfer needed on either infeed or discharge trail required for end to end transfer. Provides extended transfer nose for interfacing with large rollers.  
 Requires the use of connecting or weighted take-up module for chain maintenance.

| Part Number   |   | Shaft Selection | Direction |
|---------------|---|-----------------|-----------|
| FVDD-A260GPPT | - | X               | D         |
|               |   | 0 = 20 mm       | L = Left  |
|               |   | E = 3/4 in*     | R = Right |

\*3/4 inch shaft option available in North America only.

### Max Traction Force: 1250N

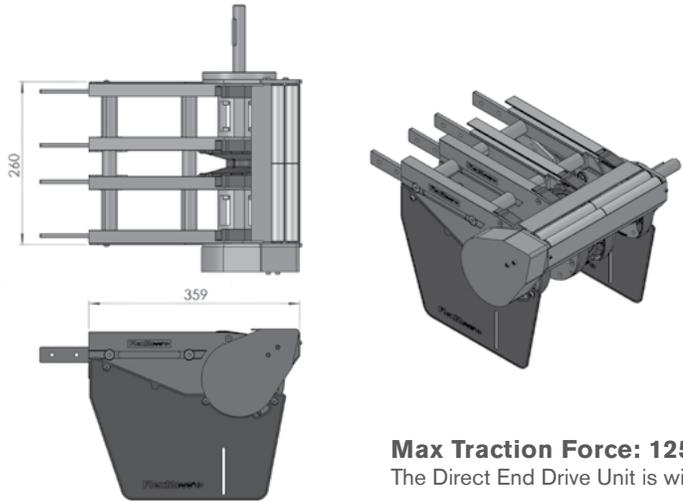
The Direct End Drive Unit GP is without torque limiter.

### UOM: pc

Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0 meter

SEW gearmotors are products of SEW Eurodrive

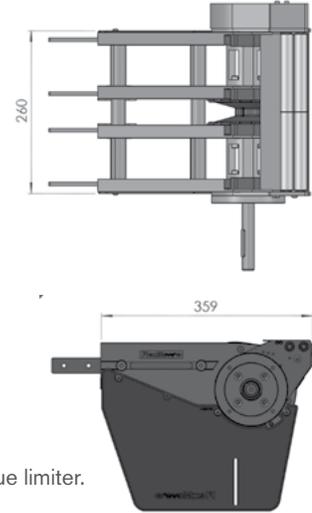
**FV Direct Drive Driven Transfer Bridge (LEFT)**  
**FVDD-A260DB-A-0L**



**UOM: pc**

20 mm Shaft only.  
 Minimum product length for inline transfer = 100 mm  
 Transfer extends past conveyor only 27 mm

**FV Direct Drive Driven Transfer Bridge (RIGHT)**  
**FVDD-A260DB-A-0R**



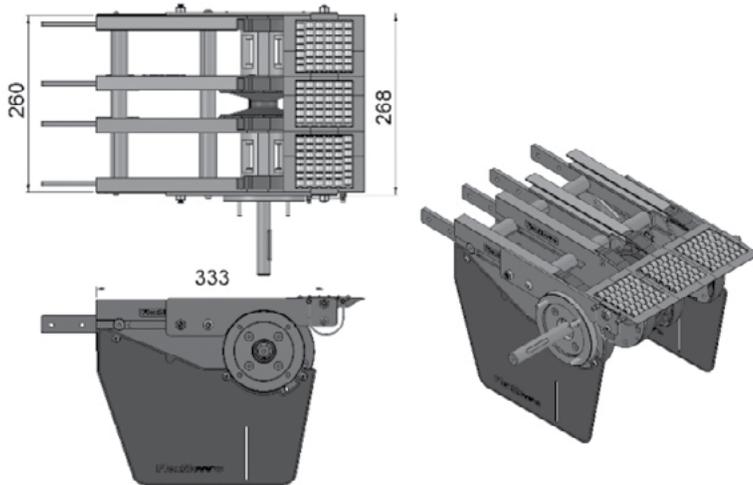
**Max Traction Force: 1250N**

The Direct End Drive Unit is without torque limiter.

**UOM: pc**

Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0 meter

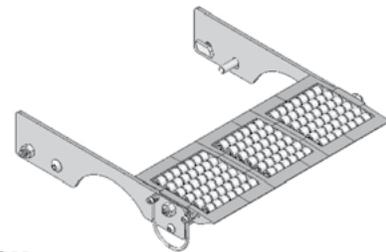
**FV Direct Drive Free Roller Transfer Bridge (LEFT/ RIGHT)**



**UOM: pc**

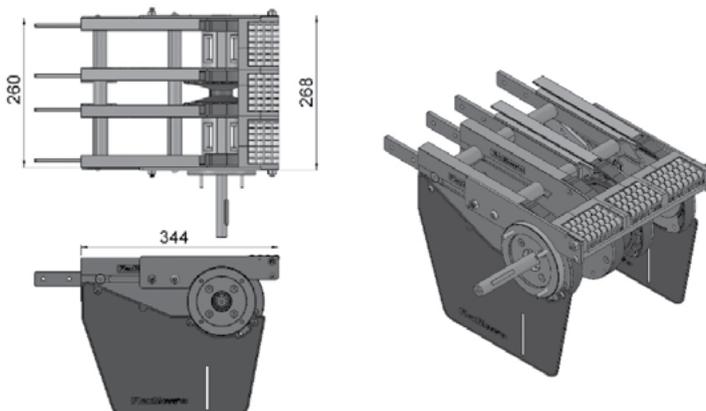
**FVTB-A260**

Transfer bridge c/w roller for FVIE-A260, FVDD-A260-XDY and FVDD-A260GP-XDY



**UOM: pc**

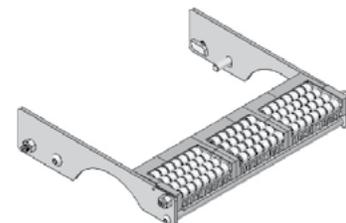
**FV Direct Drive End Free Roller Bridge (LEFT/ RIGHT)**



**UOM: pc**

**FVEB-A260**

End transfer bridge c/w roller for FVIE-A260, FVDD-A260-XDY and FVDD-A260GP-XDY

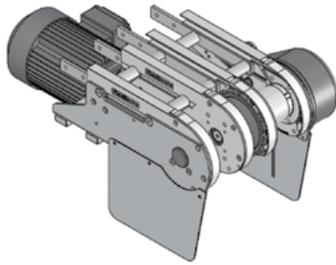


**UOM: pc**

SEW gearmotors are products of SEW Eurodrive

## FV Suspended End Drive with Motor (LEFT)

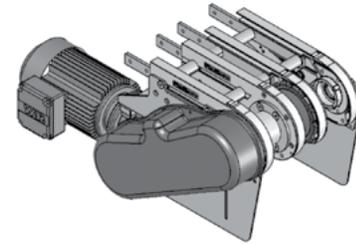
FVSD-A260-0L (with Torque Limiter)  
FVSD-A260SPT-0L (without Torque Limiter)



- Locates gearmotor below conveyor for compact applications.
- Includes torque limiter protecting chain and motor from overload.
- Chain pull capacity at 1250N for unit without torque limiter.
- Chain pull capacity at 840N for unit with torque limiter.

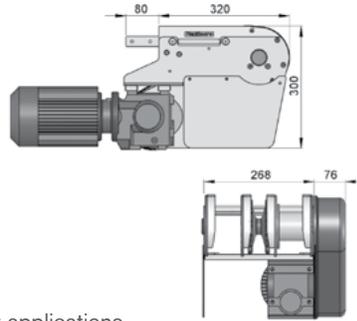
## FV Suspended End Drive with Motor (RIGHT)

FVSD-A260-0R (with Torque Limiter)  
FVSD-A260SPT-0R (without Torque Limiter)



**Max Traction Force:**  
**1250N** (without limiter)  
**840N** (with limiter)

**UOM: pc**  
Chain required 2-way: 0.8 meter  
Slide rail required 2-way: 0 meter

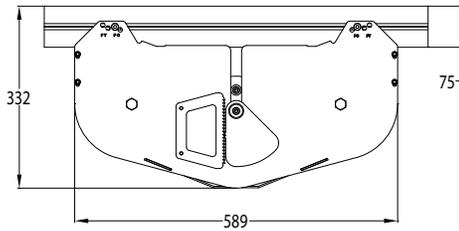
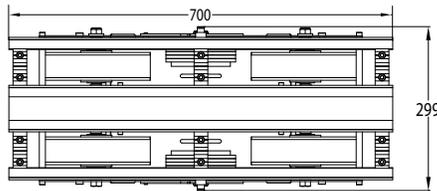


## FV Weighted Take-up Module

FV-WTU-700



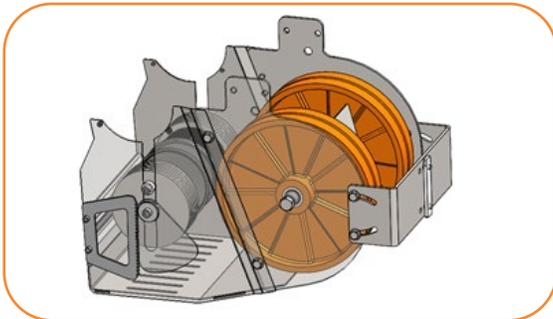
- Provides automatic chain stretch take-up
- Reduces noise caused from catenary tail
- Must be used with GP Drive End, sold separately
- Used on conveyors over 12 M long



**UOM: pc**  
Chain required 1.5 meter  
Slide rail required 3.5 meter

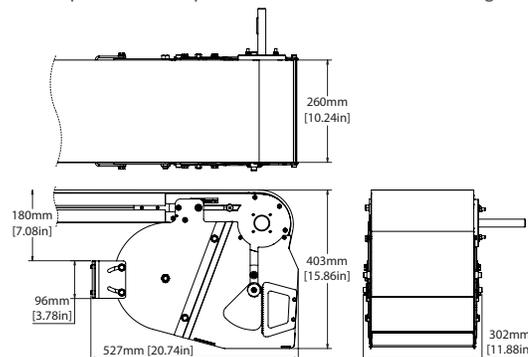
## FT Weighted Take-up Tail Module

FT-WTU-260



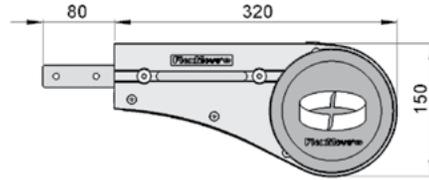
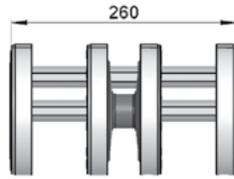
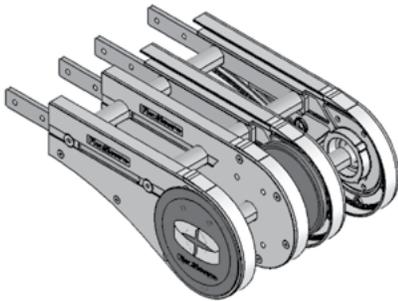
**UOM: pc**  
Chain required 1.5 meter  
Slide rail required 2.1 meter

- Provides controlled chain take-up for improved conveyor performance
- Compact design fits in similar space as standard direct drive modules
- Smooths conveyor chain movement by helping to eliminate micro-surfing
- Suggested for conveyors over 12.2 M (40 ft) in length
- Capable of inclined and declined arrangement up to 30 degrees
- Improves operator safety by enclosing chain catenar
- Attaches to direct end drive tail
- Compatible with power transfer and driven bridge



## FV Idler End-260

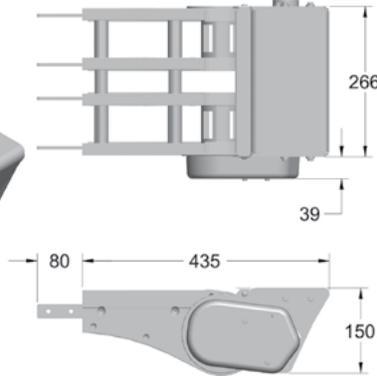
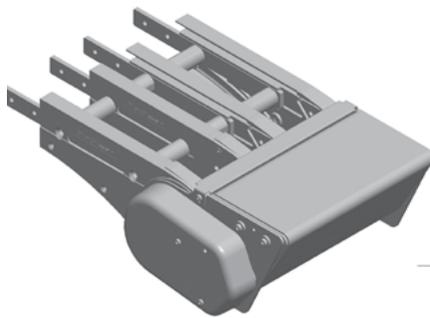
### FVIE-A260



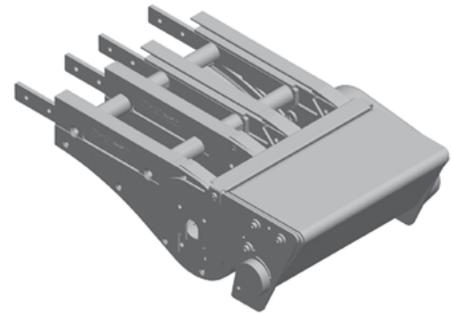
**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

## FV Idler End with Power Transfer (LEFT)

### FVIE-A260PT-L



Minimum product length for inline transfer = 100 mm  
 Provides extended transfer nose for interfacing with large rollers.



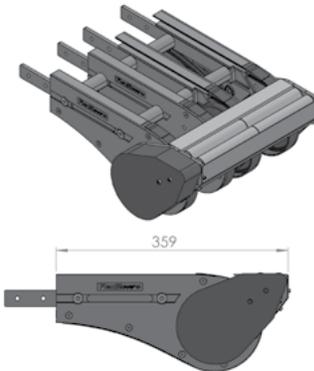
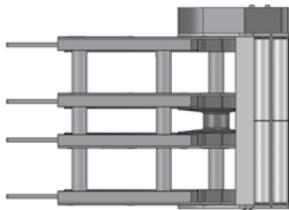
## FV Idler End with Power Transfer (RIGHT)

### FVIE-A260PT-R

**UOM: pc**  
 Chain required 2-way: 0.8 meter  
 Slide rail required 2-way: 0.5 meter

## FV Idler End Driven Transfer Bridge (LEFT)

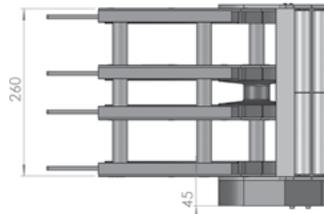
### FVIE-A260DB-A-R



Minimum product length for inline transfer = 100 mm  
 Transfer extends past conveyor only 27 mm

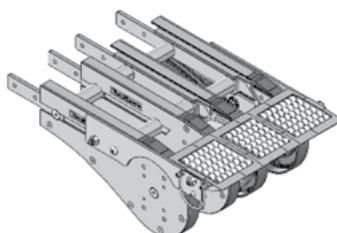
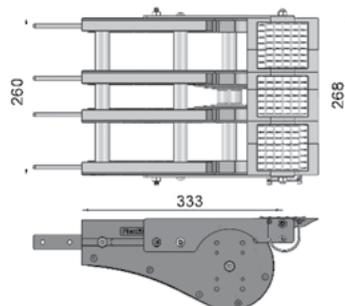
## FV Idler End Driven Transfer Bridge (RIGHT)

### FVIE-A260DB-A-L



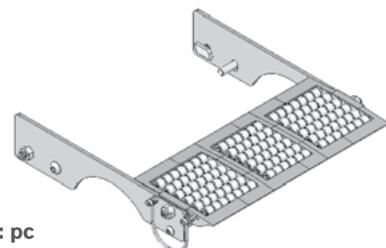
**UOM: pc**

## FV Idler Free Roller Transfer Bridge



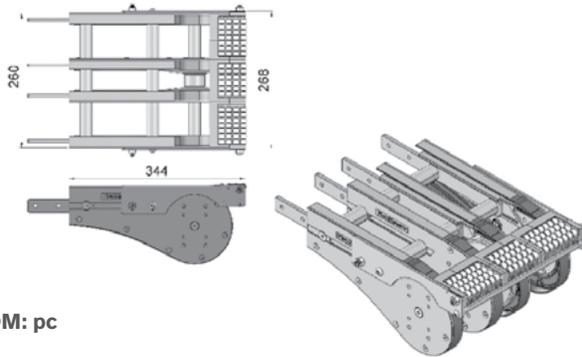
### FVTB-A260

Transfer bridge c/w roller for FVIE-A260, FVDD-A260-XDY and FVDD-A260GP-XDY



**UOM: pc**

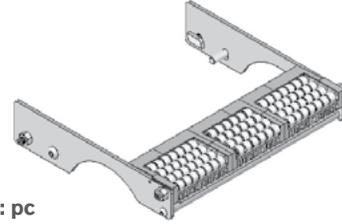
## FV Idler End Free Roller Bridge



UOM: pc

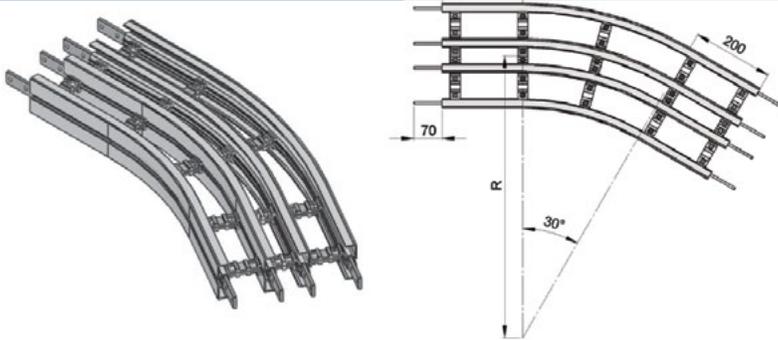
## FVEB-A260

End transfer bridge c/w roller for FVIE-A260, FVDD-A260-XDY and FVDD-A260GP-XDY



UOM: pc

## FV Horizontal Plain Bend 30°



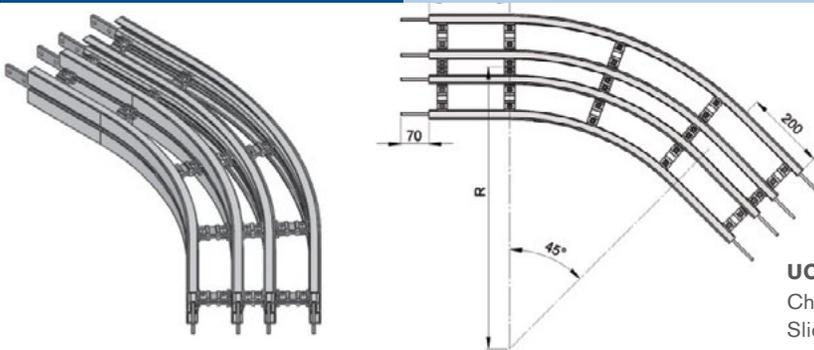
### Horizontal plain bend, 30° ± 1°

R = 700 ± 10 mm    **FVHB-30R700**  
 R = 1000 ± 10 mm    **FVHB-30R1000**

UOM: pc

Chain required 2-way (700, 1000): 1.5, 1.8 meter  
 Slide rail required 2-way (700, 1000): 4.6, 5.5 meter

## FV Horizontal Plain Bend 45°



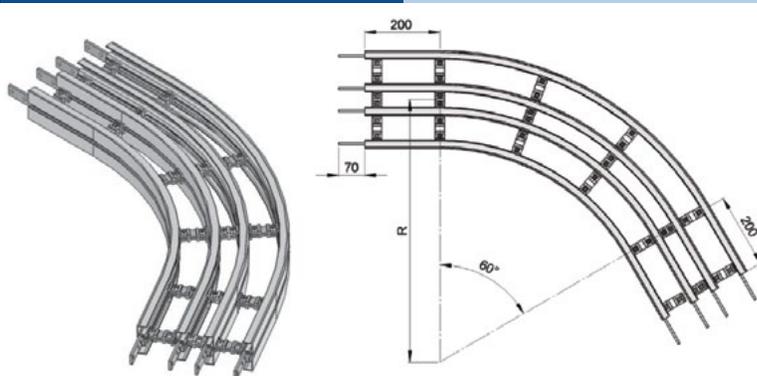
### Horizontal plain bend, 45° ± 1°

R = 700 ± 10 mm    **FVHB-45R700**  
 R = 1000 ± 10 mm    **FVHB-45R1000**

UOM: pc

Chain required 2-way (700, 1000): 1.9, 2.4 meter  
 Slide rail required 2-way (700, 1000): 5.7, 7.1 meter

## FV Horizontal Plain Bend 60°



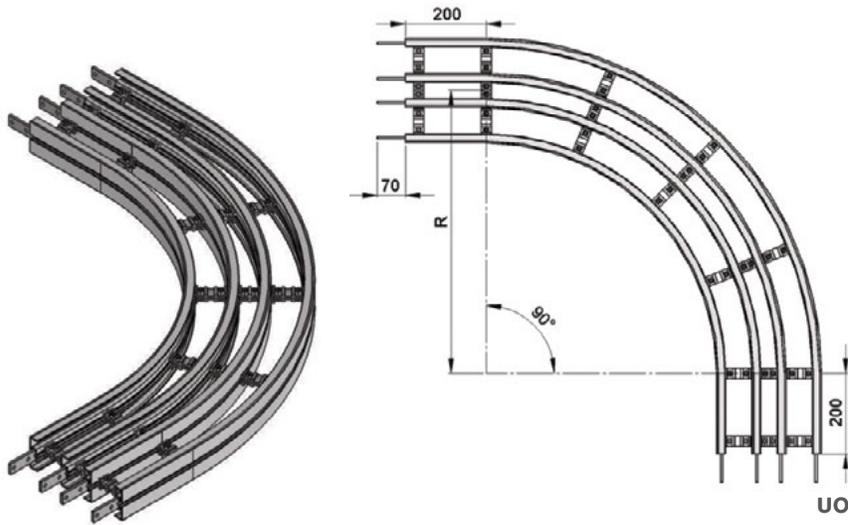
### Horizontal plain bend, 60° ± 1°

R = 700 ± 10 mm    **FVHB-60R700**  
 R = 1000 ± 10 mm    **FVHB-60R1000**

UOM: pc

Chain required 2-way (700, 1000): 2.3, 2.9 meter  
 Slide rail required 2-way (700, 1000): 6.8, 8.7 meter

## FV Horizontal Plain Bend 90°



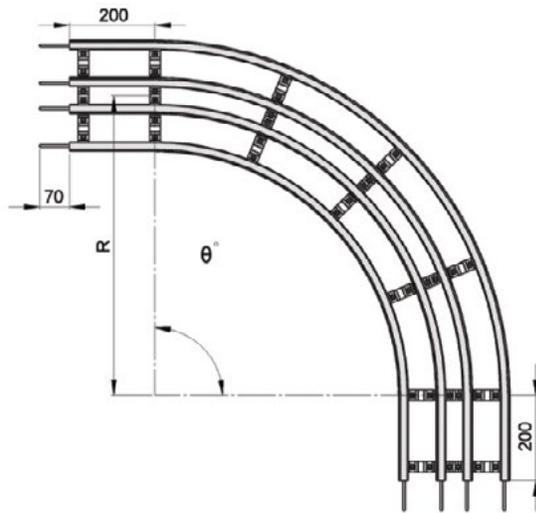
### Horizontal plain bend, 90° ± 1°

- R = 700 ± 10 mm    **FVHB-90R700**
- R = 1000 ± 10 mm    **FVHB-90R1000**

**UOM: pc**

Chain required 2-way (700, 1000): 3.0, 3.9 meter  
 Slide rail required 2-way (700, 1000): 9.0, 11.8 meter

## FV Horizontal Plain Bend 5° - 180°



### Example for FV Horizontal Plain Bend Ordering

#### Horizontal plain bend, θ° ± 1°

- R = 700 ± 10 mm    **FVHB - θ°R700**
- R = 1000 ± 10 mm    **FVHB - θ°R1000**

If an angle of 120° is needed for radius R700 horizontal plain bend, the ordering part number is

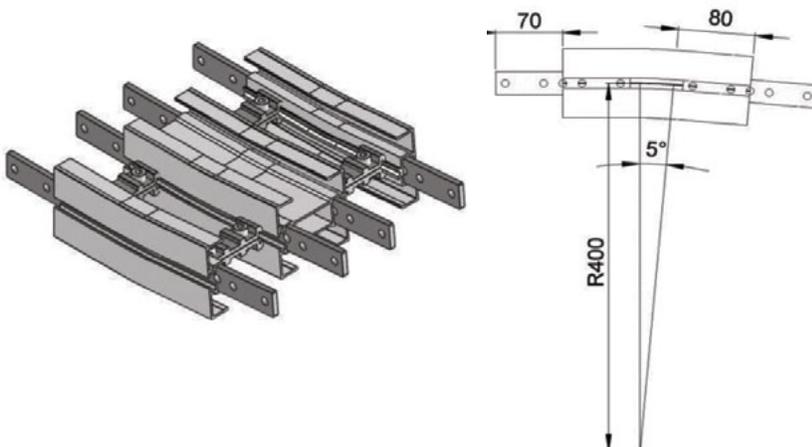
### **FVHB -120R700**

**UOM: pc**

Chain required 2-way (700, 1000): meter (variable to angle)  
 Slide rail required 2-way (700, 1000): meter (variable to angle)

## FV Vertical Bend 5°

FVVB-5R400

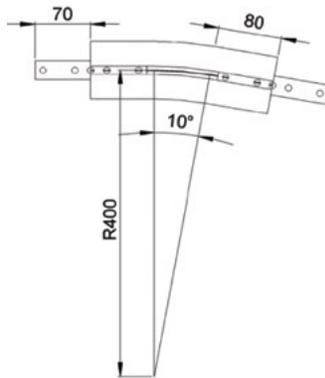
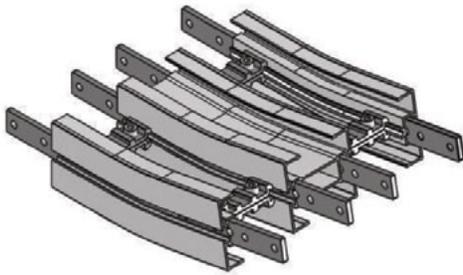


**UOM: pc**

Chain required 2-way: 0.4 meter  
 Slide rail required 2-way: 1.2 meter

**FV Vertical Bend 10°**

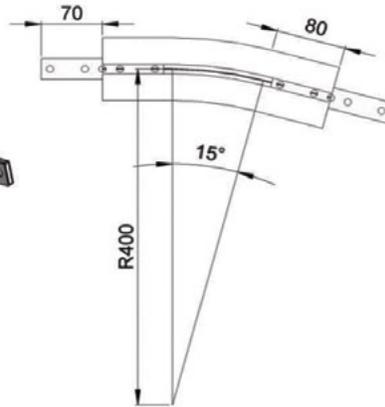
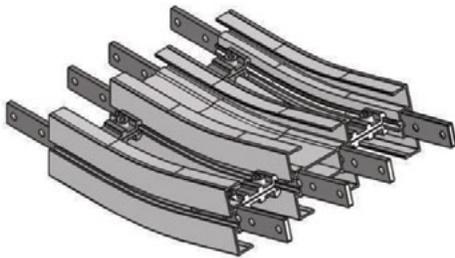
FVVB-10R400



**UOM: pc**  
 Chain required 2-way: 0.5 meter  
 Slide rail required 2-way: 1.4 meter

**FV Vertical Bend 15°**

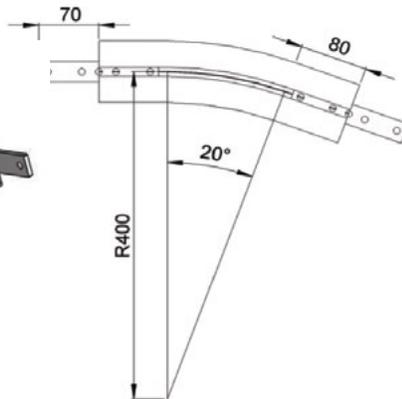
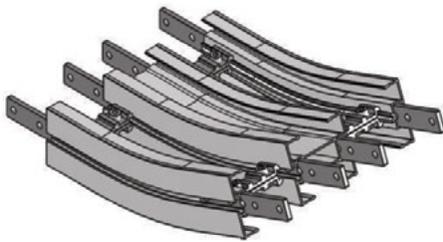
FVVB-15R400



**UOM: pc**  
 Chain required 2-way: 0.5 meter  
 Slide rail required 2-way: 1.6 meter

**FV Vertical Bend 20°**

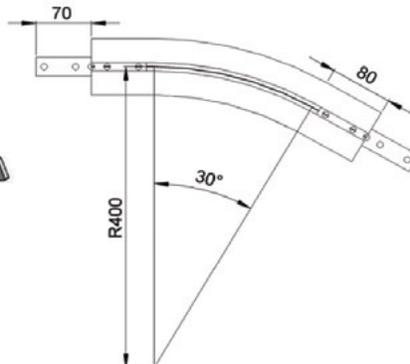
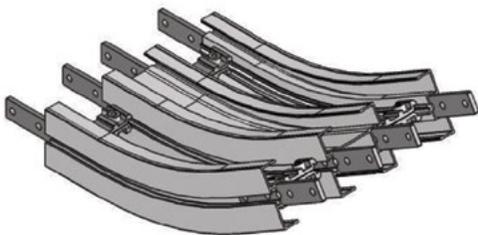
FVVB-20R400



**UOM: pc**  
 Chain required 2-way: 0.6 meter  
 Slide rail required 2-way: 1.8 meter

**FV Vertical Bend 30°**

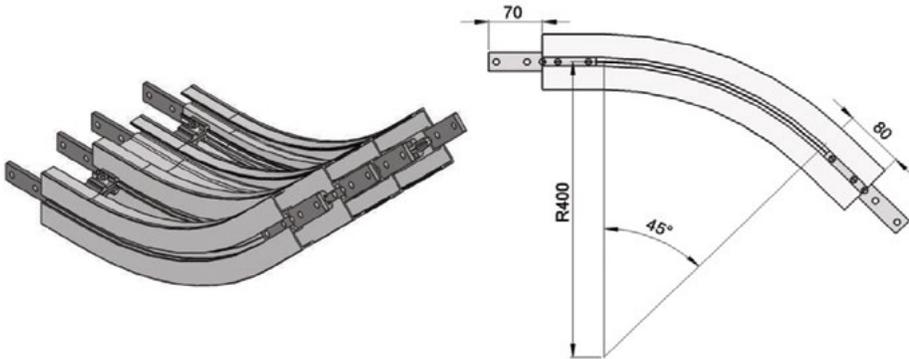
FVVB-30R400



**UOM: pc**  
 Chain required 2-way: 0.7 meter  
 Slide rail required 2-way: 2.2 meter

## FV Vertical Bend 45°

FVVB-45R400

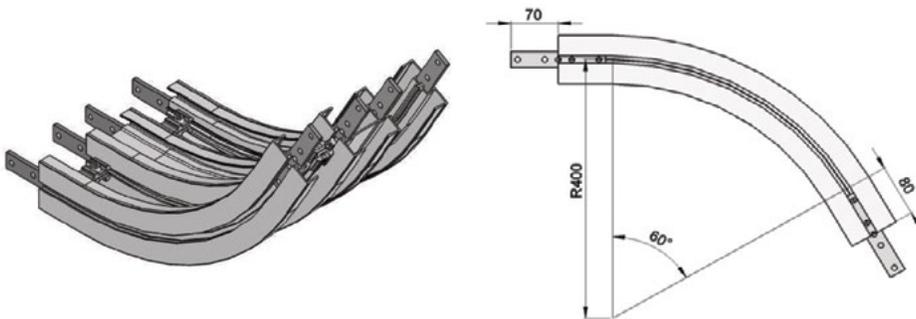


**UOM: pc**

Chain required 2-way: 0.9 meter  
Slide rail required 2-way: 2.8 meter

## FV Vertical Bend 60°

FVVB-60R400

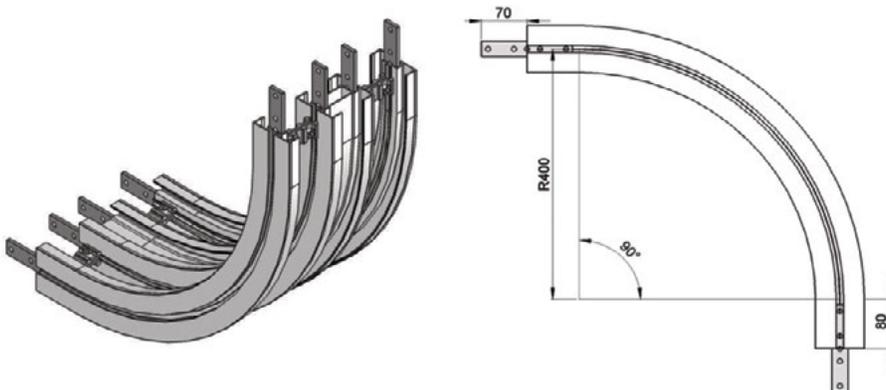


**UOM: pc**

Chain required 2-way: 1.2 meter  
Slide rail required 2-way: 3.5 meter

## FV Vertical Bend 90°

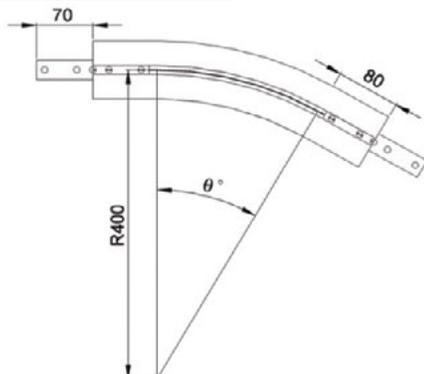
FVVB-90R400



**UOM: pc**

Chain required 2-way: 1.6 meter  
Slide rail required 2-way: 4.7 meter

## FV Vertical Bend 5°-90°



**Example for FV Vertical Bend Ordering**

- Vertical bend,  $\theta^\circ \pm 1^\circ$
- FVVB- $\theta^\circ$ R400

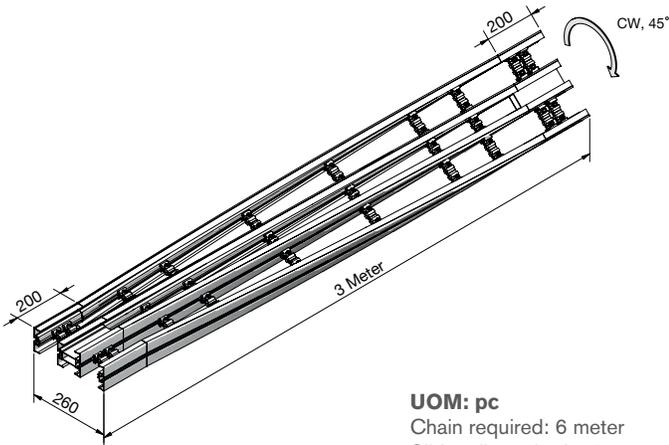
If an angle of 65° is needed for vertical bend, the ordering part number is

**FVVB-65R400**

*The outer bend is assembled using connecting strip (FACS-25x140A).  
Angle of "θ°" must be indicated when ordering.*

### FV 45 Degree Twist Conveyor Beam (Clockwise)

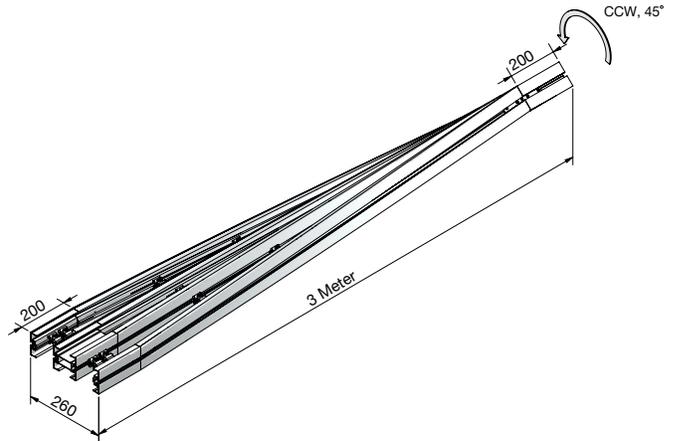
FVTB-CW45x3000



**UOM: pc**  
Chain required: 6 meter  
Slide rail required: 12 meter

### FV 45 Degree Twist Conveyor Beam (Counter-Clockwise)

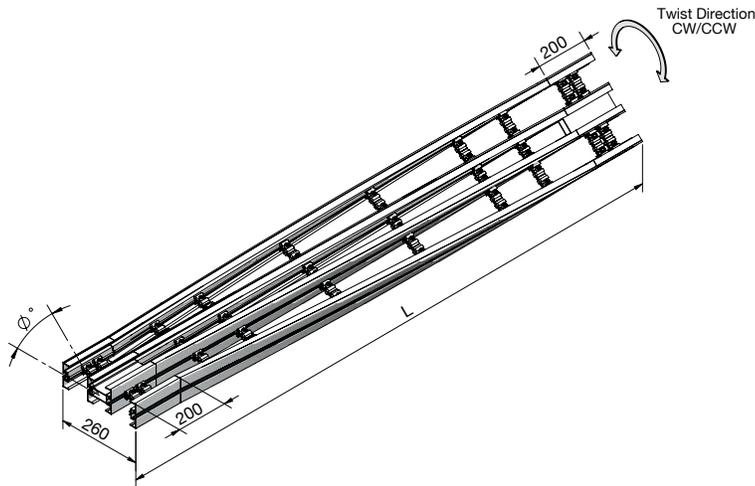
FVTB-CCW45x3000



### FV Twist Conveyor Beam 15° - 45°

FVTB-AAABx3000

Where AAA = CW or CCW, BB = Angle



#### Example for FV Twist Conveyor Beam Ordering

- Twist Conveyor Beam,  $\text{Ø}^\circ \pm 5^\circ$

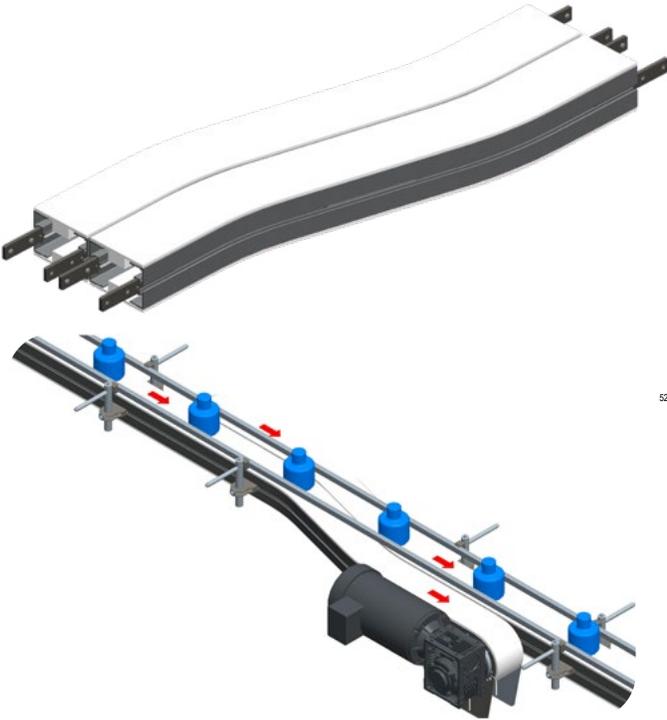
If an angle of  $30^\circ$  is needed for twist beam, in clockwise direction and length 2.5 m, the ordering part number is

**FVTB-CW30x3000**

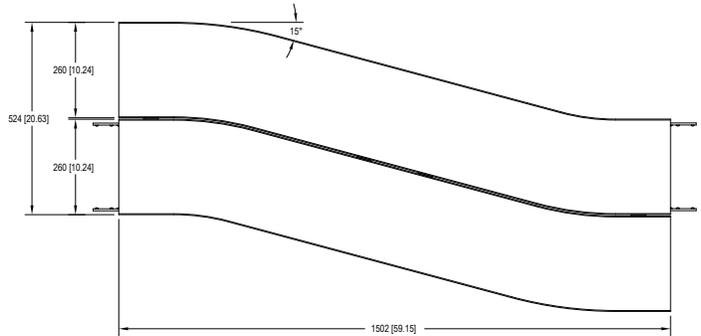
Angle of  $\text{Ø}^\circ$ , twist direction, and length  $L$ , must be indicated when ordering.

**UOM: pc**  
Chain required: 6 meter  
Slide rail required: 12 meter

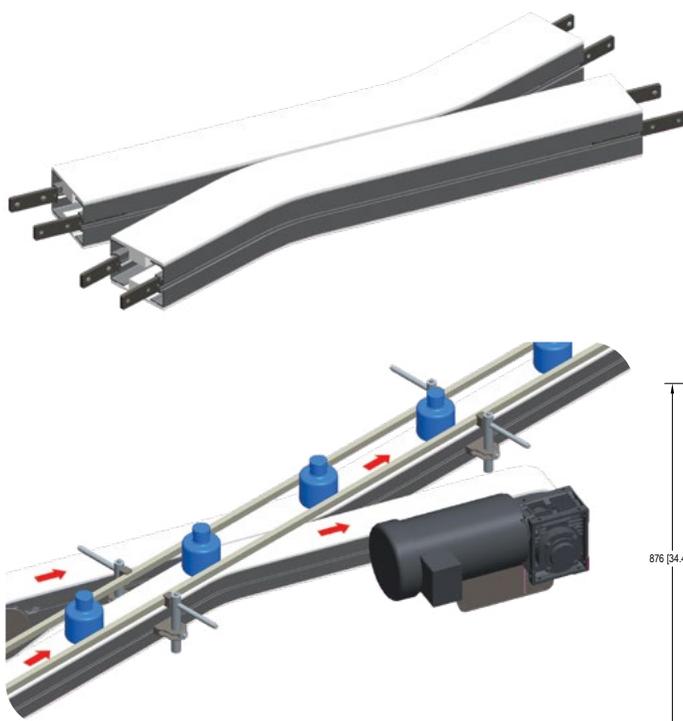
## FV S In-Line Transfer Module FVST-260



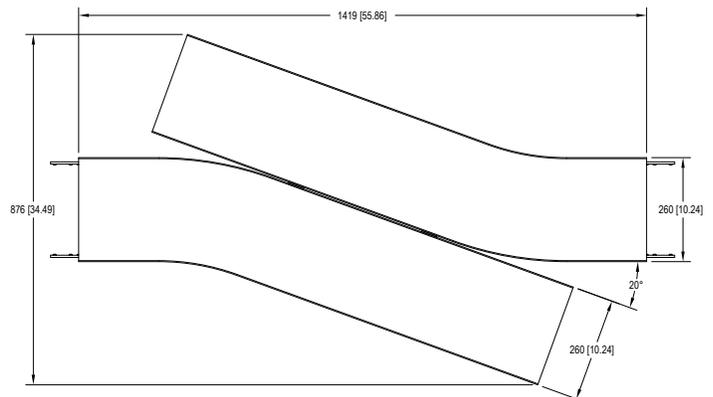
- S In-Line Modules provide a standard, compact way to side transfer product from conveyor to conveyor.
- Straight guiding is placed across the transfer module for smooth In-Line product flow
- Conveyors are mounted together to provide a smooth transfer even for small products
- S In-Line transfers are compact in the width dimension



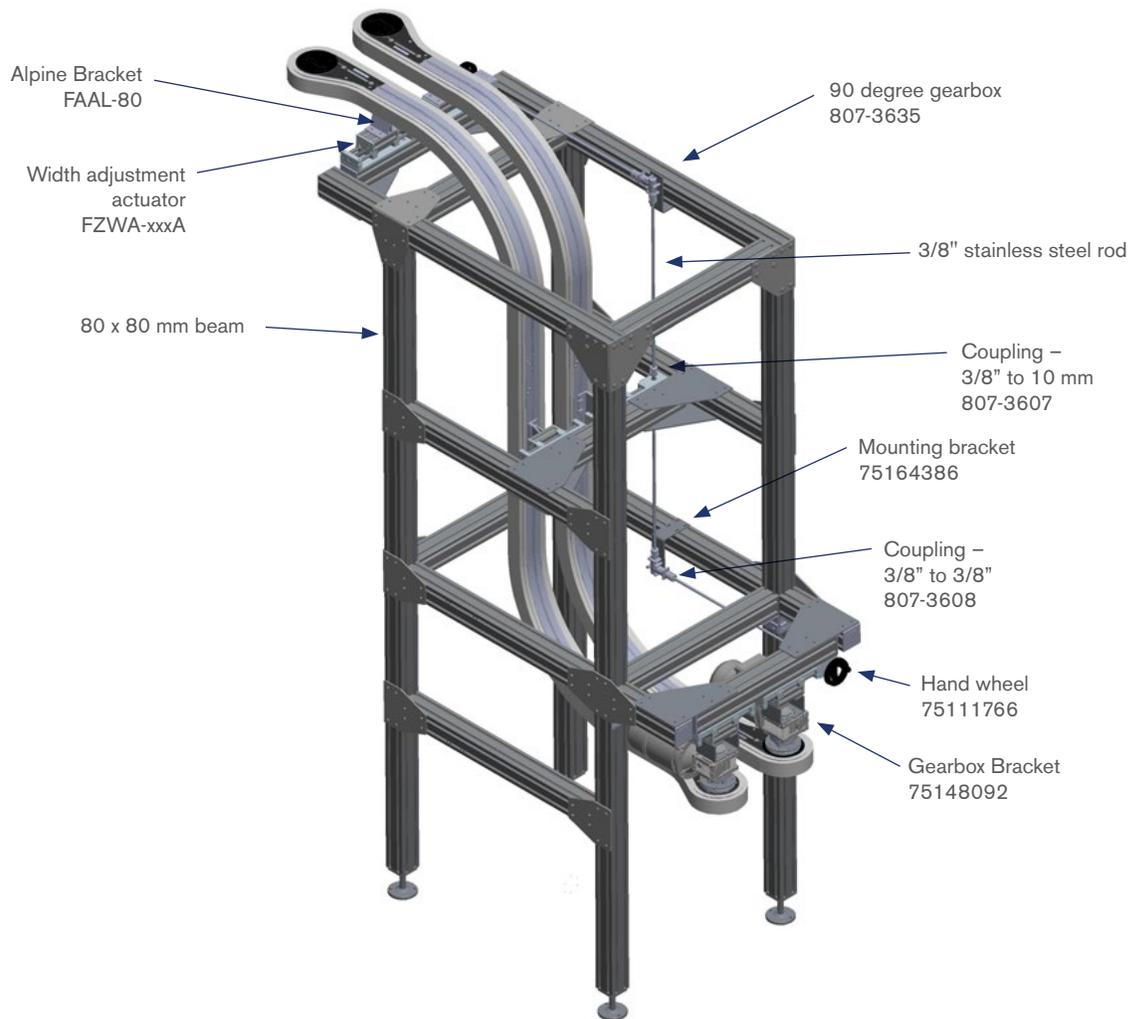
## FV X In-Line Transfer Module FVXT-260



- X In-Line Modules provide a standard, compact way to side transfer product from conveyor to conveyor.
- Straight guiding is placed across the transfer module for smooth In-Line product flow
- Conveyors are mounted together to provide a smooth transfer even for small products
- X In-Line transfers are compact in the length direction

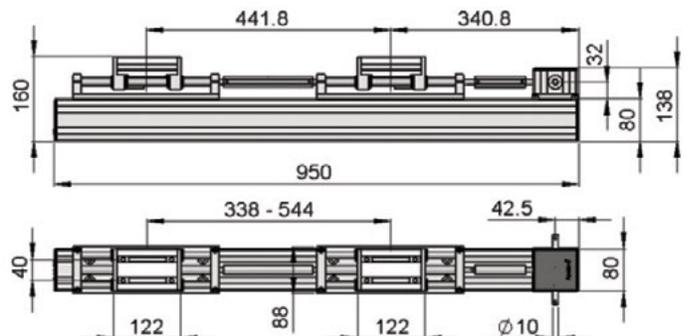
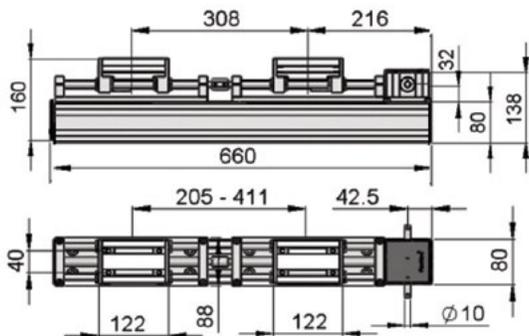


**Adjustable Width Wedge Conveyor Components**



**FZWA-660A** Width Adjustment Actuator 660 mm

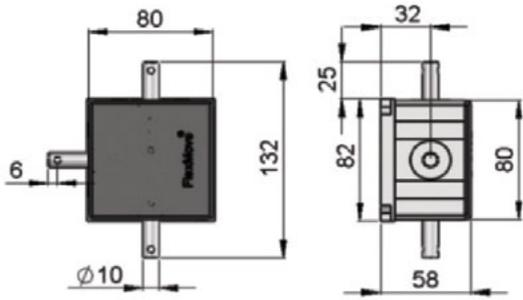
**FZWA-950A** Width Adjustment Actuator 950 mm



UOM: Unit

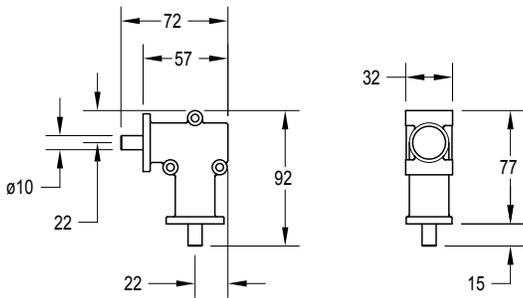
UOM: Unit

FZGB-903 Angle Gear Unit-3 direction



UOM: Unit

807-3635 90° Gearbox



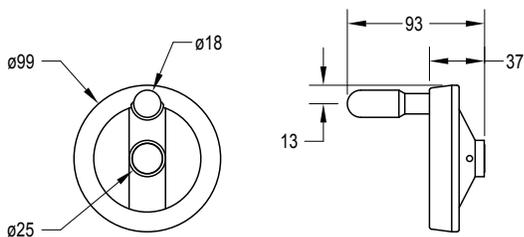
UOM: Unit

807-3609 Couplin 3/8" to 3/8"



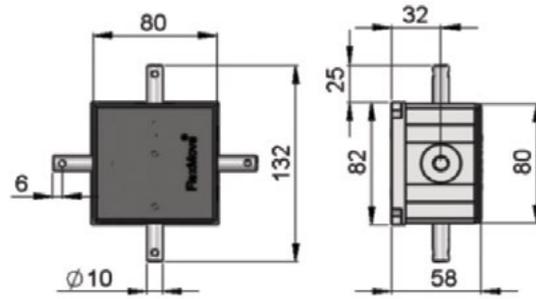
UOM: Unit

75111766 Hand Wheel



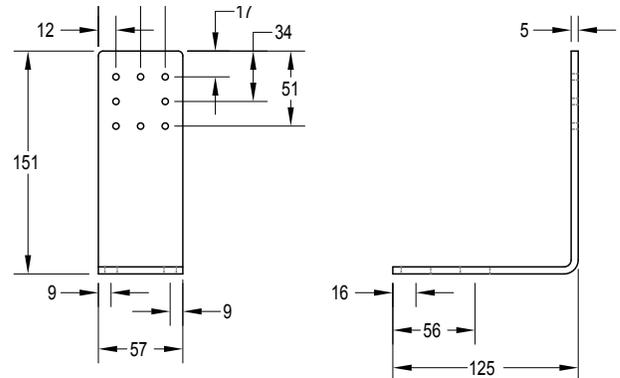
UOM: Unit

FZGB-904 Angle Gear Unit - 4 direction



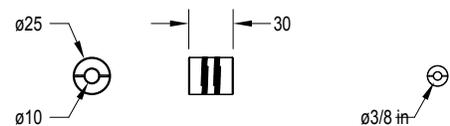
UOM: Unit

75164386 90° Gearbox Mount



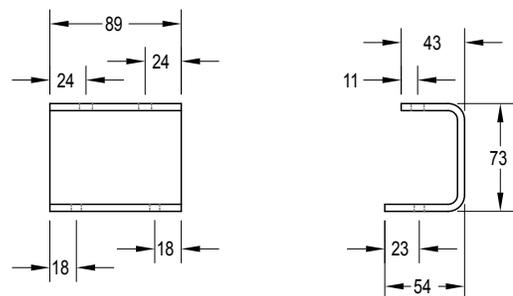
UOM: Unit

807-3607 Coupling 3/8" to 10mm



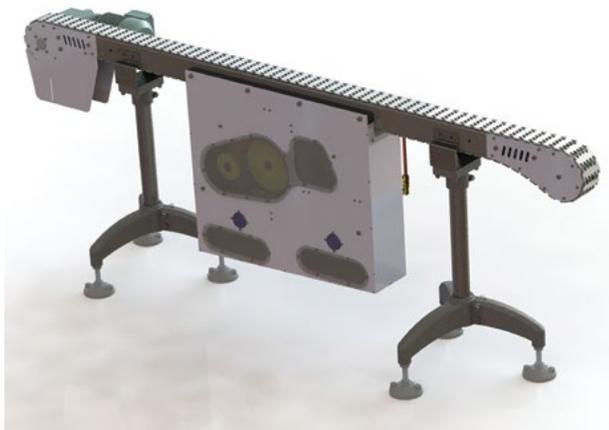
UOM: Unit

75148092 Conveyor Gearbox Mount



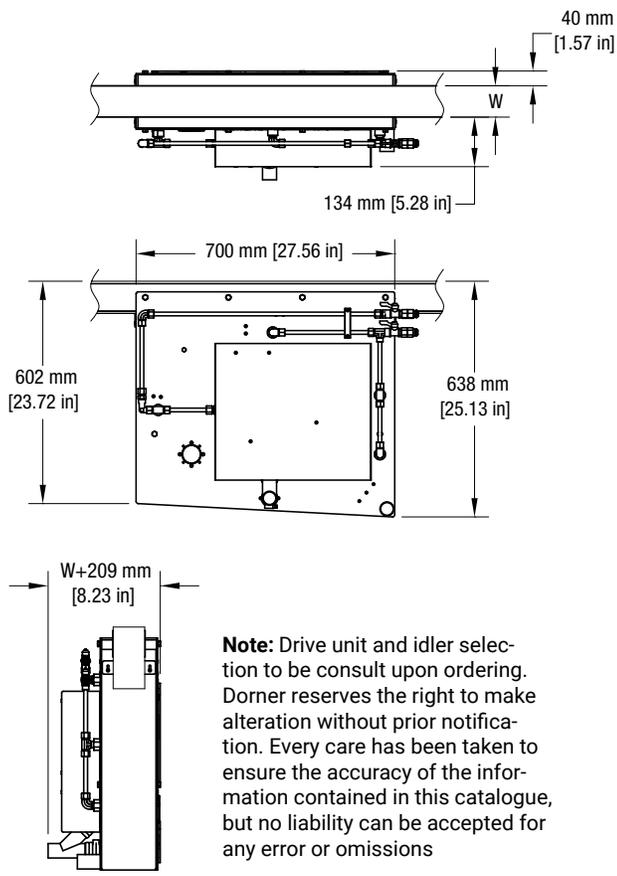
UOM: Unit

## CCDW-Sx\*



### Wet Cleaning Module

- Wet Cleaning Module provides continuous cleaning of conveyor chain for applications with liquid or product overflow or package breakage
- Water jets spray outside and inside of the conveyors chain
- Series Driven Brush scrubs top and bottom surface of chain
- Air knives blow off water from chain
- Vacuum draws away excess water
- Designed to run continuously in production line
- Allows for longer, cleaner production runs with less overall maintenance
- Clean design with minimal area for dirt and debris to accumulate
- Fully encased components with cover designed for worker safety
- Completely mechanical, does not require electrical components, programming or secondary motor



### Features

- Available on FlexMove Stainless Steel Conveyors, SS (65 mm) and SM (85 mm)
- Size Requirement: 700 mm (L) x 700 mm (H)
- Minimum top of chain height: 750 mm (29.5 in)
- Maximum conveyor length: 4.5 m (14.8 ft)
- Maximum conveyor speed: 50 m/min (164 ft/min)

### Dimensions and Operation Requirements

#### Water Supply

- Connection 3/8 in NPT
- Normal operating pressure 0.98MPa. (140 psi)
- Flow rate required: ~13 litre/min (0.5 CFM)

#### Air Supply

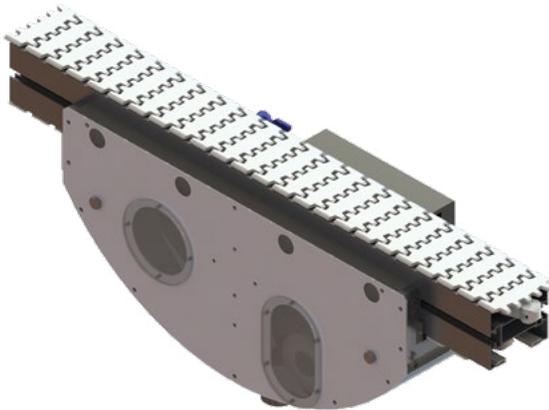
- Connection: 8 mm tubing
- Air pressure required: 0.69 MPa (100 PSI)

#### Drying Vacuum

- Vacuum attachment: OD Ø38 mm, ID Ø34 mm pipe.
- Vacuum airflow required: ~56 litre/s (120 CFM), typical commercial grade wet/dry vacuum is acceptable

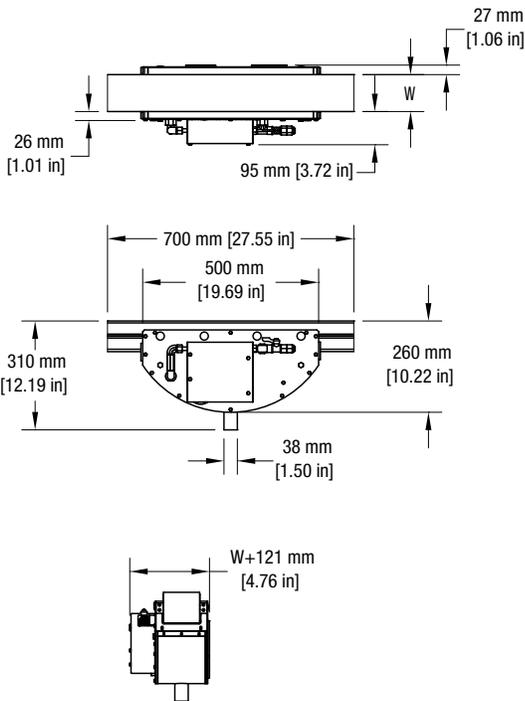
\*Where Sx = Conveyor series (limit to SS & SM)

CCD-Fx\*



**Dry Cleaning Module**

- Dry Cleaning Module provides continuous cleaning of conveyor chain for dry applications with powder, dust or other dry contaminants
- Series Driven Rotary Brush scrubs chain surface, compressed air blows off particles, and vacuum extracts dust
- Designed to run continuously in production line
- Allows for longer, cleaner production runs with less overall maintenance
- Clean design with minimal area for dirt and debris to accumulate
- Fully encased components with cover designed for worker safety
- Completely mechanical, does not require electrical components, programming or secondary motor



**Features**

- Available on FlexMove Aluminum Conveyors, FS (65 mm), FM (85 mm) and FC (150 mm)
- Size Requirement: 700 mm (L) x 300 mm (H)
- Minimum top of chain height: 250 mm (13.8 in)
- Maximum conveyor length: 4.5 m (14.8 ft)
- Maximum conveyor speed: 50 m/min (164 ft/min)

**Dimensions and Operation Requirements**

**Air Supply**

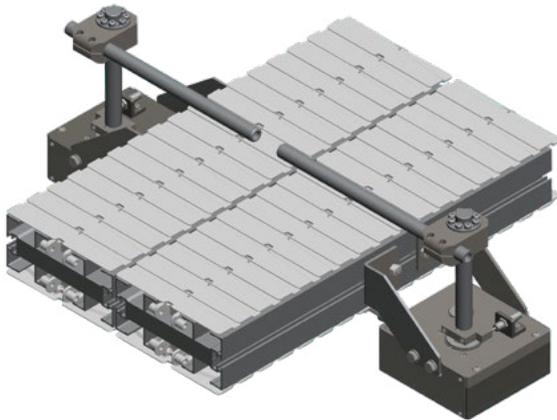
- Incoming tubing size: M8
- Normal operating pressure 0.69 MPa (100 PSI)

**Drying Vacuum**

- Vacuum attachment: OD Ø38 mm, ID Ø34 mm pipe
- Vacuum airflow required: ~56 litre/s (120 CFM)
- Typical commercial grade vacuum is acceptable

\*Where Fx = Conveyor series (limit to FS, FM, FC & FU)

FZTC-SA-W<sub>xxx</sub>\*

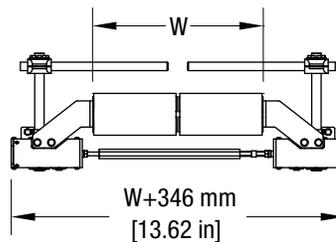
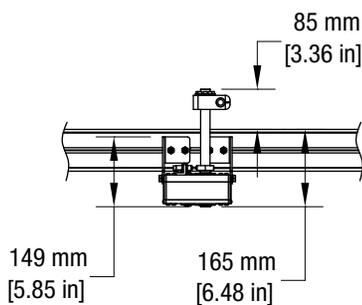
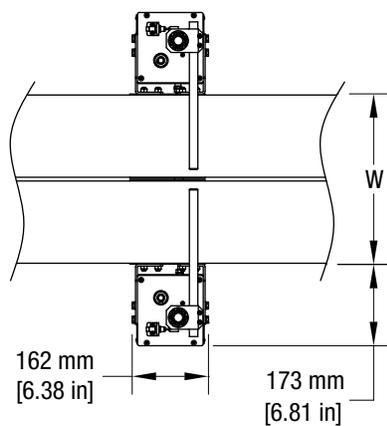


**Side Acting Merge Module**

- Two-to-one lane merging without the need for control logic
- First in, first out style merge
- Opposite lane will proceed once the first lane exits or large product gap exists
- Activate arm is adjustable in both height and length
- Completely mechanical design, does not require electrical components, programming or air
- Easily modify the force required to activate the divert arm
- Designed for operator safety, no guarding required

**Features**

- Available on FlexMove Aluminium Conveyors, FS (65 mm), FM (85 mm), FC (105 mm), FL (150 mm), FU (180 mm) and FV (260 mm)
- Product must be able to withstand some back pressure
- Side Acting Merger is not suitable for high speed applications
- Min. Single Product Weight: 0.5 kg
- Max. Single Product Weight: 15 kg
- Max. Product Accumulation Weight: Up to 45 kg



\*Where xxx = total width of merge area

208161 & 208169



### Puck Stop Module

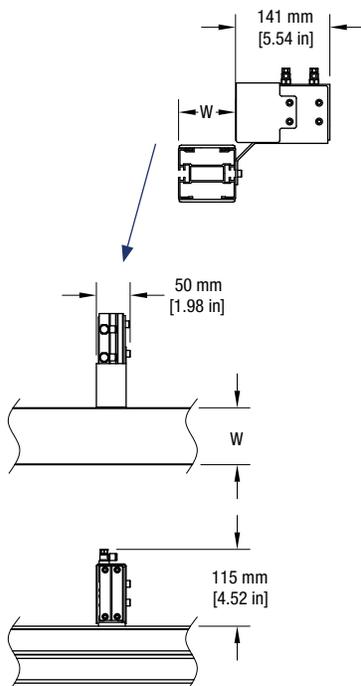
- Pneumatic stop for pacing pucks or packages
- Two Models:
  - Vertical Blade Stop; used in pairs as an alternating escapement for pacing round or rounded edge rectangular pucks
  - Horizontal Squeeze Stop; used in combination with Vertical Blade Stop for pacing product without rounded edges. Product must be able to withstand side squeeze pressure
- Compatible with round or rectangular bottles, containers or pucks
- UHMW face for non-marking contact surface
- Includes flow controls with push-in air line connection
- Requires photo sensors, pneumatic solenoid valves, wiring and programming
- Rate depends on product size. Contact factory for details

### Features

- Available on FlexMove Aluminum Conveyors, FS (65 mm), FM (85 mm), FC (105 mm), FL (150 mm), FU (180 mm), and FV (260 mm)
- Max. single product weight: 2.3 kg (5 lbs)
- Max. product accumulation weight: 13.6 kg (30 lbs)
- Max. conveyor speed: 50 m/min (164 ft/min)
- Produces gap of approximately one product length

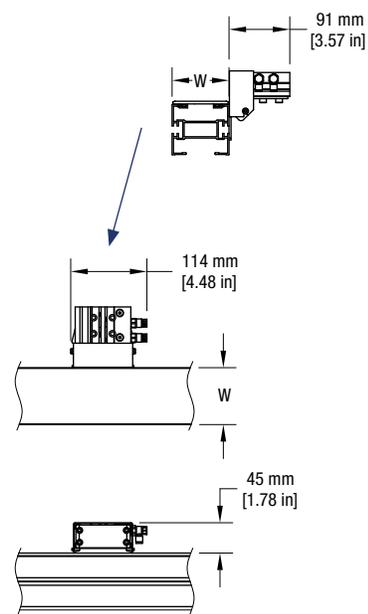
#### Vertical Blade

Part Number: 208169



#### Horizontal Squeeze

Part Number: 208161



208162

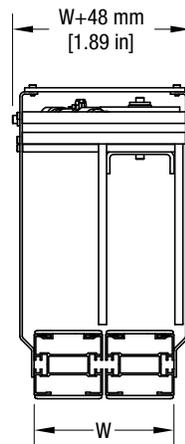
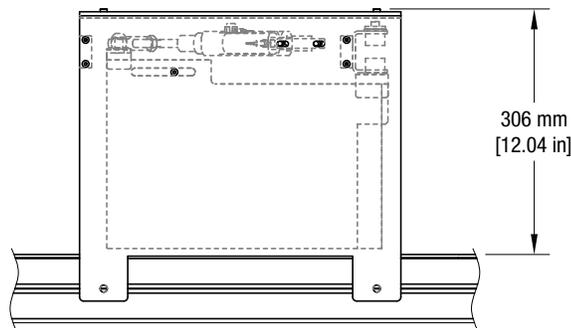
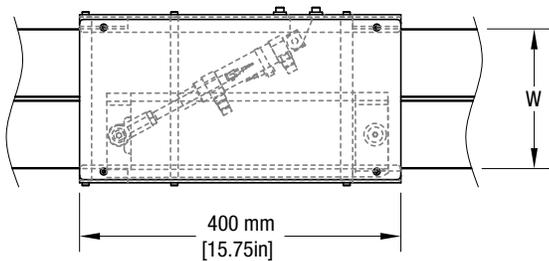


**Puck/Package Divert Module**

- Pneumatic one-to-two lane diverter
- Compatible with round or rectangular packages or pucks
- Product can run back to back or paced for individual product divert
- UHMW divert arms for non-marking divert surface
- Includes flow controls with push-in air line connection
- Requires photo sensors, pneumatic solenoid valves, wiring and programming
- Rate depends on product size and desired flow. Contact factory for details.

**Features**

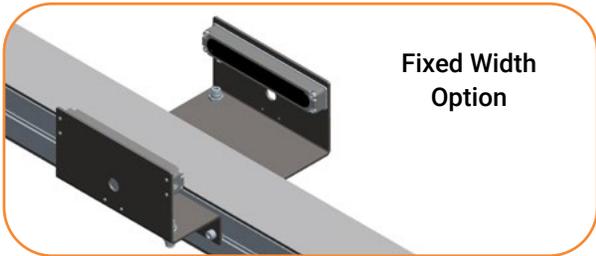
- Available on FlexMove Aluminium Conveyors, FS (65 mm), FM (85 mm), FC (105 mm), FL (150 mm), FU (180 mm) and FV (260 mm)
- Product must be able to stand unsupported
- Min. single product weight: 0.2 kg (0.45 lbs)
- Max. single product weight: 5 kg (11 lbs)
- Max. product height: 150 mm (5.9 in)
- Max. product width: chain width (example: FM 85 mm)



Part Number: 208162 for FM Series. Contact factory for other sizes.

Product dimensions shown for FM Series conveyors. Contact factory for other conveyor series.

Clamping Module



Fixed Width Option

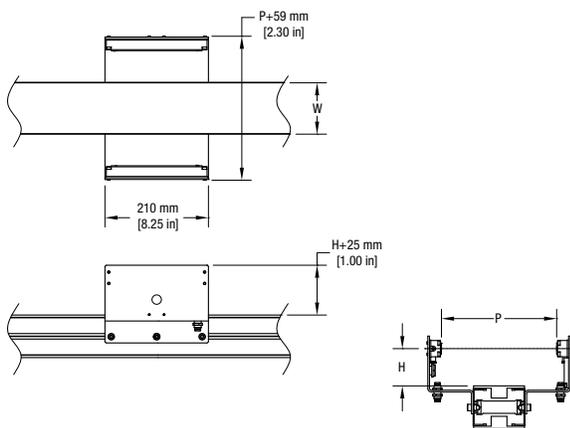


Adjustable Width Option

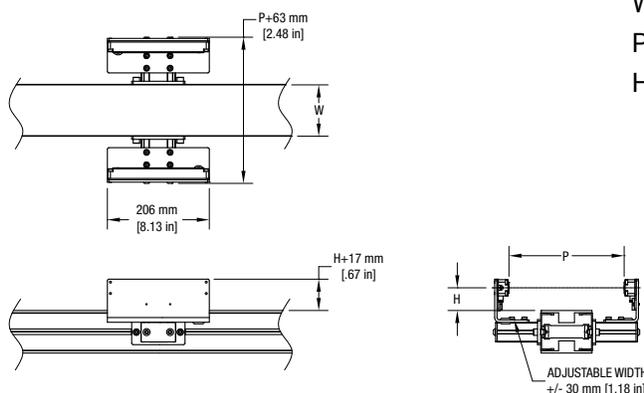
Clamping Module

- Pneumatic clamping actuator, mounted on both sides of the conveyor, holds back and paces product
- Ability to pace products back to back
- Ideal for totes, boxes, bottles and square, round, and rectangular containers
- Product must be able to withstand some back pressure and squeezing force
- Requires photo sensors, pneumatic solenoid valves, wiring, and programming
- Rate depends on product size. Contact factory for details

Fixed Width Option



Adjustable Width Option



Features

- Available on FlexMove Aluminum Conveyors, FS (65 mm), FM (85 mm), FC (105 mm), FL (150 mm), FU (180 mm), and FV (260 mm)
- Max. single product weight: 2.3 Kg (5 lbs.)
- Max. product accumulation weight: 13.6 Kg (30 lbs.)
- Specify product width at time of ordering
- Specify centerline of clamping actuator above conveyor chain at time of ordering
- Max. conveyor speed: 50 m/min (164 ft/min)
- Produces gap of approximately one product length
- Includes mounting for photo sensor with 18 mm barrel

Specify at time of order:

W = conveyor width

P = product width

H = centerline of clamping actuator above conveyor chain

PUS-xx\*

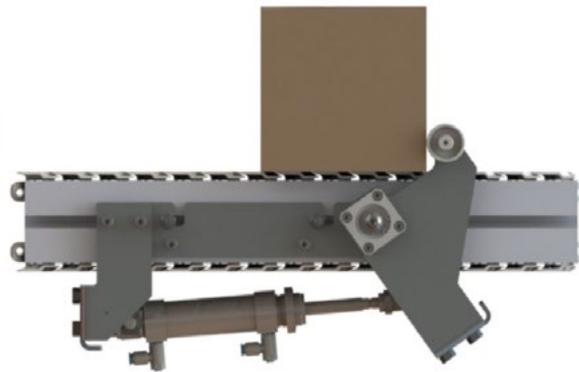
**Popup Stop Module**

- The wide pop-up stopper unit are developed to stop product movement which is wider than conveyor width.



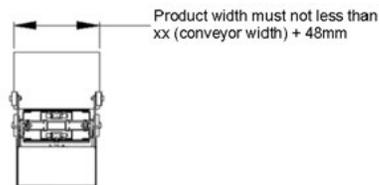
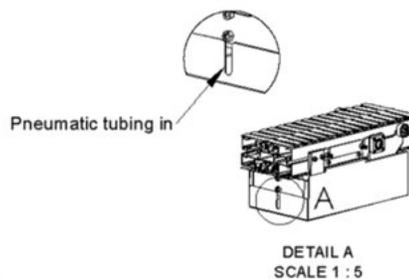
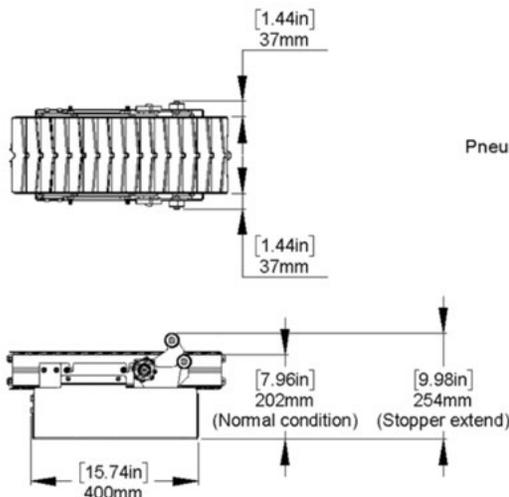
**Features**

- Supported accumulation load: Up to 60kg.
- Maximum conveyor speed: up to 40m/min.
- Available for conveyor width: 45mm, 65mm, 85mm, 105mm, 150mm, 180mm & 260mm.
- Best work with FlexMove plain chain.
- Using pneumatic system.
- Can be used as product spacer.
- Can be operate without sensor.
- Low maintenance.



**Specification**

- Ø6mm tubing speed controller
  - Operating air pressure range: 0.5~0.6MPa
  - Air consumption: 0.01m3 per minute
- (Calculation based on tubing length of 1.5m & Number of cycles of 180 times per hour)*



\*Where xx = conveyor series (limit to FK, FS,FM,FC,FL,FU & FV)  
 Note: Solenoid valve optional.

Helical Plain Bend Conveyors



**Helical Plain Bend Conveyors**

- Reduces conveyor footprint saving valuable floor space
- Allows incline or decline through corners and straights
- Patented side roller chain reduces corner friction
- Provides capability for product buffering in corners
- Ideal for incline or decline in tight spaces



Patented Chain Design

**Features**

- Available on FlexMove Aluminum Conveyors: FS (65 mm), FM (85 mm), FC (105 mm), FL (150 mm), FU (180 mm) and FV (260 mm)
- Minimum 500 mm radius helical bend corner
- Corner Angles: 45, 90, 135, 180, 225, 270 and 360 degrees
- Incline and decline angles up to 12 degrees
  - Plain chain is capable of incline / decline angles up to 7 degrees
  - Friction top chain is recommended for angles of 7 to 12 degrees

**Chain Types**

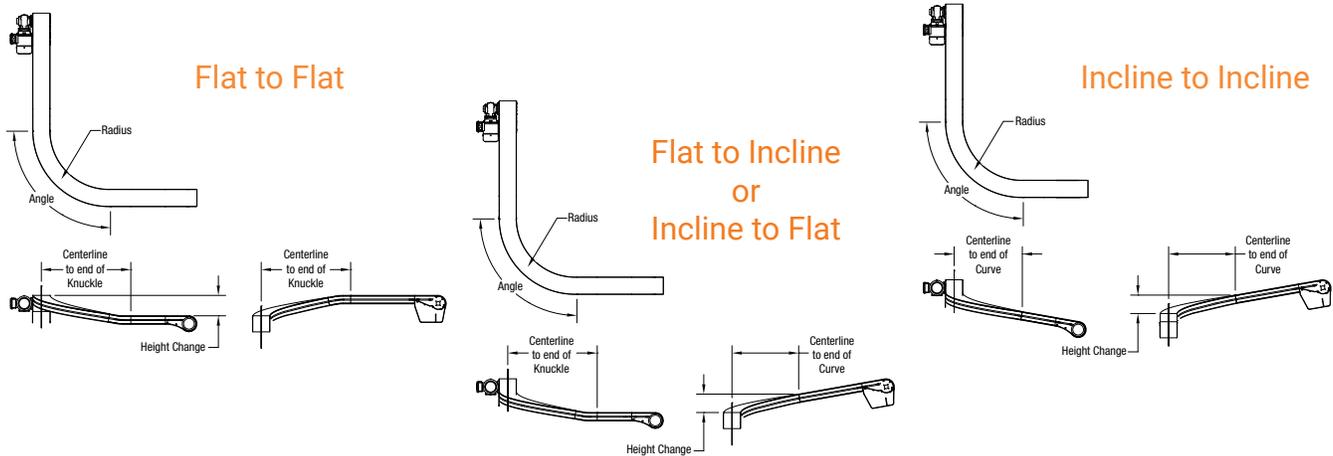
- (2) Conveyor Chain types for maximum capability; Bearing Chain and Non-Bearing Chain

|                 | Bearing Chain             | Non-Bearing Chain                |
|-----------------|---------------------------|----------------------------------|
| Conveyor Widths | 85,180, 260 mm            | 65, 85, 105, 150, 180 and 260 mm |
| Maximum curves  | Up to 4 curves            | Up to 2 curves                   |
| Maximum angle   | A total of 720 degrees    | A total of 360 degrees           |
| Maximum length  | 21.3 m (70 ft)            | 12.2 m (40 ft)                   |
| Maximum speed   | Up to 55/min (180 ft/min) | Up to 55 m/min (180 ft/min)      |
| Load Capacity   | 136 kg (300 lbs)          | 136 kg (300 lbs)                 |

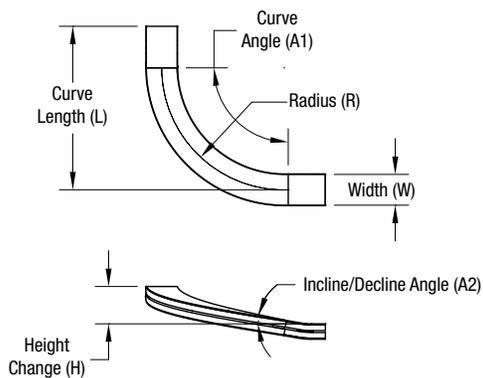


## Helical Plain Bend Conveyors

### Curve Layout Options:



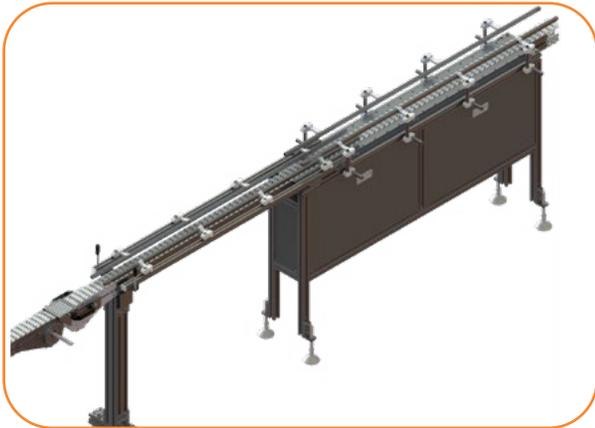
### Dimensions



|  |
|--|
| W* = 65, 85, 105, 150, 180, 260              |
| R = 500, 700, 1000 mm                        |
| A1 = 45 to 360 degrees                       |
| A2 = 3 to 12 degrees                         |
| H = Configuration dependent, contact factory |
| L = Configuration dependent, contact factory |

\* Bearing chain in 85, 180, and 260 mm widths only

Retractable Conveyor



**Retractable Conveyor**

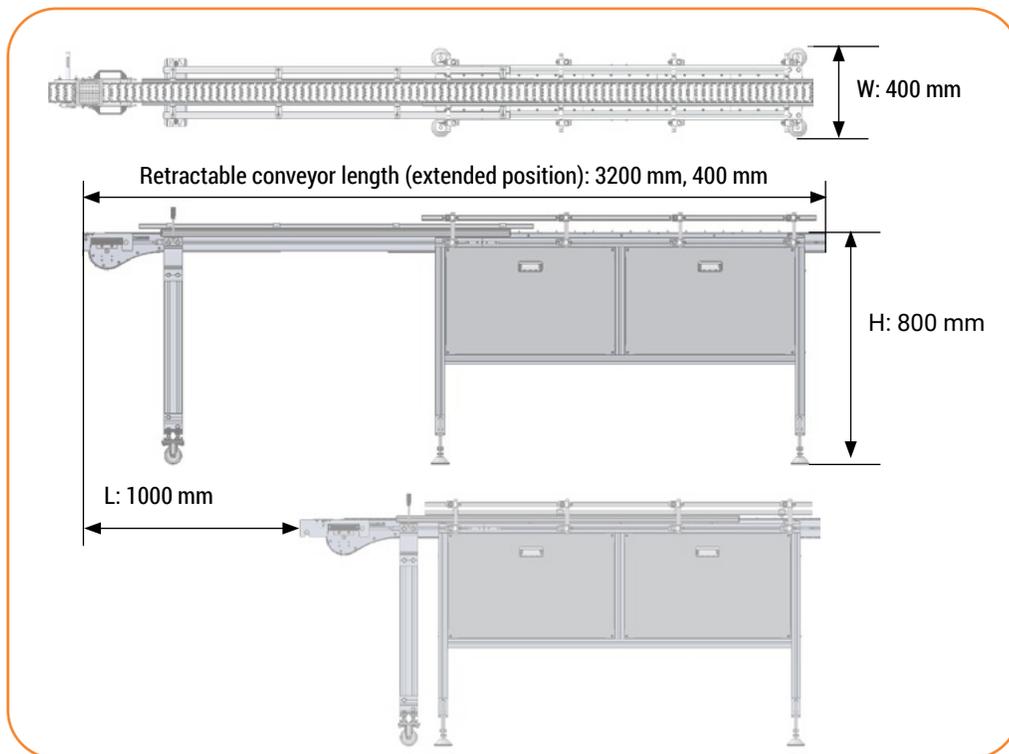
Retractable conveyors are an excellent solution for production floors with limited space, as they can provide up to 1 meter of clearance when retracted. This design maximizes efficiency by creating temporary open areas for workers or equipment to pass through without compromising the overall conveyor system layout. Their flexibility makes them ideal for optimizing workflows in compact production environments.

**Features & Specification**

- Available in FlexMove Aluminum Conveyors: FS (65 mm), FM (85mm), FC (105mm)
- Retractable conveyor length (extended position): 3200 mm
- Width (W): 400 mm
- Minimum conveyor height (H): 800 mm
- Conveyor retracting length (L): 1000mm
- Conveyor running speed: Up to 50 m/min
- Maximum product width: Conveyor width +50 mm
- Recommended total conveyor length: up to 10 m

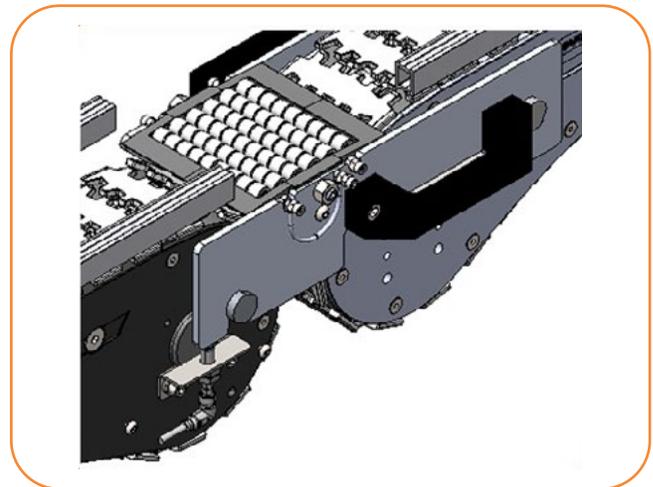
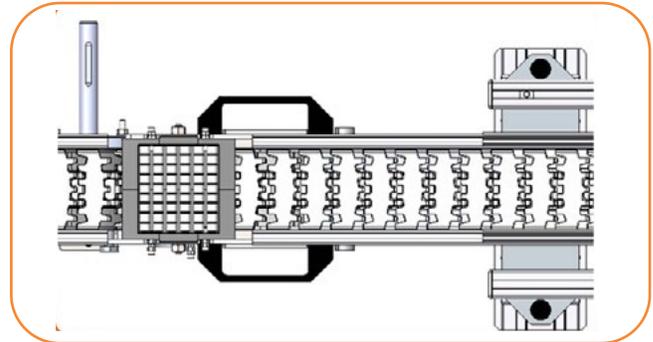
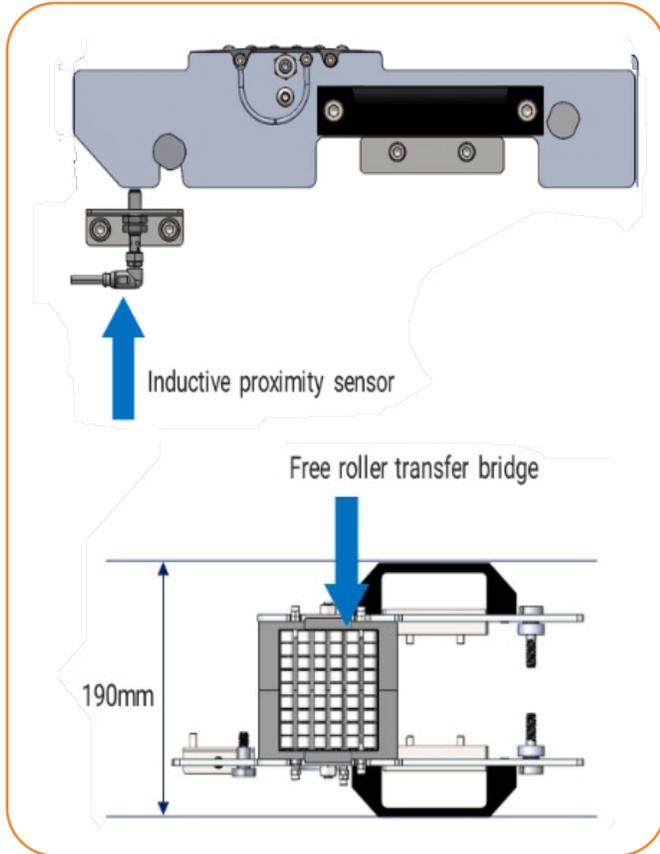
| Part Number  |
|--|
| FZRCxx-Hhhh-zz   |
| Where  |
| xx = Conveyor series (FS: 65mm, FM: 85mm, FC: 105mm)                           |
| hhh = Conveyor height (Min 800mm, Max 1200mm)                                  |
| zz = Transfer Unit (01: End transfer, 02: Side transfer, 03: Side transfer FX) |

Example: FZRCFM-H0900-02

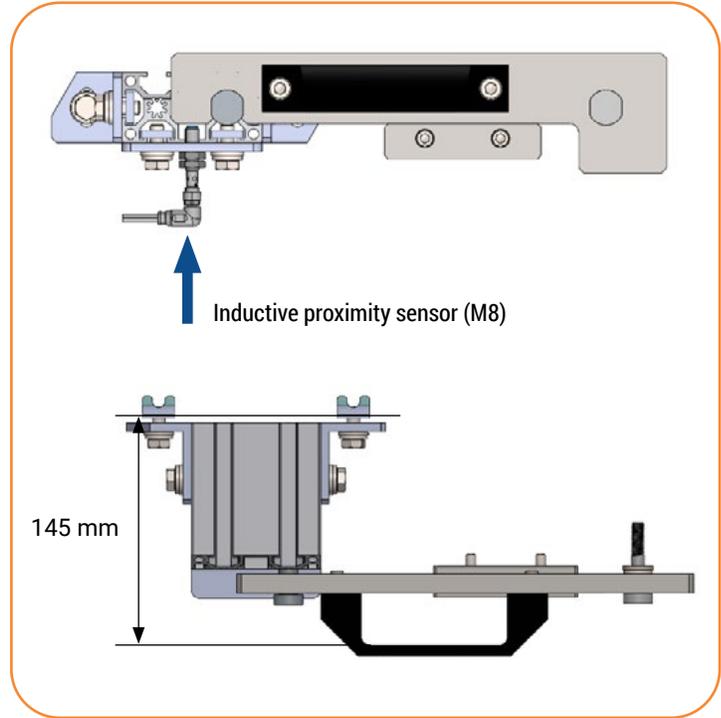
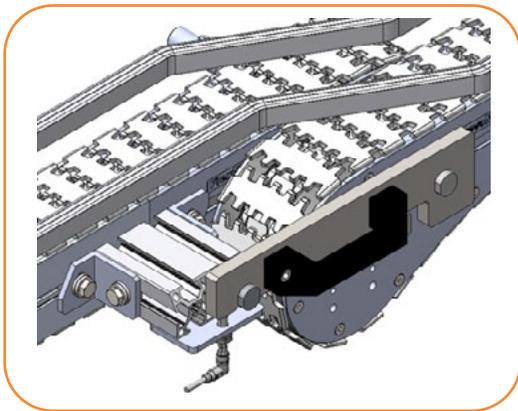
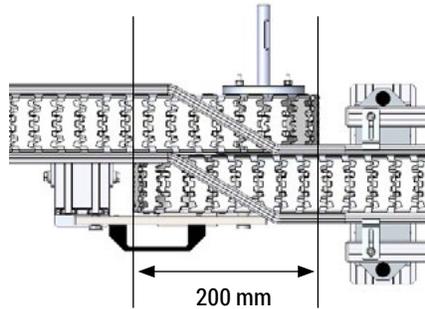


Note: Side guide and conveyor chain are not included. Only plain chain is suitable for the conveyor. The conveyor requires at least 8 meters of chain to fill the whole track. The conveyor is not recommended for product accumulation.

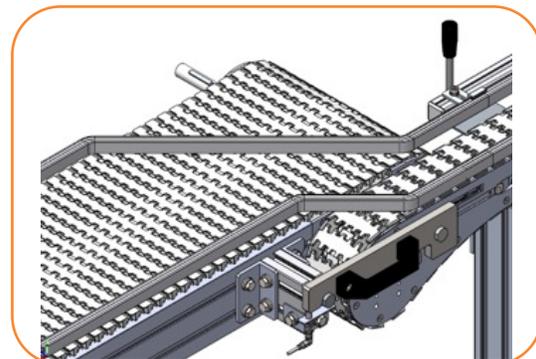
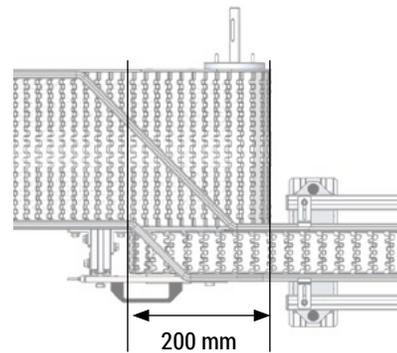
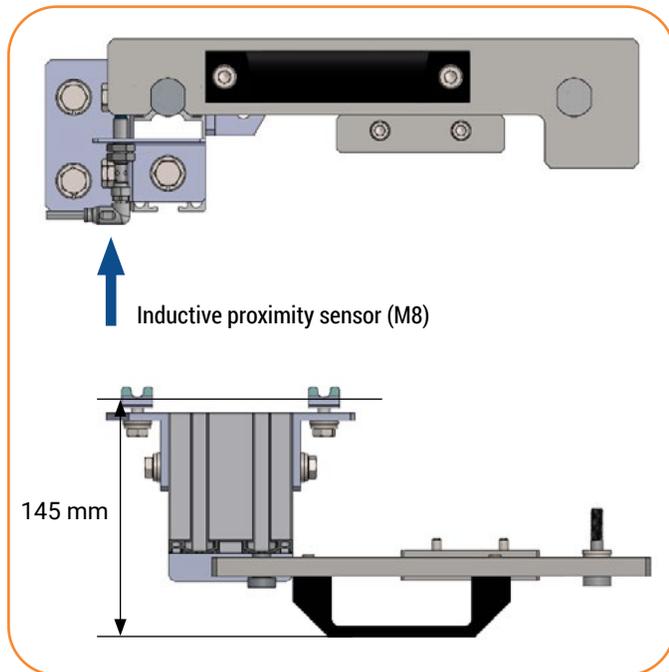
## End Transfer (Valid only for conveyors within the same series)



**Side Transfer** (Transfer with FK, FS, FM, FC, FL, FU, FV series conveyor)

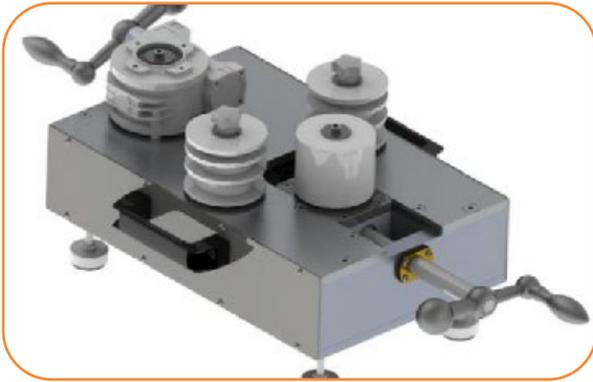


**Side Transfer FX** (Transfer with FX series conveyor)



Note: For side transfer, opening section is estimated to reduce about 200mm. The actual reduced length is subjected to side transfer guide design. Dimension shown above for FM series.

## Manual Side Guide Bending Unit FY-MSBU

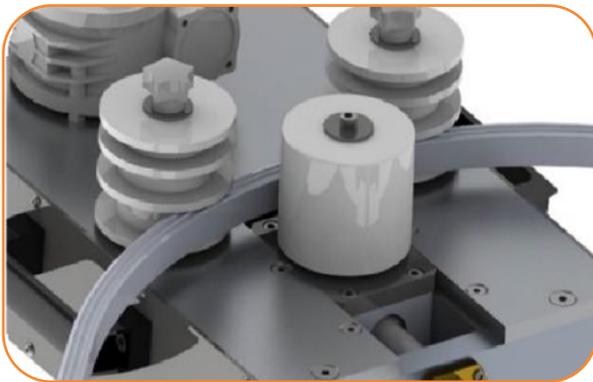


### Manual Side Guide Bending Unit

Introducing the go-to companion for on-site installation and modification tasks – our Manual Side Guide Bending Unit. Engineered for the convenience of professionals on the move, this compact tool is designed to make your bending tasks easier and more efficient during on-site projects.

#### Features

- **Portability:** A compact and lightweight design ensures effortless transport to any worksite, saving time and effort.
- **On-Site Flexibility:** Tailored for on-site side guide installation and modification tasks, eliminating the need for costly off-site bending.
- **Approximate Angle Bending:** Designed for quick and convenient angle without the need for precision tools.
- **User-Friendly Operation:** Intuitive controls and ergonomic design make bending rail angles a breeze for all skill levels.
- **Time-Efficient:** Reduces downtime during installation and maintenance, increasing overall project efficiency.

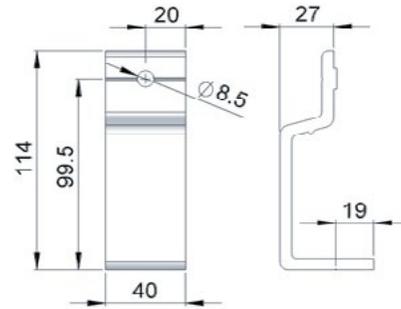
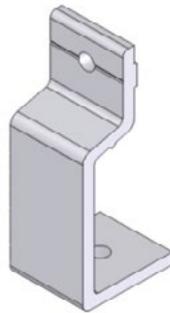
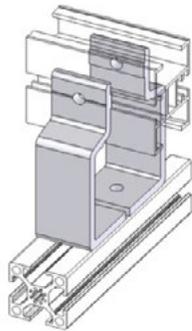


#### Specifications & Dimension

- **Operating Mechanism:** Manual hand crank
- **Sizes:** 256 mm x 690 mm x 254 mm (W)x(L)x(H)
- **Weight:** 28kg **Material Compatibility:** FGRR-10x20 and FGRR-15x20

## FAHBS-40

Horizontal beam support bracket - Aluminum

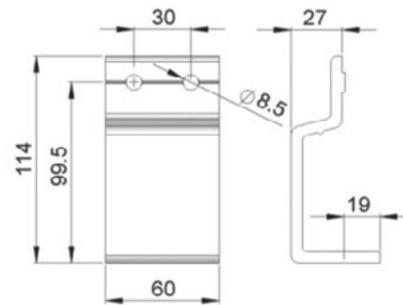
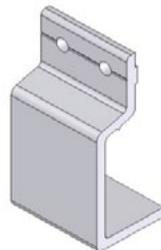
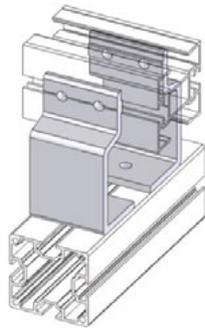


**UOM: pc**  
For 40 mm horizontal crossing support beam

Mounting: FATB-20(1),  
FALN-M8(1), FAHB-M8 x16(1),  
FASN-M8(1), FAFW-M8 (2)

## FAHBS-60

Horizontal beam support bracket - Aluminum

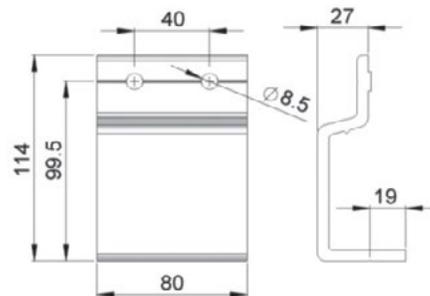
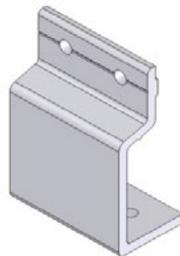
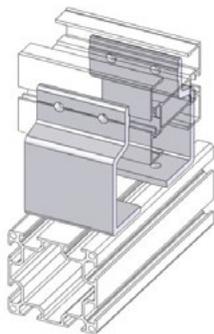


**UOM: pc**  
For 64 mm horizontal crossing support beam

Mounting: FATB-20(2),  
FALN-M8(2), FAHB-M8 x16(1),  
FASN-M8(1), FAFW-M8 (3)

## FAHBS-80

Horizontal beam support bracket - Aluminum

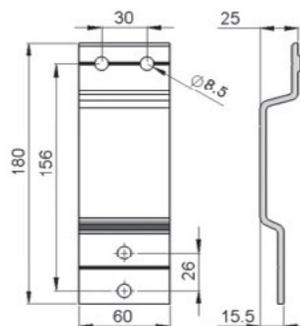
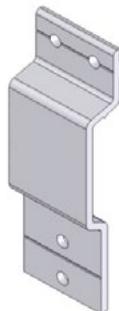
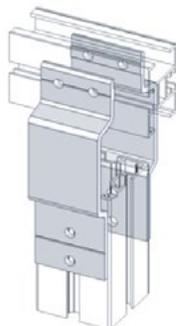


**UOM: pc**  
For 80 mm horizontal crossing support beam

Mounting: FATB-20(2), FALN-M8(2),  
FAHB-M8 x16(2), FASN-M8(2),  
FAFW-M8 (4)

## FAVBS-60K

Vertical beam support bracket - Aluminum

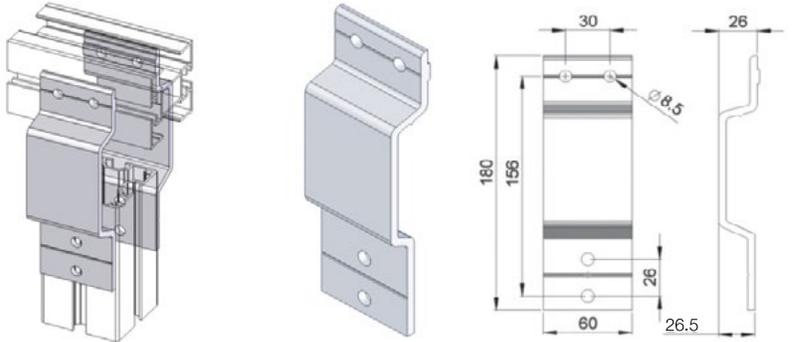


**UOM: pc**  
For FK conveyor with 64 mm vertical support beam

Mounting: FATB-20(2),  
FALN-M8(2), FAHB-M8 x16(2),  
FASN-M8(2), FAFW-M8 (4)

### FAVBS-60S

Vertical beam support bracket - Aluminum



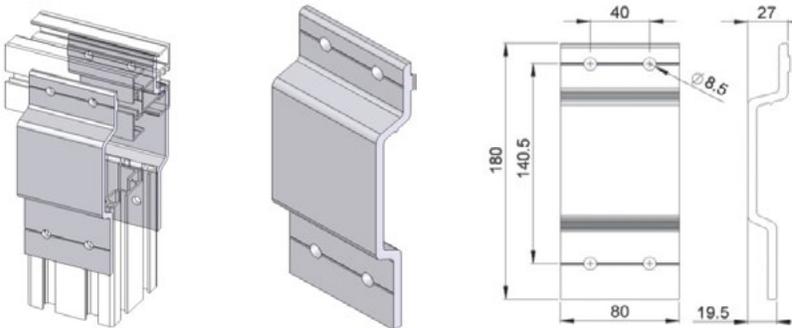
**UOM: pc**

For FS conveyor with 64 mm vertical beam support

Mounting: FATB-20(2),  
FALN-M8(2), FAHB-M8 x16(2),  
FASN-M8(2), FAFW-M8 (4)

### FAVBS-80S

Vertical beam support bracket - Aluminum



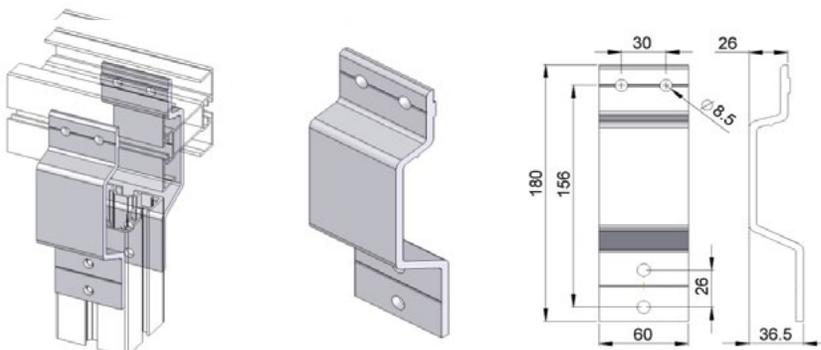
**UOM: pc**

For FS conveyor with 80 mm vertical beam support

Mounting: FATB-20(2),  
FALN-M8(2), FAHB-M8 x16(2),  
FASN-M8(2), FAFW-M8 (4)

### FAVBS-60M

Vertical beam support bracket - Aluminum



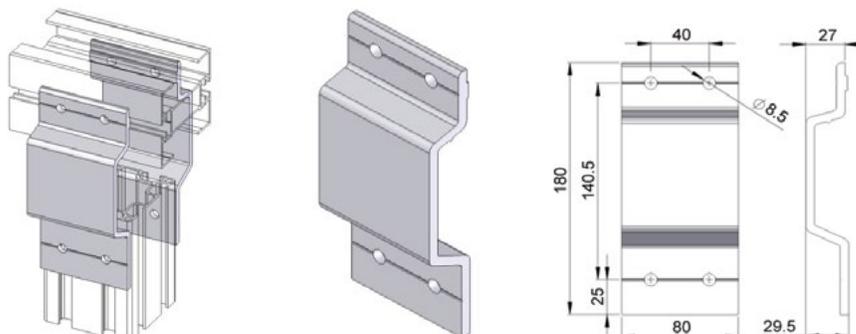
**UOM: pc**

For FM conveyor with 64 mm vertical support beam

Mounting: FATB-20(2), FALN-M8(2),  
FAHB-M8 x16(2), FASN-M8(2),  
FAFW-M8 (4)

### FAVBS-80M

Vertical beam support bracket - Aluminum



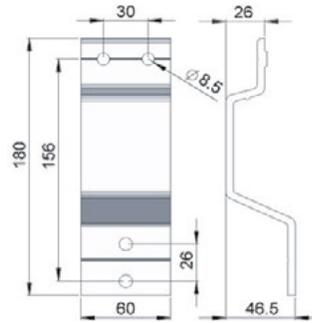
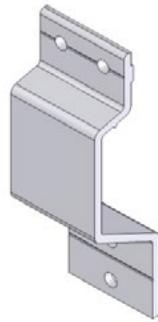
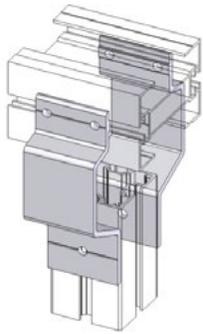
**UOM: pc**

For FM conveyor with 80 mm vertical beam support

Mounting: FATB-20(2),  
FALN-M8(2), FAHB-M8 x16(2),  
FASN-M8(2), FAFW-M8 (4)

## FAVBS-60C

Vertical beam support bracket - Aluminum

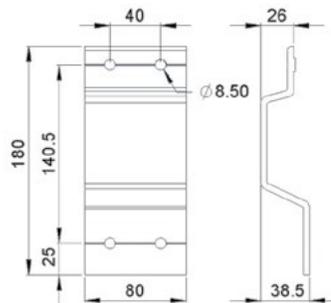
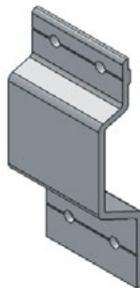
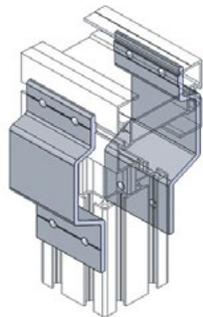


**UOM: pc**  
For FC conveyor with 64 mm vertical beam support

Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)

## FAVBS-80C

Vertical beam support bracket - Aluminum

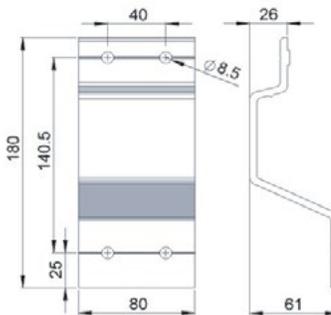
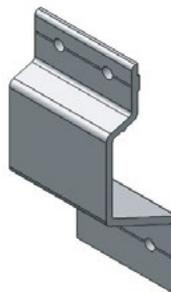
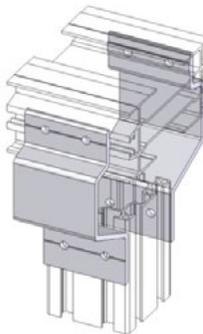


**UOM: pc**  
For FC conveyor with 80 mm vertical beam support

Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)

## FAVBS-80L

Vertical beam support bracket - Aluminum

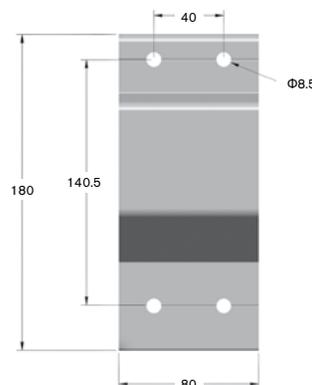
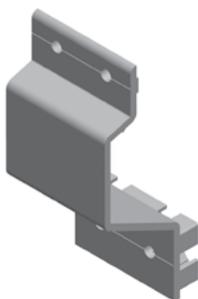


**UOM: pc**  
For FL conveyor with 80 mm vertical beam support

Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)

## FAVBS-80U

Vertical beam support bracket

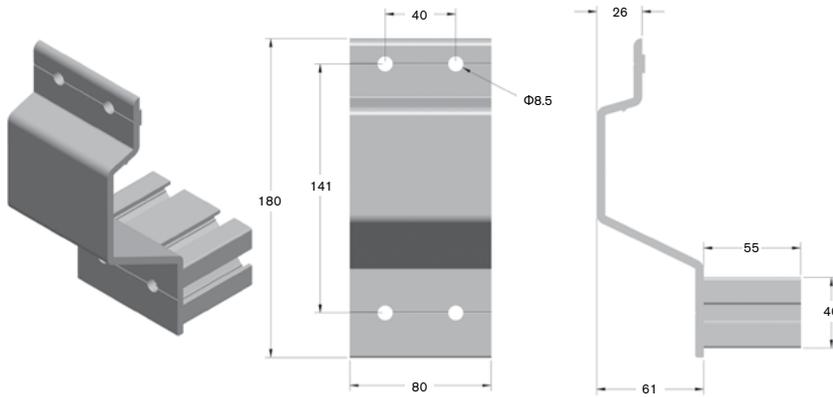


**UOM: pc**  
For FU conveyor with 80 mm vertical beam support

Mounting: FATB-20(2), FALN-M8(2), FAFW-M8 (2)

## FAVBS-80V

Vertical beam support bracket

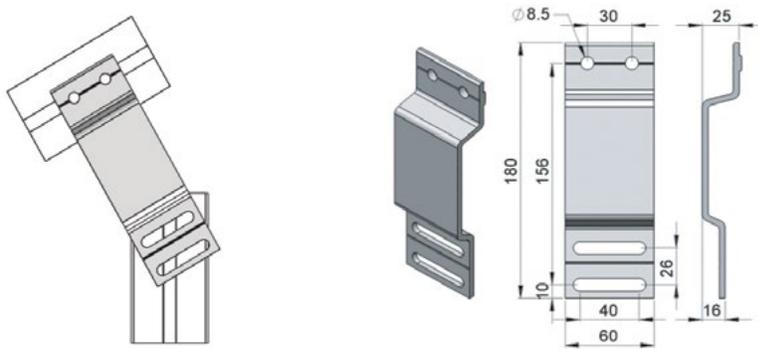


**UOM: pc**  
For FV conveyor with 80 mm vertical beam support

Mounting: FATB-20(2), FALN-M8(2), FAFW-M8 (2)

## FAVBS-60KV

Vertical beam support bracket with slot - Aluminum

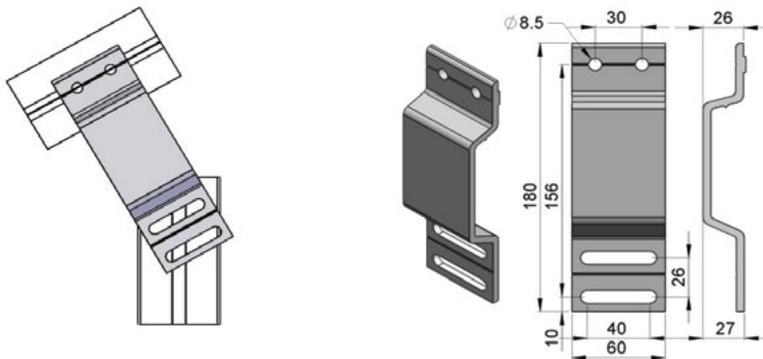


**UOM: pc**  
For FK conveyor with 64 mm vertical support beam

Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)

## FAVBS-60SV

Vertical beam support bracket with slot - Aluminum

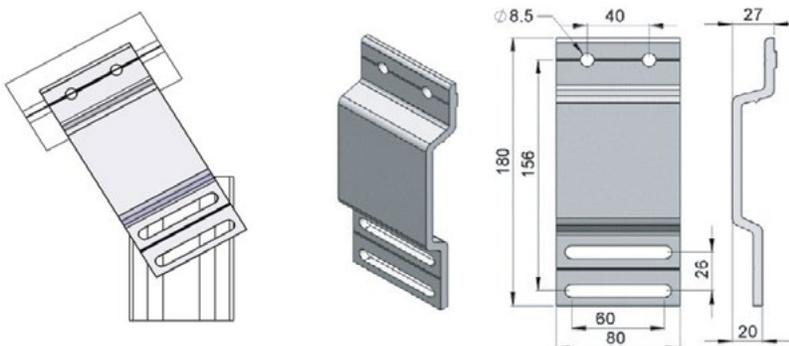


**UOM: pc**  
For FS conveyor with 64 mm vertical beam support

Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)

## FAVBS-80SV

Vertical beam support bracket with slot - Aluminum

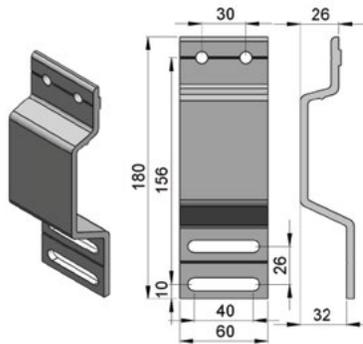
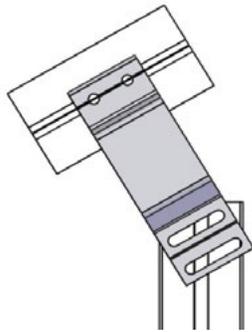


**UOM: pc**  
For FS conveyor with 80 mm vertical beam support

Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)

## FAVBS-60MV

Vertical beam support bracket with slot - Aluminum

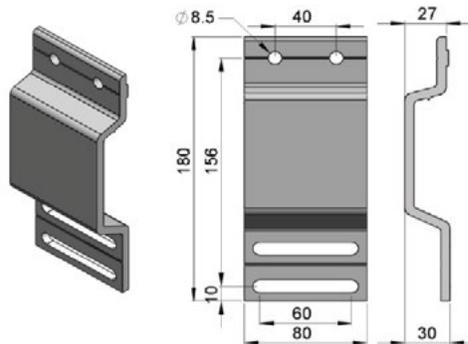
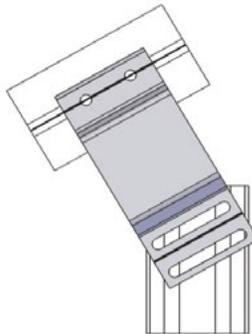


**UOM: pc**  
For FM conveyor with 64 mm vertical support beam

Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)

## FAVBS-80MV

Vertical beam support bracket with slot - Aluminum

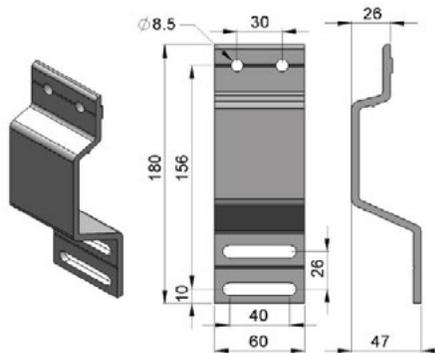
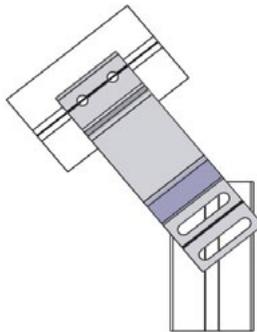


**UOM: pc**  
For FM conveyor with 80 mm vertical beam support

Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)

## FAVBS-60CV

Vertical beam support bracket with slot - Aluminum

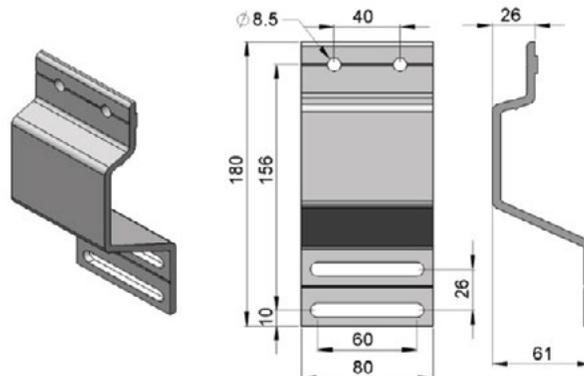
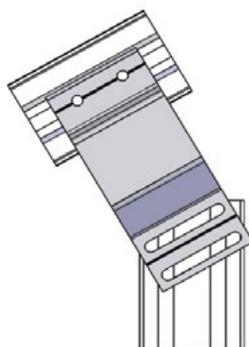


**UOM: pc**  
For FC conveyor with 64 mm vertical beam support

Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)

## FAVBS-80LV

Vertical beam support bracket - Aluminum

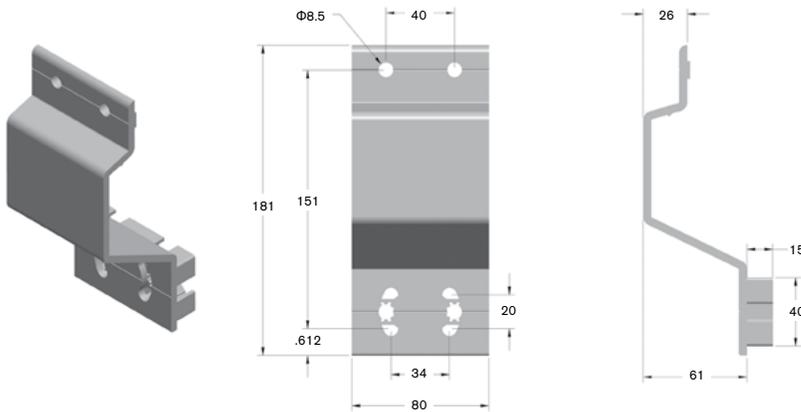


**UOM: pc**  
For FL conveyor with 80 mm vertical beam support

Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)

## FAVBS-80UV

Vertical beam support bracket

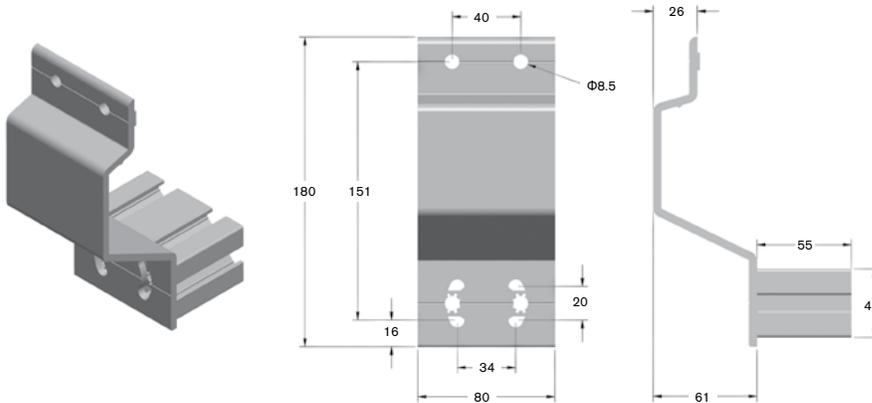


**UOM: pc**  
For FU conveyor with 80 mm vertical support beam

Mounting: FATB-20(2), FALN-M8(2), FAFW-M8 (2)

## FAVBS-80VV

Vertical beam support bracket

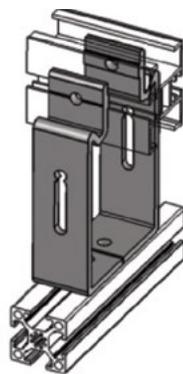
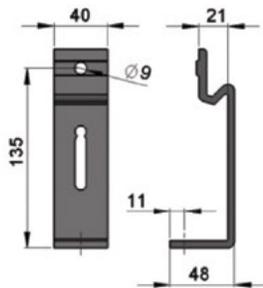


**UOM: pc**  
For FU conveyor with 80 mm vertical beam support

Mounting: FATB-20(2), FALN-M8(2), FAFW-M8 (2)

## FAHBS-40x135

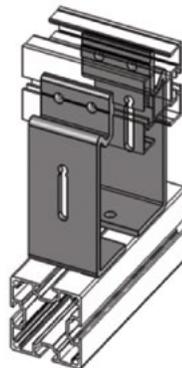
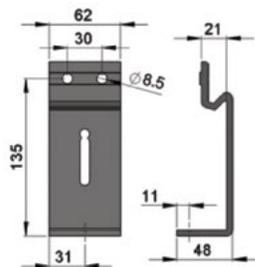
Horizontal beam support bracket - Aluminum



**UOM: pc**  
For 40 mm horizontal crossing support beam

## FAHBS-62x135

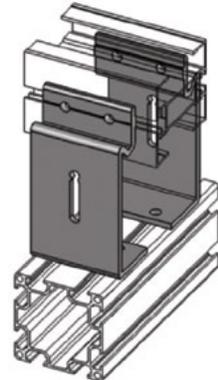
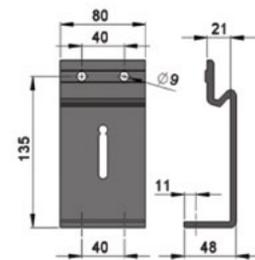
Horizontal beam support bracket - Aluminum



**UOM: pc**  
For 64mm horizontal crossing support beam

## FAHBS-80x135

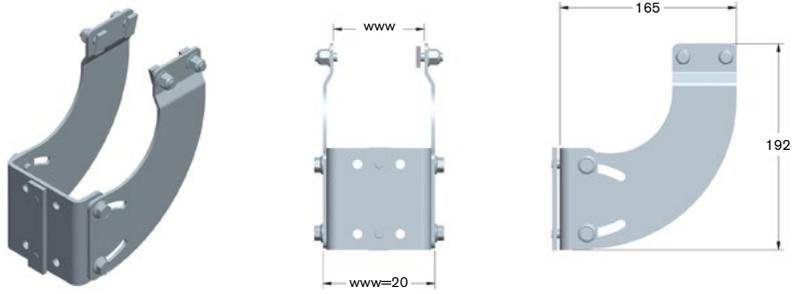
Horizontal beam support bracket - Aluminum



**UOM: pc**  
For 80 mm horizontal crossing support beam

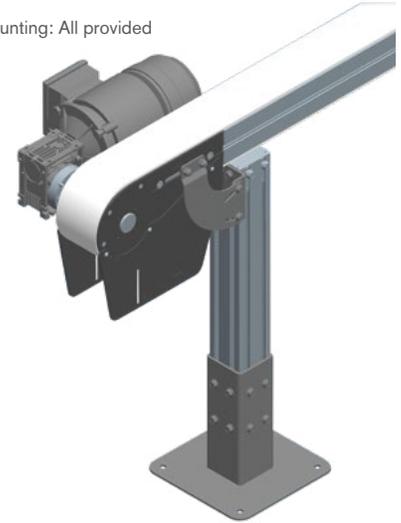
## FADBS-WWXV

### Drive End Support Bracket



**UOM: pc**  
For support of direct drive end to vertical beam support

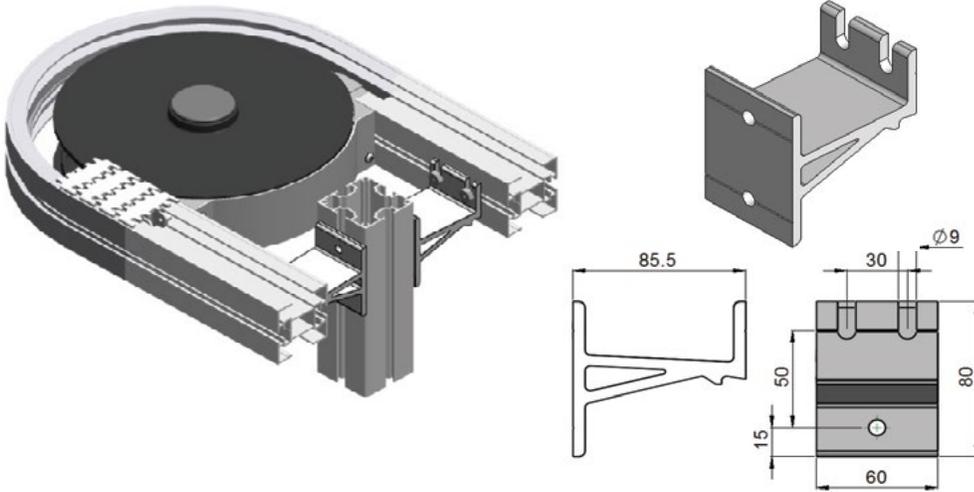
Mounting: All provided



| Part Number | Beam         | Conveyor   | Adjustable |
|-------------|--------------|------------|------------|
| FADBS       | 60 = 64 x 64 | WW         | X          |
|             |              | K = 45 mm  | V          |
|             |              | S = 65 mm  |            |
|             | M = 85 mm    |            |            |
|             | C = 105 mm   |            |            |
|             | 80 = 80 x 80 | L = 150 mm |            |
|             |              | U = 180 mm |            |
| V = 260 mm  |              |            |            |

## FAAL-64

### Alpine beam support bracket - Aluminum

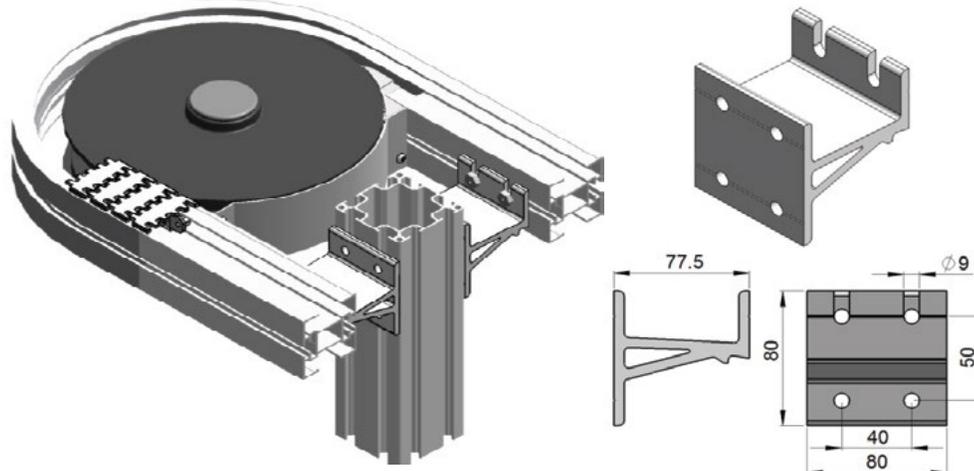


**UOM: pc**  
For support of 180° wheel bend with 64 mm vertical beam support

Mounting: FAHB-M8 x16(4) , FASN-M8(4) , FAFW-M8 (4)

## FAAL-80

### Alpine beam support bracket - Aluminum



**UOM: pc**  
For support of 180° wheel bend with 80 mm vertical beam support

Mounting: FAHB-M8 x16(6) , FASN-M8(6) , FAFW-M8 (6)

|           |                               |
|-----------|-------------------------------|
| FASR-25   | HDPE slide rail - White       |
| FASR-25U  | UHMW-PE slide rail - White    |
| FASR-25X  | Special PE slide rail - Blue  |
| FASR-25T  | PAPE slide rail - Grey        |
| FASR-25CD | Conductive slide rail - Black |

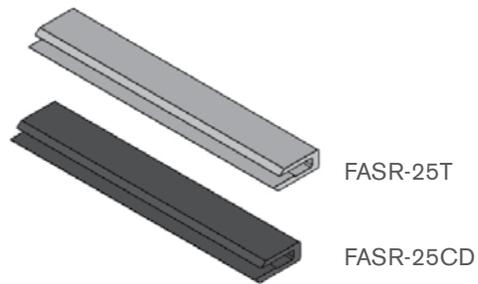
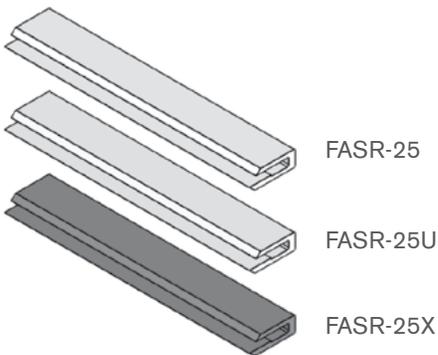
"Normal Application"

"Low Friction, suitable for accumulation"

"Lowest Friction, suitable for accumulation"

"High abrasive and High load"

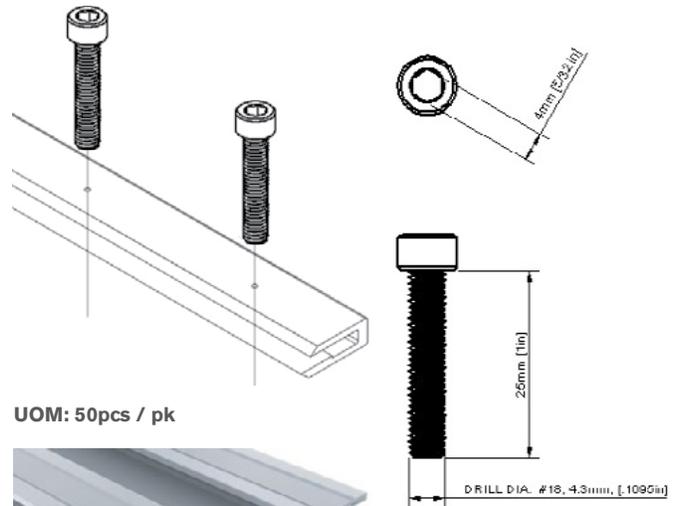
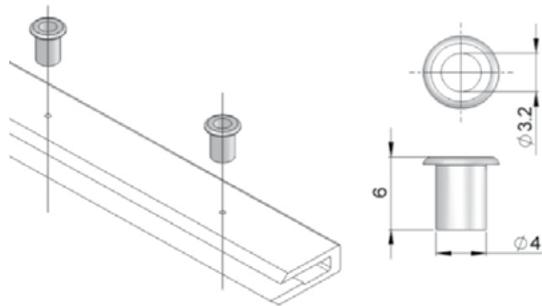
"Static conductive"



UOM: 25meter / roll

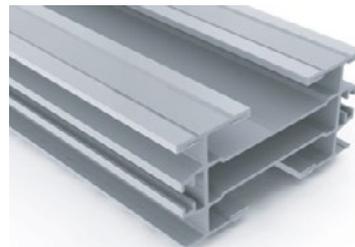
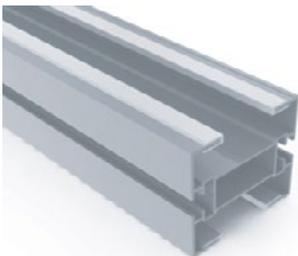
**FASLR-4x6** Aluminum rivet for slide rail

**807-2694** Nylon Socket screw for slide rail



UOM: 50pcs / pk

UOM: 50pcs / pk



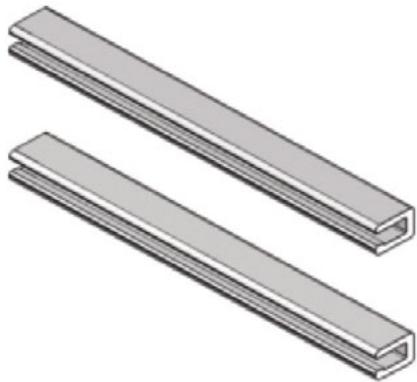
Note: 807-2694 available in North America only.

**FASR-25KU**

UHMW-PE slide rail

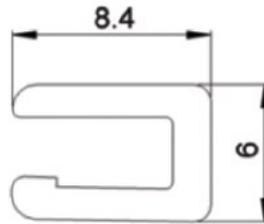
**FASR-25K**

HDPE slide rail



FASR-25KU

FASR-25K

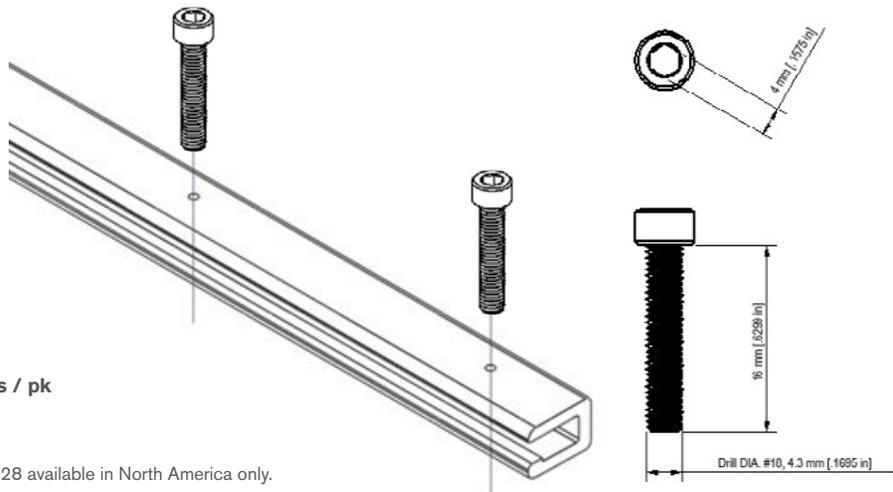


For FK Series Conveyors

**UOM: 25meter / roll**

**807-4128**

Nylon Socket screw for slide rail



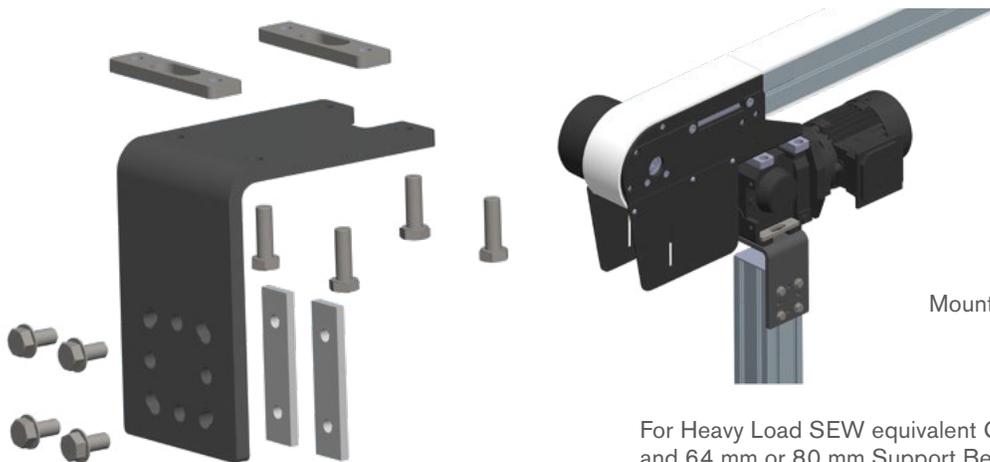
**UOM: 50pcs / pk**

Note: 807-4128 available in North America only.

For FK Series Conveyors

**207262**

Bracket Assembly, Suspended Drive



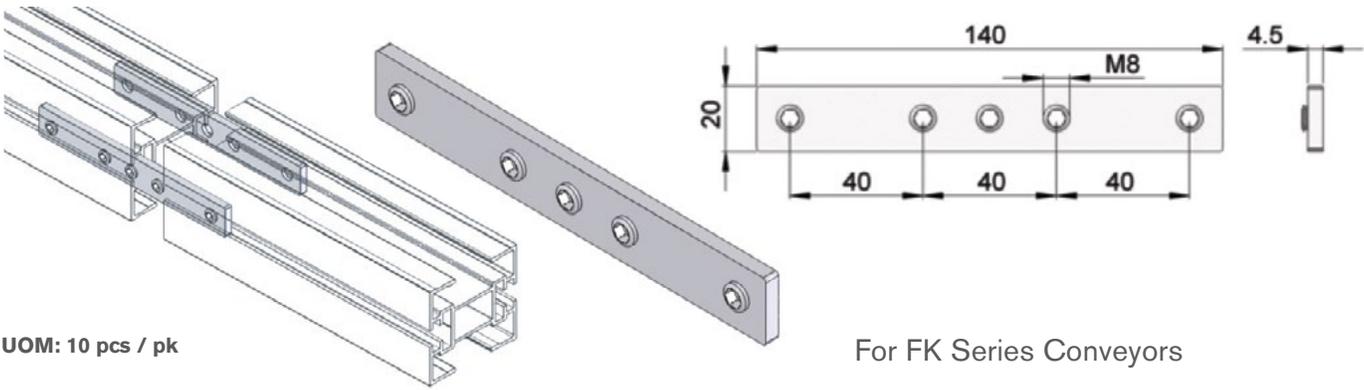
**UOM: kit**

Mounting: Included

For Heavy Load SEW equivalent Gearmotor and 64 mm or 80 mm Support Beams

**FACS-20x140**

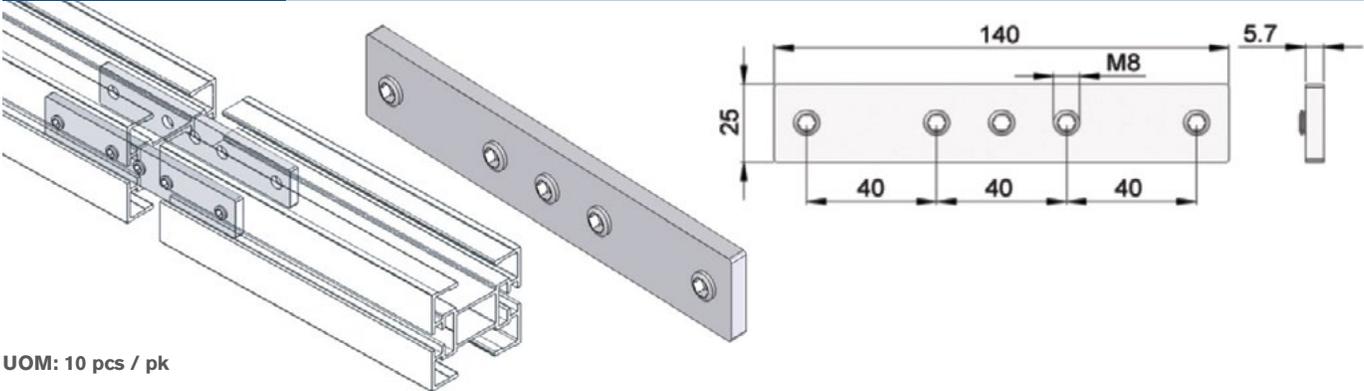
Connecting strip – Steel, electro zinc plated



UOM: 10 pcs / pk

**FACS-25x140A**

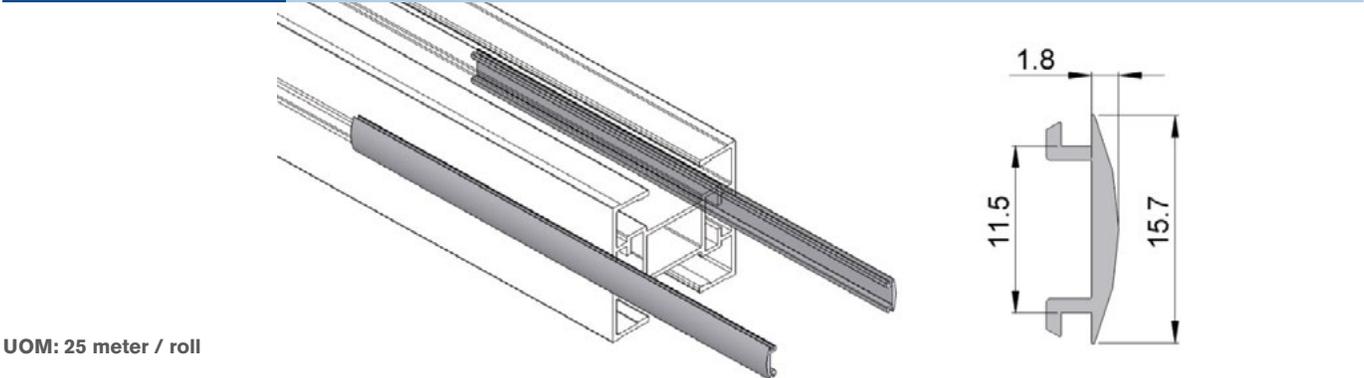
Connecting strip – Steel, electro zinc plated



UOM: 10 pcs / pk

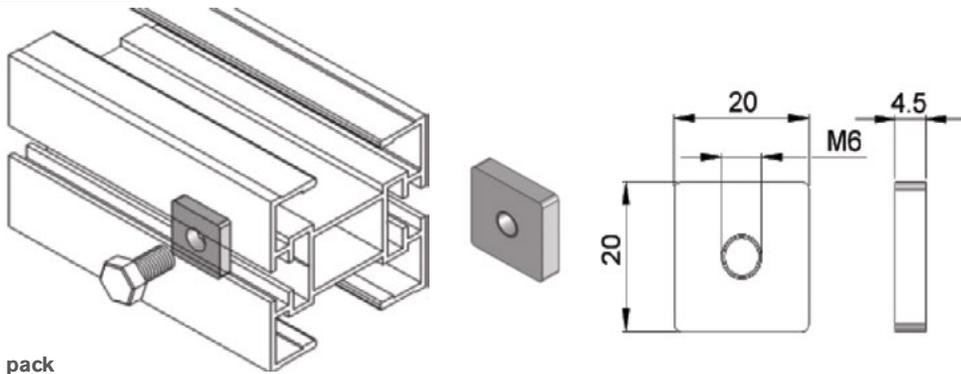
**FASC-25**

T-Slot Cover – Soft PVC ( 25 meter / Roll )



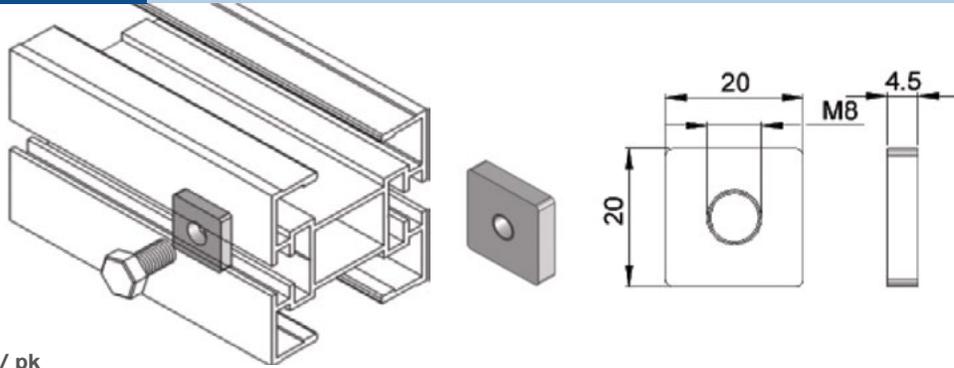
UOM: 25 meter / roll

**FASN-M6** M6 Square Nut for Outer Slot – Steel, electro zinc plated



UOM: 50 pcs / pack

**FASN-M8** M8 Square Nut for Inner Slot – Steel, electro zinc plated



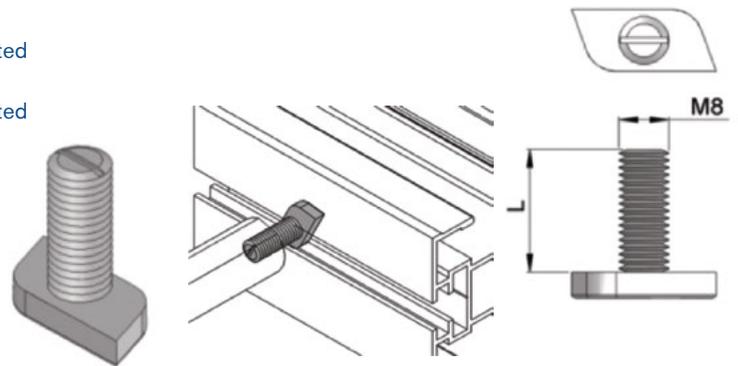
UOM: 50 pcs / pk

**FATB-20** T-bolt, L = 20 – Steel, zinc plated

**FATB-35** T-bolt, L = 35 – Steel, zinc plated

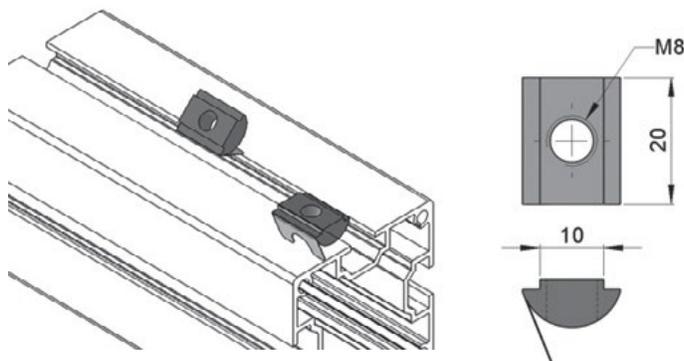
**FATB-53** T-bolt, L = 53 – Steel, zinc plated

**FATB-71** T-bolt, L = 71 – Steel, zinc plated



UOM: 50 pcs / pk

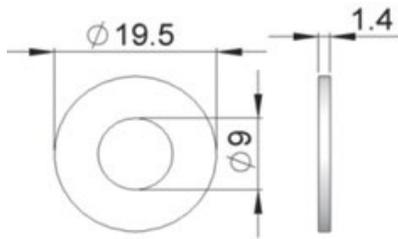
**FASL-M8** Spring Leaf Nut M8 for 40x40, 64x64, 40x80, 80x80 Support Beam - Steel, zinc plated



UOM: 50 pcs / pk

**FAFW-M8**

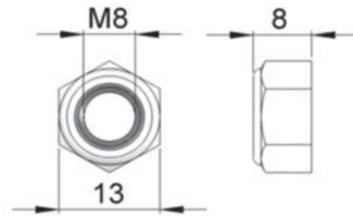
M8 Flat washer – Steel, zinc plated



UOM: 50 pcs / pk

**FALN-M8**

M8 Lock Nut – Steel, zinc plated



UOM: 50 pcs / pk

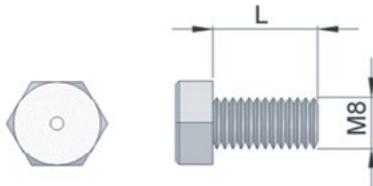
**FAHB- M8 x 16**

Hex Bolt, M8 – Steel, zinc plated

**FAHB-M8 x 20**

Hex bolt, L = 16 – Steel, zinc plated

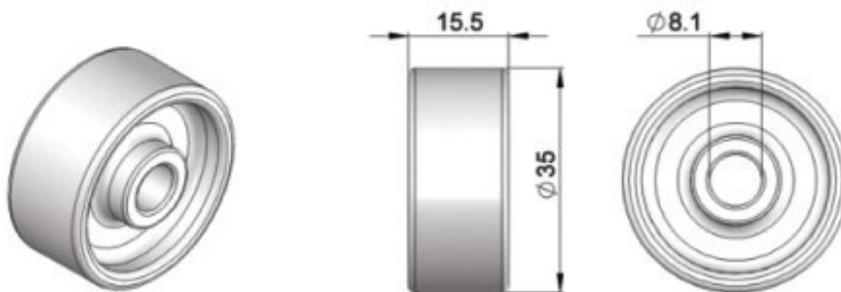
Hex bolt, L = 20 – Steel, zinc plated



UOM: 50 pcs / pk

**FAFR-35**

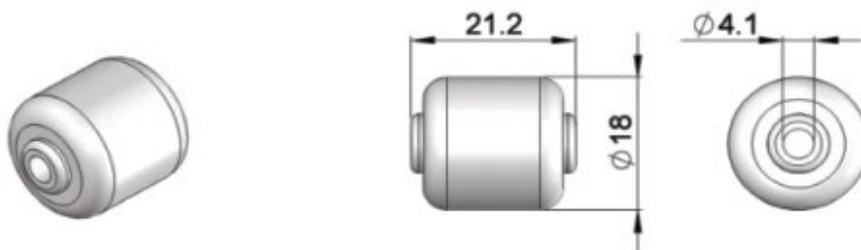
Free roller – POM



UOM: 10 pcs / pk

**FAFR-18**

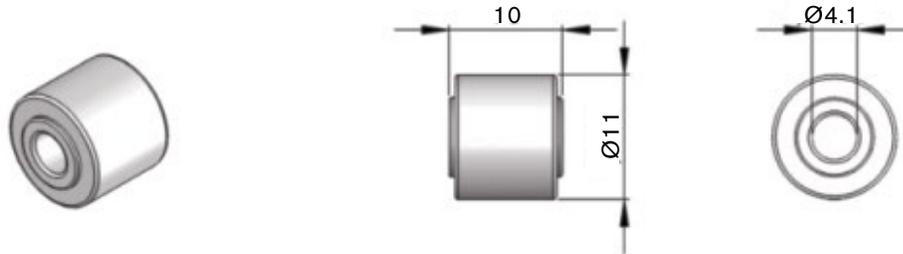
Free roller – POM



UOM: 10 pcs / pk

FAFR-11

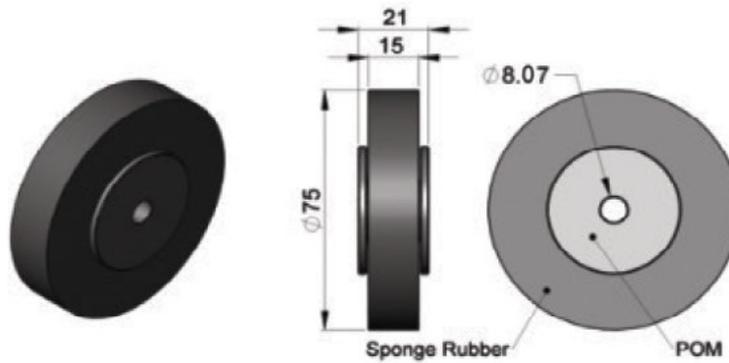
Free roller - POM



UOM: 10 pcs / pk

FASR-75x15

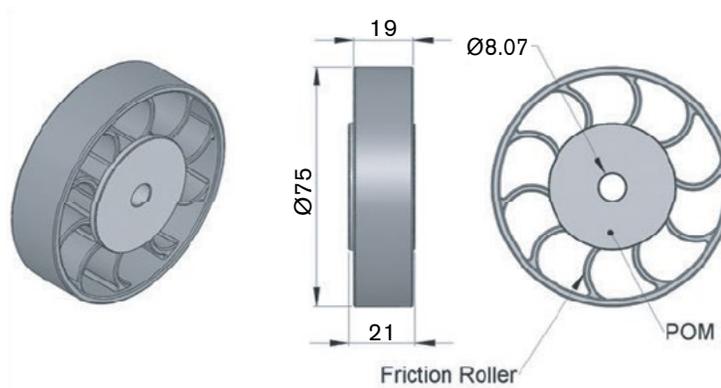
Sponge roller, Sponge rubber



UOM: 10 pcs / pk

FASR-75x19P

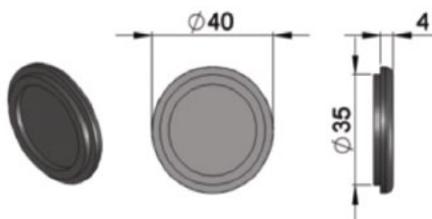
PVC Roller c/w POM core & Screw



UOM: 10 pcs / pk

FAEC-DS

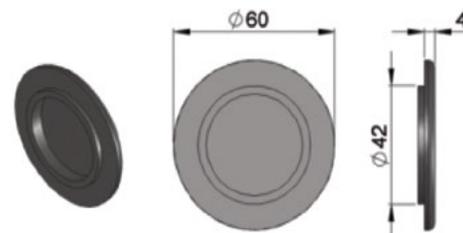
End cap for drive shaft - Polyamide



UOM: 10 pcs / pk

FAEC-WH

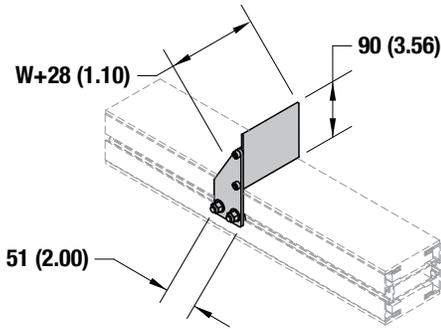
End cap for wheel - Polyamide



UOM: 10 pcs / pk

203395-WWW

WWW = Conveyor Width: 065, 085, 105, 150

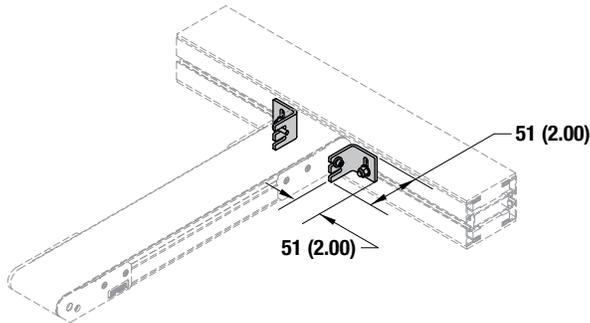


## Adjustable Stop

- Product End stop at any location on conveyor rail
- For accumulating product
- Not compatible with Friction Insert Chain

Available in North America only.

203399



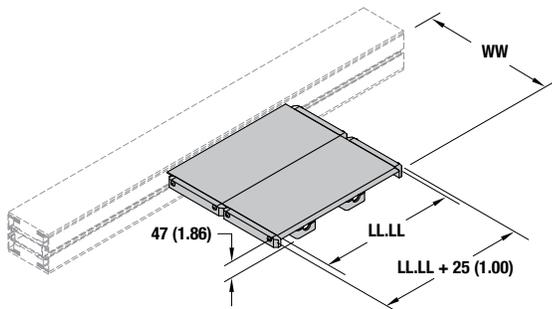
## Conveyor 90° Transfer Bracket

- Provides mounting bracket and transfer plate for 90° product transfers
- Provides solid conveyor alignment for trouble free transfers
- Compatible with all widths of FlexMove conveyors

Available in North America only.

FACS-25x160

Connecting strip – Steel, electro zinc plated



## Side Tables

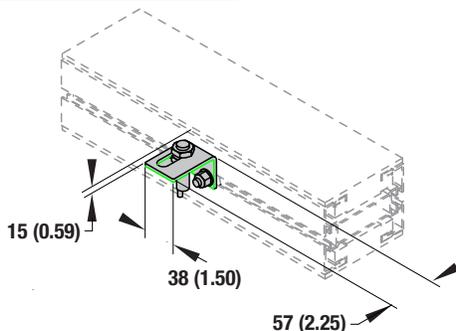
- Provides a 152 mm (6 in) or 305 mm (12 in) wide working surface
- Adjusts in/out and up/down for product transfer on/off conveyor belts
- Can be positioned anywhere along the conveyor
- Anodized aluminum work surface
- Max load: 6 kg/m (5 lbs/ft), use Adjustable Tie Brackets for added capacity
- Available in 305 mm (1 ft) increments from 305 mm (1 ft) to 30,175 mm (99 ft)

### Side Tables

| 27MSF | N | - | W   | W | LLLL |
|-------|---|---|---|---|------|
|       |   |   | - Table Length in LLLL Feet (ex. 0250 = 2.5 feet) |   |      |
|       |   |   | - Table Width: 06 = 6" 12 = 12"                   |   |      |
|       |   |   | - Number of Sides: 1 = one side 2 = both sides    |   |      |

Available in North America only.

204398



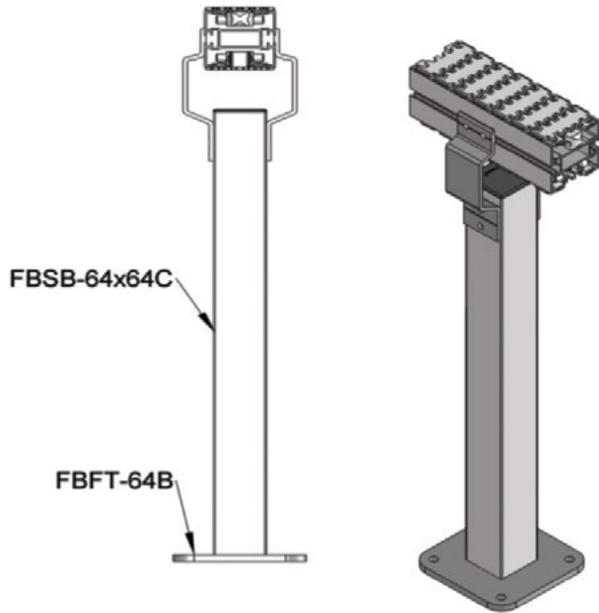
## Pallet Sensor Bracket

- Provides mounting bracket for proximity sensor of pallet
- Compatible with 12 mm diameter proximity sensors
- Proximity sensor faces upward
- Adjustable, mounts along conveyor T-slot
- Top of bracket to pallet locating block: 28 mm (1.09 in)

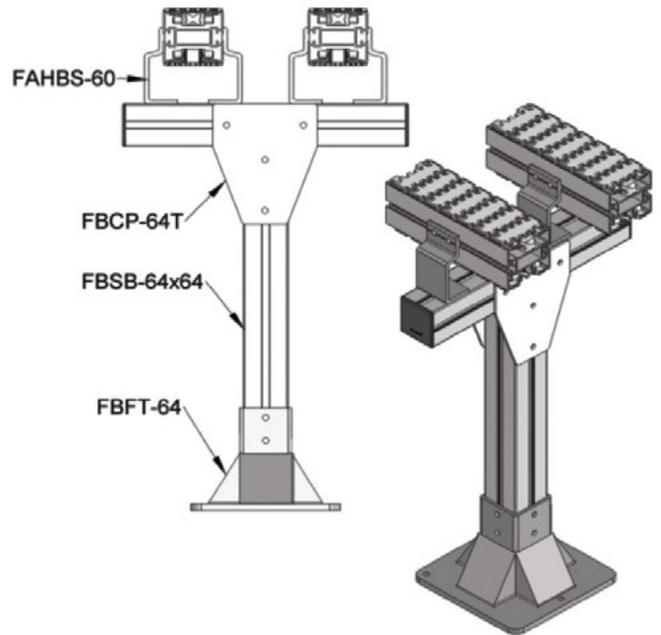
Available in North America only.

**Note:** Due to the wide variety of conveyor set ups and applications, point of installation guarding is the responsibility of the end user. **Note:** Dimensions = mm (in)

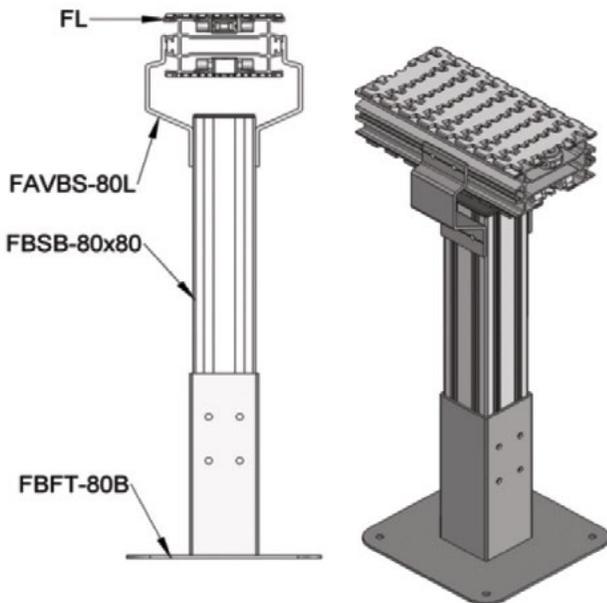
Single Support Structure with enclosure beam  
FK, FS, FM, FC



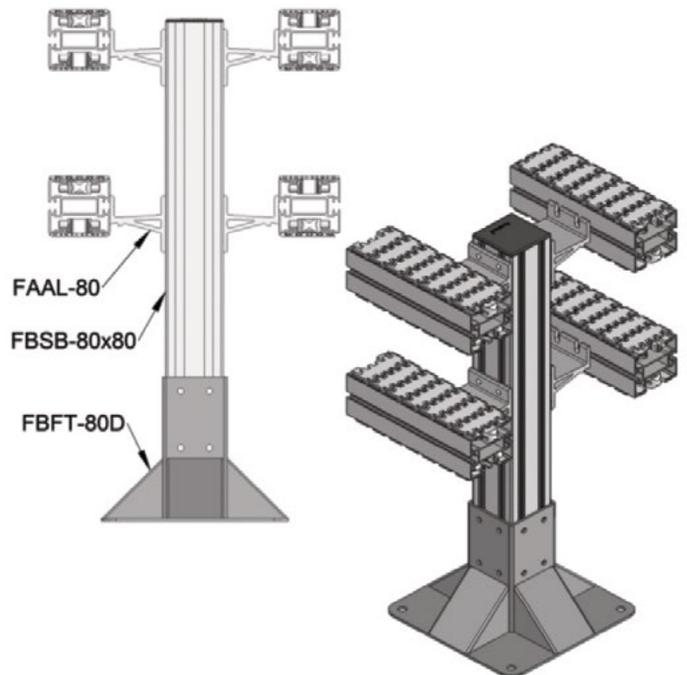
Double Lane Support Structure  
FK, FS, FM, FC, FL



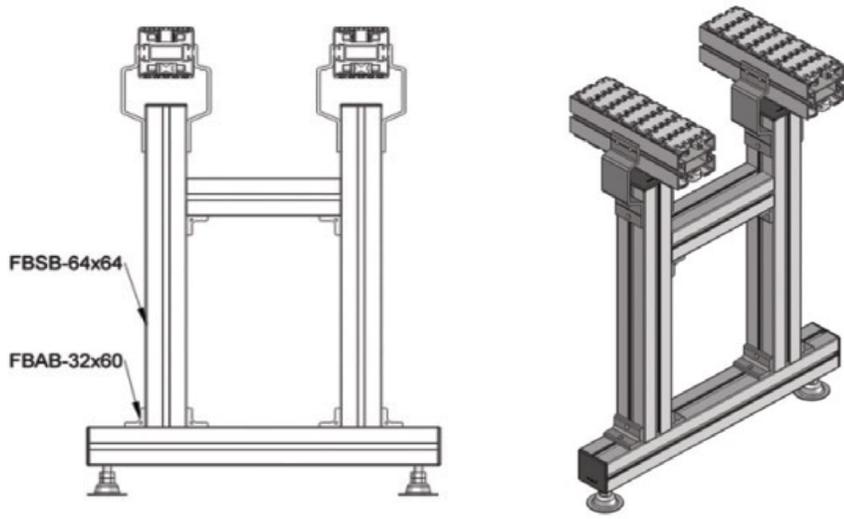
Single Support Structure  
FL



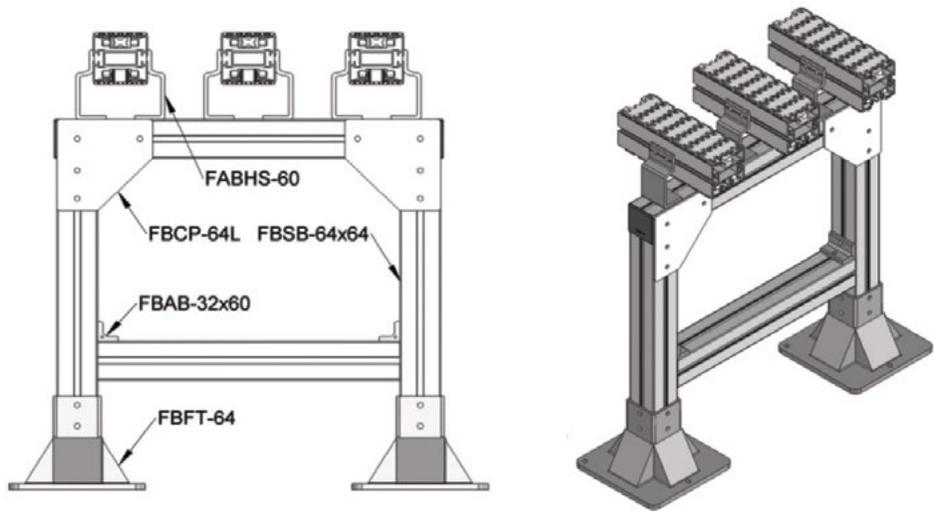
Alpine Support Structure  
FK, FS, FM, FC, FL



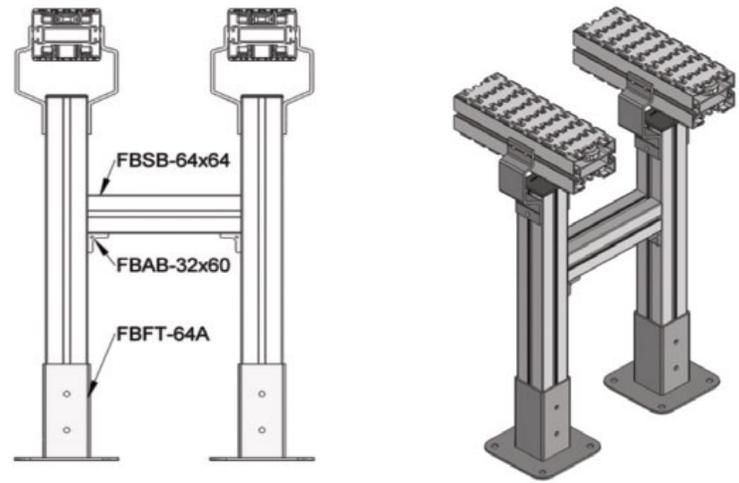
Double Support Structure **FK, FS, FM, FC**



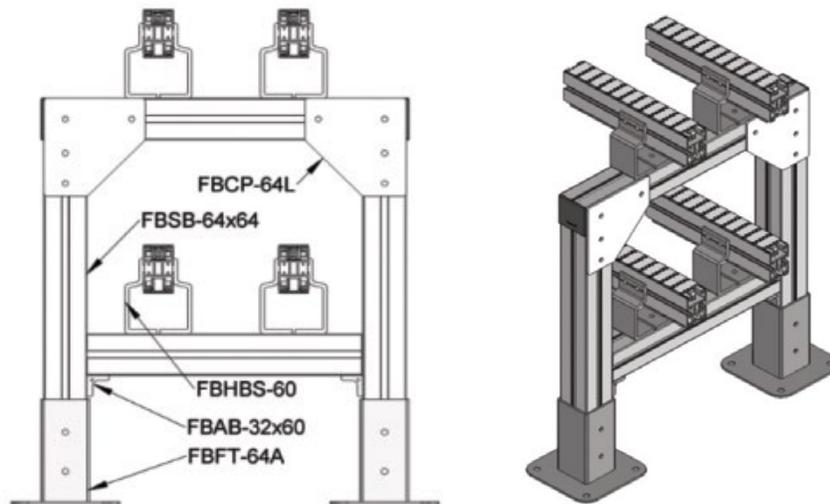
Multi Lane Support Structure **FK, FS, FM, FC, FL**



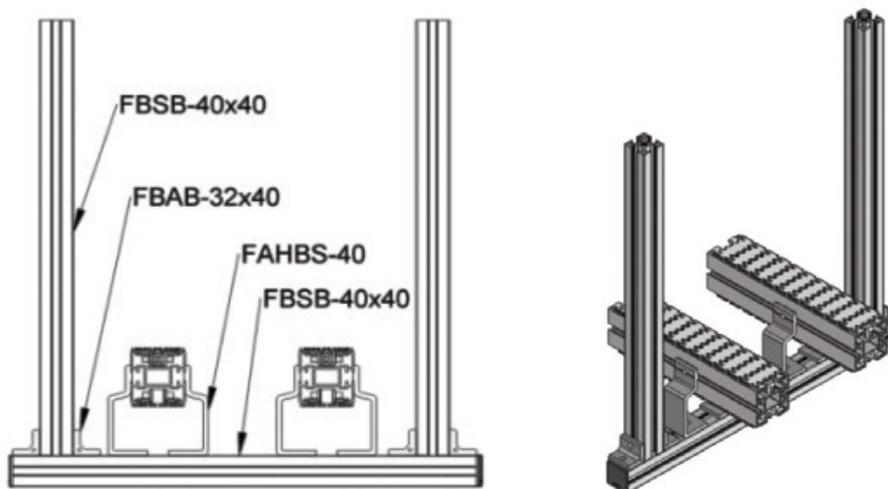
Double Support Structure **FK, FS, FM, FC**



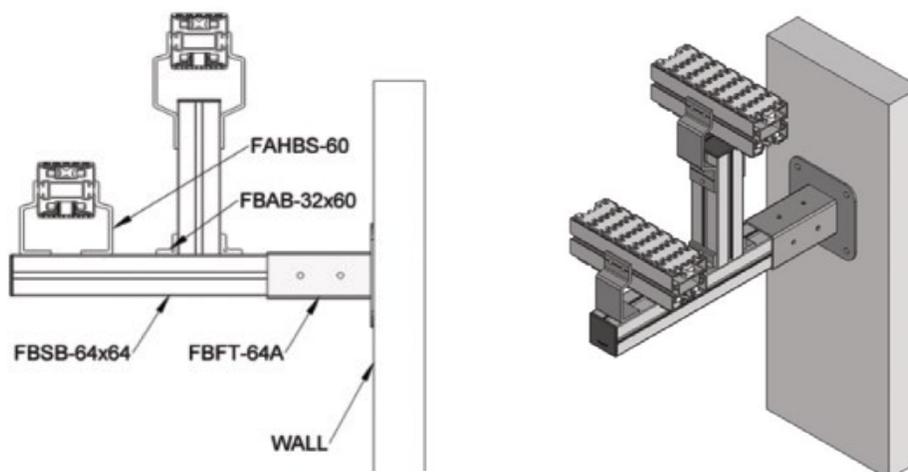
Multi Lane Double Layer Support Structure **FK, FS, FM, FC, FL**



Ceiling Hanger Support Structure **FK, FS, FM, FC, FL**

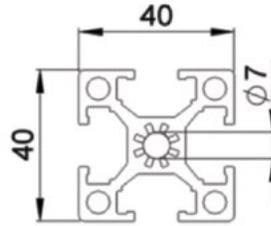
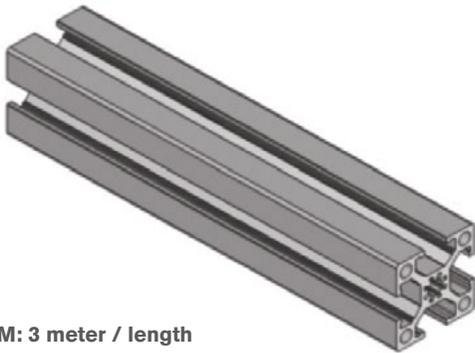


Wall Mount Support Structure **FK, FS, FM, FC**



**FBSB-40x40**

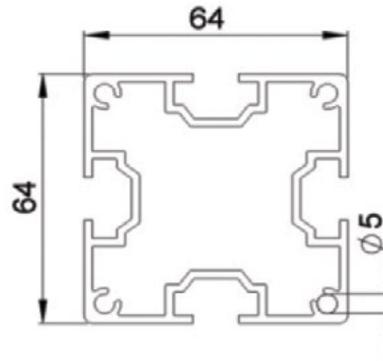
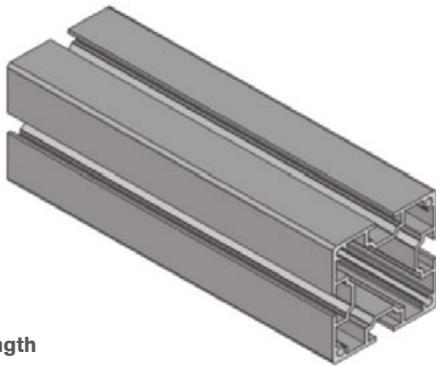
Support Beam 40x40 – Aluminum Anodized



UOM: 3 meter / length

**FBSB-64x64**

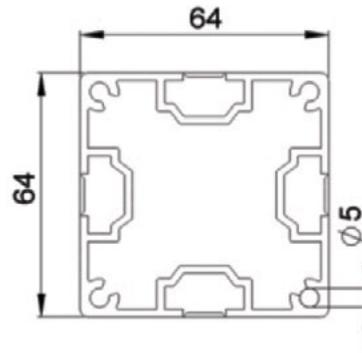
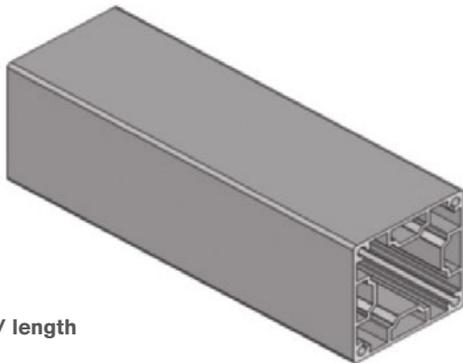
Support Beam 64x64 – Aluminum Anodized



UOM: 3 meter / length

**FBSB-64x64C**

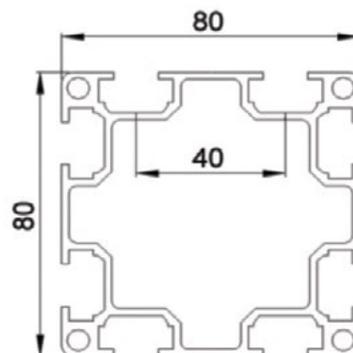
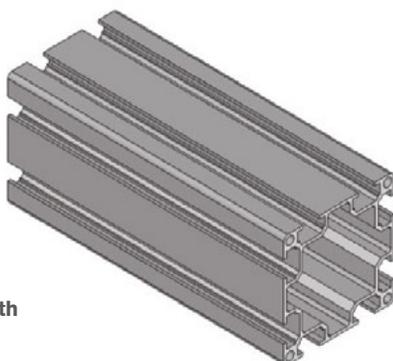
Close slot Support Beam – Aluminum Anodized



UOM: 3 meter / length

**FBSB-80x80**

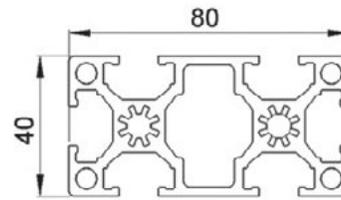
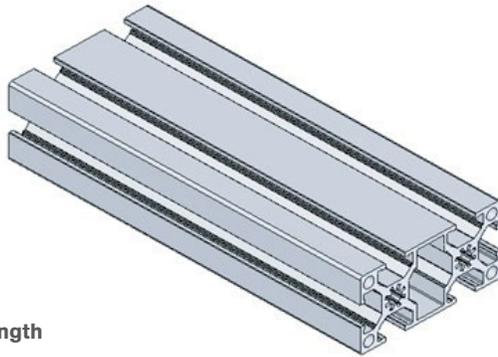
Support Beam 80x80 – Aluminum Anodized



UOM: 3 meter / length

**FBSB-40x80**

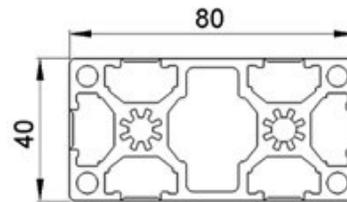
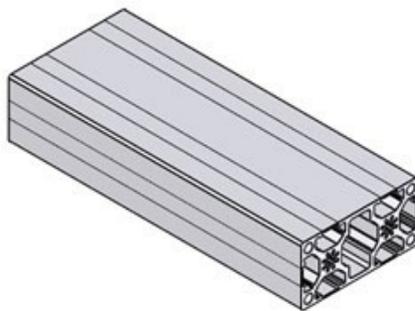
Support Beam – Aluminum Anodized



UOM: 3 meter / length

**FBSB-40x80C**

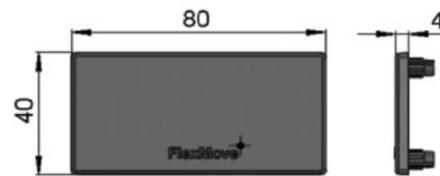
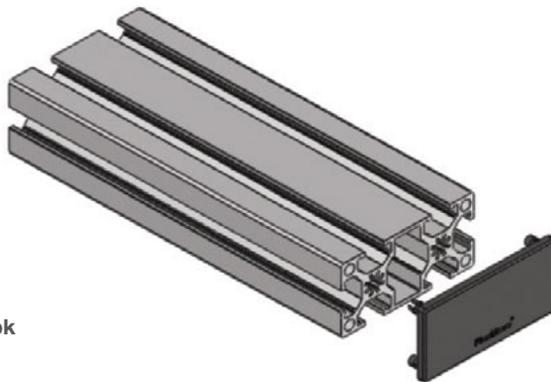
Close Slot Support Beam - Aluminum Anodized



UOM: 3 meter / length

**FBEC-40x80**

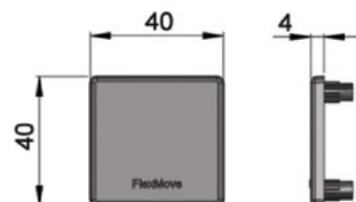
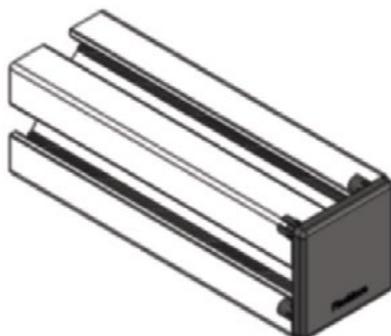
End Cap, 40x80 mm Support Beam - Polyamide



UOM: 10 pcs / pk

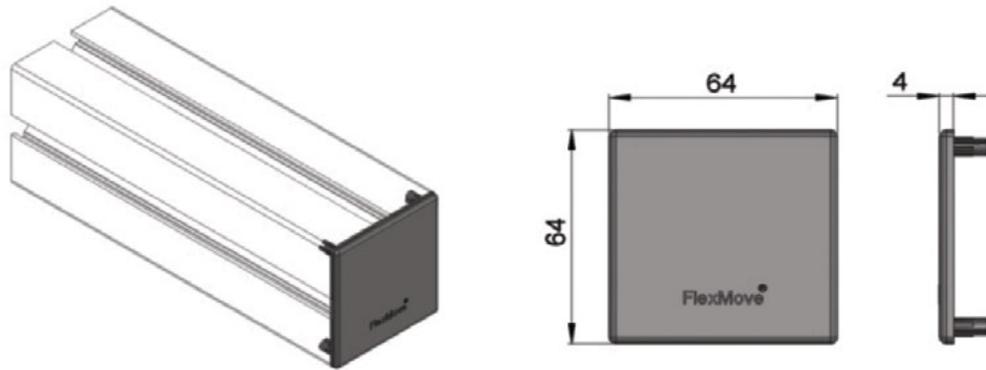
**FBEC-40**

End Cap , 40x40 mm Support Beam - Polyamide



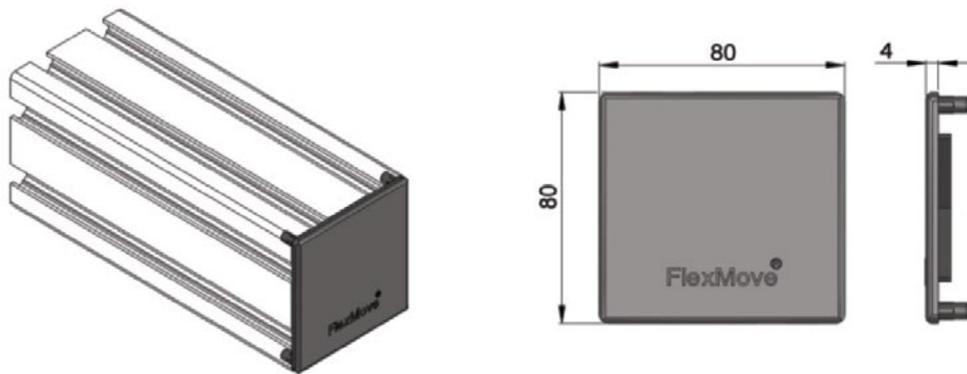
UOM: 10 pcs / pk

**FBEC-64** End cap , 64x64mm Support Beam - Polyamide



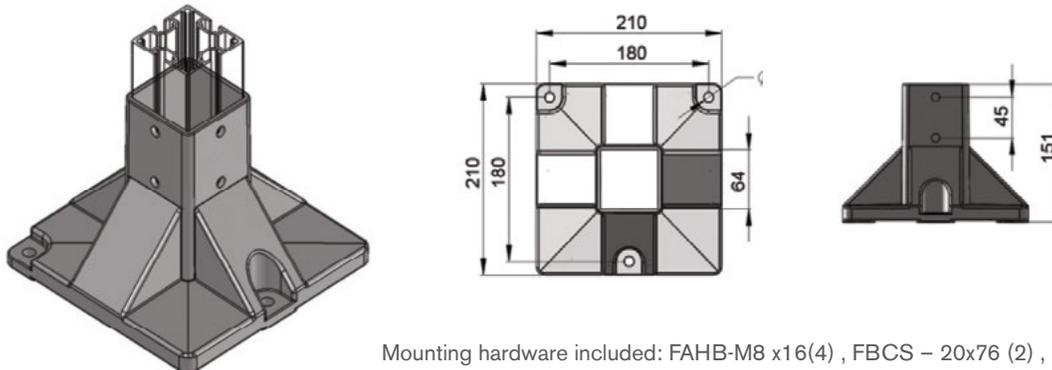
UOM: 10 pcs / pk

**FBEC-80** End cap , 80x80 mm Support Beam - Polyamide



UOM: 10 pcs / pk

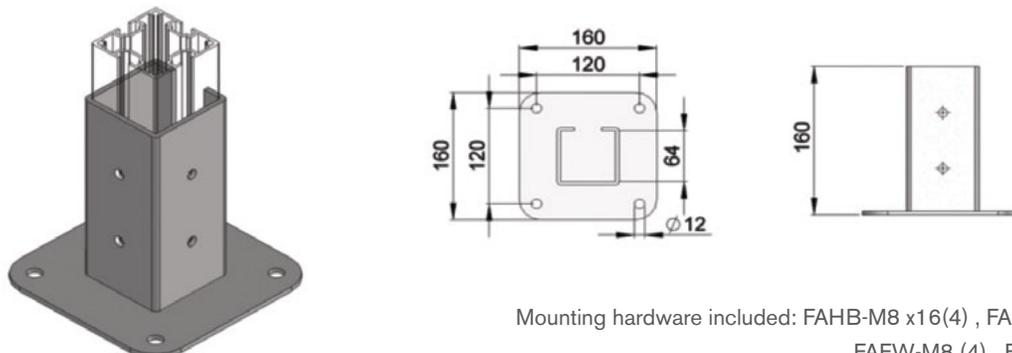
**FBFT-64** Foot For Support Beam 64x64 – Aluminum Die Cast



UOM: pc

Mounting hardware included: FAHB-M8 x16(4) , FBCE – 20x76 (2) , FAFW-M8 (4)

**FBFT-64A** Foot For Support Beam 64x64 – Steel, Powder Coating

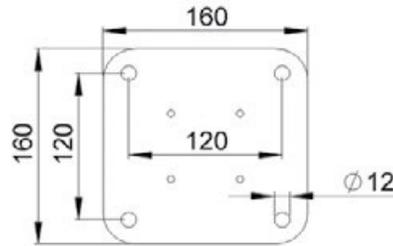
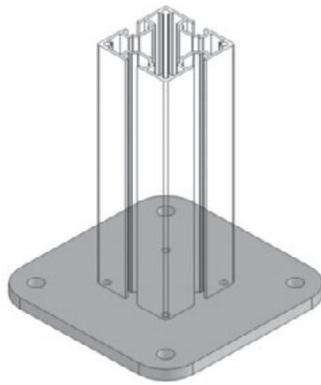


UOM: pc

Mounting hardware included: FAHB-M8 x16(4) , FASN – M8 (4) , FAFW-M8 (4) , FAWP-M10(4)

## FBFT-64B

Foot For Support Beam 64x64 – Aluminum

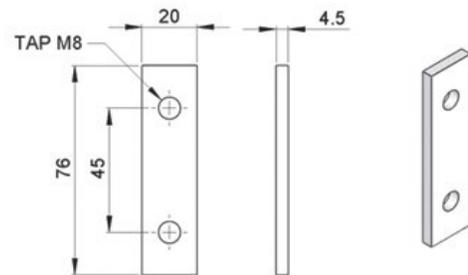
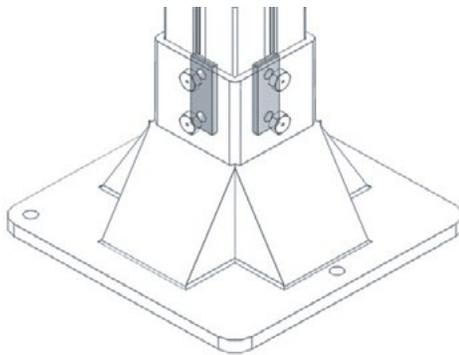


UOM: pc

Mounting: FACS-M6 x 20 (4) , FAWP-M10 (4)

## FBCS-20x76

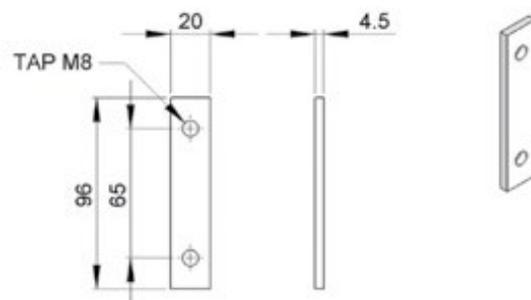
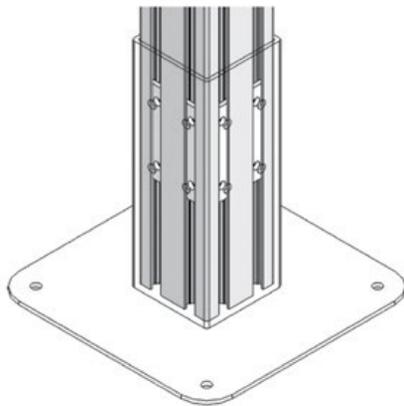
Connecting Strip For Foot – Steel, Electro Zinc Plated



UOM: 10pcs / pk

## FBCS-20x96

Connecting Strip For Foot 80x80 mm– Steel, Electro Zinc Plated

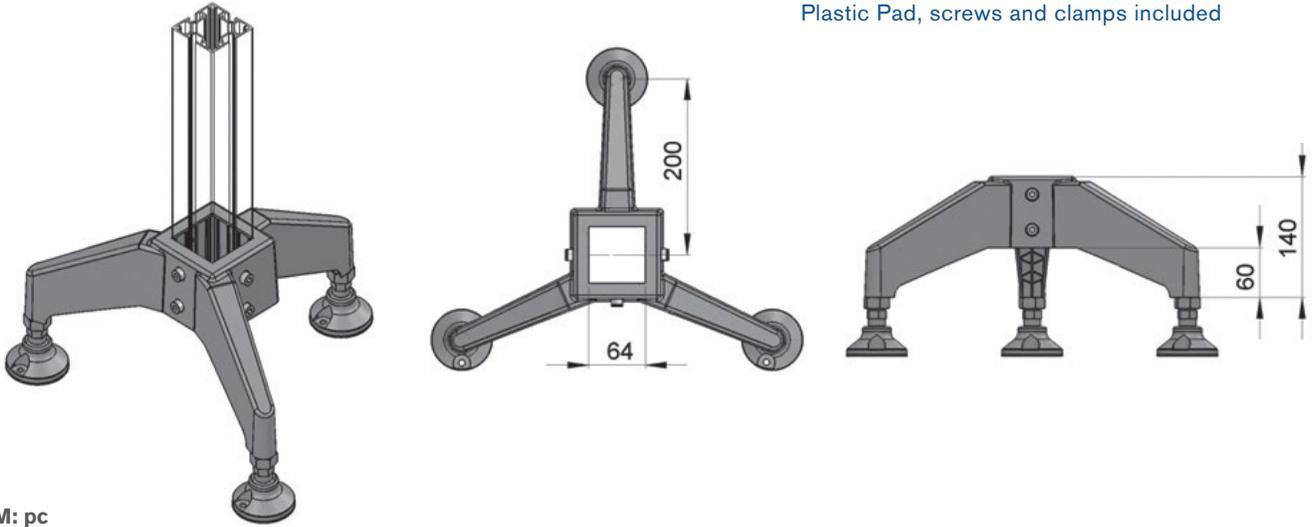


UOM: pc

**FBFT-64TP**

Tripod Foot For FBSB-64x64 - Polyamide , Glass Fiber reinforced

Plastic Pad, screws and clamps included

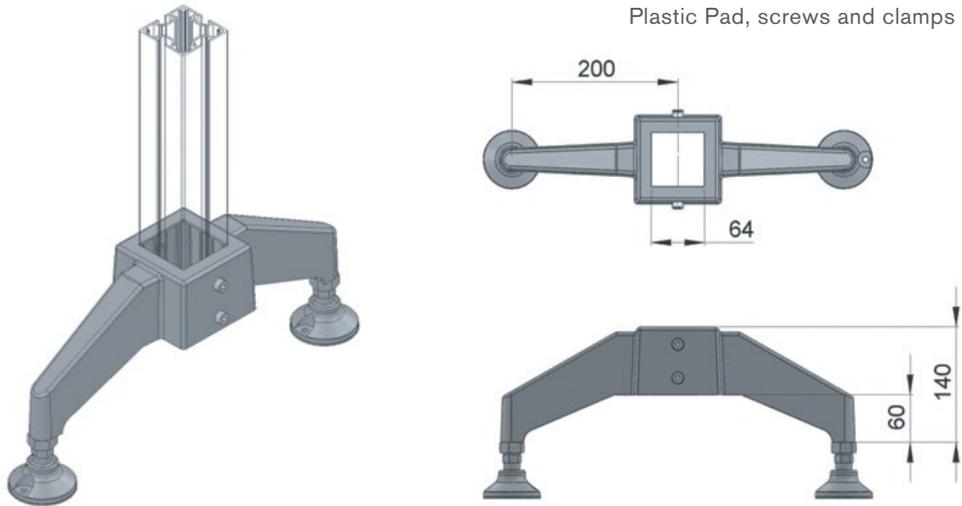


UOM: pc

**FBFT-64BP**

Bipod Foot For FBSB-64x64 - Polyamide , Glass Fiber reinforced

Plastic Pad, screws and clamps included

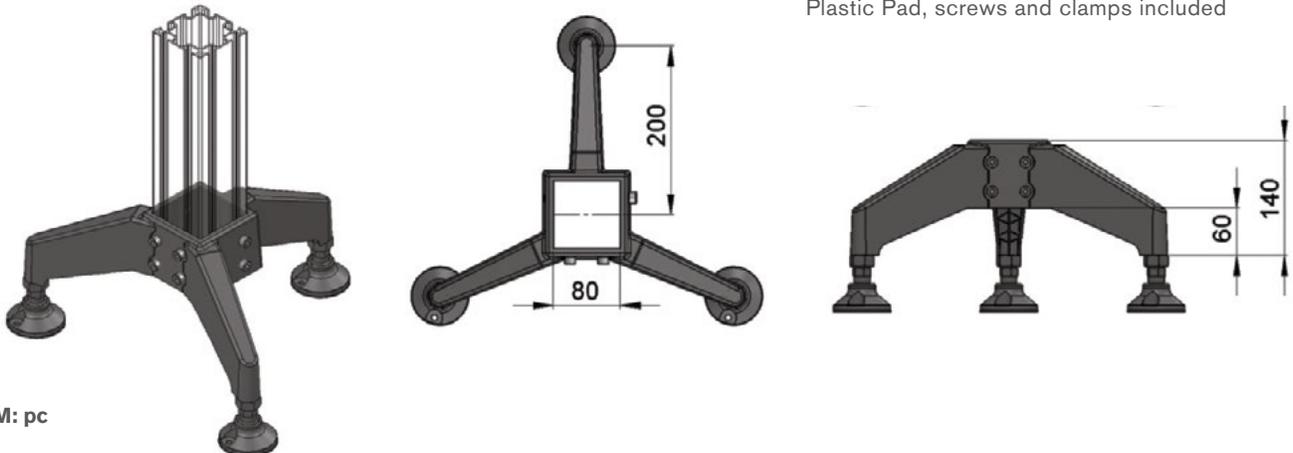


UOM: pc

**FBFT-80TP**

Tripod Foot For FBSB-80x80 - Polyamide, Glass Fiber reinforced

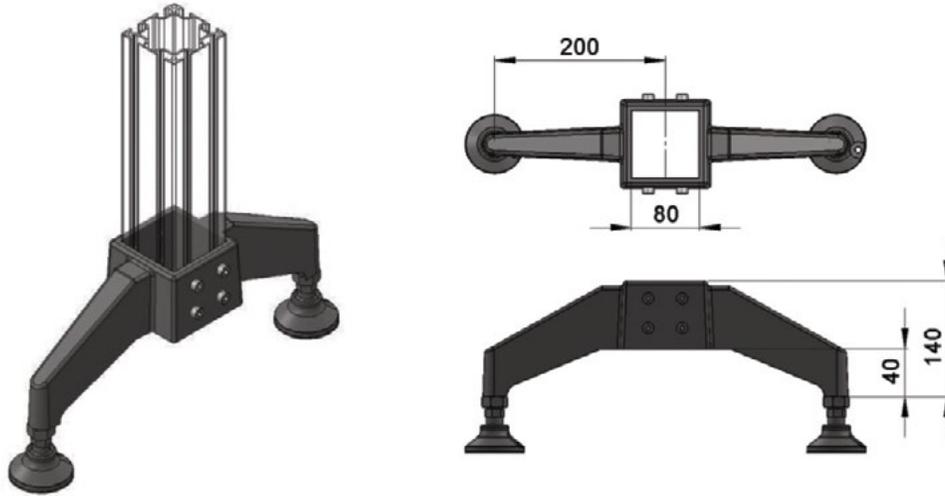
Plastic Pad, screws and clamps included



UOM: pc

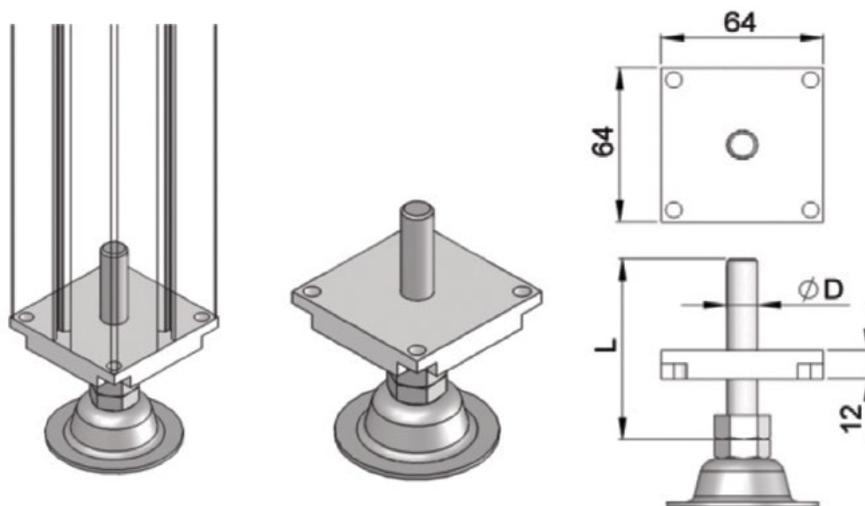
**FBFT-80BP** Bipod Foot For FBSB-80x80 - Polyamide , Glass Fiber reinforced

Plastic Pad, screws and clamps included



UOM: pc

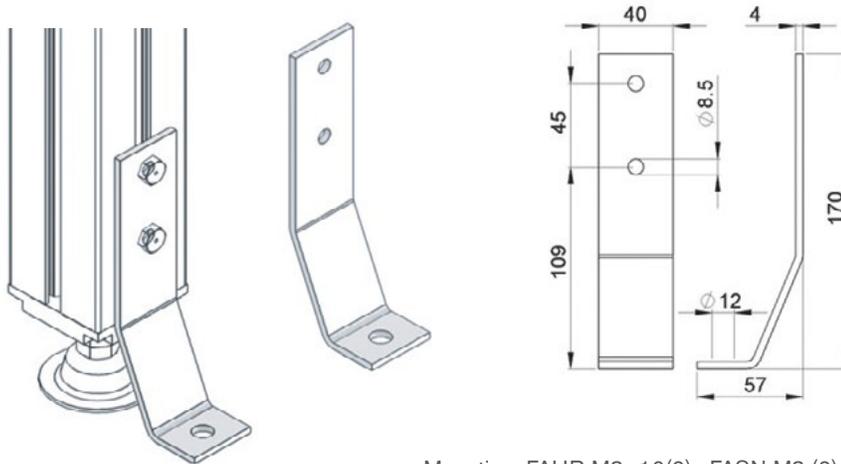
|                     |   |
|---------------------|---|
| <b>FBFT-64xM8</b>   | End Plate for Support Beam 64x64- Aluminum & Adjustable stand - D=M8, L=50 – Zinc Plated      |
| <b>FBFT-64xM10</b>  | End Plate for Support Beam 64x64- Aluminum & Adjustable stand - D=M10, L=75 – Zinc Plated     |
| <b>FBFT-64xM12</b>  | End Plate for Support Beam 64x64- Aluminum & Adjustable stand - D=M12, L=75 – Zinc Plated     |
| <b>FBFT-64xM8S</b>  | End Plate for Support Beam 64x64- Aluminum & Adjustable stand - D=M8, L=50 – Stainless Steel  |
| <b>FBFT-64xM10S</b> | End Plate for Support Beam 64x64- Aluminum & Adjustable stand - D=M10, L=75 – Stainless Steel |
| <b>FBFT-64xM12S</b> | End Plate for Support Beam 64x64- Aluminum & Adjustable stand - D=M12, L=75 – Stainless Steel |



UOM: pc

**FBFT-170** Floor Attachment Bracket – Steel, Zinc Plated

**FBFT-170S** Floor Attachment Bracket – Stainless Steel

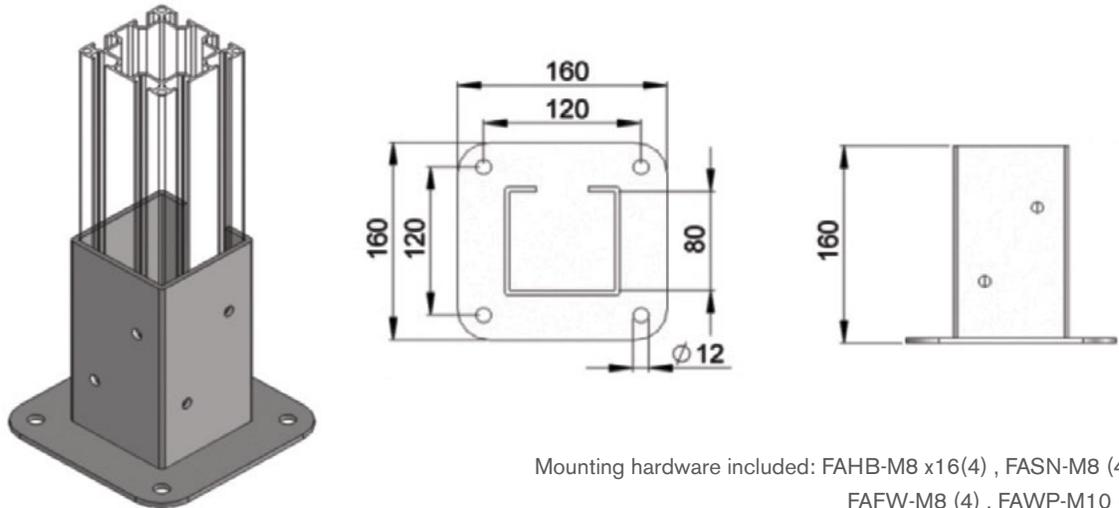


**UOM:** pc

Mounting: FAHB-M8 x16(2) , FASN-M8 (2) , FAFW-M8 (3) , FAWP-M10 (1)

Foot For Support Beam 80x80 – Steel, Powder Coating

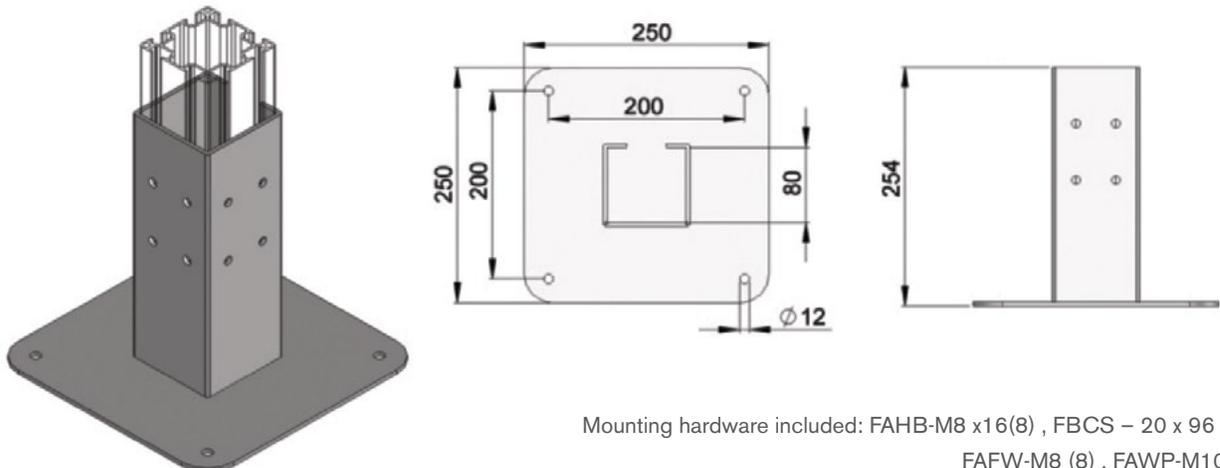
**FBFT-80A** Foot For Support Beam 80x80 – Steel, Powder Coating



**UOM:** pc

Mounting hardware included: FAHB-M8 x16(4) , FASN-M8 (4) , FAFW-M8 (4) , FAWP-M10 (4)

**FBFT-80B** Foot For Support Beam 80x80 – Steel, Powder Coating

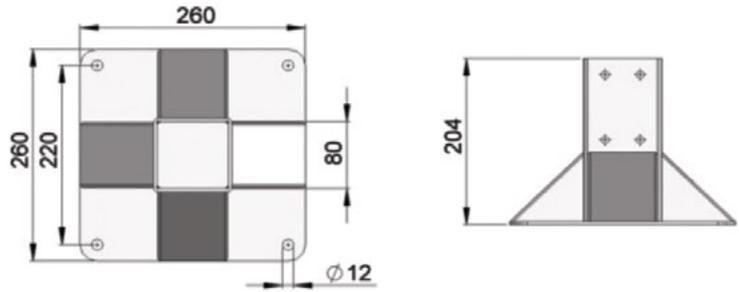
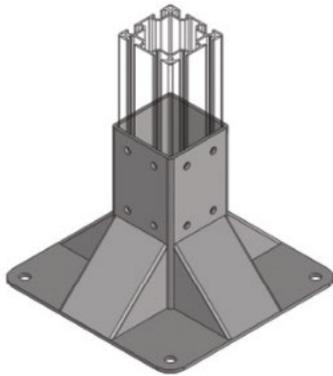


**UOM:** pc

Mounting hardware included: FAHB-M8 x16(8) , FBCS – 20 x 96 (4), FAFW-M8 (8) , FAWP-M10(4)

**FBFT-80D**

Foot For Support Beam 80x80 – Steel, Powder Coating

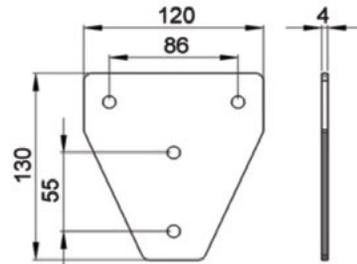
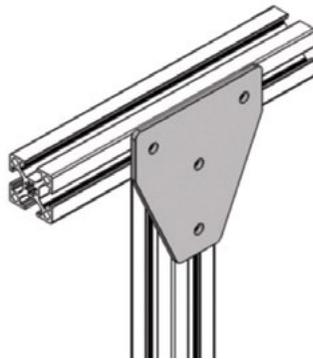


UOM: pc

Mounting: FAHB-M8 x16(8) , FBCS – 20 x 96 (4) , FAFW-M8 (8) , FAWP-M10 (4)

**FBCP-40T**

T Connecting Plate for Support Beam 40x40- Steel, Zinc Plated

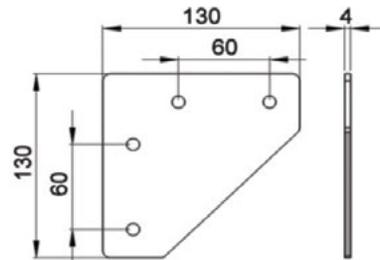
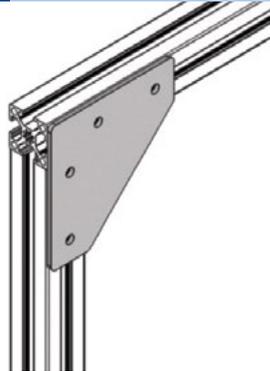


UOM: pc

Mounting: FAHB-M8 x16(4) , FASN-M8 (4) , FAFW-M8 (4)

**FBCP-40L**

L Connecting Plate for Support Beam 40x40- Steel, Zinc Plated

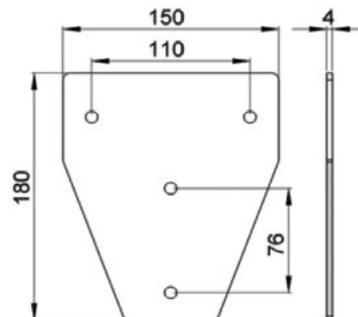
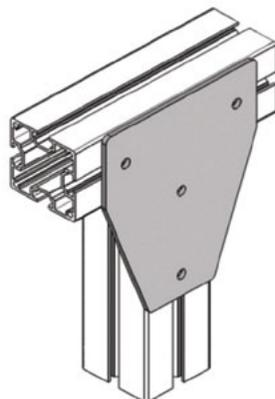


UOM: pc

Mounting: FAHB-M8 x16(4) , FASN-M8 (4) , FAFW-M8 (4)

**FBCP-64T**

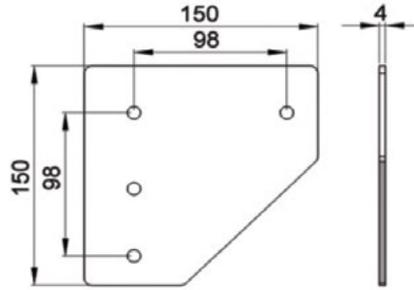
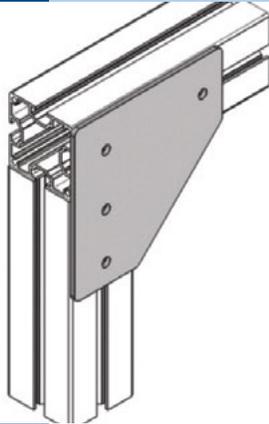
T connecting Plate for Support Beam 64x64 – Steel, Zinc Plated



UOM: pc

Mounting: FAHB-M8 x16(4) , FASN-M8 (4) , FAFW-M8 (4)

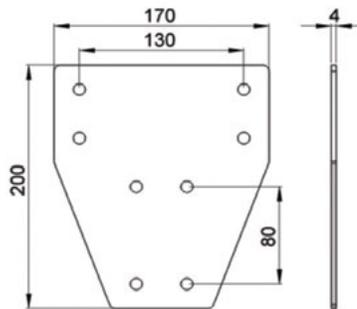
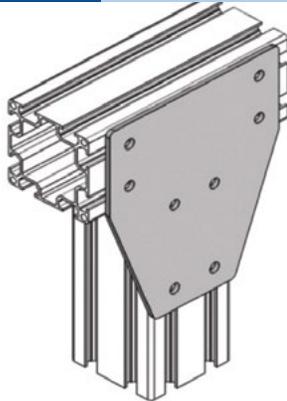
**FBCP-64L** L Connecting Plate for Support Beam 64x64- Steel, Zinc Plated



UOM: pc

Mounting: FAHB-M8 x16(4) , FASN-M8 (4) , FAFW-M8 (4)

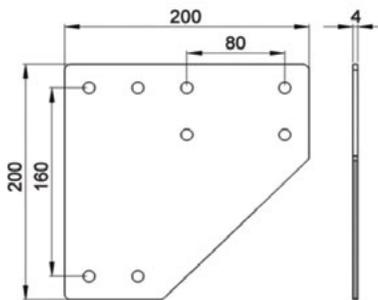
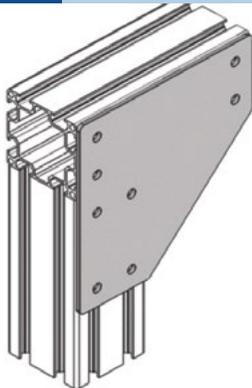
**FBCP-80T** T connecting Plate for Support Beam 80x80 – Steel, Zinc Plated



UOM: pc

Mounting: FAHB-M8 x16(8) , FASN-M8 (8) , FAFW-M8 (8)

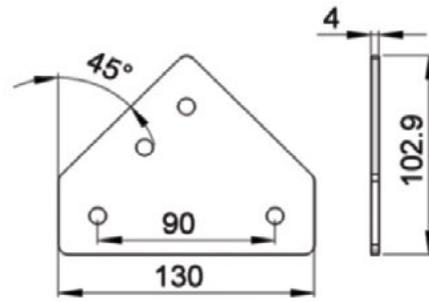
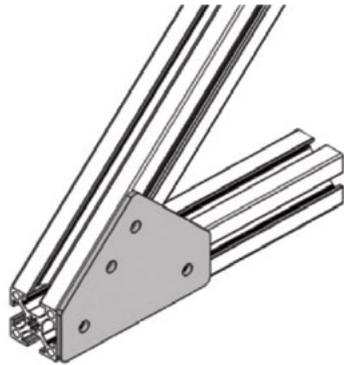
**FBCP-80L** L Connecting Plate for Support Beam 80x80- Steel, Zinc Plated



UOM: pc

Mounting: FAHB-M8 x16(8) , FASN-M8 (8) , FAFW-M8 (8)

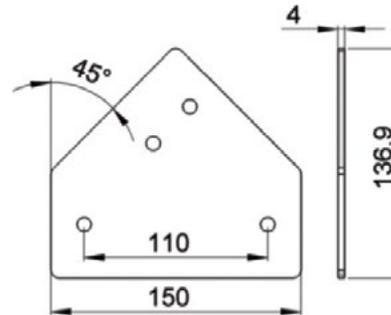
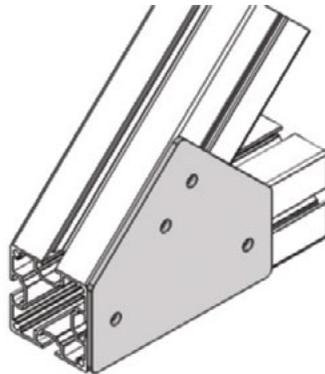
**FBCP-40V** 45° connecting Plate for Support Beam 40x40 – Steel, Zinc Plated



UOM: pc

Mounting: FAHB-M8 x16(4) , FASN-M8 (4) , FAFW-M8 (4)

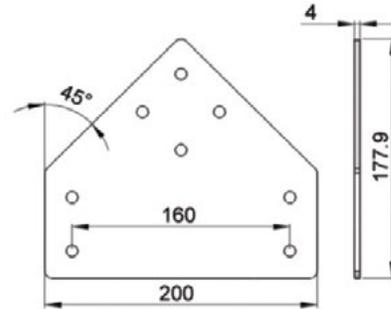
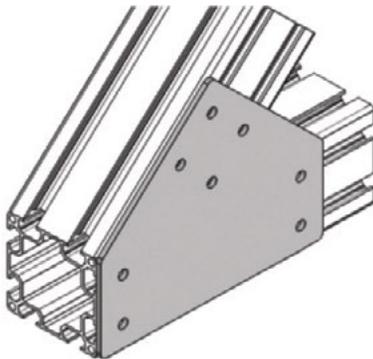
**FBCP-64V** 45° connecting Plate for Support Beam 64x64 – Steel, Zinc Plated



UOM: pc

Mounting: FAHB-M8 x16(4) , FASN-M8 (4) , FAFW-M8 (4)

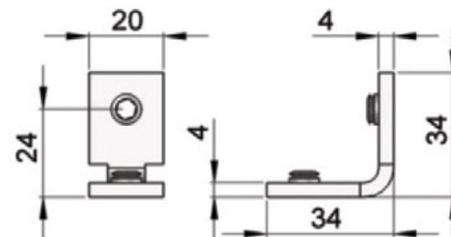
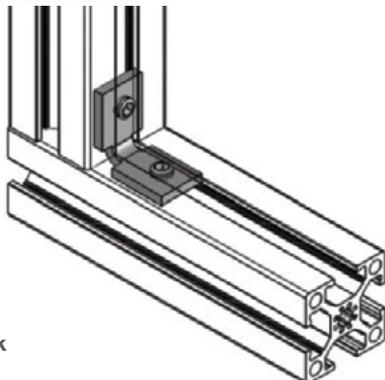
**FBCP-80V** 45° connecting Plate for Support Beam 80x80 – Steel, Zinc Plated



UOM: pc

Mounting: FAHB-M8 x16(8) , FASN-M8 (8) , FAFW-M8 (8)

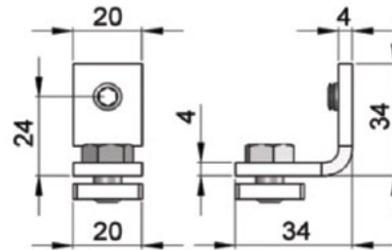
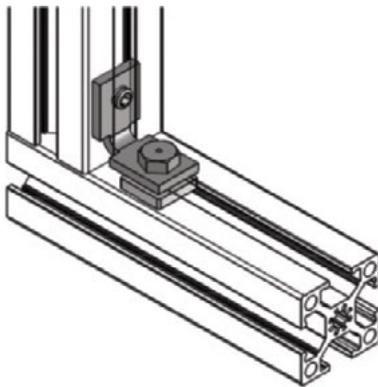
**FBRX-20A** 90° Inner Joint Strip – Steel, Zinc Plated



UOM: 10 pcs / pk

### FBRX-20B

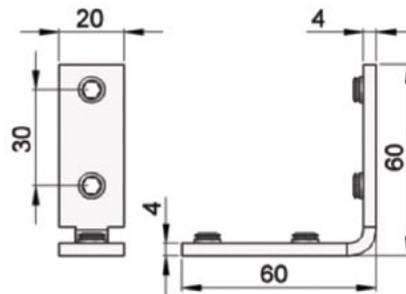
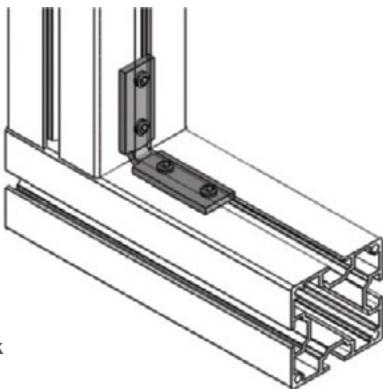
90° Outer Joint Strip – Steel, Zinc Plated



UOM: 10 pcs / pk

### FBRX-20C

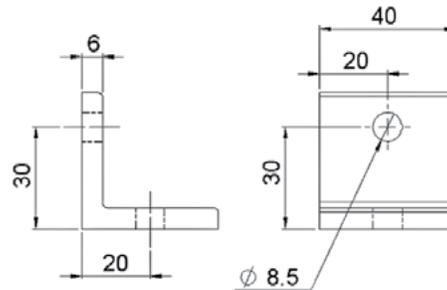
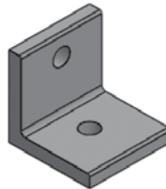
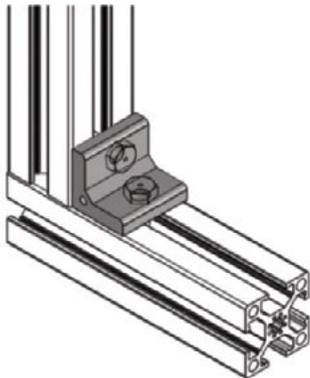
90° Inner Joint Strip – Steel, Zinc Plated



UOM: 10 pcs / pk

### FBAB-40x40

Angle Bracket for Support Beam 40x40 - Aluminum

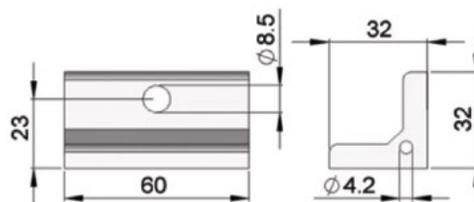
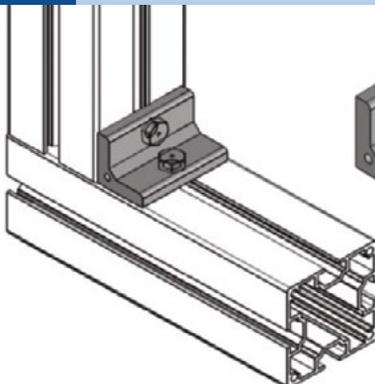


UOM: pc

Mounting: FAHB-M8 x20(2) , FASN-M8 (2) , FAFW-M8 (2)

### FBAB-32x60

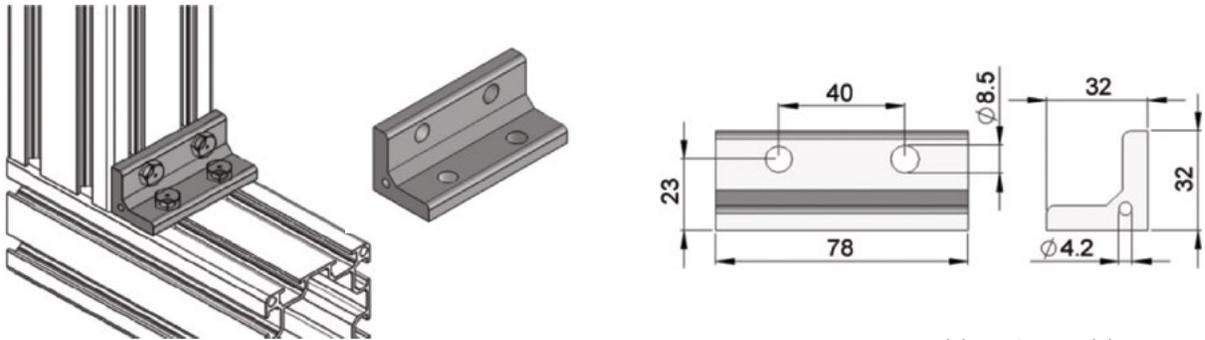
Angle Bracket for Support Beam 64x64 - Aluminum



UOM: pc

Mounting: FAHB-M8 x20 (2) , FASN-M8 (2) , FAFW-M8 (2)

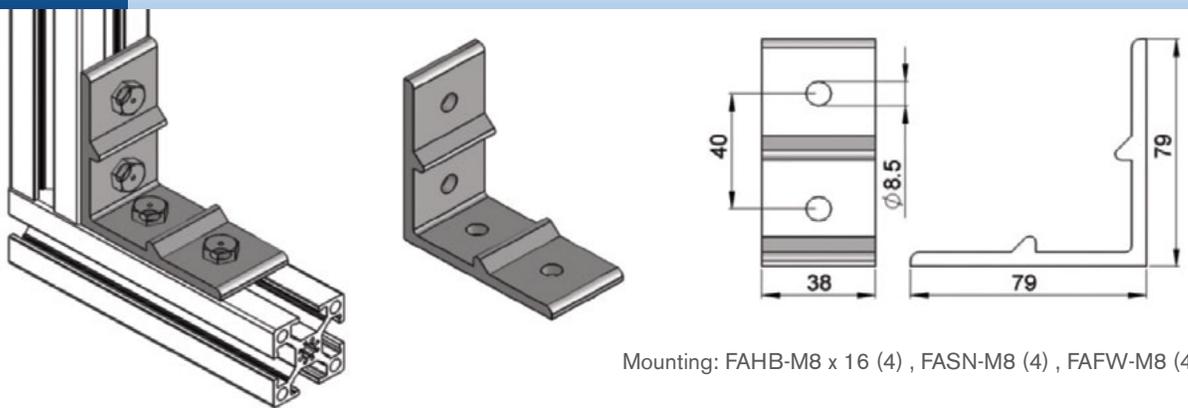
**FBAB-32x80** Angle Bracket for Support Beam 80x80 - Aluminum



UOM: pc

Mounting: FAHB-M8 x20 (4) , FASN-M8 (4) , FAFW-M8 (4)

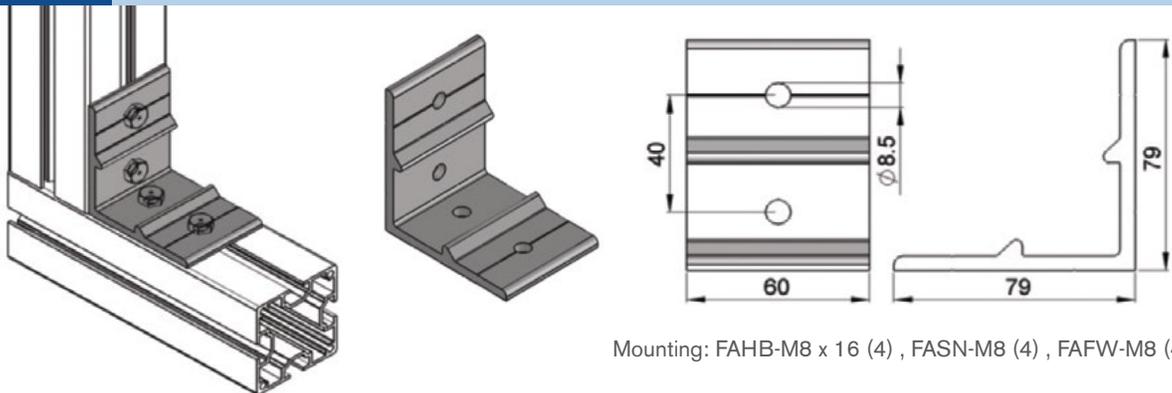
**FBAB-40L** Angle Bracket for Support Beam 40x40 - Aluminum



UOM: pc

Mounting: FAHB-M8 x 16 (4) , FASN-M8 (4) , FAFW-M8 (4)

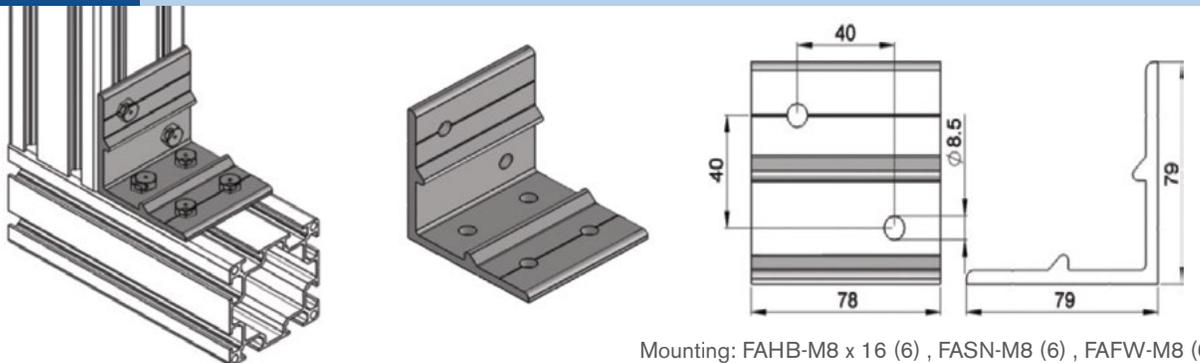
**FBAB-60L** Angle Bracket for Support Beam 64x64 - Aluminum



UOM: pc

Mounting: FAHB-M8 x 16 (4) , FASN-M8 (4) , FAFW-M8 (4)

**FBAB-80L** Angle Bracket for Support Beam 80x80 - Aluminum

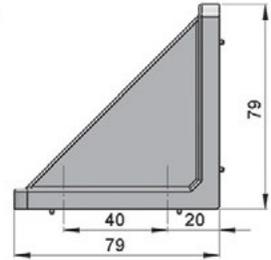
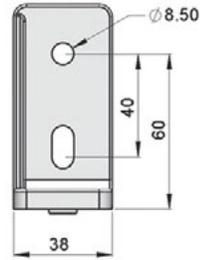
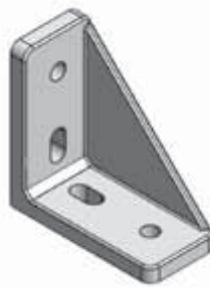
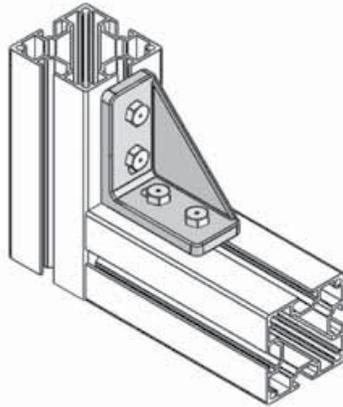


UOM: pc

Mounting: FAHB-M8 x 16 (6) , FASN-M8 (6) , FAFW-M8 (6)

## FBAB-40x80A

Angle Bracket for Support Beam 40x40, 64x64, 40x80 - Aluminum Die Cast

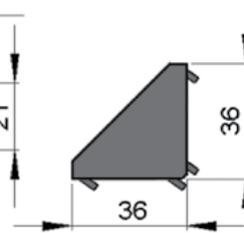
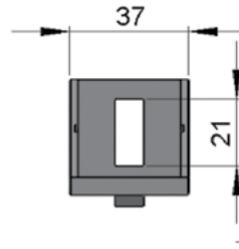
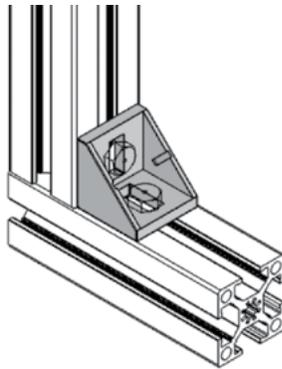


UOM: pc

Mounting: FAHB-M8 x 20 (4) , FASN-M8 (4) , FAFW-M8 (4)

## FBAB-40x40A

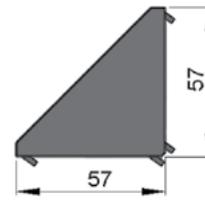
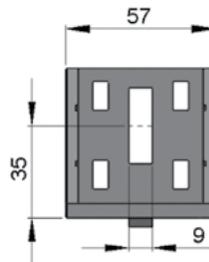
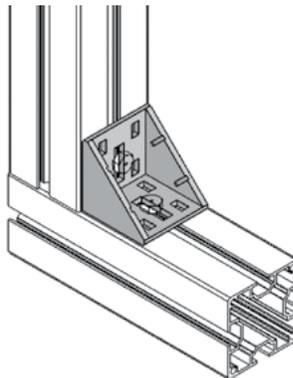
Angle Bracket for Support Beam 40x40 - Aluminum Die Cast



UOM: pc

## FBAB-64x64A

Angle Bracket for Support Beam 64x64 - Aluminum Die Cast

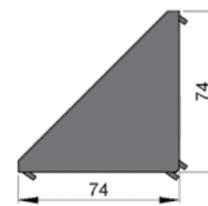
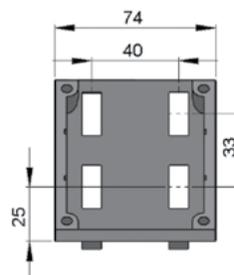
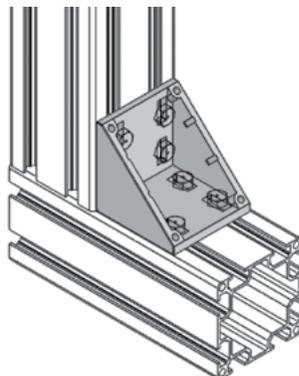


UOM: pc

Mounting: FAHB-M8 x20(2) , FASN-M8 (2) , FAFW-M8 (2)

## FBAB-80x80A

Angle Bracket for Support Beam 80x80 - Aluminum Die Cast

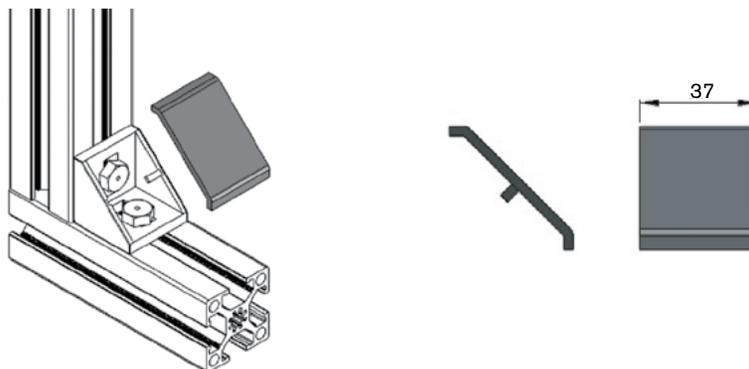


UOM: pc

Mounting: FAHB-M8 x20 (2) , FASN-M8 (2) , FAFW-M8 (2)

## FBEC-40x40A

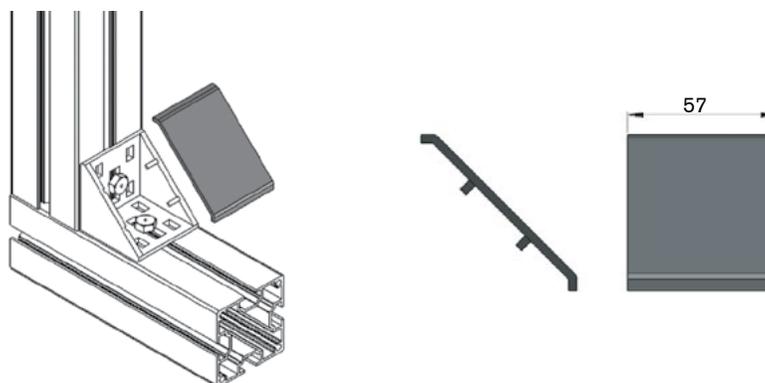
End Cap for FBAB-40x40A angle bracket - Polyamide



UOM: pc

## FBEC-64x64A

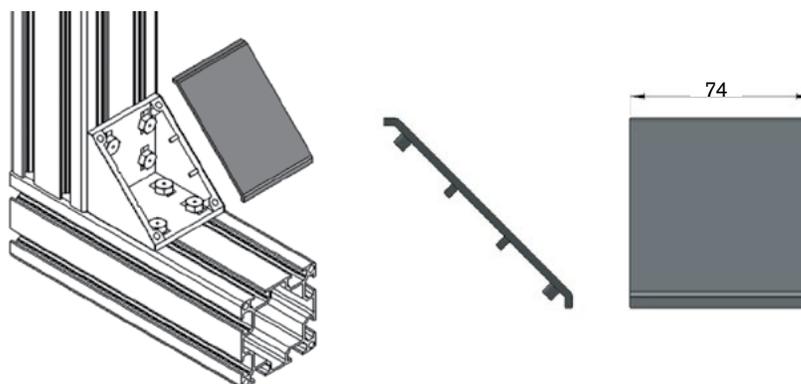
End Cap for FBAB-64x64A angle bracket - Polyamide



UOM: pc

## FBEC-80x80A

End Cap for FBAB-80x80A angle bracket - Polyamide

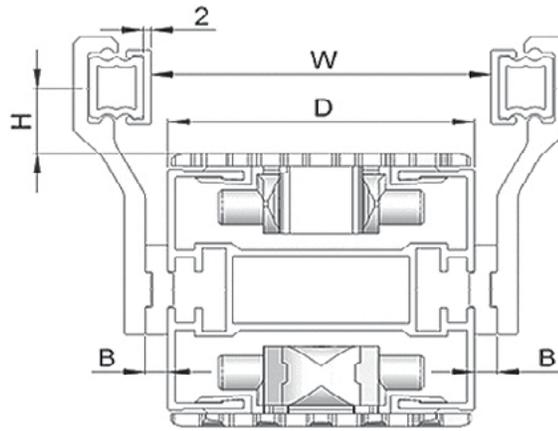
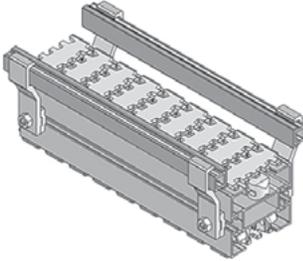


UOM: pc

### FGRB-16x54

#### Fixed Guide Rail Assembly

#### FGRB-16x54 Assembly



**B Spacer = FGRD-6**

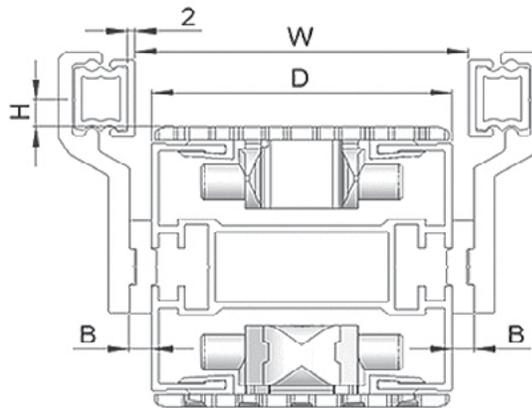
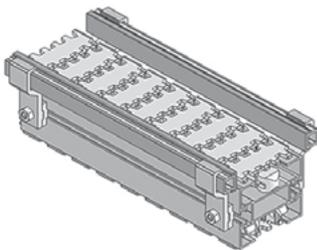
See page 206  
for components

| Guide Rail Bracket | Series | D (mm) | H (mm) | W (mm)<br>B = 0 | W (mm)<br>B = 6.3 | W (mm)<br>B = 12.6 | W (mm)<br>B = 18.9 |
|--------------------|--------|--------|--------|-----------------|-------------------|--------------------|--------------------|
| FGRB-16X54         | FK     | 45     | 26     | 41.7            | 54.3              | 66.9               | 79.5               |
| FGRB-16X54         | FS     | 65     | 26     | 61.7            | 74.3              | 86.9               | 99.5               |
| FGRB-16X54         | FM     | 85     | 20     | 81.7            | 94.3              | 106.9              | 119.5              |
| FGRB-16X54         | FC     | 105    | 20     | 101.7           | 114.3             | 126.9              | 139.5              |
| FGRB-16X54         | FL     | 150    | 20     | 146.7           | 159.3             | 171.9              | 184.5              |
| FGRB-16X54         | FU     | 179    | 20     | 175.7           | 188.3             | 200.9              | 213.5              |
| FGRB-16X54         | FV     | 260    | 20     | 256.7           | 269.3             | 281.9              | 294.5              |

### FGRB-16x42

#### Fixed Guide Rail Assembly

#### FGRB-16x42 Assembly



**B Spacer = FGRD-6**

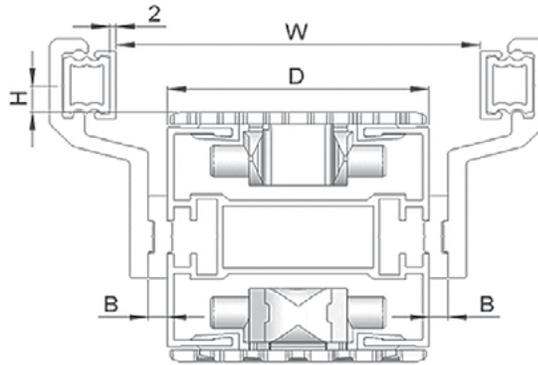
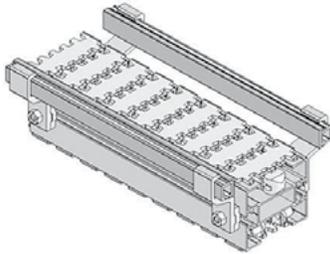
See page 206  
for components

| Guide Rail Bracket | Series | D (mm) | H (mm) | W (mm)<br>B = 0 | W (mm)<br>B = 6.3 | W (mm)<br>B = 12.6 | W (mm)<br>B = 18.9 |
|--------------------|--------|--------|--------|-----------------|-------------------|--------------------|--------------------|
| FGRB-16X42         | FK     | 45     | 14     | 41.7            | 54.3              | 66.9               | 79.5               |
| FGRB-16X42         | FS     | 65     | 14     | 61.7            | 74.3              | 86.9               | 99.5               |
| FGRB-16X42         | FM     | 85     | 8      | -               | 94.3              | 106.9              | 119.5              |
| FGRB-16X42         | FC     | 105    | 8      | -               | 114.3             | 126.9              | 139.5              |
| FGRB-16X42         | FL     | 150    | 8      | -               | 159.3             | 171.9              | 184.5              |
| FGRB-16X42         | FU     | 179    | 8      | -               | 188.3             | 200.9              | 213.5              |
| FGRB-16X42         | FV     | 260    | 8      | -               | 269.3             | 281.9              | 294.5              |

## FGRB-28x42

### Fixed Guide Rail Assembly

#### FGRB-28x42 Assembly



**B Spacer = FGRD-6**

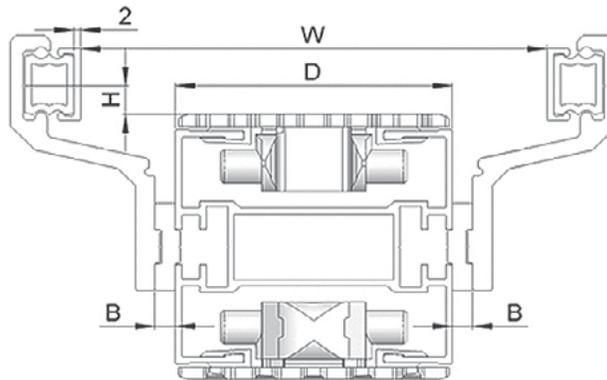
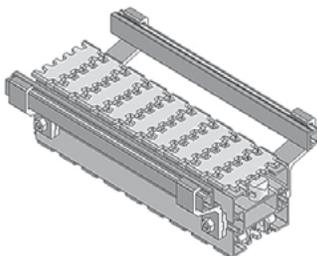
See page 206  
for components

| Guide Rail Bracket | Series | D (mm) | H (mm) | W (mm)<br>B = 0 | W (mm)<br>B = 6.3 | W (mm)<br>B = 12.6 | W (mm)<br>B = 18.9 |
|--------------------|--------|--------|--------|-----------------|-------------------|--------------------|--------------------|
| FGRB-28X42         | FK     | 45     | 14     | 65.8            | 78.4              | 91                 | 103.6              |
| FGRB-28X42         | FS     | 65     | 14     | 85.8            | 98.4              | 111                | 123.6              |
| FGRB-28X42         | FM     | 85     | 8      | 105.8           | 118.4             | 131                | 143.6              |
| FGRB-28X42         | FC     | 105    | 8      | 125.8           | 138.4             | 151                | 163.6              |
| FGRB-28X42         | FL     | 150    | 8      | 170.8           | 183.4             | 196                | 208.6              |
| FGRB-28X42         | FU     | 179    | 8      | 199.8           | 212.4             | 225                | 237.6              |
| FGRB-28X42         | FV     | 260    | 8      | 280.8           | 293.4             | 306                | 318.6              |

## FGRB-40x42

### Fixed Guide Rail Assembly

#### FGRB-40x42 Assembly



**B Spacer = FGRD-6**

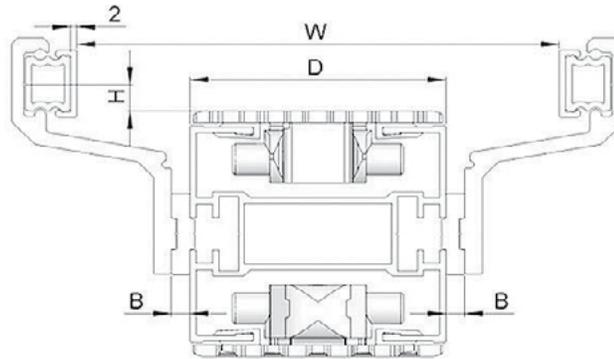
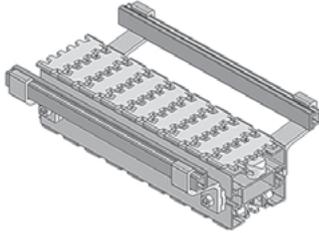
See page 206  
for components

| Guide Rail Bracket | Series | D (mm) | H (mm) | W (mm)<br>B = 0 | W (mm)<br>B = 6.3 | W (mm)<br>B = 12.6 | W (mm)<br>B = 18.9 |
|--------------------|--------|--------|--------|-----------------|-------------------|--------------------|--------------------|
| FGRB-40X42         | FK     | 45     | 14     | 90.6            | 103.2             | 115.8              | 128.4              |
| FGRB-40X42         | FS     | 65     | 14     | 110.6           | 123.2             | 135.8              | 148.4              |
| FGRB-40X42         | FM     | 85     | 8      | 130.6           | 143.2             | 155.8              | 168.4              |
| FGRB-40X42         | FC     | 105    | 8      | 150.6           | 163.2             | 175.8              | 188.4              |
| FGRB-40X42         | FL     | 150    | 8      | 195.6           | 163.2             | 220.8              | 233.4              |
| FGRB-40X42         | FU     | 179    | 8      | 224.6           | 237.2             | 249.8              | 262.4              |
| FGRB-40X42         | FV     | 260    | 8      | 305.6           | 318.2             | 330.8              | 343.4              |

## FGRB-49x42

## Fixed Guide Rail Assembly

### FGRB-49x42 Assembly



**B Spacer = FGRD-6**

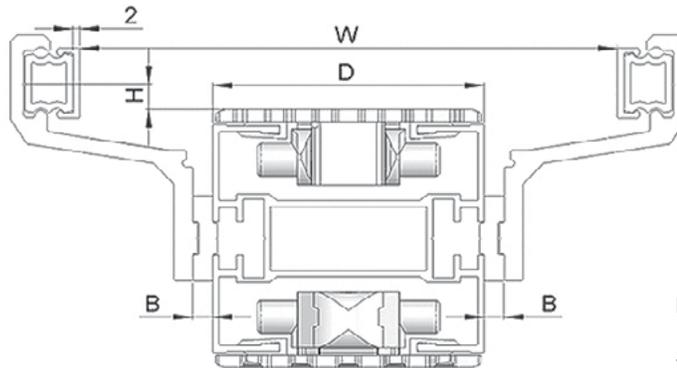
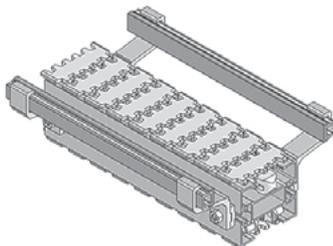
See page 207  
for components

| Guide Rail Bracket | Series | D (mm) | H (mm) | W (mm)<br>B = 0 | W (mm)<br>B = 6.3 | W (mm)<br>B = 12.6 | W (mm)<br>B = 18.9 |
|--------------------|--------|--------|--------|-----------------|-------------------|--------------------|--------------------|
| FGRB-49X42         | FK     | 45     | 14     | 107.8           | 120.4             | 133                | 145.6              |
| FGRB-49X42         | FS     | 65     | 14     | 127.8           | 140.4             | 153                | 165.6              |
| FGRB-49X42         | FM     | 85     | 8      | 147.8           | 160.4             | 173                | 185.6              |
| FGRB-49X42         | FC     | 105    | 8      | 167.8           | 180.4             | 193                | 205.6              |
| FGRB-49X42         | FL     | 150    | 8      | 212.8           | 225.4             | 238                | 250.6              |
| FGRB-49X42         | FU     | 179    | 8      | 241.8           | 254.4             | 267                | 279.6              |
| FGRB-49X42         | FV     | 260    | 8      | 322.8           | 335.4             | 348                | 360.6              |

## FGRB-53x42

## Fixed Guide Rail Assembly

### FGRB-53x42 Assembly



**B Spacer = FGRD-6**

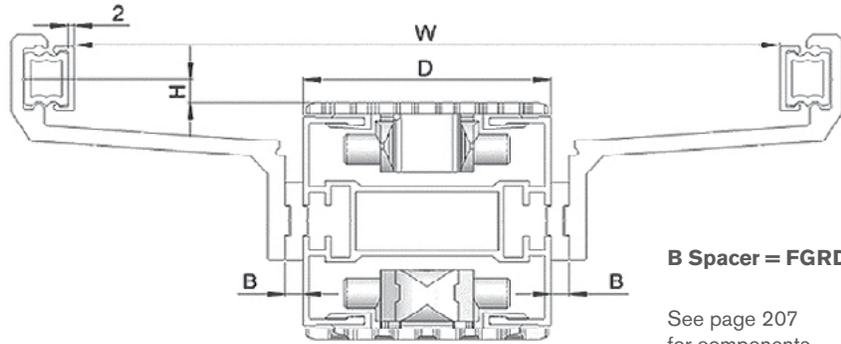
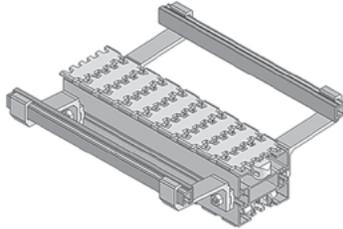
See page 207  
for components

| Guide Rail Bracket | Series | D (mm) | H (mm) | W (mm)<br>B = 0 | W (mm)<br>B = 6.3 | W (mm)<br>B = 12.6 | W (mm)<br>B = 18.9 |
|--------------------|--------|--------|--------|-----------------|-------------------|--------------------|--------------------|
| GRB-53X42          | FK     | 45     | 14     | 115.7           | 128.3             | 140.9              | 153.5              |
| FGRB-53X42         | FS     | 65     | 14     | 135.7           | 148.3             | 160.9              | 173.5              |
| FGRB-53X42         | FM     | 85     | 8      | 155.7           | 168.3             | 180.9              | 193.5              |
| FGRB-53X42         | FC     | 105    | 8      | 175.7           | 188.3             | 200.9              | 213.5              |
| FGRB-53X42         | FL     | 150    | 8      | 220.7           | 233.3             | 245.9              | 258.5              |
| FGRB-53X42         | FU     | 179    | 8      | 249.7           | 262.3             | 274.9              | 287.5              |
| FGRB-53X42         | FV     | 260    | 8      | 330.7           | 343.3             | 355.9              | 368.5              |

## FGRB-90x42

### Fixed Guide Rail Assembly

#### FGRB-90x42 Assembly



**B Spacer = FGRD-6**

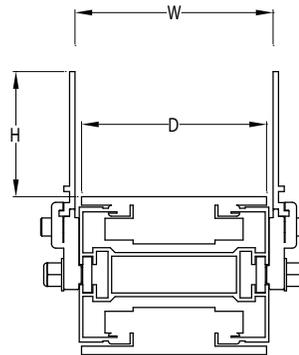
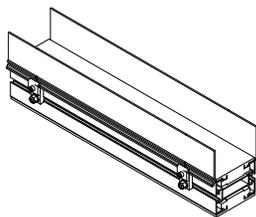
See page 207 for components

| Guide Rail Bracket | Series | D (mm) | H (mm) | W (mm) |         |          |          |
|--------------------|--------|--------|--------|--------|---------|----------|----------|
|                    |        |        |        | B = 0  | B = 6.3 | B = 12.6 | B = 18.9 |
| FGRB-90X42         | FK     | 45     | 14     | 190.3  | 202.9   | 215.5    | 228.1    |
| FGRB-90X42         | FS     | 65     | 14     | 210.3  | 222.9   | 235.5    | 248.1    |
| FGRB-90X42         | FM     | 85     | 8      | 230.3  | 242.9   | 255.5    | 268.1    |
| FGRB-90X42         | FC     | 105    | 8      | 250.3  | 262.9   | 275.5    | 288.1    |
| FGRB-90X42         | FL     | 150    | 8      | 295.3  | 307.9   | 320.5    | 333.1    |
| FGRB-90X42         | FU     | 179    | 8      | 324.3  | 336.9   | 349.5    | 362.1    |
| FGRB-90X42         | FV     | 260    | 8      | 405.3  | 417.9   | 430.5    | 443.1    |

## FGHS-30/FGHS-70

### Fixed High Side Guide Assembly

#### FGHS-30/-70 Assembly



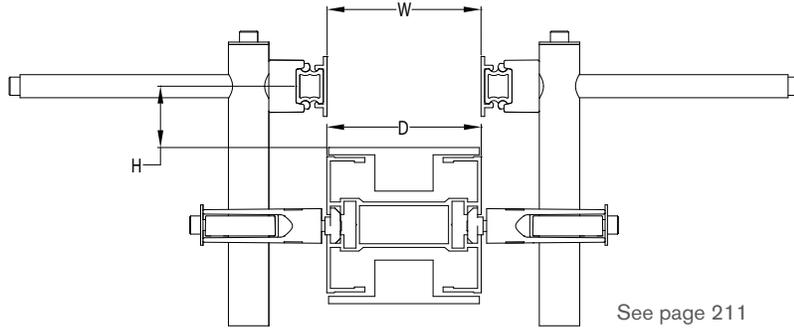
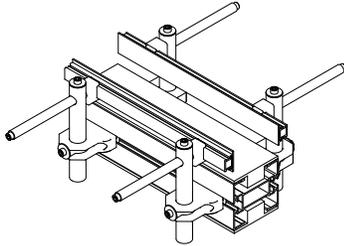
See page 221 for components

| Guide Rail Bracket | Series | D (mm) | FGHS-30 Rail | FGHS-70 Rail | W (mm)<br>B = 0 |
|--------------------|--------|--------|--------------|--------------|-----------------|
|                    |        |        | H (mm)       | H (mm)       |                 |
| FGRD-HS            | FK     | 45     | 37           | 75           | 49              |
| FGRD-HS            | FS     | 65     | 31           | 70           | 69              |
| FGRD-HS            | FM     | 85     | 31           | 70           | 89              |
| FGRD-HS            | FC     | 105    | 31           | 70           | 109             |
| FGRD-HS            | FL     | 150    | 31           | 70           | 159             |
| FGRD-HS            | FU     | 179    | 31           | 70           | 183             |
| FGRD-HS            | FV     | 260    | 31           | 70           | 264             |

## FGRA-22HD

### Heavy Duty Fully Adjustable Guide Assembly

#### FGRA-22HD Assembly



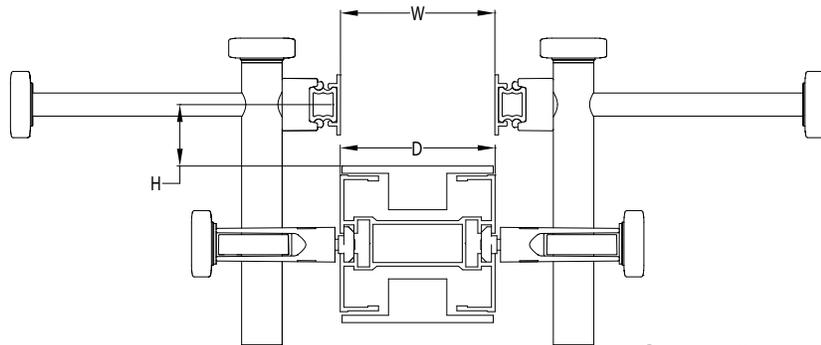
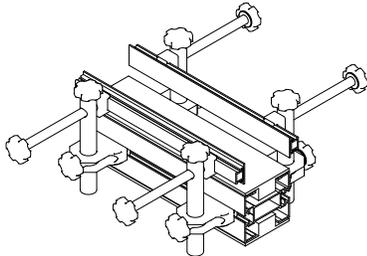
See page 211  
for components

| Bracket Assembly | Series | D (mm) | H (mm) Min | H (mm) Max | W (mm) Min | W (mm) Max |
|------------------|--------|--------|------------|------------|------------|------------|
| FGRA-22HD        | FK     | 45     | 17         | 82         | 0          | 39         |
| FGRA-22HD        | FS     | 65     | 17         | 76         | 0          | 59         |
| FGRA-22HD        | FM     | 85     | 17         | 76         | 0          | 79         |
| FGRA-22HD        | FC     | 105    | 17         | 76         | 0          | 99         |
| FGRA-22HD        | FL     | 150    | 17         | 76         | 0          | 144        |
| FGRA-22HD        | FU     | 179    | 17         | 76         | 0          | 170        |
| FGRA-22HD        | FV     | 260    | 17         | 76         | 30         | 254        |

## FGRA-22HDT

### Heavy Duty Tool-less Fully Adjustable Guide Assembly

#### FGRA-22HDT Assembly



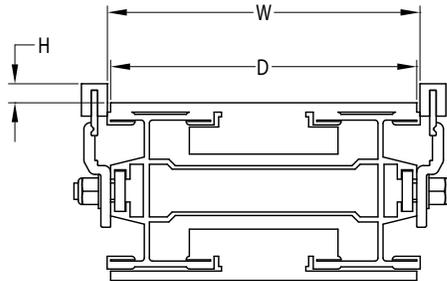
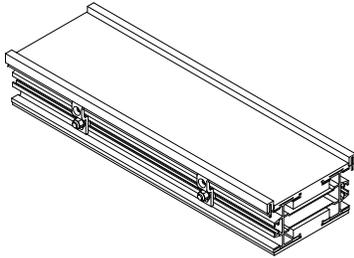
See page 211  
for components

| Bracket Assembly | Series | D (mm) | H (mm) Min | H (mm) Max | W (mm) Min | W (mm) Max |
|------------------|--------|--------|------------|------------|------------|------------|
| FGRA-22HDT       | FK     | 45     | 17         | 82         | 0          | 39         |
| FGRA-22HDT       | FS     | 65     | 17         | 76         | 0          | 59         |
| FGRA-22HDT       | FM     | 85     | 17         | 76         | 0          | 79         |
| FGRA-22HDT       | FC     | 105    | 17         | 76         | 0          | 99         |
| FGRA-22HDT       | FL     | 150    | 17         | 76         | 0          | 144        |
| FGRA-22HDT       | FU     | 179    | 17         | 76         | 0          | 170        |
| FGRA-22HDT       | FV     | 260    | 17         | 76         | 30         | 254        |

## FGPG-A/FGPG-U

## Pallet/Puck Guide Assembly

### FGPG-A/FHPG-U Assembly



See page 222  
for components

| Bracket | Series | D (mm) | H (mm) | W (mm)<br>B = 0 |
|---------|--------|--------|--------|-----------------|
| FGRB-PG | FK     | 45     | 24     | 48              |
| FGRB-PG | FS     | 65     | 18     | 68              |
| FGRB-PG | FM     | 85     | 18     | 88              |
| FGRB-PG | FC     | 105    | 18     | 108             |
| FGRB-PG | FL     | 150    | 18     | 153             |
| FGRB-PG | FU     | 179    | 18     | 182             |
| FGRB-PG | FV     | 260    | 18     | 263             |

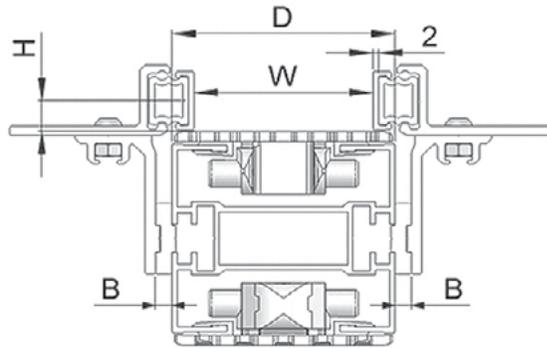
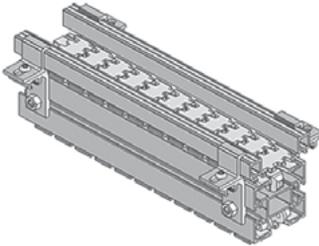
Note:

- Available in North America Only
- Pallets available for FC Series Only
- H can be lowered by 9.5 mm for pallet transfer

## FGRA-8x39x45

Adjustable Guide Rail Assembly

### FGRA-8x39x45 Assembly



**B Spacer = FGRD-6**

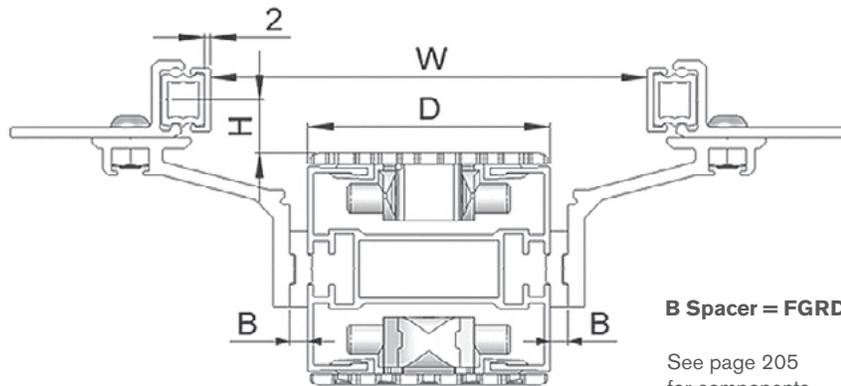
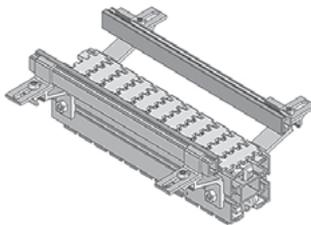
See page 205 for components

| Guide Rail Bracket | Series | D (mm) | H (mm) | W (mm) min<br>B = 0    | W (mm) max<br>B = 0    | W (mm) min<br>B = 6.3  | W (mm) max<br>B = 6.3  |
|--------------------|--------|--------|--------|------------------------|------------------------|------------------------|------------------------|
| FGRA-8x39x45       | FK     | 45     | 17     | 0                      | 24.8                   | 0                      | 37.4                   |
| FGRA-8x39x45       | FS     | 65     | 17     | 0                      | 44.8                   | 0                      | 57.4                   |
| Guide Rail Bracket | Series | D (mm) | H (mm) | W (mm) min<br>B = 12.6 | W (mm) max<br>B = 12.6 | W (mm) min<br>B = 1839 | W (mm) max<br>B = 18.9 |
| FGRA-8x39x45       | FM     | 85     | 11     | 86                     | 90                     | 86                     | 102.6                  |
| FGRA-8x39x45       | FC     | 105    | 11     | 106                    | 110                    | 106                    | 122.6                  |
| FGRA-8x39x45       | FL     | 150    | 11     | 156                    | 160                    | 156                    | 172.6                  |
| FGRA-8x39x45       | FU     | 179    | 11     | 180                    | 184                    | 180                    | 196.6                  |
| FGRA-8x39x45       | FV     | 260    | 11     | 261                    | 265                    | 261                    | 277.6                  |

## FGRA-26x39x45

Adjustable Guide Rail Assembly

### FGRA-26x39x45 Assembly



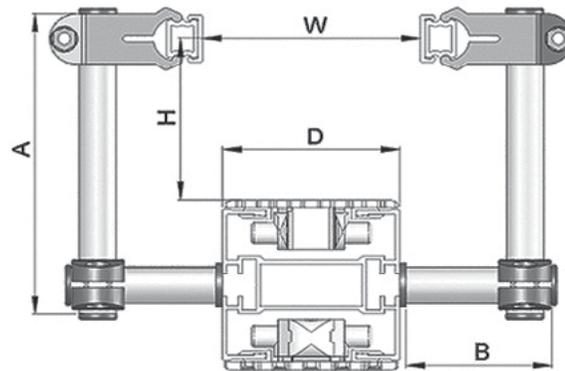
**B Spacer = FGRD-6**

See page 205 for components

| Guide Rail Bracket | Series | D (mm) | H (mm) | W (mm) min<br>B = 0 | W (mm) max<br>B = 0 | W (mm) min<br>B = 6.3 | W (mm) max<br>B = 6.3 |
|--------------------|--------|--------|--------|---------------------|---------------------|-----------------------|-----------------------|
| FGRA-26x39x45      | FK     | 45     | 24     | 28.8                | 100.8               | 41.4                  | 113.4                 |
| FGRA-26x39x45      | FS     | 65     | 24     | 48.8                | 120.8               | 61.4                  | 133.4                 |
| FGRA-26x39x45      | FM     | 85     | 18     | 68.8                | 140.8               | 81.4                  | 153.4                 |
| FGRA-26x39x45      | FC     | 105    | 18     | 88.8                | 160.8               | 101.4                 | 173.4                 |
| FGRA-26x39x45      | FL     | 150    | 18     | 133.8               | 205.8               | 146.4                 | 218.4                 |
| FGRA-26x39x45      | FU     | 179    | 18     | 162.8               | 234.8               | 175.4                 | 251.4                 |
| FGRA-8x39x45       | FV     | 260    | 18     | 243.8               | 315.8               | 256.4                 | 328.4                 |

## FGRS-18 & FGDT- & FGRR-

## Guide Rail Assembly

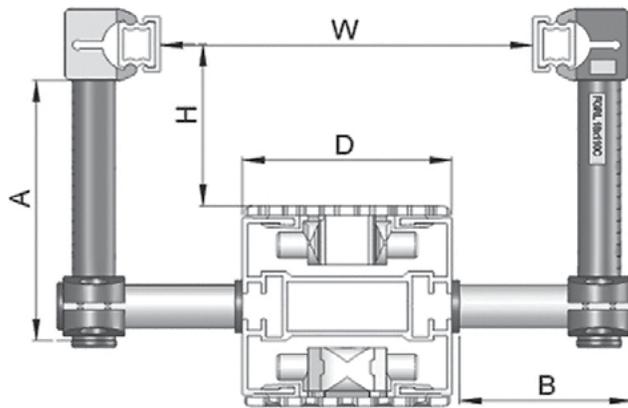


See pages 204, 209 and 213 for components

| A (mm)   | Series | D (mm) | H (mm) Min | H (mm) Max |
|----------|--------|--------|------------|------------|
| FGRR-100 | FK     | 45     | 17         | 35         |
| FGRR-100 | FS     | 65     | 17         | 35         |
| FGRR-100 | FM     | 85     | 17         | 35         |
| FGRR-100 | FC     | 105    | 17         | 30         |
| FGRR-100 | FL     | 150    | 17         | 30         |
| FGRR-100 | FU     | 179    | 17         | 35         |
| FGRR-100 | FV     | 260    | 17         | 35         |
|          |        |        |            |            |
| FGRR-150 | FK     | 45     | 17         | 85         |
| FGRR-150 | FS     | 65     | 17         | 85         |
| FGRR-150 | FM     | 85     | 17         | 80         |
| FGRR-150 | FC     | 105    | 17         | 80         |
| FGRR-150 | FL     | 150    | 17         | 80         |
| FGRR-150 | FU     | 179    | 17         | 80         |
| FGRR-150 | FV     | 260    | 17         | 80         |
|          |        |        |            |            |
| FGRR-200 | FK     | 45     | 17         | 135        |
| FGRR-200 | FS     | 65     | 17         | 135        |
| FGRR-200 | FM     | 85     | 17         | 130        |
| FGRR-200 | FC     | 105    | 17         | 130        |
| FGRR-200 | FL     | 150    | 17         | 130        |
| FGRR-200 | FU     | 179    | 17         | 130        |
| FGRR-200 | FV     | 260    | 17         | 130        |
|          |        |        |            |            |
| FGRR-250 | FK     | 45     | 17         | 185        |
| FGRR-250 | FS     | 65     | 17         | 185        |
| FGRR-250 | FM     | 85     | 17         | 180        |
| FGRR-250 | FC     | 105    | 17         | 180        |
| FGRR-250 | FL     | 150    | 17         | 180        |
| FGRR-250 | FU     | 179    | 17         | 180        |
| FGRR-250 | FV     | 260    | 17         | 180        |

| B (mm)   | Series | D (mm) | W (mm) Min | W (mm) Max |
|----------|--------|--------|------------|------------|
| FGDT-70  | FK     | 45     | 0          | 65         |
| FGDT-70  | FS     | 65     | 0          | 85         |
| FGDT-70  | FM     | 85     | 16         | 105        |
| FGDT-70  | FC     | 105    | 36         | 125        |
| FGDT-70  | FL     | 150    | 81         | 170        |
| FGDT-70  | FU     | 179    | 110        | 199        |
| FGDT-70  | FV     | 260    | 191        | 280        |
|          |        |        |            |            |
| FGDT-100 | FK     | 45     | 0          | 125        |
| FGDT-100 | FS     | 65     | 0          | 145        |
| FGDT-100 | FM     | 85     | 16         | 165        |
| FGDT-100 | FC     | 105    | 36         | 185        |
| FGDT-100 | FL     | 150    | 81         | 230        |
| FGDT-100 | FU     | 179    | 110        | 259        |
| FGDT-100 | FV     | 260    | 191        | 340        |
|          |        |        |            |            |
| FGDT-150 | FK     | 45     | 0          | 225        |
| FGDT-150 | FS     | 65     | 0          | 245        |
| FGDT-150 | FM     | 85     | 16         | 265        |
| FGDT-150 | FC     | 105    | 36         | 285        |
| FGDT-150 | FL     | 150    | 81         | 330        |
| FGDT-150 | FU     | 179    | 110        | 359        |
| FGDT-150 | FV     | 260    | 191        | 440        |
|          |        |        |            |            |
| FGDT-200 | FK     | 45     | 0          | 325        |
| FGDT-200 | FS     | 65     | 0          | 345        |
| FGDT-200 | FM     | 85     | 16         | 365        |
| FGDT-200 | FC     | 105    | 36         | 385        |
| FGDT-200 | FL     | 150    | 81         | 430        |
| FGDT-200 | FU     | 179    | 110        | 459        |
| FGDT-200 | FV     | 260    | 191        | 540        |

- FGRL-18x110C & FGDT-70
- FGRL-18x110C & FGDT-100
- FGRL-18x110C & FGDT-150
- FGRL-18x110C & FGDT-200
- FGRL-18x160C & FGDT-70
- FGRL-18x160C & FGDT-100
- FGRL-18x160C & FGDT-150
- FGRL-18x160C & FGDT-200



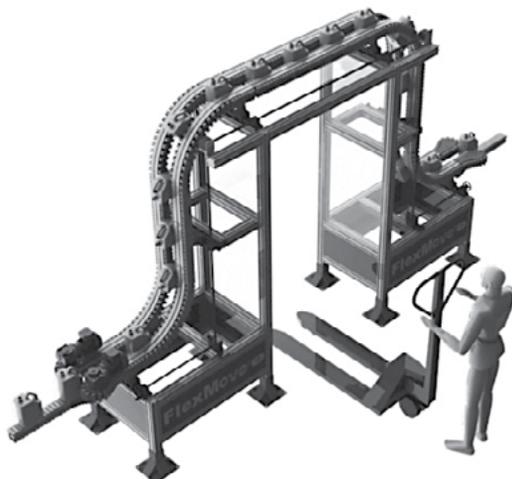
Guide Rail Assembly

Note:  
Plastic guide supports used for light products.

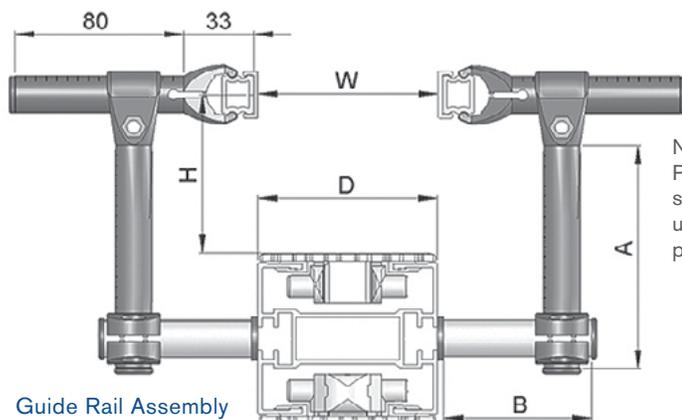
See pages 204 and 214 for components

| A (mm)       | Series | D (mm) | H (mm) Min | H (mm) Max |
|--------------|--------|--------|------------|------------|
| FGRL-18x110C | FK     | 45     | 14         | 70         |
| FGRL-18x110C | FS     | 65     | 14         | 70         |
| FGRL-18x110C | FM     | 85     | 14         | 65         |
| FGRL-18x110C | FC     | 105    | 14         | 65         |
| FGRL-18x110C | FL     | 150    | 14         | 65         |
| FGRL-18x110C | FU     | 179    | 14         | 65         |
| FGRL-18x110C | FV     | 260    | 14         | 65         |
| FGRL-18x160C | FK     | 45     | 14         | 120        |
| FGRL-18x160C | FS     | 65     | 14         | 120        |
| FGRL-18x160C | FM     | 85     | 14         | 115        |
| FGRL-18x160C | FC     | 105    | 14         | 115        |
| FGRL-18x160C | FL     | 150    | 14         | 115        |
| FGRL-18x160C | FU     | 179    | 14         | 115        |
| FGRL-18x160C | FV     | 260    | 14         | 115        |

| B (mm)   | Series | D (mm) | W (mm) Min | W (mm) Max |
|----------|--------|--------|------------|------------|
| FGDT-70  | FK     | 45     | 23         | 110        |
| FGDT-70  | FS     | 65     | 43         | 130        |
| FGDT-70  | FM     | 85     | 63         | 150        |
| FGDT-70  | FC     | 105    | 83         | 170        |
| FGDT-70  | FL     | 150    | 128        | 215        |
| FGDT-70  | FU     | 179    | 157        | 244        |
| FGDT-70  | FV     | 260    | 238        | 325        |
| FGDT-100 | FK     | 45     | 23         | 170        |
| FGDT-100 | FS     | 65     | 43         | 190        |
| FGDT-100 | FM     | 85     | 63         | 210        |
| FGDT-100 | FC     | 105    | 83         | 230        |
| FGDT-100 | FL     | 150    | 128        | 275        |
| FGDT-100 | FU     | 179    | 157        | 304        |
| FGDT-100 | FV     | 260    | 238        | 385        |
| FGDT-150 | FK     | 45     | 23         | 270        |
| FGDT-150 | FS     | 65     | 43         | 290        |
| FGDT-150 | FM     | 85     | 63         | 310        |
| FGDT-150 | FC     | 105    | 83         | 330        |
| FGDT-150 | FL     | 150    | 128        | 375        |
| FGDT-150 | FU     | 179    | 157        | 404        |
| FGDT-150 | FV     | 260    | 238        | 485        |
| FGDT-200 | FK     | 45     | 23         | 370        |
| FGDT-200 | FS     | 65     | 43         | 390        |
| FGDT-200 | FM     | 85     | 63         | 410        |
| FGDT-200 | FC     | 105    | 83         | 430        |
| FGDT-200 | FL     | 150    | 128        | 475        |
| FGDT-200 | FU     | 179    | 157        | 504        |
| FGDT-200 | FV     | 260    | 238        | 585        |



- FGRL-18x110CA & FGDT-70
- FGRL-18x110CA & FGDT-100
- FGRL-18x110CA & FGDT-150
- FGRL-18x110CA & FGDT-200
- FGRL-18x160CA & FGDT-70
- FGRL-18x160CA & FGDT-100
- FGRL-18x160CA & FGDT-150
- FGRL-18x160CA & FGDT-200



Note:  
Plastic guide supports used for light products.

Guide Rail Assembly

See pages 204 and 214 for components

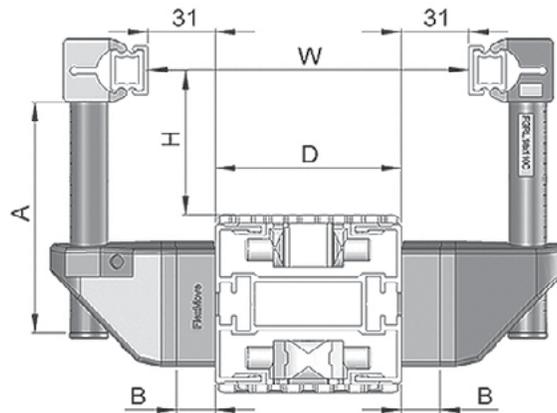
| A (mm)        | Series | D (mm) | H (mm) Min | H (mm) Max |
|---------------|--------|--------|------------|------------|
| FGRL-18x110CA | FK     | 45     | 14         | 70         |
| FGRL-18x110CA | FS     | 65     | 14         | 70         |
| FGRL-18x110CA | FM     | 85     | 14         | 65         |
| FGRL-18x110CA | FC     | 105    | 14         | 65         |
| FGRL-18x110CA | FL     | 150    | 14         | 65         |
| FGRL-18x110CA | FU     | 179    | 14         | 65         |
| FGRL-18x110CA | FV     | 260    | 14         | 65         |
| FGRL-18x160CA | FK     | 45     | 14         | 120        |
| FGRL-18x160CA | FS     | 65     | 14         | 120        |
| FGRL-18x160CA | FM     | 85     | 14         | 115        |
| FGRL-18x160CA | FC     | 105    | 14         | 115        |
| FGRL-18x160CA | FL     | 150    | 14         | 115        |
| FGRL-18x160CA | FU     | 179    | 14         | 115        |
| FGRL-18x160CA | FV     | 260    | 14         | 115        |

| B (mm)   | Series | D (mm) | W (mm) Min | W (mm) Max |
|----------|--------|--------|------------|------------|
| FGDT-70  | FK     | 45     | 0          | 68         |
| FGDT-70  | FS     | 65     | 0          | 88         |
| FGDT-70  | FM     | 85     | 0          | 108        |
| FGDT-70  | FC     | 105    | 0          | 128        |
| FGDT-70  | FL     | 150    | 0          | 173        |
| FGDT-70  | FU     | 179    | 0          | 202        |
| FGDT-70  | FV     | 260    | 65         | 283        |
| FGDT-100 | FK     | 45     | 0          | 128        |
| FGDT-100 | FS     | 65     | 0          | 148        |
| FGDT-100 | FM     | 85     | 0          | 168        |
| FGDT-100 | FC     | 105    | 0          | 188        |
| FGDT-100 | FL     | 150    | 0          | 233        |
| FGDT-100 | FU     | 179    | 0          | 262        |
| FGDT-100 | FV     | 260    | 65         | 343        |
| FGDT-150 | FK     | 45     | 0          | 228        |
| FGDT-150 | FS     | 65     | 0          | 248        |
| FGDT-150 | FM     | 85     | 0          | 268        |
| FGDT-150 | FC     | 105    | 0          | 288        |
| FGDT-150 | FL     | 150    | 0          | 333        |
| FGDT-150 | FU     | 179    | 0          | 362        |
| FGDT-150 | FV     | 260    | 65         | 443        |
| FGDT-200 | FK     | 45     | 0          | 328        |
| FGDT-200 | FS     | 65     | 0          | 348        |
| FGDT-200 | FM     | 85     | 0          | 368        |
| FGDT-200 | FC     | 105    | 0          | 388        |
| FGDT-200 | FL     | 150    | 0          | 433        |
| FGDT-200 | FU     | 179    | 0          | 462        |
| FGDT-200 | FV     | 260    | 65         | 543        |



## FGRL-18x110C & FGRF-42x18V

### Guide Rail Assembly



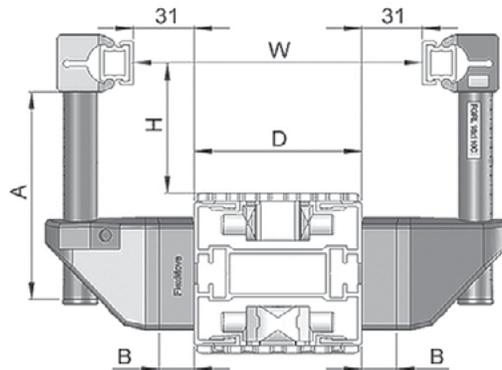
Note:  
Plastic guide supports used for light products.

See pages 214 and 216 for components

| Guide Rail   | Guide Rail  | Series | D (mm) | A (mm) | H (mm) Min | H (mm) Max | W (mm) B = 0 | W (mm) B = 18 | W (mm) B = 36 |
|--------------|-------------|--------|--------|--------|------------|------------|--------------|---------------|---------------|
| FGRL-18x110C | FGRF-42x18V | FK     | 45     | 110    | 3          | 75         | 71           | 107           | 143           |
| FGRL-18x110C | FGRF-42x18V | FS     | 65     | 110    | 3          | 75         | 91           | 127           | 163           |
| FGRL-18x110C | FGRF-42x18V | FM     | 85     | 110    | 3          | 70         | 111          | 147           | 183           |
| FGRL-18x110C | FGRF-42x18V | FC     | 105    | 110    | 3          | 70         | 131          | 167           | 203           |
| FGRL-18x110C | FGRF-42x18V | FL     | 150    | 110    | 3          | 70         | 176          | 212           | 248           |
| FGRL-18x110C | FGRF-42x18V | FU     | 179    | 110    | 3          | 70         | 205          | 241           | 277           |
| FGRL-18x110C | FGRF-42x18V | FV     | 260    | 110    | 3          | 70         | 286          | 322           | 358           |

## FGRL-18x160C & FGRF-42x18V

### Guide Rail Assembly

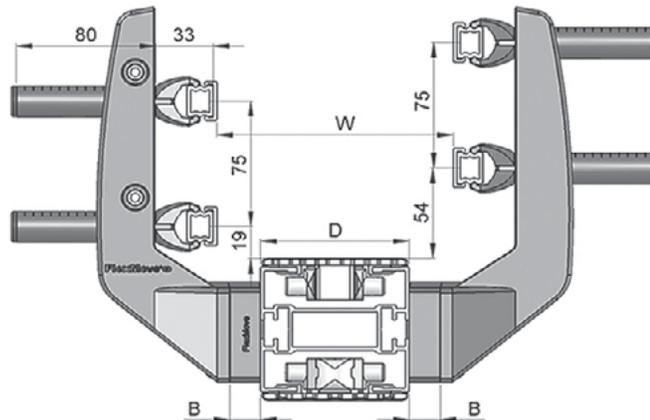


Note:  
Plastic guide supports used for light products.

See pages 214 and 216 for components

| Guide Rail   | Guide Rail  | Series | D (mm) | A (mm) | H (mm) Max | H (mm) Min | W (mm) B = 0 | W (mm) B = 18 | W (mm) B = 36 |
|--------------|-------------|--------|--------|--------|------------|------------|--------------|---------------|---------------|
| FGRL-18x160C | FGRF-42x18V | FK     | 45     | 160    | 3          | 135        | 71           | 107           | 143           |
| FGRL-18x160C | FGRF-42x18V | FS     | 65     | 160    | 3          | 135        | 91           | 127           | 163           |
| FGRL-18x160C | FGRF-42x18V | FM     | 85     | 160    | 3          | 130        | 111          | 147           | 183           |
| FGRL-18x160C | FGRF-42x18V | FC     | 105    | 160    | 3          | 130        | 131          | 167           | 203           |
| FGRL-18x160C | FGRF-42x18V | FL     | 150    | 160    | 3          | 130        | 176          | 212           | 248           |
| FGRL-18x160C | FGRF-42x18V | FU     | 179    | 160    | 3          | 130        | 205          | 241           | 277           |
| FGRL-18x160C | FGRF-42x18V | FV     | 260    | 160    | 3          | 130        | 286          | 322           | 358           |

**FGRF-42x62-A110 & FGRK-18x80A** Guide Rail Assembly

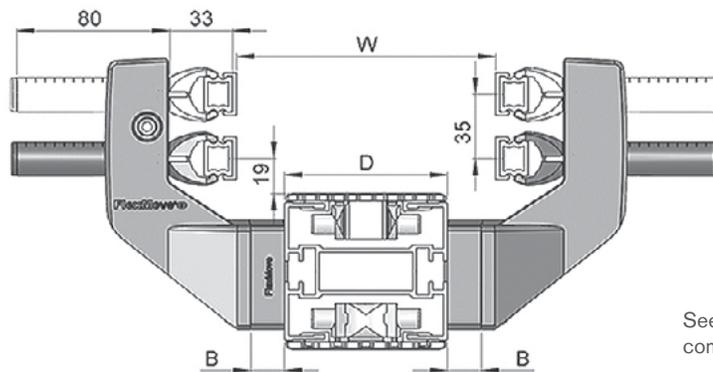


**B Spacer = FGRD-18A**

See pages 216 and 217 for components

| Guide Rail      | Guide Rail  | Series | D (mm) | W min B = 0 | W min B = 18 | W min B = 36 | W (mm) B = 0 | W (mm) B = 18 | W (mm) B = 36 |
|-----------------|-------------|--------|--------|-------------|--------------|--------------|--------------|---------------|---------------|
| FGRF-42x62-A110 | FGRK-18x80A | FK     | 45     | 0           | 3            | 39           | 61           | 97            | 133           |
| FGRF-42x62-A110 | FGRK-18x80A | FS     | 65     | 0           | 23           | 59           | 81           | 117           | 153           |
| FGRF-42x62-A110 | FGRK-18x80A | FM     | 85     | 7           | 43           | 79           | 101          | 137           | 173           |
| FGRF-42x62-A110 | FGRK-18x80A | FC     | 105    | 27          | 63           | 99           | 121          | 157           | 193           |
| FGRF-42x62-A110 | FGRK-18x80A | FL     | 150    | 72          | 108          | 144          | 166          | 202           | 238           |
| FGRF-42x62-A110 | FGRK-18x80A | FU     | 179    | 101         | 137          | 173          | 195          | 231           | 267           |
| FGRF-42x62-A110 | FGRK-18x80A | FV     | 260    | 182         | 218          | 254          | 276          | 312           | 348           |

**FGRF-42x62-A35 & FGRK-18x80A** Guide Rail Assembly



**B Spacer = FGRD-18A**

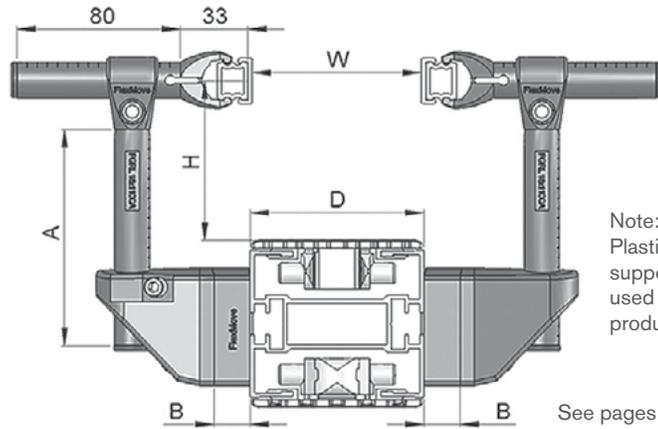
See pages 216 and 217 for components

| Guide Rail     | Guide Rail  | Series | D (mm) | W min B = 0 | W min B = 18 | W min B = 36 | W (mm) B = 0 | W (mm) B = 18 | W (mm) B = 36 |
|----------------|-------------|--------|--------|-------------|--------------|--------------|--------------|---------------|---------------|
| FGRF-42x62-A35 | FGRK-18x80A | FK     | 45     | 0           | 3            | 39           | 61           | 97            | 133           |
| FGRF-42x62-A35 | FGRK-18x80A | FS     | 65     | 0           | 23           | 59           | 81           | 117           | 153           |
| FGRF-42x62-A35 | FGRK-18x80A | FM     | 85     | 7           | 43           | 79           | 101          | 137           | 173           |
| FGRF-42x62-A35 | FGRK-18x80A | FC     | 105    | 27          | 63           | 99           | 121          | 157           | 193           |
| FGRF-42x62-A35 | FGRK-18x80A | FL     | 150    | 72          | 108          | 144          | 166          | 202           | 238           |
| FGRF-42x62-A35 | FGRK-18x80A | FU     | 179    | 101         | 137          | 173          | 195          | 231           | 267           |
| FGRF-42x62-A35 | FGRK-18x80A | FV     | 260    | 182         | 218          | 254          | 276          | 312           | 348           |

FGRF-42x18V & FGRK-18x80A  
& FGRL18x110CA

FGRF-42x18V & FGRK-18x80A  
& FGRL18x160CA

**B Spacer = FGRD-18A**

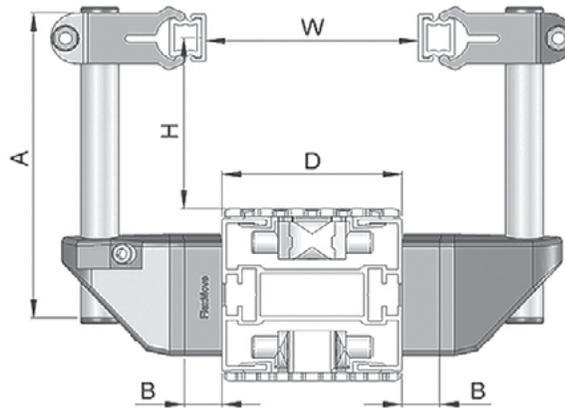


Note:  
Plastic guide supports used for light products.

See pages 215 and 216 for components

| Guide Rail    | Series | D (mm) | A = 110 H (mm) Min | A = 110 H (mm) Max | A = 160 H (mm) Min | A = 160 H (mm) Max | B (mm) | W (mm) Min | W (mm) Max |
|---------------|--------|--------|--------------------|--------------------|--------------------|--------------------|--------|------------|------------|
| FGRL-18x110CA | FK     | 45     | 3                  | 83                 | 3                  | 138                | 0      | 0          | 30         |
| FGRL-18x110CA | FS     | 65     | 3                  | 83                 | 3                  | 138                | 0      | 0          | 50         |
| FGRL-18x110CA | FM     | 85     | 3                  | 83                 | 3                  | 133                | 0      | 0          | 70         |
| FGRL-18x110CA | FC     | 105    | 3                  | 83                 | 3                  | 133                | 0      | 0          | 90         |
| FGRL-18x110CA | FL     | 150    | 3                  | 83                 | 3                  | 133                | 0      | 25         | 135        |
| FGRL-18x110CA | FU     | 179    | 3                  | 83                 | 3                  | 133                | 0      | 54         | 164        |
| FGRL-18x110CA | FV     | 260    | 3                  | 83                 | 3                  | 133                | 0      | 135        | 245        |
| FGRL-18x110CA | FK     | 45     | 3                  | 83                 | 3                  | 138                | 18     | 0          | 78         |
| FGRL-18x110CA | FS     | 65     | 3                  | 83                 | 3                  | 138                | 18     | 0          | 86         |
| FGRL-18x110CA | FM     | 85     | 3                  | 83                 | 3                  | 133                | 18     | 0          | 106        |
| FGRL-18x110CA | FC     | 105    | 3                  | 83                 | 3                  | 133                | 18     | 16         | 126        |
| FGRL-18x110CA | FL     | 150    | 3                  | 83                 | 3                  | 133                | 18     | 61         | 171        |
| FGRL-18x110CA | FU     | 179    | 3                  | 83                 | 3                  | 133                | 18     | 90         | 200        |
| FGRL-18x110CA | FV     | 260    | 3                  | 83                 | 3                  | 133                | 18     | 271        | 381        |
| FGRL-18x110CA | FK     | 45     | 3                  | 83                 | 3                  | 138                | 36     | 0          | 112        |
| FGRL-18x110CA | FS     | 65     | 3                  | 83                 | 3                  | 138                | 36     | 12         | 132        |
| FGRL-18x110CA | FM     | 85     | 3                  | 83                 | 3                  | 133                | 36     | 32         | 152        |
| FGRL-18x110CA | FC     | 105    | 3                  | 83                 | 3                  | 133                | 36     | 52         | 172        |
| FGRL-18x110CA | FL     | 150    | 3                  | 83                 | 3                  | 133                | 36     | 97         | 217        |
| FGRL-18x110CA | FU     | 179    | 3                  | 83                 | 3                  | 133                | 36     | 126        | 246        |
| FGRL-18x110CA | FV     | 260    | 3                  | 83                 | 3                  | 133                | 36     | 207        | 327        |
| FGRL-18x110CA | FK     | 45     | 3                  | 83                 | 3                  | 138                | 54     | 28         | 148        |
| FGRL-18x110CA | FS     | 65     | 3                  | 83                 | 3                  | 138                | 54     | 48         | 168        |
| FGRL-18x110CA | FM     | 85     | 3                  | 83                 | 3                  | 133                | 54     | 68         | 188        |
| FGRL-18x110CA | FC     | 105    | 3                  | 83                 | 3                  | 133                | 54     | 88         | 208        |
| FGRL-18x110CA | FL     | 150    | 3                  | 83                 | 3                  | 133                | 54     | 133        | 243        |
| FGRL-18x110CA | FU     | 179    | 3                  | 83                 | 3                  | 133                | 54     | 162        | 272        |
| FGRL-18x110CA | FV     | 260    | 3                  | 83                 | 3                  | 133                | 54     | 243        | 353        |

**FGRF-42x18V FGRS-18 & FGDT-150** Guide Rail Assembly

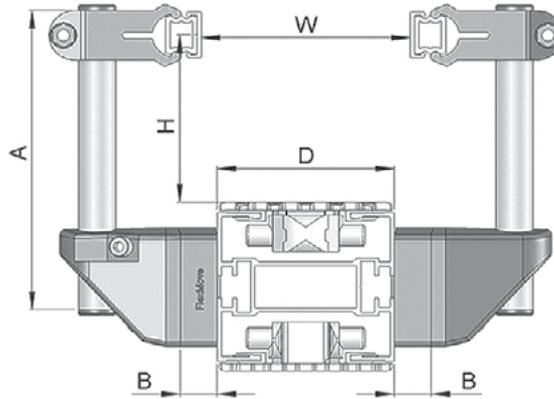


**B Spacer = FGRD-18A**

See pages 204, 213 and 216 for components

| Guide Rail | Guide Rail | Series | D (mm) | A (mm) | H (mm) Min | H (mm) Max | W (mm) B = 0 | W (mm) B = 18 | W (mm) B = 36 |
|------------|------------|--------|--------|--------|------------|------------|--------------|---------------|---------------|
| FGRS-18    | FGDT-150   | FK     | 45     | 150    | 3          | 90         | 24           | 60            | 96            |
| FGRS-18    | FGDT-150   | FS     | 65     | 150    | 3          | 90         | 44           | 80            | 116           |
| FGRS-18    | FGDT-150   | FM     | 85     | 150    | 3          | 85         | 64           | 100           | 136           |
| FGRS-18    | FGDT-150   | FC     | 105    | 150    | 3          | 85         | 84           | 120           | 156           |
| FGRS-18    | FGDT-150   | FL     | 150    | 150    | 3          | 85         | 129          | 165           | 201           |
| FGRS-18    | FGDT-150   | FU     | 179    | 150    | 3          | 85         | 158          | 194           | 230           |
| FGRS-18    | FGDT-150   | FV     | 260    | 150    | 3          | 85         | 239          | 275           | 311           |

**FGRF-42x18V FGRS-18 & FGDT-200** Guide Rail Assembly



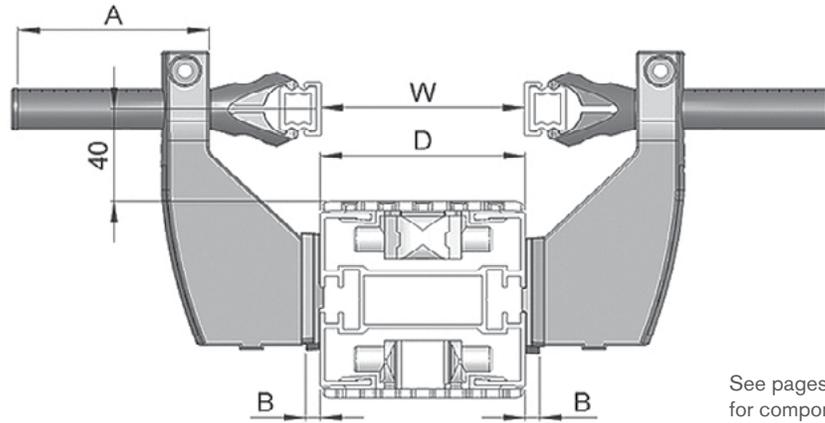
**B Spacer = FGRD-18A**

See pages 204, 213 and 216 for components

| Guide Rail | Guide Rail | Series | D (mm) | A (mm) | H (mm) Min | H (mm) Max | W (mm) B = 0 | W (mm) B = 18 | W (mm) B = 36 |
|------------|------------|--------|--------|--------|------------|------------|--------------|---------------|---------------|
| FGRS-18    | FGDT-200   | FK     | 45     | 200    | 3          | 140        | 24           | 60            | 96            |
| FGRS-18    | FGDT-200   | FS     | 65     | 200    | 3          | 140        | 44           | 80            | 116           |
| FGRS-18    | FGDT-200   | FM     | 85     | 200    | 3          | 135        | 64           | 100           | 136           |
| FGRS-18    | FGDT-200   | FC     | 105    | 200    | 3          | 135        | 84           | 120           | 156           |
| FGRS-18    | FGDT-200   | FL     | 150    | 200    | 3          | 135        | 129          | 165           | 201           |
| FGRS-18    | FGDT-200   | FU     | 179    | 200    | 3          | 135        | 158          | 194           | 230           |
| FGRS-18    | FGDT-200   | FV     | 260    | 200    | 3          | 135        | 239          | 275           | 311           |

## FGRB-40x18 & FGRK-18x80

## Guide Rail Assembly



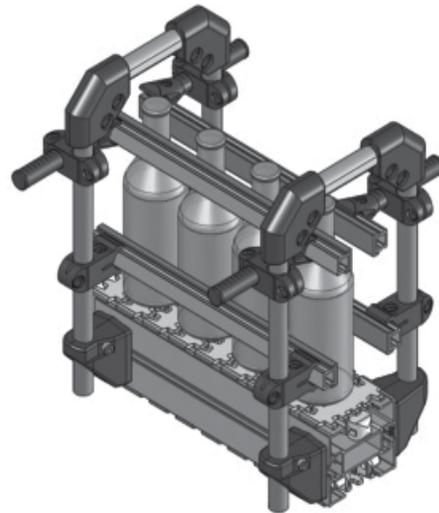
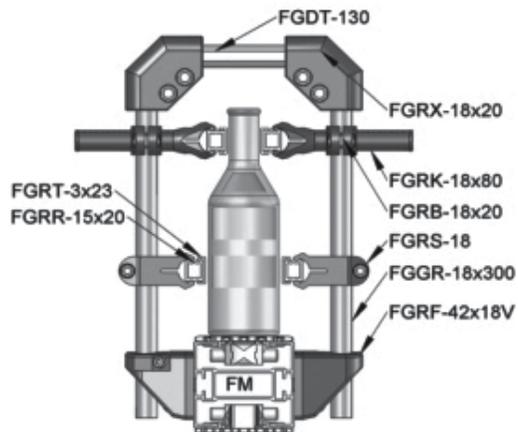
B Spacer = FGRD-6B

See pages 215  
for components

| Guide Rail | Guide Rail | Series | A (mm) | B (mm) | D (mm) | W (mm) Min | W (mm) Max |
|------------|------------|--------|--------|--------|--------|------------|------------|
| FGRB-40x18 | FGRK-18x80 | FK     | 80     | 0      | 45     | 0          | 55         |
| FGRB-40x18 | FGRK-18x80 | FS     | 80     | 0      | 65     | 0          | 75         |
| FGRB-40x18 | FGRK-18x80 | FM     | 80     | 0      | 85     | 0          | 95         |
| FGRB-40x18 | FGRK-18x80 | FC     | 80     | 0      | 105    | 15         | 115        |
| FGRB-40x18 | FGRK-18x80 | FL     | 80     | 0      | 150    | 60         | 160        |
| FGRB-40x18 | FGRK-18x80 | FU     | 80     | 0      | 179    | 89         | 189        |
| FGRB-40x18 | FGRK-18x80 | FV     | 80     | 0      | 260    | 170        | 270        |
| <hr/>      |            |        |        |        |        |            |            |
| FGRB-40x18 | FGRK-18x80 | FK     | 45     | 6      | 45     | 0          | 67         |
| FGRB-40x18 | FGRK-18x80 | FS     | 65     | 6      | 65     | 0          | 87         |
| FGRB-40x18 | FGRK-18x80 | FM     | 85     | 6      | 85     | 7          | 107        |
| FGRB-40x18 | FGRK-18x80 | FC     | 105    | 6      | 105    | 27         | 127        |
| FGRB-40x18 | FGRK-18x80 | FL     | 150    | 6      | 150    | 72         | 172        |
| FGRB-40x18 | FGRK-18x80 | FU     | 179    | 6      | 179    | 101        | 201        |
| FGRB-40x18 | FGRK-18x80 | FV     | 260    | 6      | 260    | 182        | 282        |
| <hr/>      |            |        |        |        |        |            |            |
| FGRB-40x18 | FGRK-18x80 | FK     | 45     | 12     | 45     | 0          | 79         |
| FGRB-40x18 | FGRK-18x80 | FS     | 65     | 12     | 65     | 0          | 99         |
| FGRB-40x18 | FGRK-18x80 | FM     | 85     | 12     | 85     | 19         | 119        |
| FGRB-40x18 | FGRK-18x80 | FC     | 105    | 12     | 105    | 39         | 139        |
| FGRB-40x18 | FGRK-18x80 | FL     | 150    | 12     | 150    | 84         | 184        |
| FGRB-40x18 | FGRK-18x80 | FU     | 179    | 12     | 179    | 113        | 213        |
| FGRB-40x18 | FGRK-18x80 | FV     | 260    | 12     | 260    | 194        | 294        |
| <hr/>      |            |        |        |        |        |            |            |
| FGRB-40x18 | FGRK-18x80 | FK     | 45     | 18     | 45     | 1          | 91         |
| FGRB-40x18 | FGRK-18x80 | FS     | 65     | 18     | 65     | 21         | 111        |
| FGRB-40x18 | FGRK-18x80 | FM     | 85     | 18     | 85     | 31         | 131        |
| FGRB-40x18 | FGRK-18x80 | FC     | 105    | 18     | 105    | 51         | 151        |
| FGRB-40x18 | FGRK-18x80 | FL     | 150    | 18     | 150    | 96         | 196        |
| FGRB-40x18 | FGRK-18x80 | FU     | 179    | 18     | 179    | 125        | 225        |
| FGRB-40x18 | FGRK-18x80 | FV     | 260    | 18     | 260    | 206        | 306        |

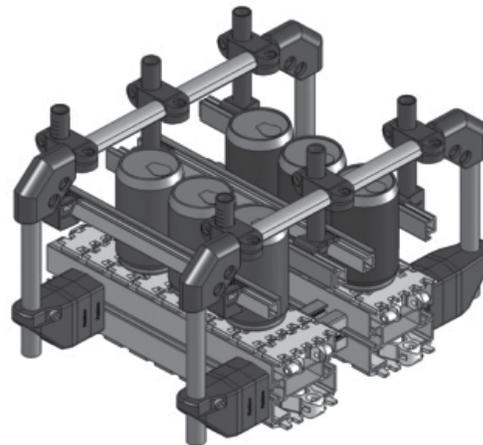
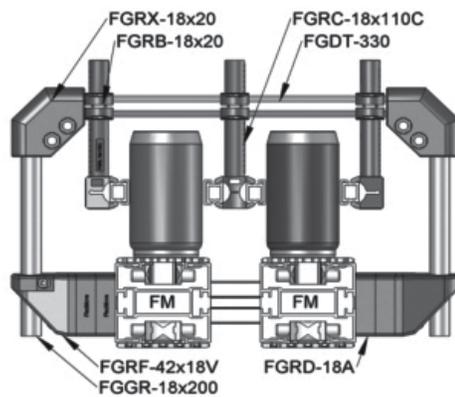
## Bottling Guide Rail Assembly

Bottles Handling



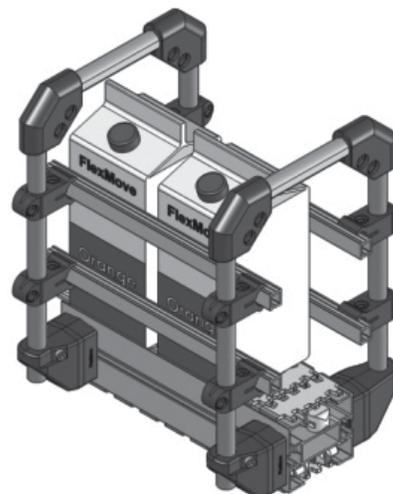
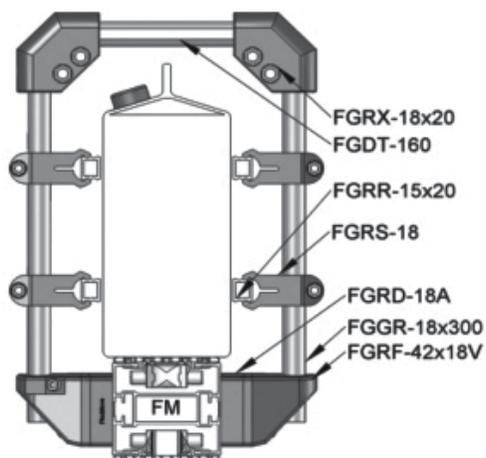
## Double Track Guide Rail Assembly

Cans Handling



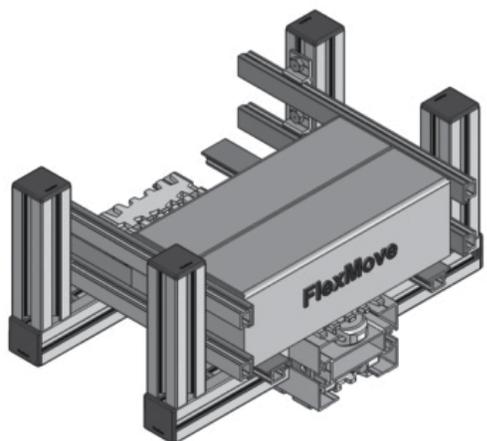
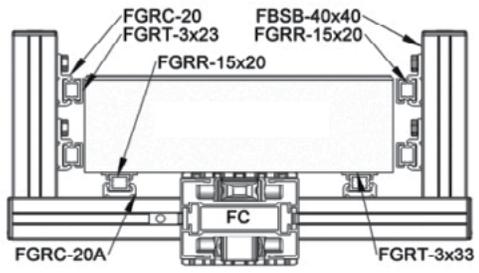
## Duo-Layer Guide Rail Assembly

Box Handling



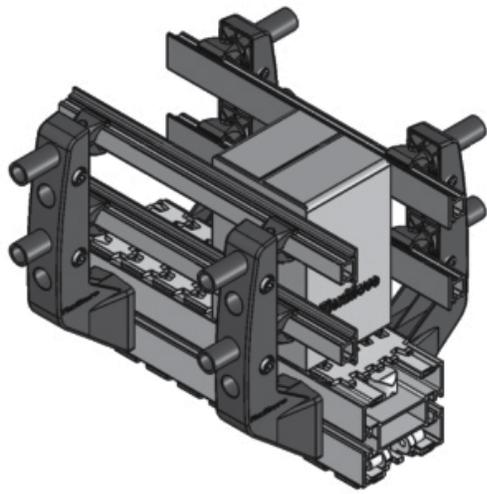
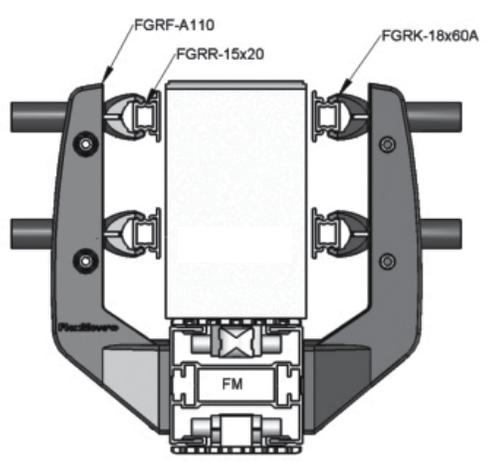
**Extra Bottom Guide Rail Assembly**

Carton Box Handling



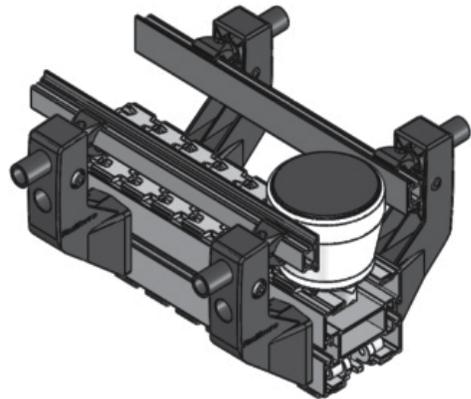
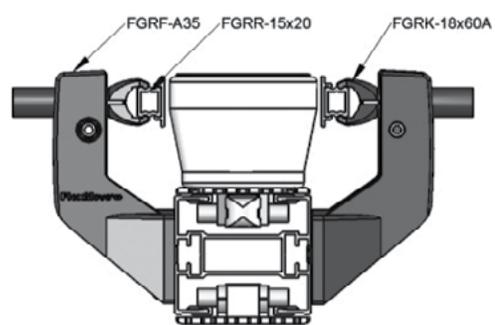
**Width Adjustment Guide Rail Assembly**

Packaging Box Handling



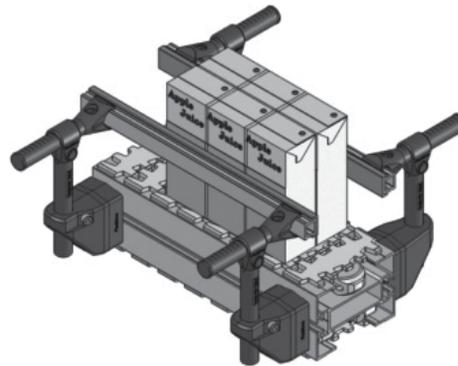
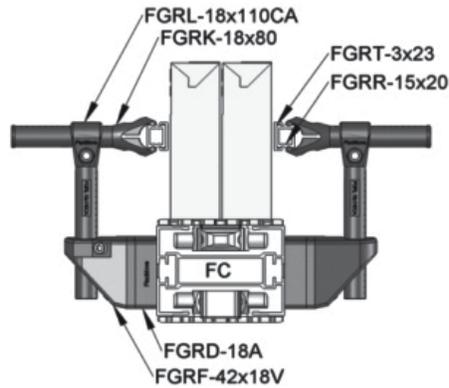
**Width Adjustment Guide Rail Assembly**

Container Handling



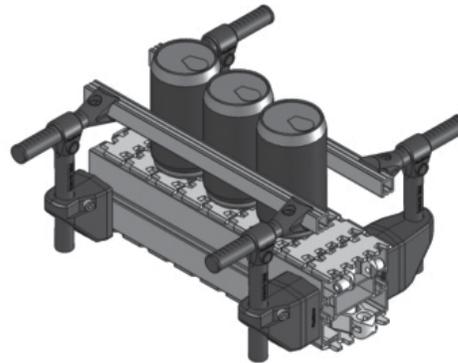
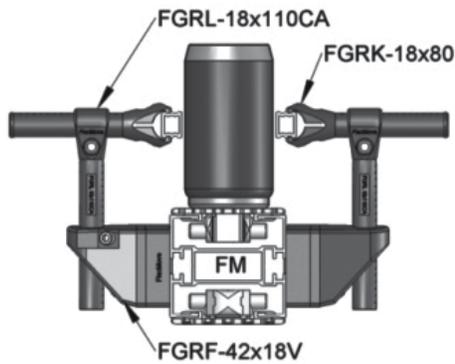
## Width & Height Adjustable Guide Rail Assembly

### Box Handling



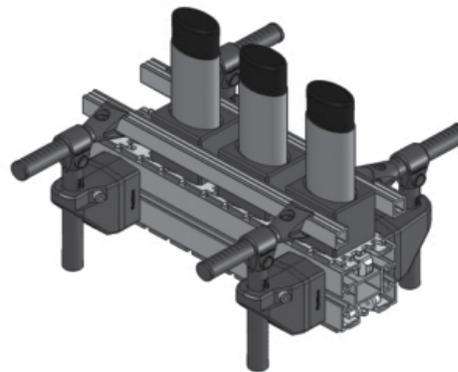
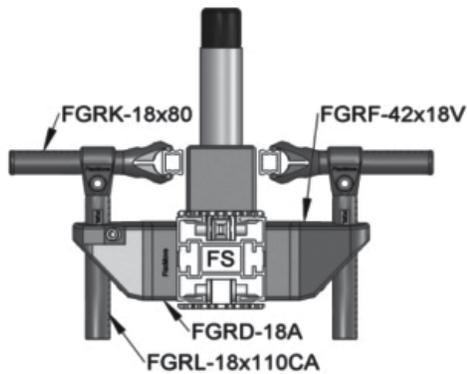
## Width & Height Adjustable Guide Rail Assembly

### Cans Handling



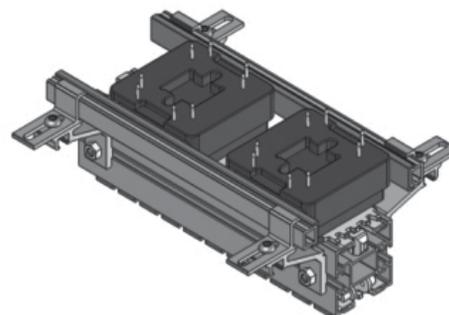
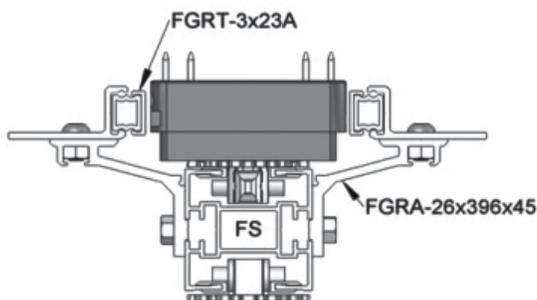
## Width & Height Adjustable Guide Rail Assembly

### Pucks Handling



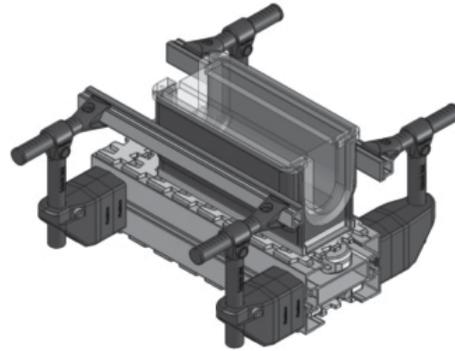
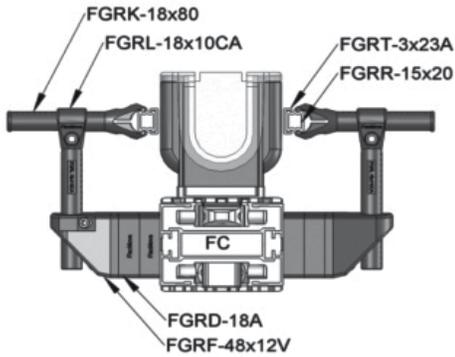
## Pallet Assembly Line Guide Rail

### Electronic Assembly Handling



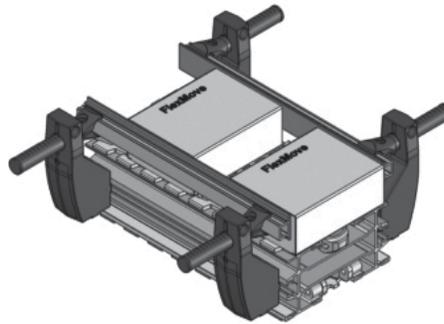
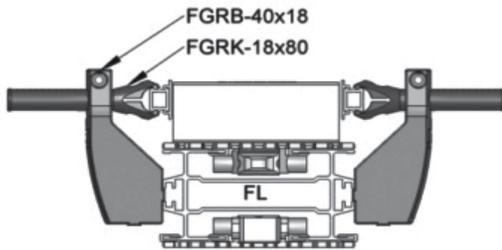
Cassette Guide Rail Assembly

Disc Drive Cassette Handling



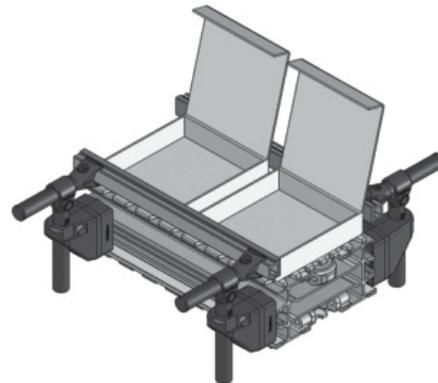
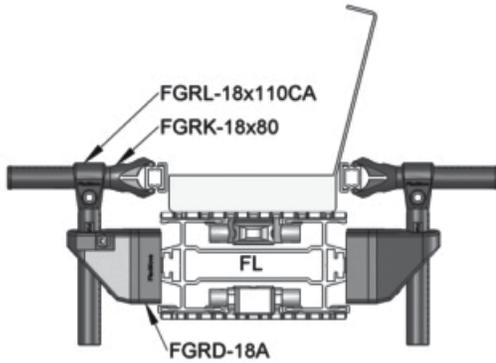
Width Adjustable Guide Rail Assembly

Box Handling



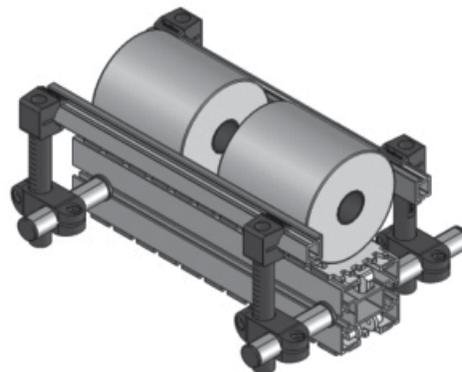
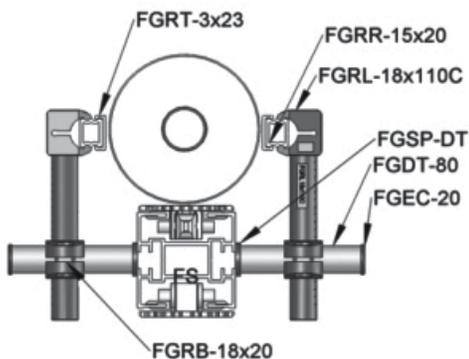
Width & Height Adjustable Guide Rail Assembly

Packaging Box Handling



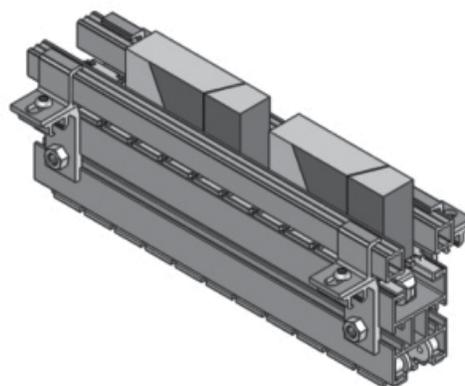
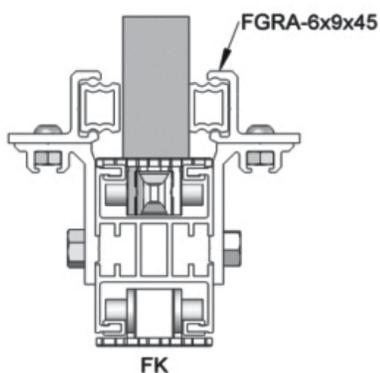
Width & Height Guide Rail Assembly

Paper Converting Handling



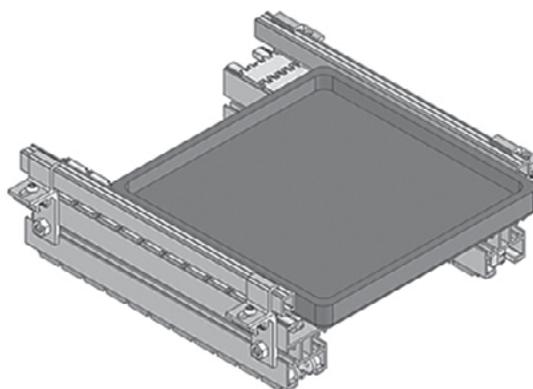
## Small Box Guide Rail Assembly

Small Box Handling



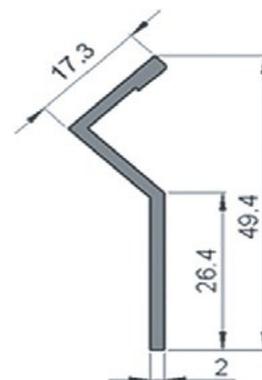
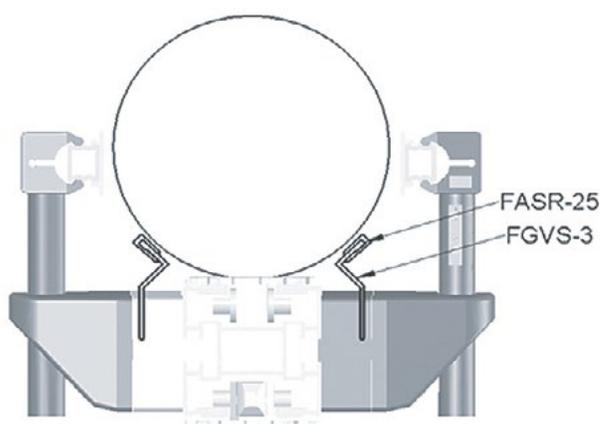
## Twin Track Pallet Guide Rail Assembly

Pallet Handling



## FGVG-3

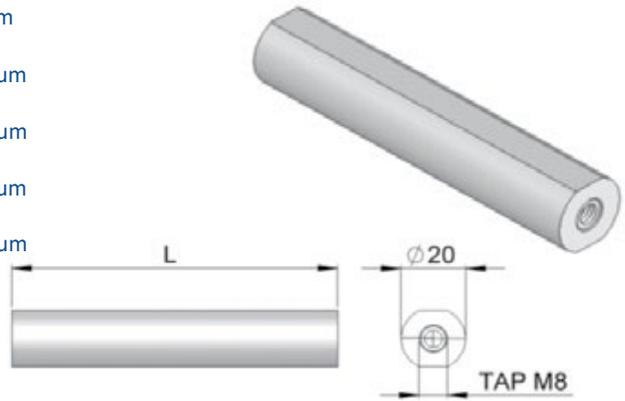
Special V Guide - Aluminum



UOM: 3 meter / length

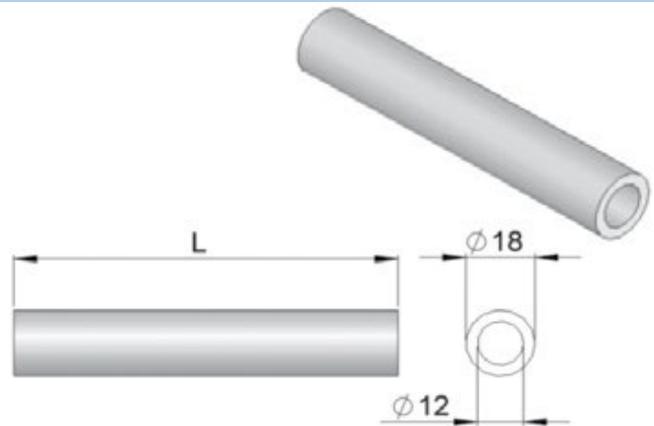
|          |                                      |
|----------|--------------------------------------|
| FGDT-70  | Distance Tube, L = 70 mm - Aluminum  |
| FGDT-80  | Distance Tube, L = 80 mm - Aluminum  |
| FGDT-100 | Distance Tube, L = 100 mm - Aluminum |
| FGDT-150 | Distance Tube, L = 150 mm - Aluminum |
| FGDT-200 | Distance Tube, L = 200 mm - Aluminum |
| FGDT-250 | Distance Tube, L = 250 mm - Aluminum |

UOM: 10 pcs / pk



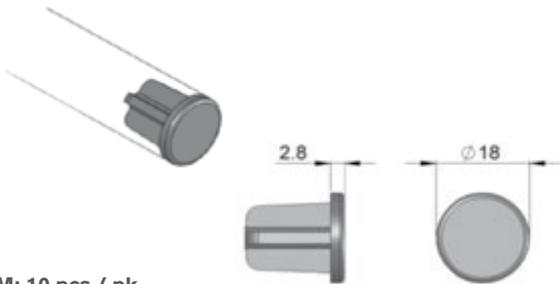
|             |                                  |
|-------------|----------------------------------|
| FGGR-18X100 | 18mm Tube, L = 100 mm - Aluminum |
| FGGR-18X150 | 18mm Tube, L = 150 mm - Aluminum |
| FGGR-18X200 | 18mm Tube, L = 200 mm - Aluminum |
| FGGR-18X250 | 18mm Tube, L = 250 mm - Aluminum |
| FGGR-18X300 | 18mm Tube, L = 300 mm - Aluminum |

UOM: 10 pcs / pk

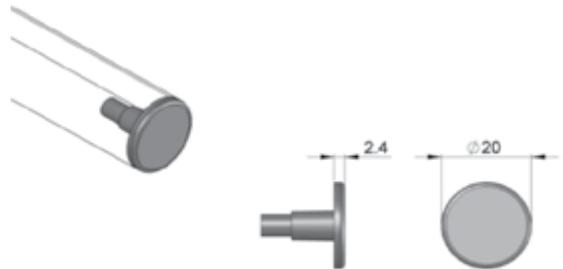


|         |                                 |         |                                     |
|---------|---------------------------------|---------|-------------------------------------|
| FGEC-18 | End cap. 18 mm Tube - Polyamide | FGEC-20 | End cap , Distance Tube - Polyamide |
|---------|---------------------------------|---------|-------------------------------------|

UOM: 10 pcs / pk

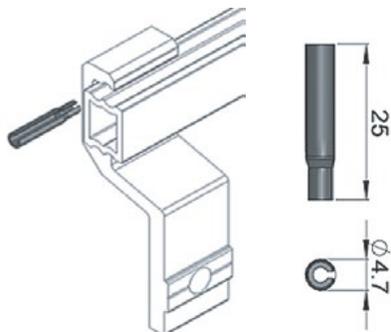


UOM: 10 pcs / pk

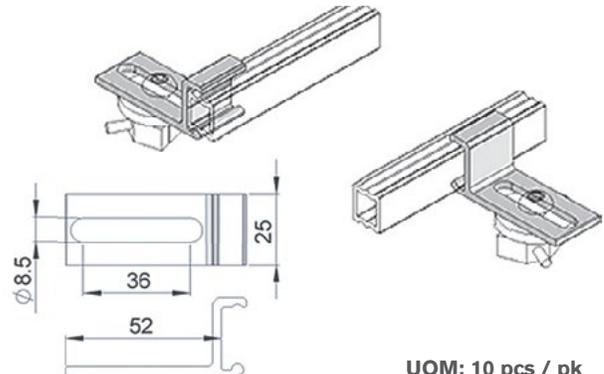


|         |                    |                |                               |
|---------|--------------------|----------------|-------------------------------|
| FGAP-25 | Spring Pin - Steel | FGRA-26x39x45A | Bracket for sensor - Aluminum |
|---------|--------------------|----------------|-------------------------------|

UOM: 50pcs / pk

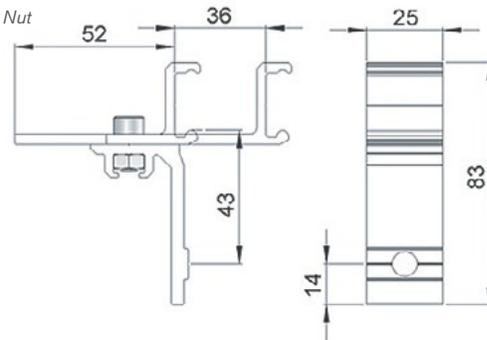
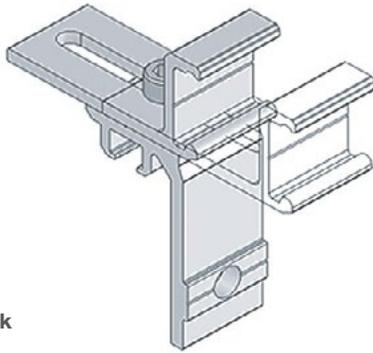


UOM: 10 pcs / pk



**FGRA-8x39x45** Adjustable Guide Rail Bracket - Aluminum

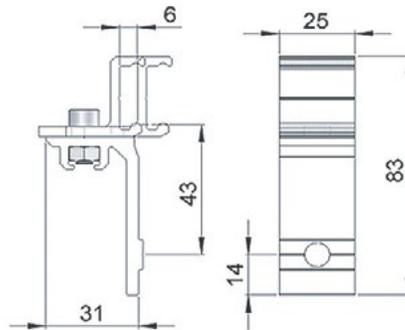
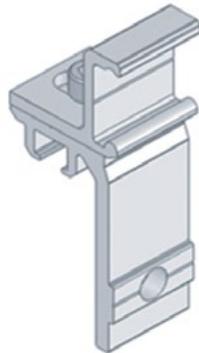
*Including spring pin, M6 screw & Nut*



**UOM: 10 pcs / pk**

Mounting to beam : FATB-20 (1) , FALN-M8 (1) , FAFW-M8 (1)

**FGRA-8x9x45** Adjustable Guide Rail Bracket - Aluminum

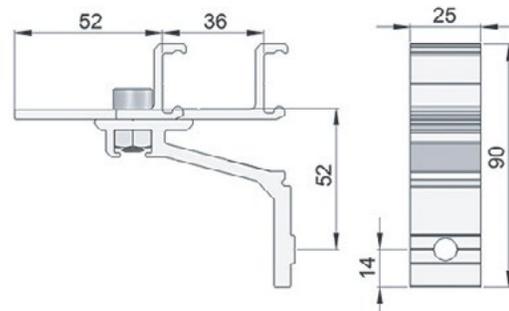
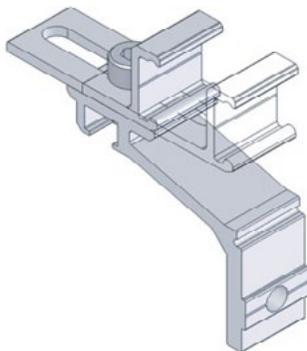


**UOM: 10 pcs / pk**

Mounting to beam : FATB-20 (1) , FALN-M8 (1) , FAFW-M8 (1)

**FGRA-26x39x45** Adjustable Guide Rail Bracket - Aluminum

*Including spring pin, M8 screw & nut*

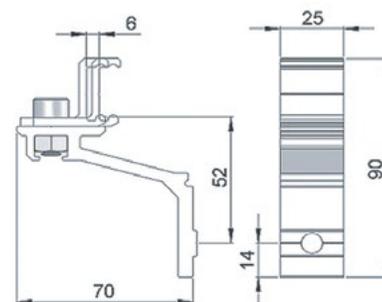
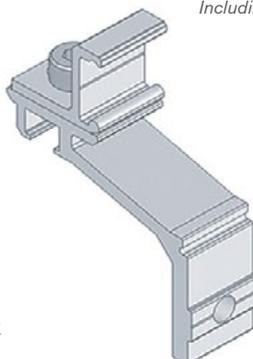


**UOM: 10 pcs / pk**

Mounting to beam : FATB-20 (1) , FALN-M8 (1) , FAFW-M8 (1)

**FGRA-26x9x45** Adjustable Guide Rail Bracket - Aluminum

*Including spring pin, M8 screw & nut*

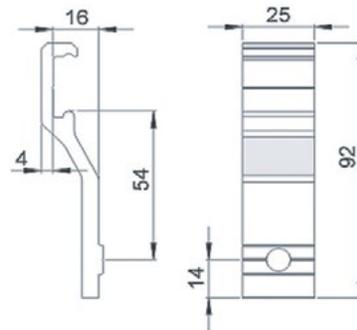
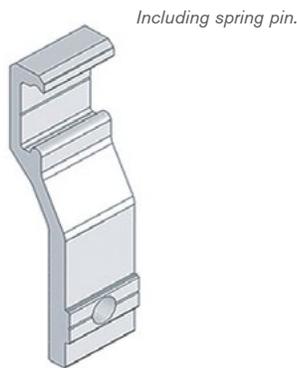


**UOM: 10 pcs / pk**

Mounting to beam : FATB-20 (1) , FALN-M8 (1) , FAFW-M8 (1)

## FGRB-16x54

### Fixed Guide Rail Bracket - Aluminum

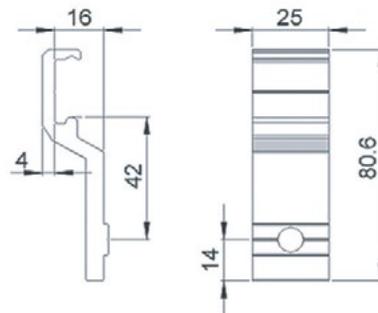
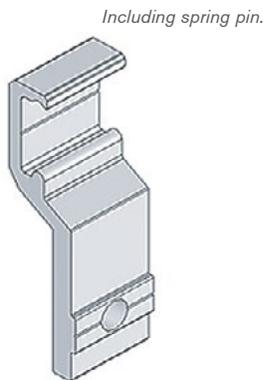


UOM: 10 pcs / pk

Mounting to beam : FATB-20 (1) , FALN-M8 (1) , FAFW-M8 (1)

## FGRB-16x42

### Fixed Guide Rail Bracket - Aluminum

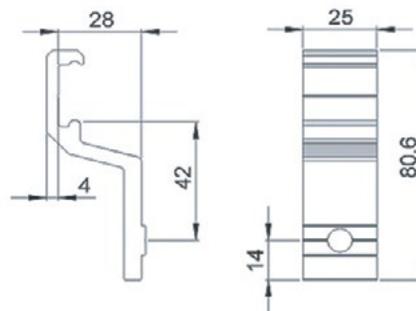
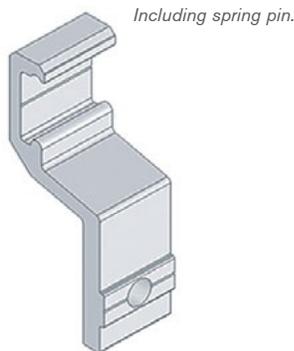


UOM: 10 pcs / pk

Mounting to beam : FATB-20 (1) , FALN-M8 (1) , FAFW-M8 (1)

## FGRB-28x42

### Fixed Guide Rail Bracket - Aluminum

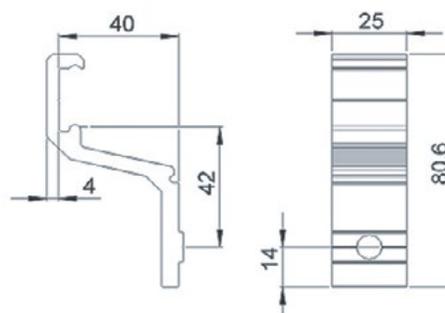
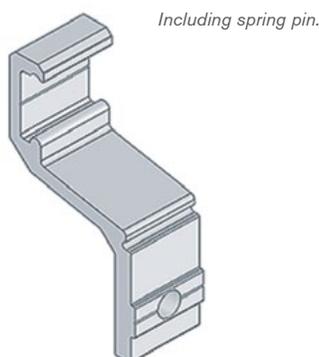


UOM: 10 pcs / pk

Mounting to beam : FATB-20 (1) , FALN-M8 (1) , FAFW-M8 (1)

## FGRB-40x42

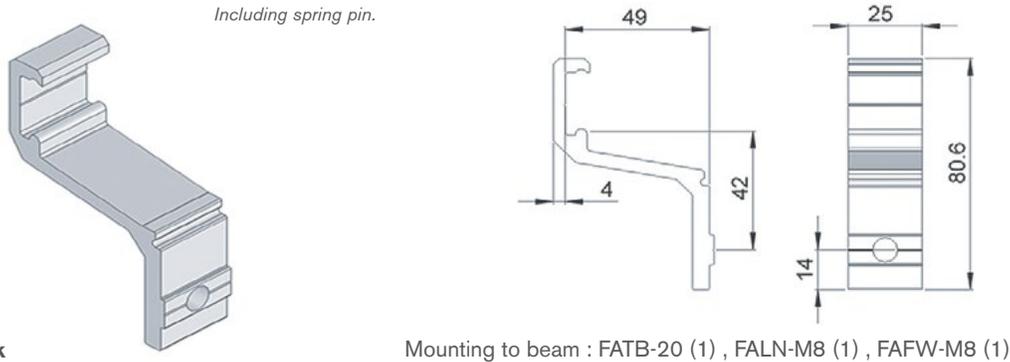
### Fixed Guide Rail Bracket - Aluminum



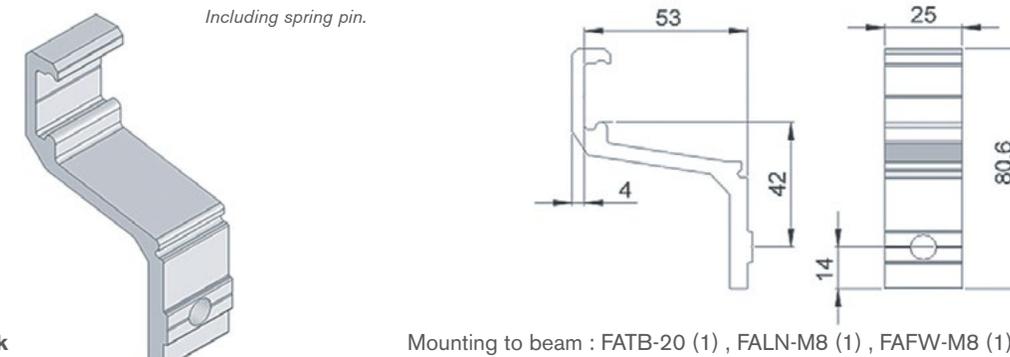
UOM: 10 pcs / pk

Mounting to beam : FATB-20 (1) , FALN-M8 (1) , FAFW-M8 (1)

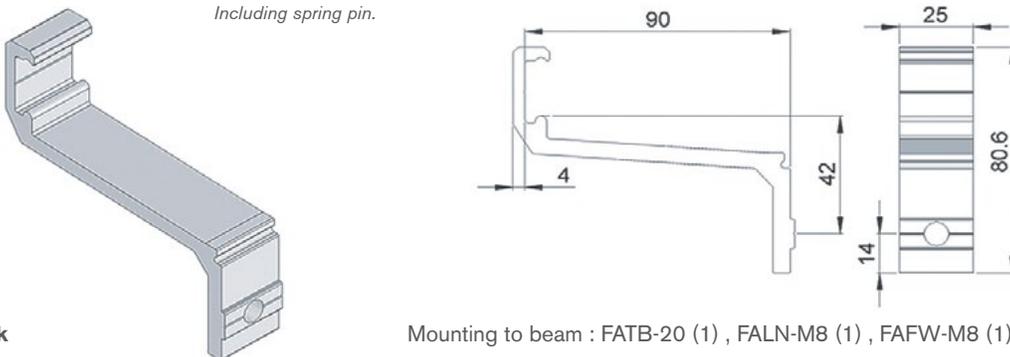
**FGRB-49x42** Fixed Guide Rail Bracket - Aluminum



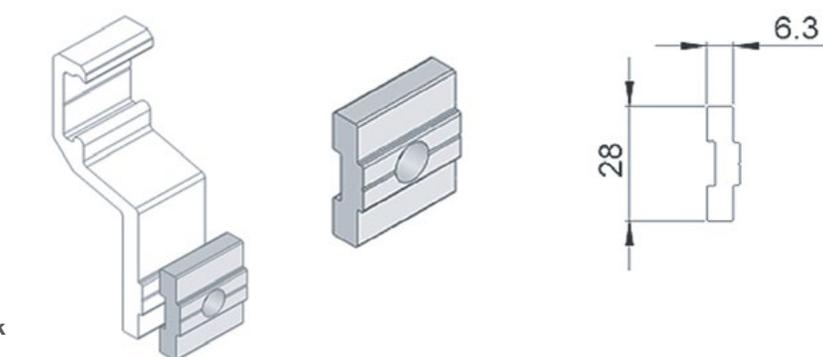
**FGRB-53x42** Fixed Guide Rail Bracket - Aluminum



**FGRB-90x42** Fixed Guide Rail Bracket - Aluminum



**FGRD-6** Guide Rail Bracket Spacer - Aluminum



**FGRD-6B** Spacer for FGRB-40x ## - Polyamide (## = Diameter in mm)

UOM: 10 pcs / pk

For use with guide rail bracket support:  
 FGRB – 40 x 18 / 20  
 FGRB – 40 x 15 x 20

**FGRC-20** Guide Rail Support - Aluminum

UOM: 10 pcs / pk

Mounting: FAHB-M8 x 12 (1), FASN-M8 (1), FAFW-M8 (1)

**FGRC-20A** Guide Rail Support - Aluminum

UOM: 10 pcs / pk

Mounting: C'SUNK M8 x 12

**FGRB-16x42C** Guide Rail Bracket - Polyamide

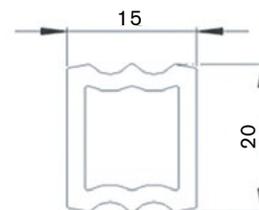
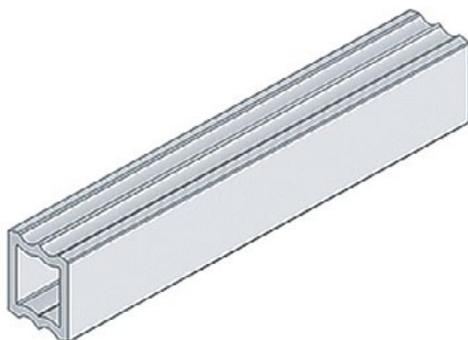
UOM: 10pcs / pk

**FGRB-16x52C** Guide Rail Bracket - Polyamide

UOM: 10pcs / pk

**FGRR-15x20**

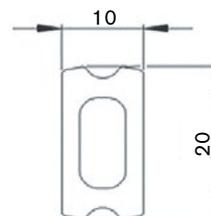
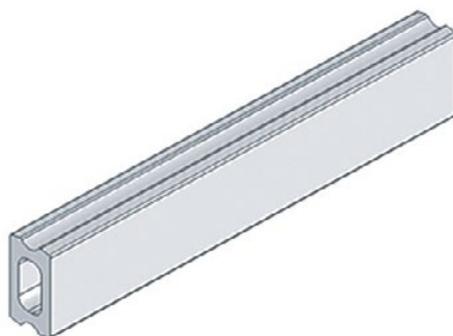
Guide Rail Rectangular, 15mm x 20 mm - Aluminum



**UOM: 3 meter / length**

**FGRR-10x20**

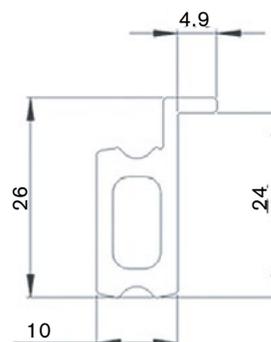
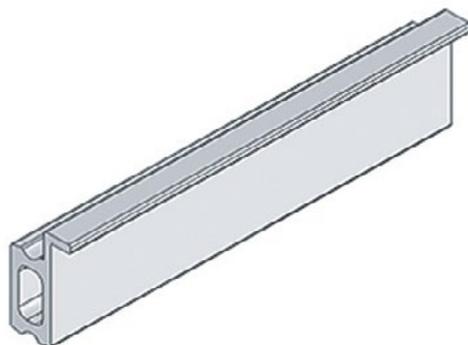
Guide Rail Rectangular, 10 mm x 20 mm - Aluminum



**UOM: 3 meter / length**

**FGRR-10x20F**

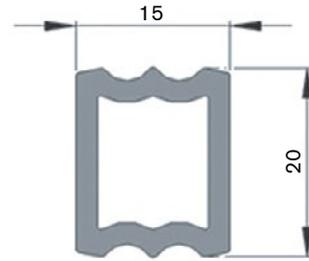
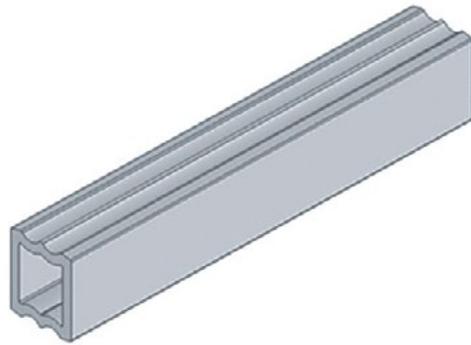
Guide Rail Rectangular, 10 mm x 20 mm Type F - Aluminum



**UOM: 3 meter / length**

**FGRR-15X20P**

Guide Rail Rectangular, 15mm x 20 mm – HDPE



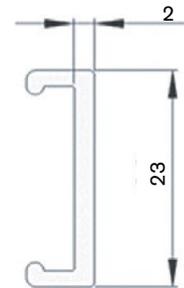
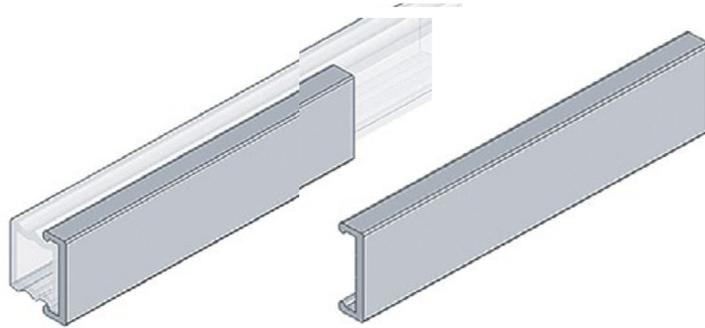
UOM: 3 meter / length

**FGRT-3x23**

Guide Rail Cover - HDPE

**FGRT-3x23A**

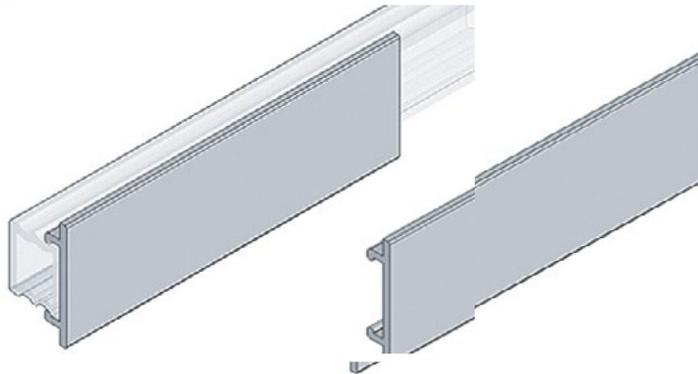
Guide Rail Cover – HDPE ( Conductive )



UOM: 3 meter / length

**FGRT-3x33**

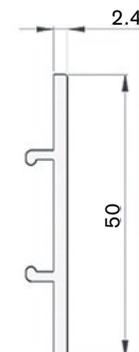
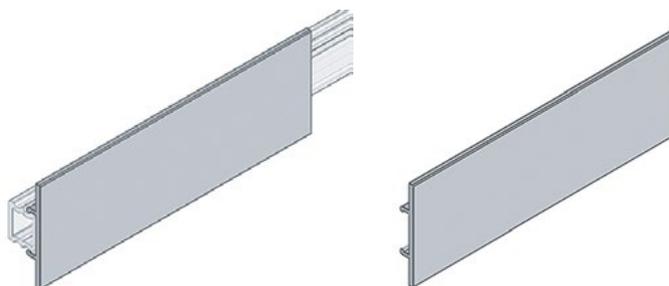
Guide Rail Cover - HDPE



UOM: 3 meter / length

**FGRT-3x50**

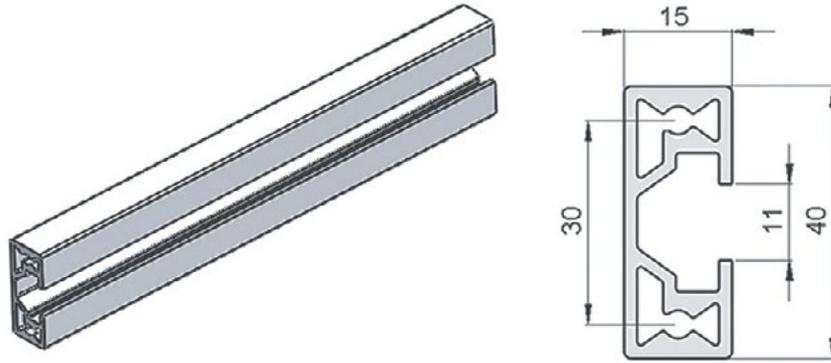
Guide Rail Cover - HDPE



UOM: 3 meter / length

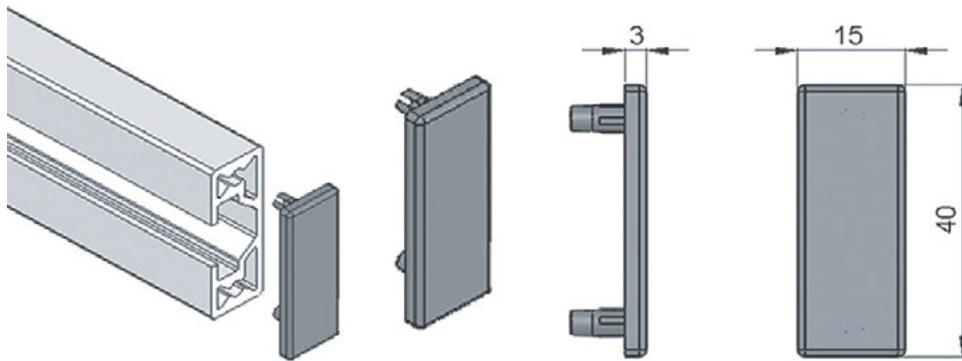
**FGRR-15x40** Guide Rail Rectangular, 15mm x 40 mm – Aluminum

UOM: 3 meter / length



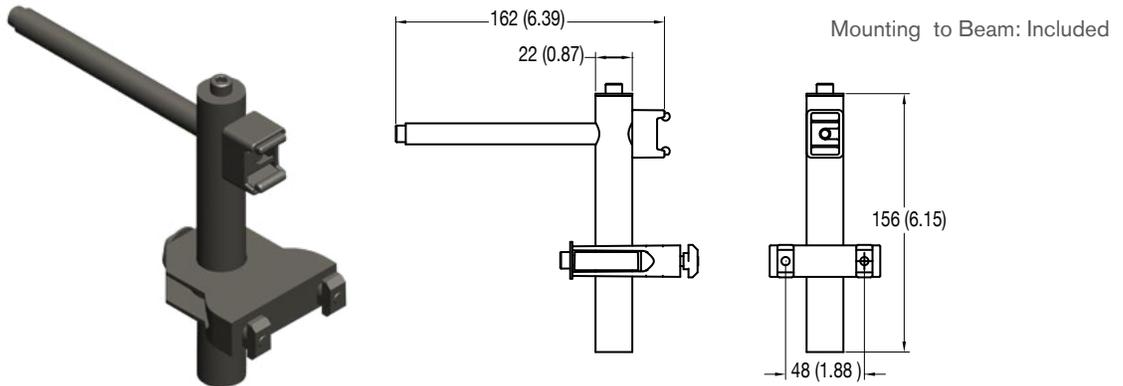
**FGEC-15x40** End Cap for FGRR-15x40 - Polyamide

UOM: 10pcs / pk



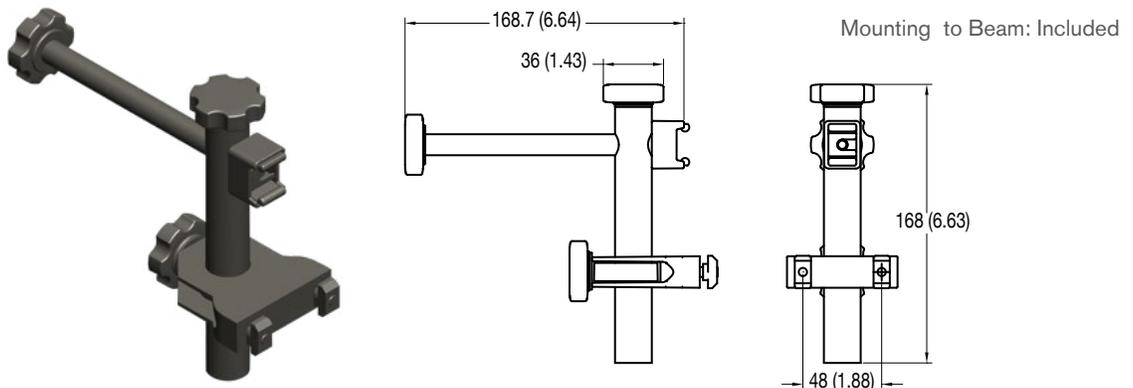
**FGRA-22HD** Guide Rail Support Assembly, Heavy Duty

UOM: pc

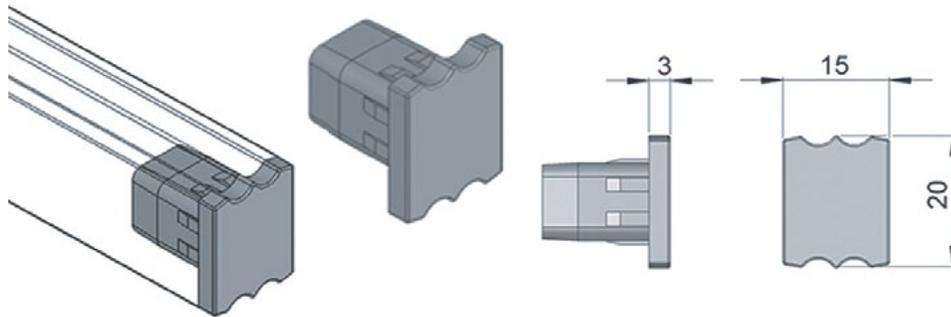


**FGRA-22HDT** Guide Rail Support Assembly, Toolless, Heavy Duty

UOM: pc



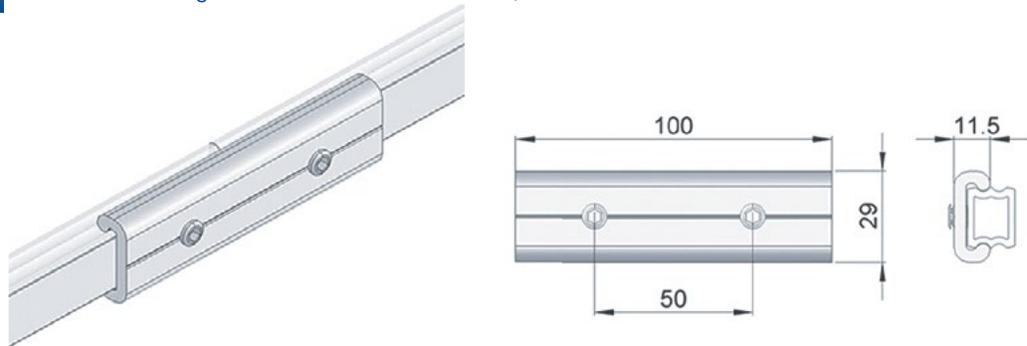
**FGEC-15x20** End Cap for FGRR-15x20 - Polyamide



UOM: 10pcs / pk

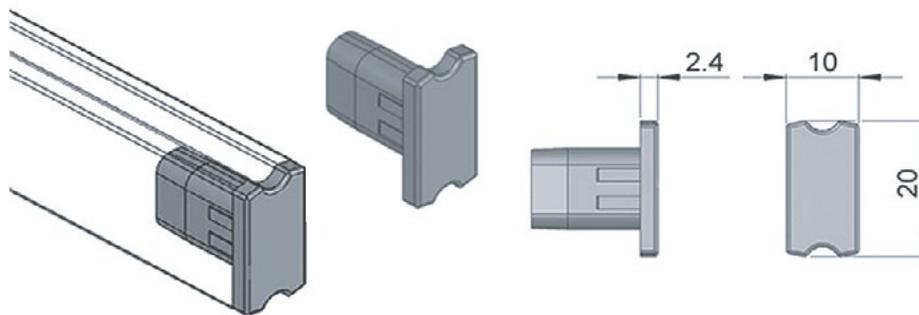
**FGRC-100** Rail Connecting – Aluminum L = 100 mm , B = 50 mm

**FGRC-60** Rail Connecting – Aluminum L = 60 mm , B = 30 mm



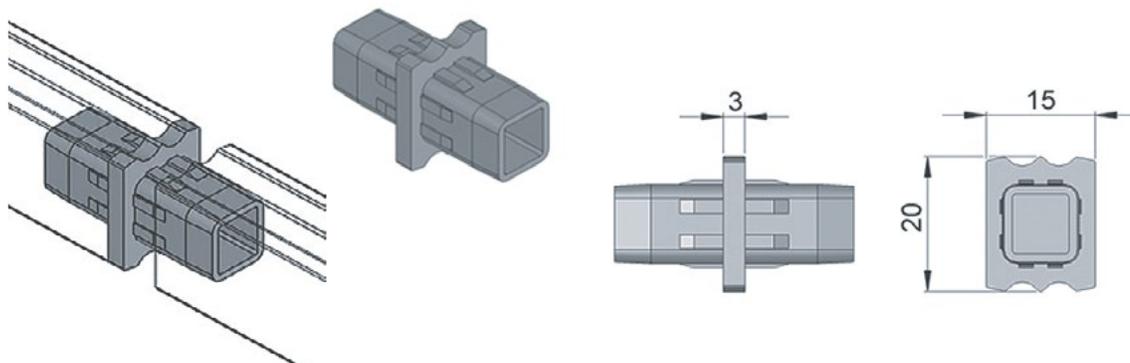
UOM: 10pcs / pk

**FGEC-10x20** End Cap for FGRR-10x20 & FGRR10x20F - Polyamide



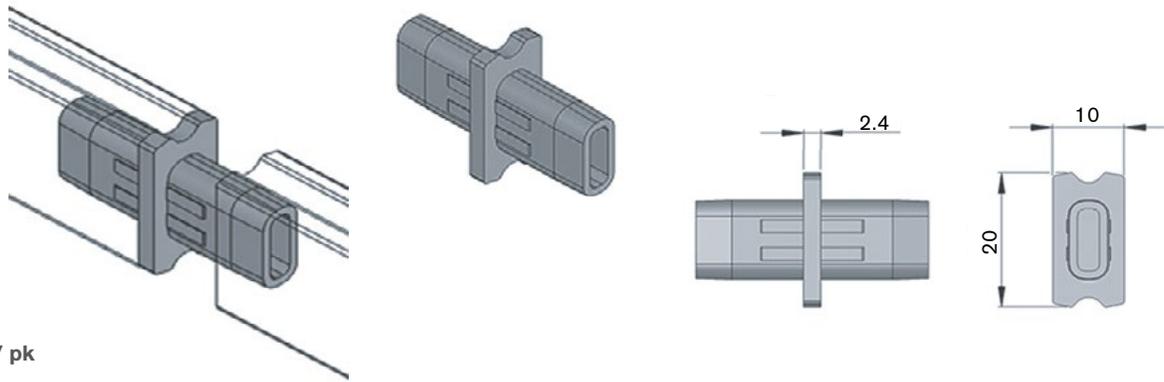
UOM: 10pcs / pk

**FGRJ-15x20** Connecting Plug for FGRR-15x20 - Polyamide



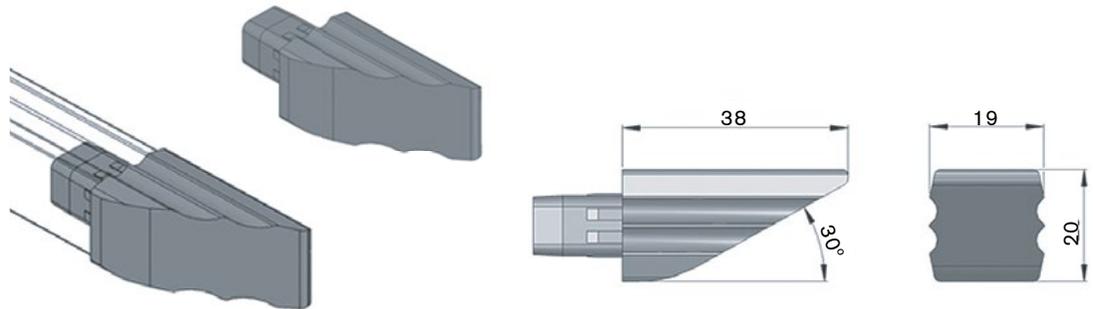
UOM: 10pcs / pk

**FGRJ-10x20** Connecting Plug for FGRR-10x20 & FGRR-10x20F - Polyamide



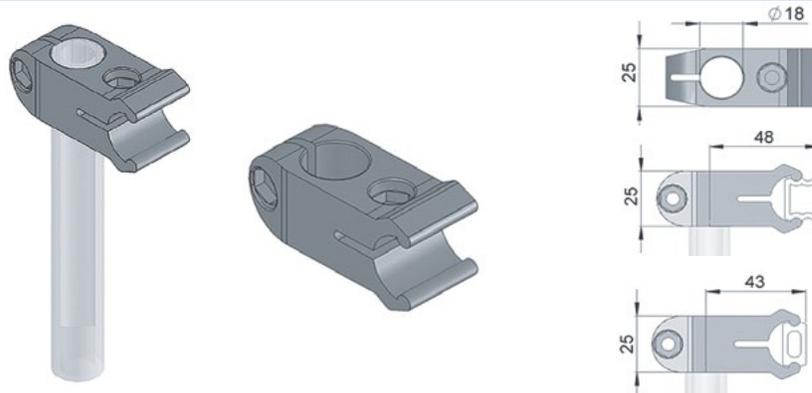
UOM: 10pcs / pk

**FGEC-30D** 30° End Cap for FGRR-15x20 - Polyamide



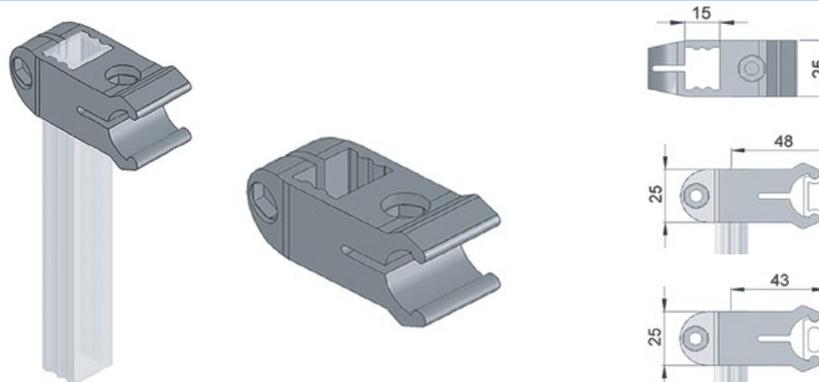
UOM: 10pcs / pk

**FGRS-18** Guide Rail Support - Polyamide



UOM: 10pcs / pk

**FGRS-15x20** Guide Rail Support - Polyamide

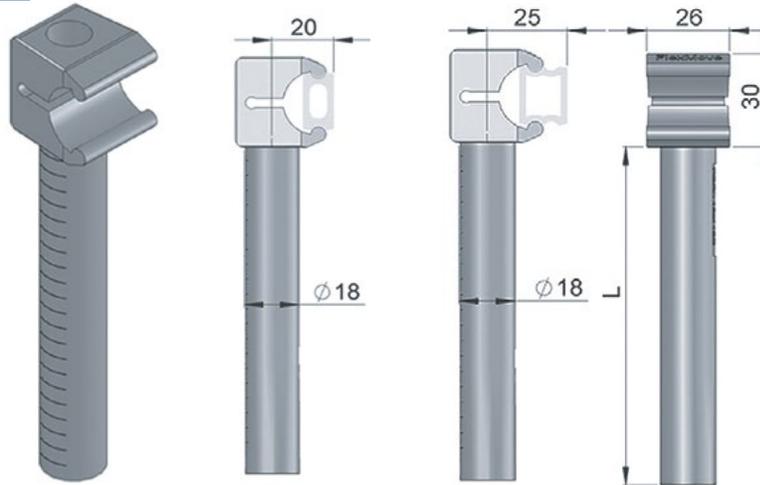


UOM: 10pcs / pk

**FGRL-18x110C** Guide Rail Support, L = 110 mm - Polyamide

**FGRL-18x160C** Guide Rail Support, L = 160 mm - Polyamide

**UOM: 10pcs / pk**



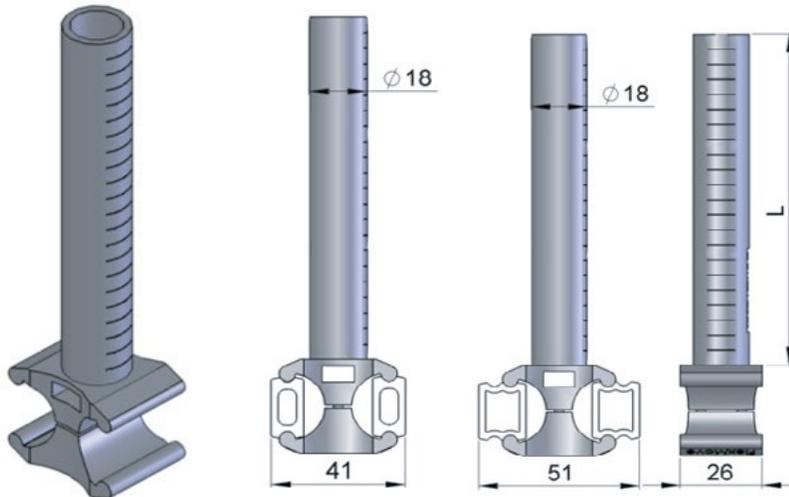
Note:  
Plastic guide supports  
used for light products.

To be used directly with guide rail  
bracket support FGRL- 42 x 18V  
or FGRL-18 x 20

**FGRC-18x110C** Double Guide Rail Support, L = 110 mm - Polyamide

**FGRC-18x160C** Double Guide Rail Support, L = 160 mm - Polyamide

**UOM: 10pcs / pk**



Note:  
Plastic guide supports  
used for light products.

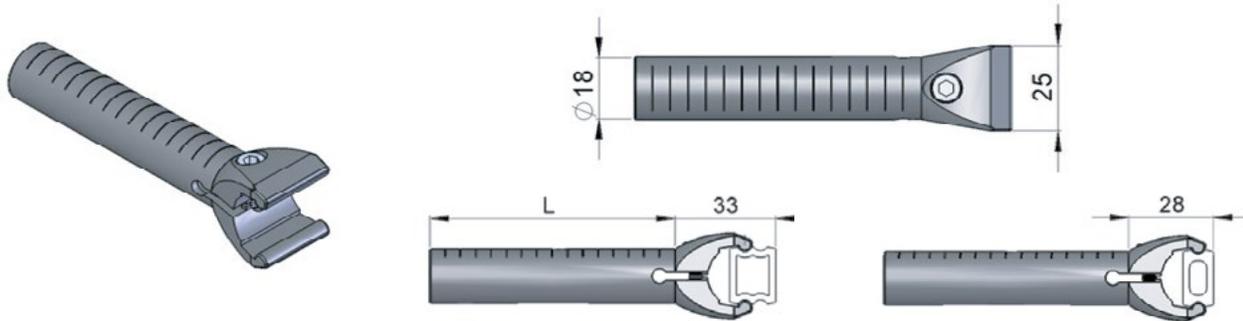
Suitable for use with cross  
connector FGRC-18 x18 and  
a crossing 18 mm aluminum  
tube above the double track.

**FGRK-18x40A** Guide Rail Support, L = 40 mm - Polyamide

**FGRK-18x60A** Guide Rail Support, L = 60 mm - Polyamide

**FGRK-18x80A** Guide Rail Support, L = 80 mm - Polyamide

**FGRK-18x130A** Guide Rail Support, L = 130 mm - Polyamide

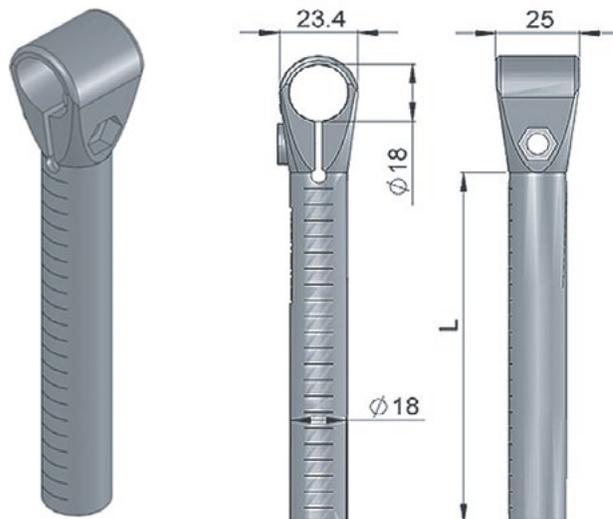


**UOM: 10pcs / pk**

Suitable for use with cross connector FGRB-18 x18 and FGFR – 42 x 18V

**FGRL-18x110CA** Guide Rail Support, L = 110 mm - Polyamide

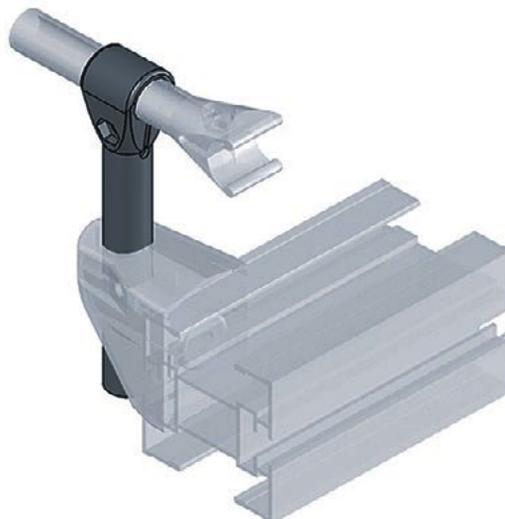
**FGRL-18x160CA** Guide Rail Support, L = 160 mm - Polyamide



Note:  
Plastic guide supports  
used for light products.

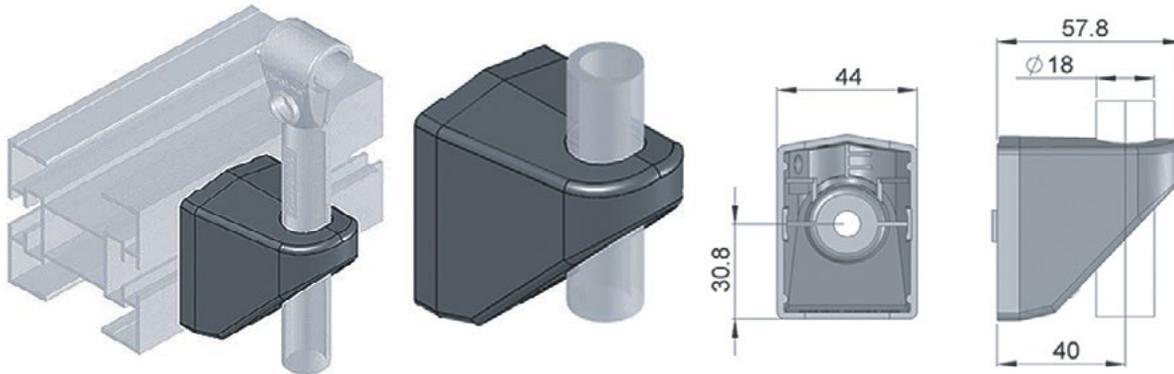
**UOM: 10pcs / pk**

Suitable for use with cross connector FGRK – 18 x 80 / 130 / 40A / 60A / 80A /130A



## FGRF-42x18V

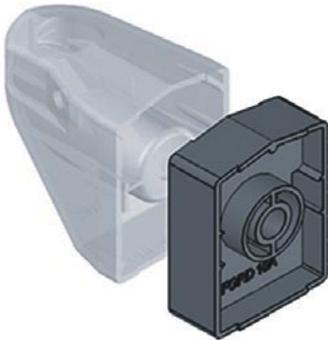
## Guide Rail Bracket – Polyamide



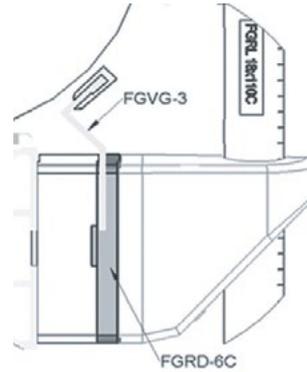
**UOM: 10pcs / pk**

To be used with :

- FGGR - 18 x \* 100
- FGRL - 18 x 110C / 160C
- FGRC - 18 x 110C / 160C

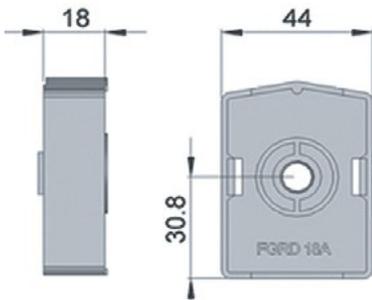


For use with guide rail bracket support FGRF -42 x 18V



### FGRD-18A

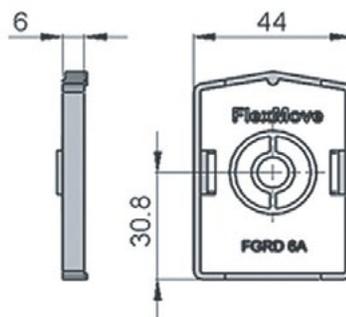
Spacer for FGRF-42x18V - Polyamide



**UOM: 10pcs / pk**

### FGRD-6A

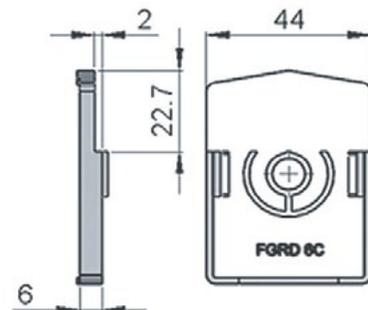
Spacer for FGRF-42x18V - Polyamide



**UOM: 10pcs / pk**

### FGRD-6C

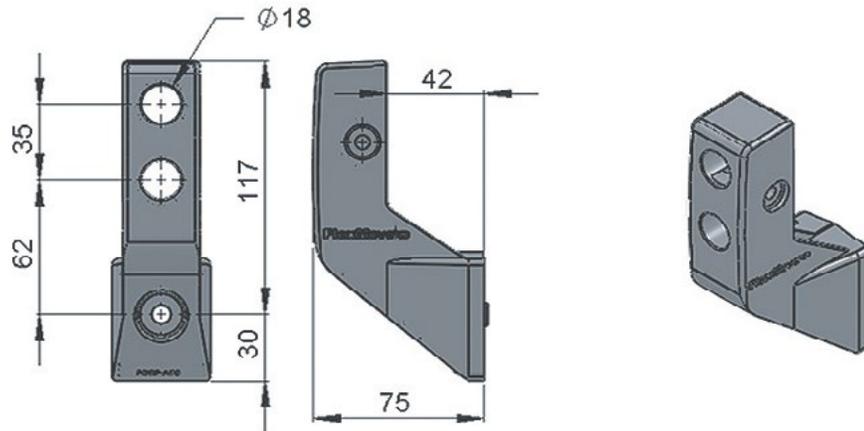
Spacer for FGRF-42x18V - Polyamide



**UOM: 10pcs / pk**

## FGRF-A35

Guide Rail Bracket A35 – Polyamide

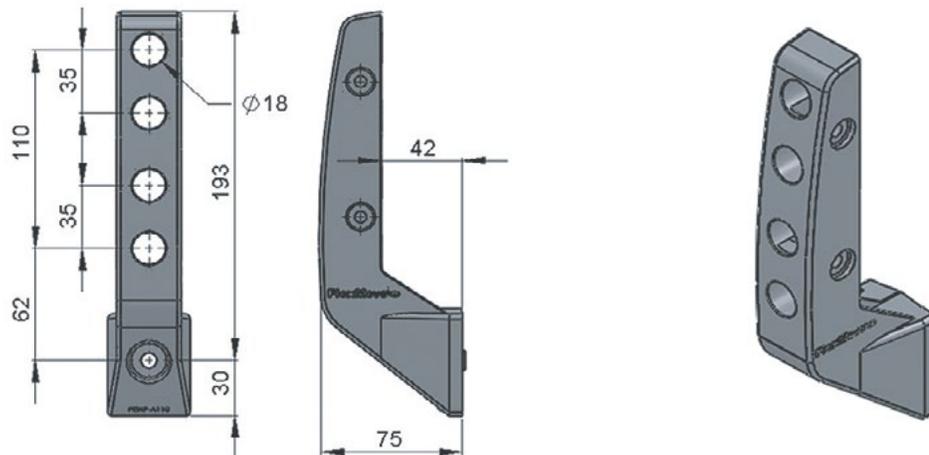


UOM: 10pcs / pk

To be used with guide rail support. For 1-2 guide rail levels.

## FGRF-A110

Guide Rail Bracket A110 – Polyamide



UOM: 10pcs / pk

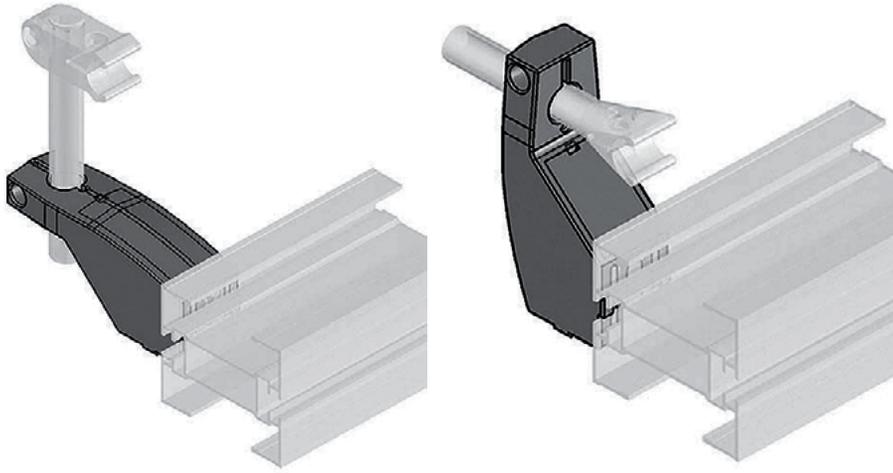
To be used with guide rail support. For 1-4 guide rail levels.

## FGRF-DP

FGRF Dummy Plug – Polyamide

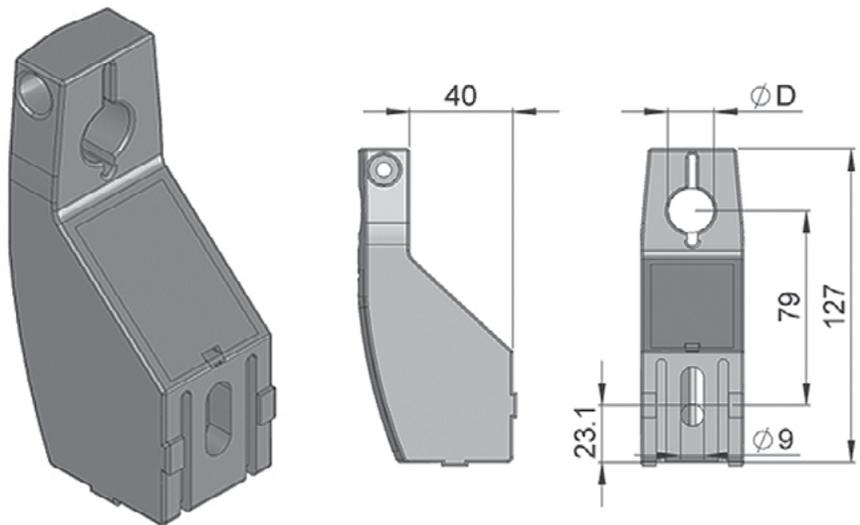


UOM: 10pcs / pk



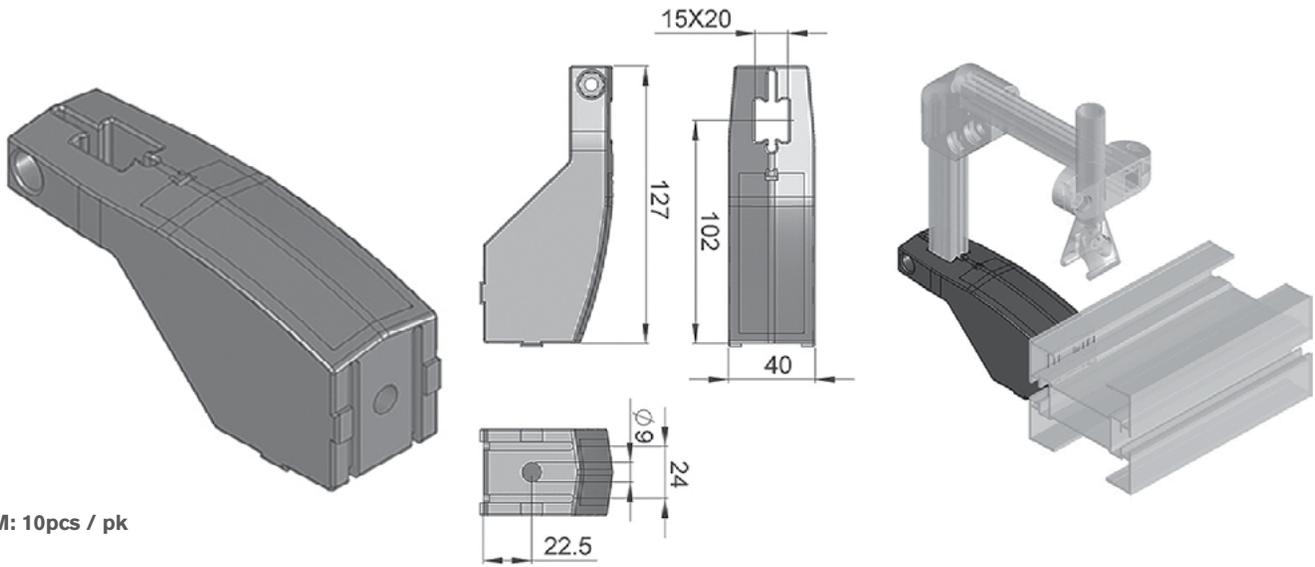
**FGRB-40x18** Guide Rail Bracket, D = 18 mm - Polyamide

**FGRB-40x20** Guide Rail Bracket, D = 20 mm - Polyamide



UOM: 10pcs / pk

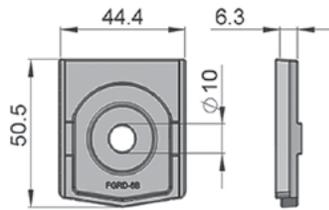
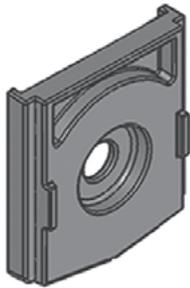
**FGRB-40x15x20** Guide Rail Bracket - Polyamide



UOM: 10pcs / pk

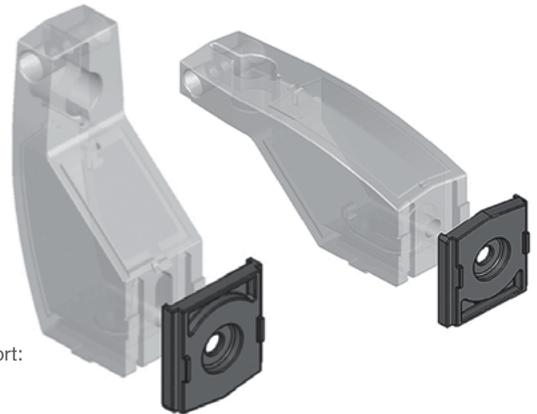
## FGRD-6B

Spacer for FGRB-40x ## - Polyamide



UOM: 10pcs / pk

For use with guide rail bracket support:  
 FGRB - 40 x 18 / 20  
 FGRB - 40 x 15 x 20



## FGRB-18x18

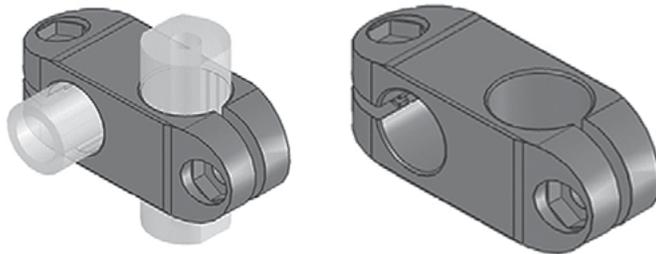
Guide Rail Bracket,  $\phi A = 18$  mm,  $\phi B = 18$  mm - Polyamide

## FGRB-18x20

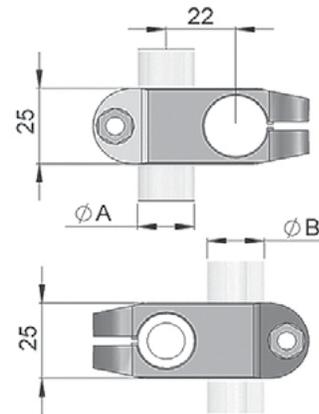
Guide Rail Bracket,  $\phi A = 18$  mm,  $\phi B = 20$  mm - Polyamide

## FGRB-20x20

Guide Rail Bracket,  $\phi A = 20$  mm,  $\phi B = 20$  mm - Polyamide



UOM: 10pcs / pk

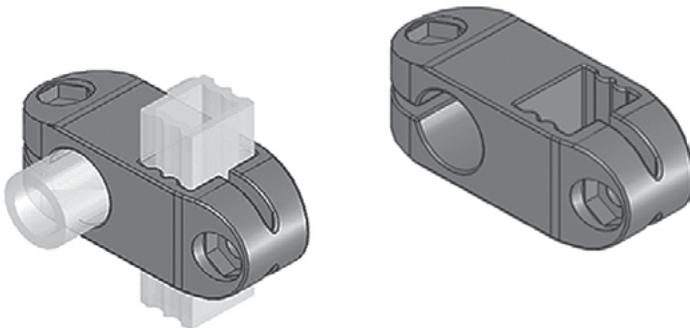


## FGRB-18x20T

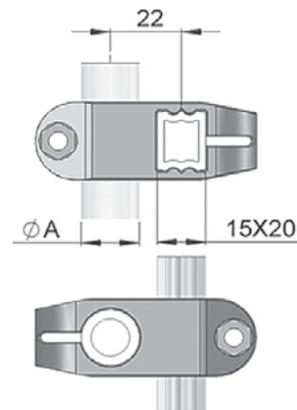
Guide Rail Bracket,  $\phi A = 18$ mm - Polyamide

## FGRB-20x20T

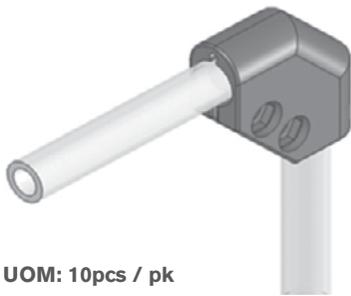
Guide Rail Bracket,  $\phi A = 20$  mm - Polyamide



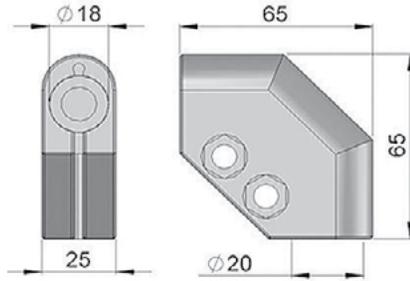
UOM: 10pcs / pk



**FGRX-18x20** 90° Corner Connector - Polyamide



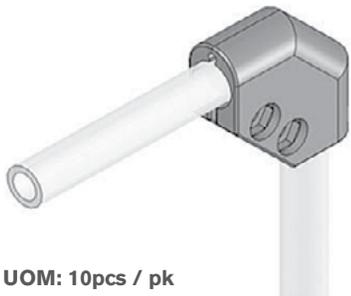
UOM: 10pcs / pk



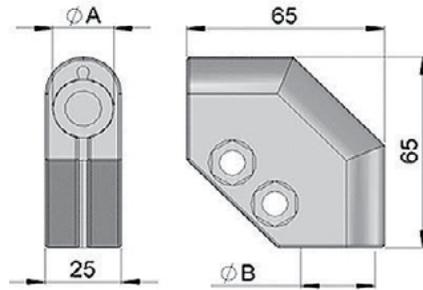
For use with :  
 FGGR – 18 x 100 / 150 / 200 / 250 / 300  
 FGDT – 70 / 80 / 100 / 150 / 200 / 250

**FGRX-18x18** 90° Corner Connector, ØA = 18mm, ØB = 18mm - Polyamide

**FGRX-20x20** 90° Corner Connector, ØA = 20 mm, ØB = 20 mm - Polyamide



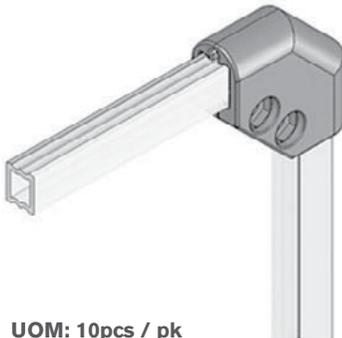
UOM: 10pcs / pk



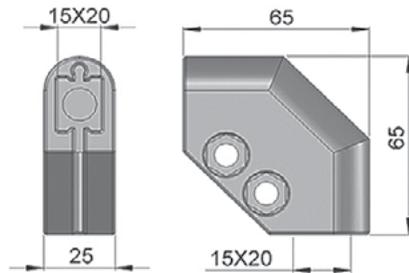
For use with :  
 FGGR – 18 x 100 / 150 / 200 / 250 / 300  
 FGDT – 70 / 80 / 100 / 150 / 200 / 250

90° Corner Connector - Polyamide

**FGRX-15x20** 90° Corner Connector - Polyamide

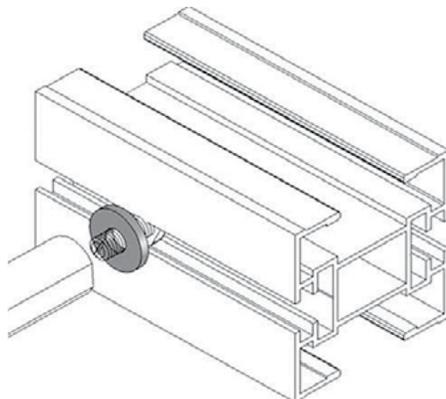


UOM: 10pcs / pk

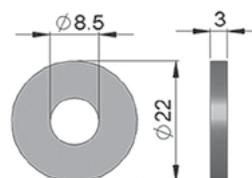


For use with : F  
 GRR – 15 x 20 / 20 P

**FGSP-DT** Distance Tube Spacer - POM

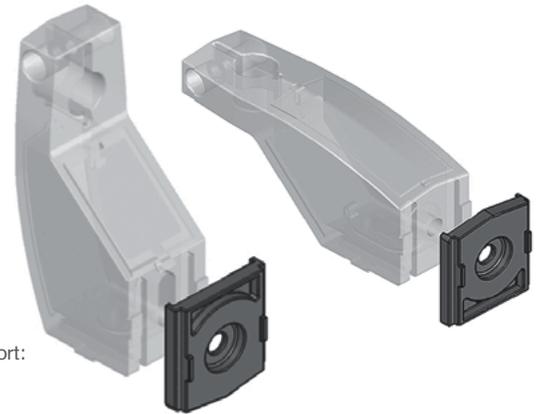
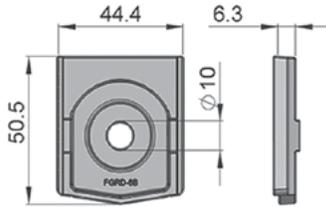
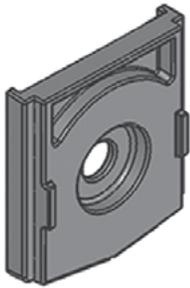


UOM: 10pcs / pk



## FGRD-6B

Spacer for FGRB-40x ## - Polyamide

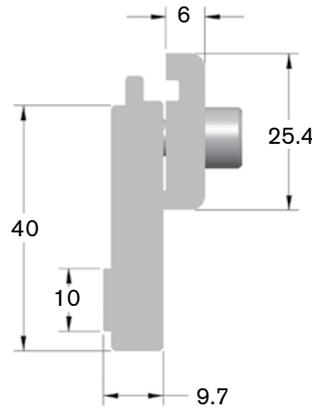
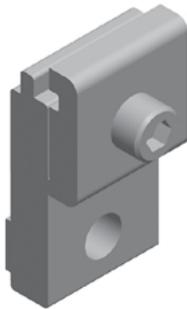


UOM: 10pcs / pk

For use with guide rail bracket support:  
 FGRB – 40 x 18 / 20  
 FGRB – 40 x 15 x 20

## FGRB-HS

High Side Guide Clip Assembly



UOM: 10pcs / pk

Mounting to Beam:  
 FATB-20(1)  
 FALN-M8(1)  
 FAFW-M8(1)

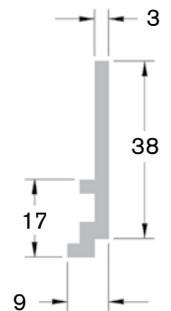
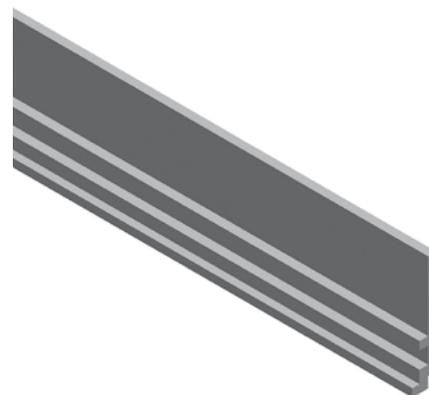
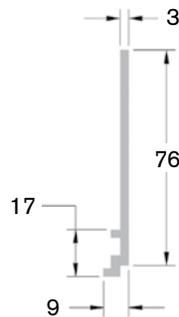
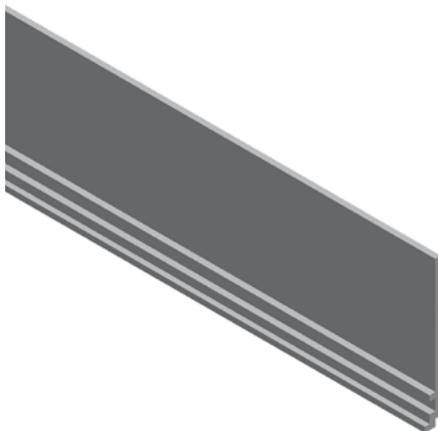
Available in North America only.

## FGHS-70

Guide Rail, 70 mm High Side - Aluminum

## FGHS-30

Guide Rail, 30 mm High Side - Aluminum



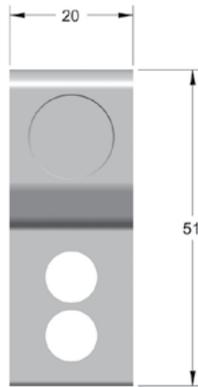
UOM: 3 meter/length

UOM: 3 meter/length

Available in North America only.

**FGRB-PG**

Pallet Guide Mounting Clip Assembly



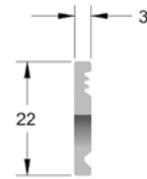
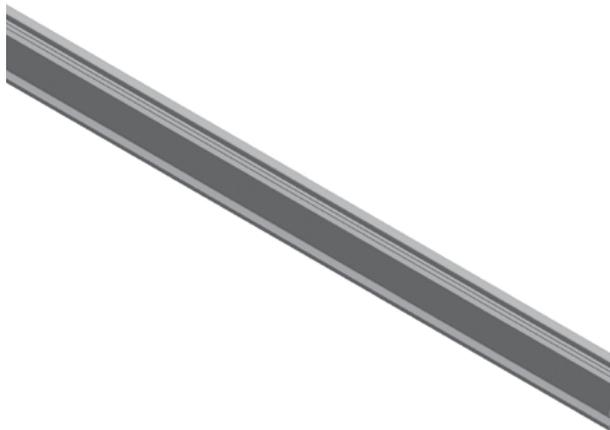
**UOM: 10pcs / pk**

Available in North America only.

Mounting to Beam:  
 FATB-20(1)  
 FALN-M8(1)  
 FAFW-M8(1)

**FGPG-A**

Pallet Guide Backing Rail - Aluminum

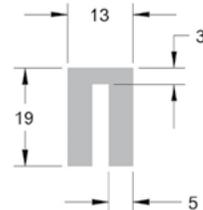
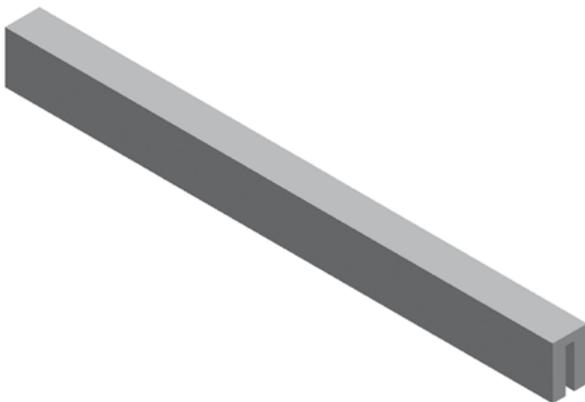


**UOM: 3 meter/length**

Available in North America only.

**FGPG-U**

Pallet Guide UHMW Guide



**UOM: 3 meter/length**

Available in North America only.

Direct Drive, Standard Load, Fixed Speed - 3/4 inch Shaft

| Chart 6   |            | 90° eDrive® NEMA C-Face |        |       |                |       |     |         |      |     |         |      |             |          |      |               | Regulatory Approvals |  |  |
|---|------------|-------------------------|--------|-------|----------------|-------|-----|---------|------|-----|---------|------|-------------|----------|------|---------------|----------------------|--|--|
| <ul style="list-style-type: none"> <li>Sealed gearmotors</li> <li>NEMA 56 C face</li> <li>Totally enclosed, fan cooled</li> <li>115V 1 phase includes switch, cord and overload protection</li> <li>208-230/460V 3 phase wiring by others</li> <li>60 Hz</li> <li>Order 3 phase starter separately, see page 226</li> </ul> |            |                         |        |       |                |       |     |         |      |     |         |      |             |          |      |               |                      |  |  |
|   |            |                         |        |       |                |       |     |         |      |     |         |      |             |          |      |               |                      |  |  |
| Part Number   | Belt Speed |                         |        |       |                |       | RPM | 1 Phase |      |     | 3 Phase |      |             | in.-lbs. | Nm   | Starter Chart |                      |  |  |
|   | 65 mm      |                         | 85 mm  |       | 105 and 150 mm |       |     | Hp      | kW   | FLA | Hp      | kW   | FLA         |          |      |               |                      |  |  |
|   | Ft/min     | M/min                   | Ft/min | M/min | Ft/min         | M/min |     |         |      |     |         |      |             |          |      |               |                      |  |  |
| 32M060ES4(vp)FN   | 39         | 12                      | 39     | 12    | 41             | 12    | 29  | 0.5     | 0.37 | 7.4 | 0.5     | 0.37 | 2.1-2 / 1.0 | 226      | 25.5 | M             |                      |  |  |
| 32M040ES4(vp)FN   | 57         | 17                      | 57     | 17    | 60             | 18    | 43  | 0.5     | 0.37 | 7.4 | 0.5     | 0.37 | 2.1-2 / 1.0 | 247      | 27.9 | M             |                      |  |  |
| 32M020ES4(vp)FN   | 115        | 35                      | 115    | 35    | 120            | 37    | 86  | 0.5     | 0.37 | 7.4 | 0.5     | 0.37 | 2.1-2 / 1.0 | 248      | 27.9 | M             |                      |  |  |

(vp) = Voltage and Phase 11 = 115V, 1 phase 23 = 208 - 230 / 460V, 3 phase

Available in North America only.

Direct Drive, Standard Load, Variable Speed - 3/4 inch Shaft

| Chart 10   |            | 90° eDrive® NEMA C-Face VFD Rated |        |        |                |        |      |         |      |           |           |      |                          |  |  |  | Regulatory Approvals |  |  |
|--|------------|-----------------------------------|--------|--------|----------------|--------|------|---------|------|-----------|-----------|------|--------------------------|--|--|--|----------------------|--|--|
| <ul style="list-style-type: none"> <li>Variable frequency drive, 6 - 60 Hz</li> <li>Sealed gearmotor</li> <li>NEMA 56 C Face</li> <li>Totally enclosed, fan cooled</li> <li>230/460 Volts, 3 Phase</li> <li>Order controller separately, see page 226</li> </ul> |            |                                   |        |        |                |        |      |         |      |           |           |      |                          |  |  |  |                      |  |  |
|  |            |                                   |        |        |                |        |      |         |      |           |           |      |                          |  |  |  |                      |  |  |
| Part Number  | Belt Speed |                                   |        |        |                |        | RPM* | 3 Phase |      |           | in.-lbs.* | Nm*  | Vari-Speed Control Chart |  |  |  |                      |  |  |
|  | 65 mm      |                                   | 85 mm  |        | 105 and 150 mm |        |      | Hp      | kW   | FLA       |           |      |                          |  |  |  |                      |  |  |
|  | Ft/min     | M/min                             | Ft/min | M/min  | Ft/min         | M/min  |      |         |      |           |           |      |                          |  |  |  |                      |  |  |
| 32M060ES423EN  | 9-39       | 2.9-121.6                         | 9.6-38 | 2.9-12 | 10-41          | 3.1-12 | 29   | 0.75**  | 0.55 | 2.6 / 1.3 | 226       | 25.5 | D                        |  |  |  |                      |  |  |
| 32M040ES423EN  | 14-57      | 4.4-17                            | 14-57  | 4.3-17 | 15-60          | 4.6-18 | 43   | 0.75**  | 0.55 | 2.6 / 1.3 | 247       | 27.9 | D                        |  |  |  |                      |  |  |
| 32M020ES423EN  | 92-115     | 8.7-35                            | 28-113 | 8.6-35 | 30-120         | 9.2-37 | 86   | 0.75**  | 0.55 | 2.6 / 1.3 | 248       | 27.9 | D                        |  |  |  |                      |  |  |
| 32M010ES423EN  | 58-231     | 18-70                             | 57-228 | 17-70  | 60-242         | 18-74  | 173  | 0.75**  | 0.55 | 2.6 / 1.3 | 156       | 17.6 | D                        |  |  |  |                      |  |  |

\* = At 60 Hz \*\* = Motor is de-rated to 0.5 Hp (2.2 / 1.1 amp) for full torque throughout the speed range.

Available in North America only.

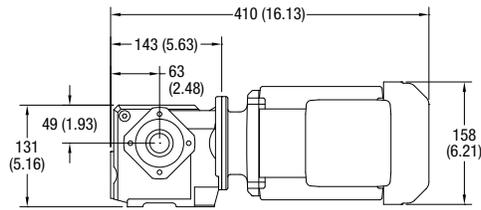
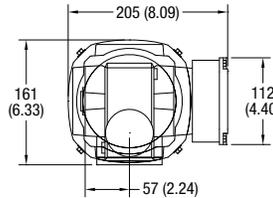
CE Note: When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

FLA = Full Load Amperes Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = mm (in)

**Direct Mount, SEW Equivalent, Fixed Speed - 20 mm Shaft**

**230/460 V 60 Hz**

- Sealed Gearmotor
- SEW SA37 Size gearmotor
- Totally enclosed fan cooled
- 230/460 V 3 Phase
- 60 Hz
- Wiring by others



Left Hand Shown

Regulatory Approvals

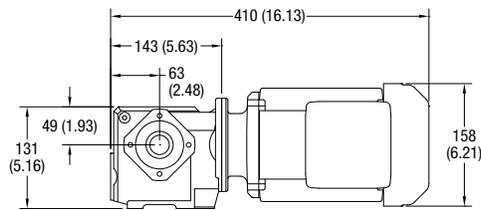
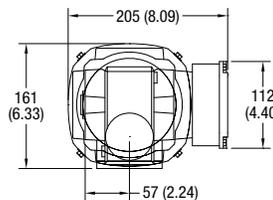


| Part Number      | Chain Speed        |       |        |       | RPM | Hp   | kW   | Amps     | in.-lbs. | Nm | Starter Chart |
|------------------|--------------------|-------|--------|-------|-----|------|------|----------|----------|----|---------------|
|                  | FK, FS, FM, FU, FV |       | FC, FL |       |     |      |      |          |          |    |               |
|                  | Ft/min             | M/min | Ft/min | M/min |     |      |      |          |          |    |               |
| FMM129(X)DS423EN | 17.1               | 5.2   | 18     | 5.5   | 13  | 0.25 | 0.18 | 1.1/0.56 | 837      | 95 | D             |
| FMM067(X)DS423EN | 32.8               | 10    | 34.8   | 10.6  | 25  | 0.5  | 0.37 | 1.9/0.95 | 699      | 79 | D             |
| FMM032(X)DS423EN | 69.9               | 21.3  | 73.8   | 22.5  | 53  | 0.75 | 0.55 | 2.7/1.35 | 653      | 74 | D             |
| FMM015(X)DS423EN | 150.3              | 45.8  | 158.5  | 48.3  | 114 | 1    | 0.75 | 3.1/1.57 | 444      | 50 | D             |
| FMM013(X)DS423EN | 171.3              | 52.2  | 180.8  | 55.1  | 130 | 1    | 0.75 | 3.1/1.57 | 425      | 48 | D             |
| FMM010(X)DS423EN | 225.4              | 68.7  | 237.9  | 72.5  | 171 | 1.5  | 1.1  | 4.2/2.1  | 490      | 56 | D             |

Where (X) is L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive

**230/400 V 50 Hz**

- Sealed Gearmotor
- SEW SA37 Size gearmotor
- Totally enclosed fan cooled
- 230/400 V 3 Phase
- 50 Hz
- Wiring by others



Left Hand Shown

Regulatory Approvals



| Part Number      | Chain Speed        |       |        |       | RPM | Hp   | kW   | Amps     | in.-lbs. | Nm | Starter Chart |
|------------------|--------------------|-------|--------|-------|-----|------|------|----------|----------|----|---------------|
|                  | FK, FS, FM, FU, FV |       | FC, FL |       |     |      |      |          |          |    |               |
|                  | Ft/min             | M/min | Ft/min | M/min |     |      |      |          |          |    |               |
| FMZ099(X)DS423EN | 17.1               | 5.2   | 18     | 5.5   | 13  | 0.33 | 0.25 | 1.3/0.76 | 628      | 71 | B             |
| FMZ060(X)DS423EN | 30.2               | 9.2   | 31.8   | 9.7   | 23  | 0.5  | 0.37 | 1.9/1.09 | 717      | 81 | B             |
| FMZ029(X)DS423EN | 63.3               | 19.3  | 66.6   | 20.3  | 48  | 0.75 | 0.55 | 2.6/1.52 | 478      | 54 | B             |
| FMZ013(X)DS423EN | 137.1              | 41.8  | 144.7  | 44.1  | 104 | 1    | 0.75 | 3.1/1.79 | 363      | 41 | B             |
| FMZ009(X)DS423EN | 205.7              | 62.7  | 213.9  | 66.1  | 156 | 1.5  | 1.1  | 4.1/2.38 | 336      | 38 | B             |
| FMZ007(X)DS423EN | 284.8              | 86.8  | 300.5  | 91.60 | 216 | 2    | 1.5  | 5.6/3.23 | 372      | 42 | B             |

Where (X) is L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive

SEW gearmotors are products of SEW Eurodrive

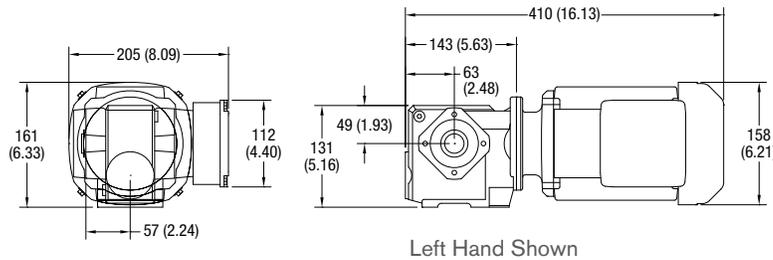
**CE Note:** When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

**FLA = Full Load Amperes** Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. **Note:** Dimensions = mm (in)

## Direct Mount, SEW Equivalent, Variable Speed - 20 mm Shaft

### 230/460 V 60 Hz

- Sealed Gearmotor
- SEW SA37 Size gearmotor
- Totally enclosed fan cooled
- 230/460 V 3 Phase
- 60 Hz
- Wiring by others



Regulatory Approvals

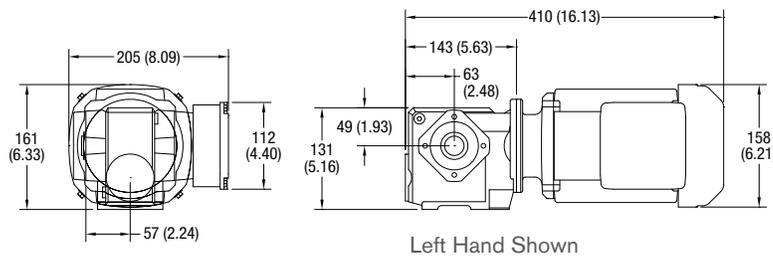


| Part Number      | Chain Speed        |             |              |             | RPM | Hp   | kW   | Amps     | in.-lbs. | Nm | Starter Chart |
|------------------|--------------------|-------------|--------------|-------------|-----|------|------|----------|----------|----|---------------|
|                  | FK, FS, FM, FU, FV |             | FC, FL       |             |     |      |      |          |          |    |               |
|                  | Ft/min             | M/min       | Ft/min       | M/min       |     |      |      |          |          |    |               |
| FMM129(X)DS423EN | 2.9 - 17.1         | 0.9 - 5.2   | 3 - 18       | 0.9 - 5.5   | 13  | 0.25 | 0.18 | 1.1/0.56 | 837      | 95 | D             |
| FMM067(X)DS423EN | 5.5 - 32.8         | 1.7 - 10    | 5.8 - 34.8   | 1.8 - 10.6  | 25  | 0.5  | 0.37 | 1.9/0.95 | 699      | 79 | D             |
| FMM032(X)DS423EN | 11.7 - 69.9        | 3.6 - 21.3  | 12.3 - 73.8  | 3.8 - 22.5  | 53  | 0.75 | 0.55 | 2.7/1.35 | 653      | 74 | D             |
| FMM015(X)DS423EN | 25.1 - 150.3       | 7.6 - 45.8  | 26.4 - 158.5 | 8.1 - 48.3  | 114 | 0.75 | 0.55 | 2.7/1.35 | 341      | 39 | D             |
| FMM013(X)DS423EN | 28.6 - 171.3       | 8.7 - 52.2  | 30.1 - 180.8 | 9.2 - 55.1  | 130 | 1    | 0.75 | 3.1/1.57 | 425      | 48 | D             |
| FMM010(X)DS423EN | 37.6 - 225.4       | 11.5 - 68.7 | 39.7 - 237.9 | 12.1 - 72.5 | 171 | 1.5  | 1.1  | 4.2/2.1  | 490      | 56 | D             |

Where (X) is L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive

### 230/400 V 50 Hz

- Sealed Gearmotor
- SEW SA37 Size gearmotor
- Totally enclosed fan cooled
- 230/400 V 3 Phase
- 50 Hz
- Wiring by others



Regulatory Approvals



| Part Number      | Chain Speed        |             |              |              | RPM | Hp   | kW   | Amps     | in.-lbs. | Nm | Starter Chart |
|------------------|--------------------|-------------|--------------|--------------|-----|------|------|----------|----------|----|---------------|
|                  | FK, FS, FM, FU, FV |             | FC, FL       |              |     |      |      |          |          |    |               |
|                  | Ft/min             | M/min       | Ft/min       | M/min        |     |      |      |          |          |    |               |
| FMZ099(X)DS423EN | 3.4 - 17.1         | 1 - 5.2     | 3.6 - 18     | 1.1 - 5.5    | 13  | 0.33 | 0.25 | 1.3/0.76 | 628      | 71 | B             |
| FMZ060(X)DS423EN | 6 - 30.2           | 1.8 - 9.2   | 6.4 - 31.8   | 1.9 - 9.7    | 23  | 0.5  | 0.37 | 1.9/1.09 | 717      | 81 | B             |
| FMZ029(X)DS423EN | 12.7 - 63.3        | 3.9 - 19.3  | 13.3 - 66.6  | 4.1 - 20.3   | 48  | 0.75 | 0.55 | 2.6/1.52 | 478      | 54 | B             |
| FMZ013(X)DS423EN | 27.4 - 137.1       | 8.4 - 41.8  | 28.9 - 144.7 | 8.8 - 44.1   | 104 | 1    | 0.75 | 3.1/1.79 | 363      | 41 | B             |
| FMZ009(X)DS423EN | 41.1 - 205.7       | 12.5 - 62.7 | 43.4 - 213.9 | 13.2 - 66.1  | 156 | 1.5  | 1.1  | 4.1/2.38 | 336      | 38 | B             |
| FMZ007(X)DS423EN | 57 - 284.8         | 17.4 - 86.8 | 60.1 - 300.5 | 18.3 - 91.60 | 216 | 2    | 1.5  | 5.6/3.23 | 372      | 42 | B             |

Where (X) is L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive

SEW gearmotors are products of SEW Eurodrive

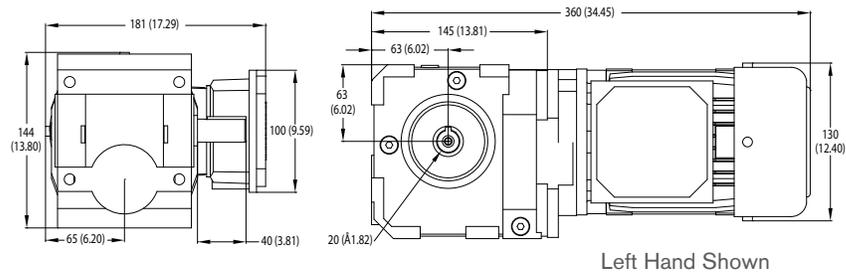
**CE Note:** When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

**FLA = Full Load Amperes** Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. **Note:** Dimensions = mm (in)

**Suspended Mount, SEW Equivalent, Fixed Speed - 20 mm Shaft**

**230/460 V 60 Hz**

- Sealed Gearmotor
- SEW SA37 Size gearmotor
- Totally enclosed fan cooled
- 230/460 V 3 Phase
- 60 Hz
- Wiring by others



**Regulatory Approvals**

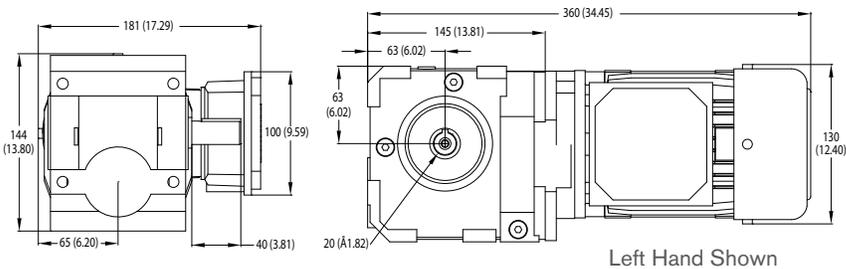


| Part Number      | Chain Speed        |       |        |       | RPM | Hp   | kW   | Amps     | in.-lbs. | Nm | Starter Chart |
|------------------|--------------------|-------|--------|-------|-----|------|------|----------|----------|----|---------------|
|                  | FK, FS, FM, FU, FV |       | FC, FL |       |     |      |      |          |          |    |               |
|                  | Ft/min             | M/min | Ft/min | M/min |     |      |      |          |          |    |               |
| FMM129(X)SS423EN | 17.1               | 5.2   | 18     | 5.5   | 13  | 0.25 | 0.18 | 1.1/0.56 | 837      | 95 | D             |
| FMM067(X)SS423EN | 32.8               | 10    | 34.8   | 10.6  | 25  | 0.5  | 0.37 | 1.9/0.95 | 699      | 79 | D             |
| FMM032(X)SS423EN | 69.9               | 21.3  | 73.8   | 22.5  | 53  | 0.75 | 0.55 | 2.7/1.35 | 653      | 74 | D             |
| FMM015(X)SS423EN | 150.3              | 45.8  | 158.5  | 48.3  | 114 | 0.75 | 0.55 | 2.7/1.35 | 341      | 39 | D             |
| FMM013(X)SS423EN | 171.3              | 52.2  | 180.8  | 55.1  | 130 | 1    | 0.75 | 3.1/1.57 | 425      | 48 | D             |
| FMM010(X)SS423EN | 225.4              | 68.7  | 237.9  | 72.5  | 171 | 1.5  | 1.1  | 4.2/2.1  | 490      | 56 | D             |

Where (X) is L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive

**230/400 V 50 Hz**

- Sealed Gearmotor
- SEW SA37 Size gearmotor
- Totally enclosed fan cooled
- 230/400 V 3 Phase
- 50 Hz
- Wiring by others



**Regulatory Approvals**



| Part Number      | Chain Speed        |       |        |       | RPM | Hp   | kW   | Amps     | in.-lbs. | Nm | Starter Chart |
|------------------|--------------------|-------|--------|-------|-----|------|------|----------|----------|----|---------------|
|                  | FK, FS, FM, FU, FV |       | FC, FL |       |     |      |      |          |          |    |               |
|                  | Ft/min             | M/min | Ft/min | M/min |     |      |      |          |          |    |               |
| FMZ099(X)SS423EN | 17.1               | 5.2   | 18     | 5.5   | 13  | 0.33 | 0.25 | 1.3/0.76 | 628      | 71 | B             |
| FMZ060(X)SS423EN | 30.2               | 9.2   | 31.8   | 9.7   | 23  | 0.5  | 0.37 | 1.9/1.09 | 717      | 81 | B             |
| FMZ029(X)SS423EN | 63.3               | 19.3  | 66.6   | 20.3  | 48  | 0.75 | 0.55 | 2.6/1.52 | 478      | 54 | B             |
| FMZ013(X)SS423EN | 137.1              | 41.8  | 144.7  | 44.1  | 104 | 1    | 0.75 | 3.1/1.79 | 363      | 41 | B             |
| FMZ009(X)SS423EN | 205.7              | 62.7  | 213.9  | 66.1  | 156 | 1.5  | 1.1  | 4.1/2.38 | 336      | 38 | B             |
| FMZ007(X)SS423EN | 284.8              | 86.8  | 300.5  | 91.60 | 216 | 2    | 1.5  | 5.6/3.23 | 372      | 42 | B             |

Where (X) is L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive

SEW gearmotors are products of SEW Eurodrive

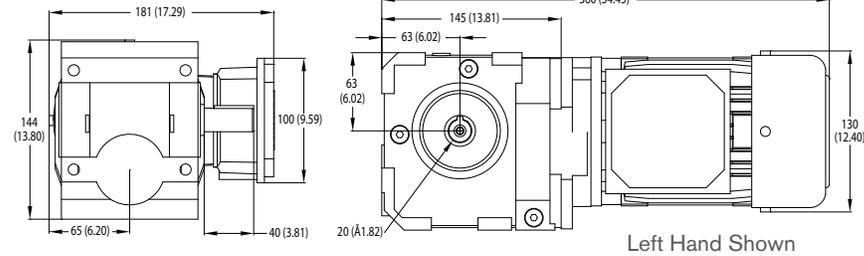
**CE Note:** When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

**FLA = Full Load Amperes** Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. **Note:** Dimensions = mm (in)

Suspended Mount, SEW Equivalent, Variable Speed - 20 mm Shaft

230/460 V 60 Hz

- Sealed Gearmotor
- SEW SA37 Size gearmotor
- Totally enclosed fan cooled
- 230/460 V 3 Phase
- 60 Hz
- Wiring by others



Regulatory Approvals

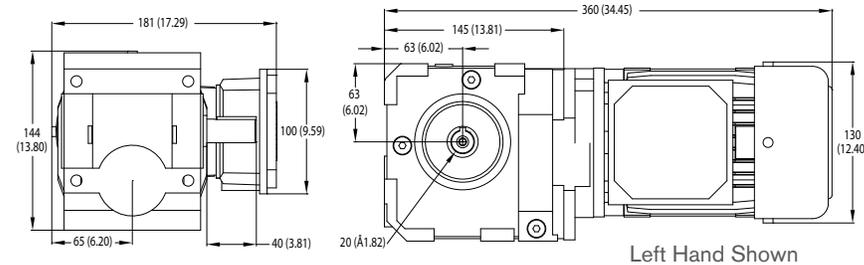


| Part Number      | Chain Speed        |             |              |             | RPM | Hp   | kW   | Amps     | in.-lbs. | Nm | Starter Chart |
|------------------|--------------------|-------------|--------------|-------------|-----|------|------|----------|----------|----|---------------|
|                  | FK, FS, FM, FU, FV |             | FC, FL       |             |     |      |      |          |          |    |               |
|                  | Ft/min             | M/min       | Ft/min       | M/min       |     |      |      |          |          |    |               |
| FMM129(X)SS423EN | 2.9 - 17.1         | 0.9 - 5.2   | 3 - 18       | 0.9 - 5.5   | 13  | 0.25 | 0.18 | 1.1/0.56 | 837      | 95 | D             |
| FMM067(X)SS423EN | 5.5 - 32.8         | 1.7 - 10    | 5.8 - 34.8   | 1.8 - 10.6  | 25  | 0.5  | 0.37 | 1.9/0.95 | 699      | 79 | D             |
| FMM032(X)SS423EN | 11.7 - 69.9        | 3.6 - 21.3  | 12.3 - 73.8  | 3.8 - 22.5  | 53  | 0.75 | 0.55 | 2.7/1.35 | 653      | 74 | D             |
| FMM015(X)SS423EN | 25.1 - 150.3       | 7.6 - 45.8  | 26.4 - 158.5 | 8.1 - 48.3  | 114 | 0.75 | 0.55 | 2.7/1.35 | 341      | 39 | D             |
| FMM013(X)SS423EN | 28.6 - 171.3       | 8.7 - 52.2  | 30.1 - 180.8 | 9.2 - 55.1  | 130 | 1    | 0.75 | 3.1/1.57 | 425      | 48 | D             |
| FMM010(X)SS423EN | 37.6 - 225.4       | 11.5 - 68.7 | 39.7 - 237.9 | 12.1 - 72.5 | 171 | 1.5  | 1.1  | 4.2/2.1  | 490      | 56 | D             |

Where (X) is L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive

230/400 V 50 Hz

- Sealed Gearmotor
- SEW SA37 Size gearmotor
- Totally enclosed fan cooled
- 230/400 V 3 Phase
- 50 Hz
- Wiring by others



Regulatory Approvals



| Part Number      | Chain Speed        |             |              |              | RPM | Hp   | kW   | Amps     | in.-lbs. | Nm | Starter Chart |
|------------------|--------------------|-------------|--------------|--------------|-----|------|------|----------|----------|----|---------------|
|                  | FK, FS, FM, FU, FV |             | FC, FL       |              |     |      |      |          |          |    |               |
|                  | Ft/min             | M/min       | Ft/min       | M/min        |     |      |      |          |          |    |               |
| FMZ099(X)SS423EN | 3.4 - 17.1         | 1 - 5.2     | 3.6 - 18     | 1.1 - 5.5    | 13  | 0.33 | 0.25 | 1.3/0.76 | 628      | 71 | B             |
| FMZ060(X)SS423EN | 6 - 30.2           | 1.8 - 9.2   | 6.4 - 31.8   | 1.9 - 9.7    | 23  | 0.5  | 0.37 | 1.9/1.09 | 717      | 81 | B             |
| FMZ029(X)SS423EN | 12.7 - 63.3        | 3.9 - 19.3  | 13.3 - 66.6  | 4.1 - 20.3   | 48  | 0.75 | 0.55 | 2.6/1.52 | 478      | 54 | B             |
| FMZ013(X)SS423EN | 27.4 - 137.1       | 8.4 - 41.8  | 28.9 - 144.7 | 8.8 - 44.1   | 104 | 1    | 0.75 | 3.1/1.79 | 363      | 41 | B             |
| FMZ009(X)SS423EN | 41.1 - 205.7       | 12.5 - 62.7 | 43.4 - 213.9 | 13.2 - 66.1  | 156 | 1.5  | 1.1  | 4.1/2.38 | 336      | 38 | B             |
| FMZ007(X)SS423EN | 57 - 284.8         | 17.4 - 86.8 | 60.1 - 300.5 | 18.3 - 91.60 | 216 | 2    | 1.5  | 5.6/3.23 | 372      | 42 | B             |

Where (X) is L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive

SEW gearmotors are products of SEW Eurodrive

**CE Note:** When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

**FLA = Full Load Amperes** Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. **Note:** Dimensions = mm (in)

## Variable Speed Controllers

| Chart D   |             | Full Feature VFD Controller |          |              |              |        |                                 |           |
|---|-------------|-----------------------------|----------|--------------|--------------|--------|---------------------------------|-----------|
| <ul style="list-style-type: none"> <li>• Full feature VFD control</li> <li>• IP65 plastic enclosure</li> <li>• Digital display</li> <li>• Keypad with Start/Stop, Forward/Reverse and speed variations</li> <li>• Includes cord to motor</li> <li>• Power to controller by others</li> <li>• Mounting hardware</li> </ul> |             |                             |          |              |              |        | <b>Regulatory Approvals</b><br> |           |
| Part Number   | Input Volts | Input Phase                 | Input Hz | Output Volts | Output Phase | Max Hp | Output Amps*                    | Reversing |
| 32MVA1122(O)  | 115         | 1                           | 60       | 230          | 3            | 0.5    | 2.3                             | Yes       |
| 32MVA2122(O)  | 230         | 1                           | 60       | 230          | 3            | 0.5    | 2.3                             | Yes       |
| 32MVA1121(O)  | 115         | 1                           | 60       | 230          | 3            | 1.0    | 4.3                             | Yes       |
| 32MVA2121(O)  | 230         | 1                           | 60       | 230          | 3            | 1.0    | 4.3                             | Yes       |
| 32MVA2127(O)  | 230         | 1                           | 60       | 230          | 3            | 2.0    | 7.0                             | Yes       |
| 32MVA2322(O)  | 230         | 3                           | 60       | 230          | 3            | 0.5    | 4.3                             | Yes       |
| 32MVA2321(O)  | 230         | 3                           | 60       | 230          | 3            | 1.0    | 2.3                             | Yes       |
| 32MVA2327(O)  | 230         | 3                           | 60       | 230          | 3            | 2.0    | 7.0                             | Yes       |
| 32MVA4342(O)  | 460         | 3                           | 60       | 460          | 3            | 0.5    | 1.2                             | Yes       |
| 32MVA4341(O)  | 460         | 3                           | 60       | 460          | 3            | 1.0    | 2.2                             | Yes       |
| 32MVA4347(O)  | 460         | 3                           | 60       | 460          | 3            | 2.0    | 4.1                             | Yes       |

In order for this drive to meet full CE requirements for European application a separate CE approve RFI filter must be installed. Product shown in chart B above have this filter pre-installed and are recommended for use in the European Union.

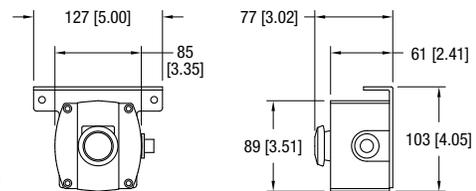
(O) = Optional M12 Accessory Port No Option = No Accessory Port E = M12 Port wired for End Stop Photo Eye Application  
 I = M12 port wired for Index Photo Eye Application Note: E or I options will work with Dorner Control Stop or Jog Button Accessories

## Jog Push Button Kit



### Specifications

- Momentary contact push button
- Plastic Nema 12 enclosure
- Quick disconnect receptacle
- Mounting for 2200/3200 and Support Stands
- Horizontal or vertical mount



|             |          |
|-------------|----------|
| Part Number | 75M-JG-1 |
|-------------|----------|



**Horizontal Mount**

Not compatible with Brushless DC Controllers

SEW gearmotors are products of SEW Eurodrive

**CE Note:** When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

**FLA = Full Load Amperes** Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. **Note:** Dimensions = mm (in)

## Manual Motor Starters

Manual motor starts are manual electronic disconnects that provide motor overload protection and are required by the National Electric Code (NEC) for safe motor operation.

- IP 55 Enclosure
- Push button Start / Stop
- Includes mounting hardware

### Regulatory Approvals



Illustration A

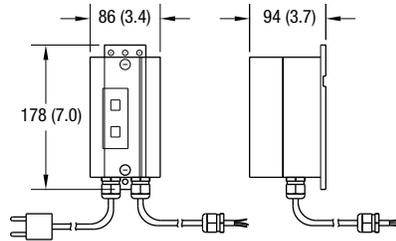
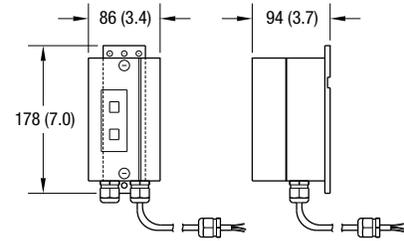


Illustration B



| Chart I  |          | 230/400V 50Hz to 2.5 amp |            |              |
|--|----------|--------------------------|------------|--------------|
| <ul style="list-style-type: none"> <li>• 230 Volts, 1 phase includes cord, plug and starter</li> <li>• 230/400 Volts, 3 phase wiring to starter by others</li> <li>• Wiring between motor and starter provided when ordered together</li> <li>• 50 Hz</li> </ul> |          |                          |            |              |
| Part Number  | In Volts | In Phase                 | Amp Range  | Illustration |
| 62(c)M21T  | 230      | 1                        | 1.6 - 2.5  | A            |
| 62(c)M23T  | 230      | 3                        | 1.0 - 1.6  | B            |
| 62(c)M43T  | 400      | 3                        | 0.63 - 1.0 | B            |

| Chart J   |          | 230/400V 50 Hz to 4 amp |           |              |
|---|----------|-------------------------|-----------|--------------|
| <ul style="list-style-type: none"> <li>• 230 Volts, 1 phase includes cord, plug and starter</li> <li>• 230/400V, 3 phase wiring to starter by others</li> <li>• Wiring between motor and starter provided when ordered together</li> <li>• 50 Hz</li> </ul> |          |                         |           |              |
| Part Number   | In Volts | In Phase                | Amp Range | Illustration |
| 62(c)M21J   | 230      | 1                       | 2.5 - 4.0 | A            |
| 62(c)M23J   | 230      | 3                       | 1.6 - 2.5 | B            |
| 62(c)M43J   | 400      | 3                       | 1.0 - 1.6 | B            |

| Chart L  |          | 230/460V 60 Hz to 1.6 amp |           |              |
|--|----------|---------------------------|-----------|--------------|
| <ul style="list-style-type: none"> <li>• 230/460 Volts, 3 phase wiring to starter by others</li> <li>• Wiring between motor and starter provided when ordered together</li> <li>• 60 Hz</li> </ul> |          |                           |           |              |
| Part Number  | In Volts | In Phase                  | Amp Range | Illustration |
| 62MM23L  | 230      | 3                         | 1.0 - 1.6 | B            |
| 62MM43L  | 460      | 3                         | 0.4 - .63 | B            |

| Chart M  |          | 230/460V 60Hz to 2.5 amp |           |              |
|--|----------|--------------------------|-----------|--------------|
| <ul style="list-style-type: none"> <li>• 230/460 Volts, 3 phase wiring to starter by others</li> <li>• Wiring between motor and starter provided when ordered together</li> <li>• 60 Hz</li> </ul> |          |                          |           |              |
| Part Number  | In Volts | In Phase                 | Amp Range | Illustration |
| 62MM23M  | 208-230  | 3                        | 1.6 - 2.5 | B            |
| 62MM43M  | 460      | 3                        | 1.0 - 1.6 | B            |

| Chart P  |          | 230/460V 60Hz to 4 amp |           |              |
|--|----------|------------------------|-----------|--------------|
| <ul style="list-style-type: none"> <li>• 230/460 Volts, 3 phase wiring to starter by others</li> <li>• Wiring between motor and starter provided when ordered together</li> <li>• 60 Hz</li> </ul> |          |                        |           |              |
| Part Number  | In Volts | In Phase               | Amp Range | Illustration |
| 62MM23U  | 208-230  | 3                      | 2.5 - 4.0 | B            |
| 62MM43P  | 460      | 3                      | 1.6 - 2.5 | B            |

| Chart Q  |          | 230/460V 60Hz to 6.3 amp |           |              |
|--|----------|--------------------------|-----------|--------------|
| <ul style="list-style-type: none"> <li>• 230/460 Volts, 3 phase wiring to starter by others</li> <li>• Wiring between motor and starter provided when ordered together</li> <li>• 60 Hz</li> </ul> |          |                          |           |              |
| Part Number  | In Volts | In Phase                 | Amp Range | Illustration |
| 62MM23Q  | 208-230  | 3                        | 4.0 - 6.3 | B            |
| 62MM43Q  | 460      | 3                        | 2.5 - 4.0 | B            |

**CE Note:** When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with NEC and CE safety directive.

(c) = Electrical Configuration G = CE German  
 F = CE French U = CE Great Britain **Note:** Dimensions = mm (in)

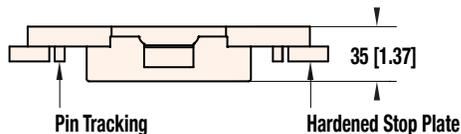
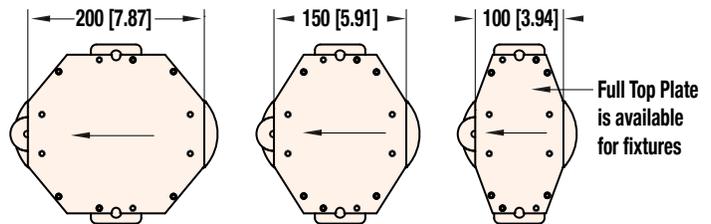
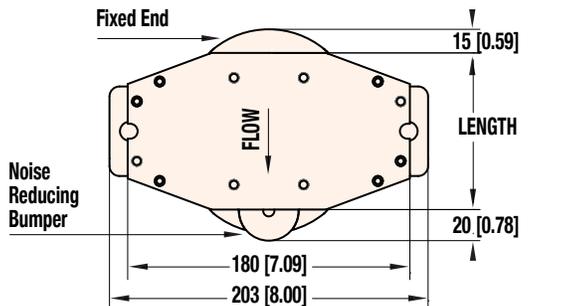


## Pallets

- Pallet Sizes: 105 mm Conveyor

| 180 mm wide | Length |     |     |
|-------------|--------|-----|-----|
|             | 100    | 150 | 200 |

- Recessed hardened stop plates provide complete access to full top plate for part tooling
- Maximum weight per pallet = 9 kg (20 lbs)
- Base Pucks
  - 19.05 mm (.75 in) thick molded static dissipative nylon
  - Round shape to match conveyor guides
  - Optional cushioning bumper can be added to base pucks to reduce noise and impacts
- Pallet is 12.7 mm (.5 in) thick tool plate anodized aluminum
- Contains pin tracking system to guide pallet on conveyor and divert modules
- Pallets can be purchased as assembled units or as kits containing all components except for aluminum top plate
- See page 163 for pallet sensor brackets
- Available in North America only.



**Pallets**

22 SF P M WWW - LLL A

**Pallet Options:**

- A = Assembled with std 1/2" aluminum top plate
- B = Assembled with std 1/2" aluminum top plate and bumper on one end
- C = Kit only without aluminum top plate
- D = Kit only without aluminum top plate includes bumper on one end

**Length Reference:**

- 100 = 100 mm 150 = 150 mm
- 200 = 200 mm

**Width Reference: 105 = 105 mm**

**Documentation Language: M = US**

**P = Pallet**

**Note:** Contact factory for detailed drawing of top plate **Note:** Dimensions = mm (in)



**Cushioned**



**Non-Cushioned**

## Pallet Stops

- All stops are pneumatic single acting with spring return, double acting available
- Stops can be cushioned or non-cushioned for use with pallets
- Stops can be added to either side of the conveyor without guide modification
- Optional sensor mounts for pallet
- Sensor mounts are for standard 12 mm diameter proximity switch
- Pallet assembly includes stop, mounting bracket, hardware and pneumatic push in fittings for 6.35 mm (.25 in) air line
- See page 163 for pallet sensor brackets
- Available in North America only.

## Speed vs. Load Characteristics

| Belt Speed<br>M/min (ft./min) | Max. Allowed Accumulated<br>Load Kg (lbs.) |
|-------------------------------|--|
| Cushioned Stops               |  |
| 6.1 (20)                      | 54 (120)                                   |
| 9.1 (30)                      | 36 (80)                                    |
| 12.2 (40)                     | 32 (70)                                    |
| 18.3 (60)                     | 27 (60)                                    |
| 23 (75)                       | 23 (50)                                    |
| 31 (100)                      | 16 (35)                                    |

| Belt Speed<br>M/min (ft./min) | Max. Allowed Accumulated<br>Load Kg (lbs.) |
|-------------------------------|--|
| Non-Cushioned Stops*          |  |
| 6.1 (20)                      | 68 (150)                                   |
| 9.1 (30)                      | 68 (150)                                   |
| 12.2 (40)                     | 68 (150)                                   |
| 18.3 (60)                     | 64 (140)                                   |
| 23 (75)                       | 55 (120)                                   |
| 31 (100)                      | 45 (100)                                   |

\*Note: Pallet bumpers are recommended.

**Stops**

22 SF S M WWW - N N

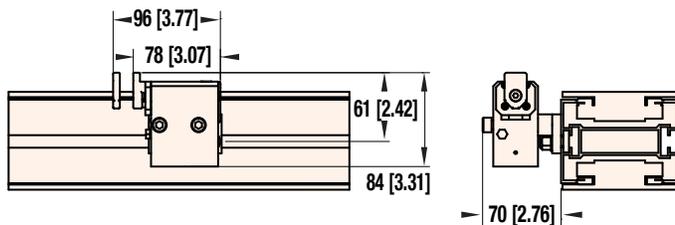
**Sensor Option:**  
 N = No Sensor Bracket Included  
 B = Sensor Bracket Included

**Stop Type:**  
 C = Cushioned Pallet Type  
 F = Non-Cushioned Pallet Type

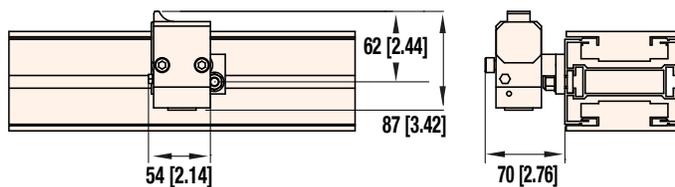
**Width Reference:** 105 = 105 mm

**Documentation Language:** M = US

- S = Stop

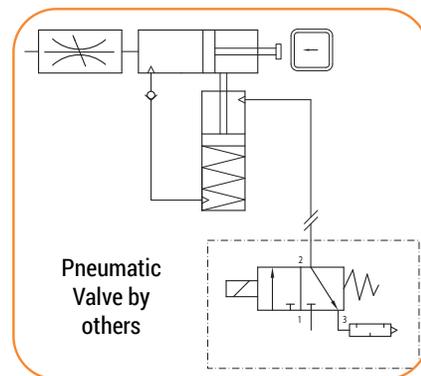


**Cushioned**

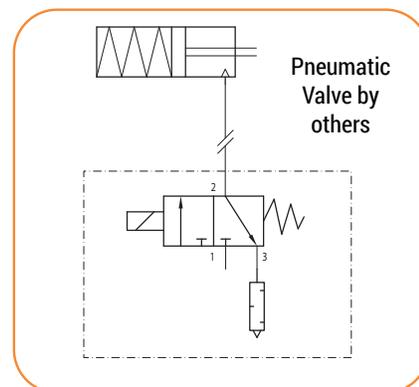


**Non-Cushioned**

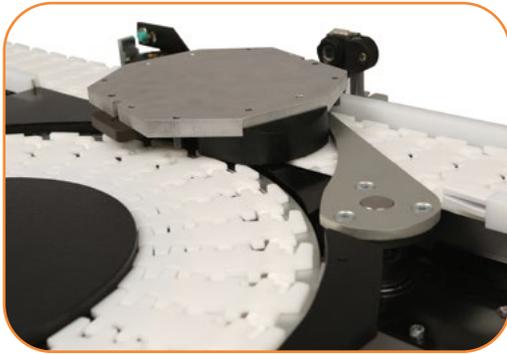
Note: Dimensions = mm (in)



**Cushioned Pneumatic Schematic**



**Non-Cushioned Pneumatic Schematic**



**Divert Module with Sensors**



**Divert Module Only**

## Diverts and Merges

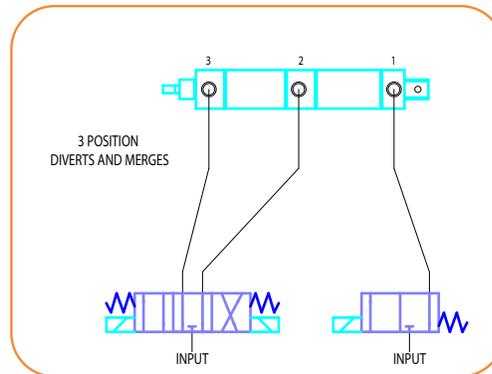
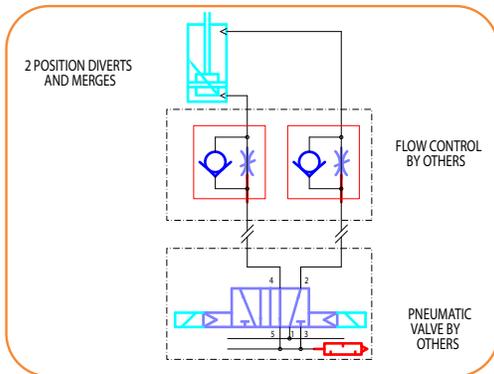
All merge and divert kits require pallet stops to be used for product traffic control. Stops are not included in the kit and should be ordered separately. Available in North America only.

### Divert Models

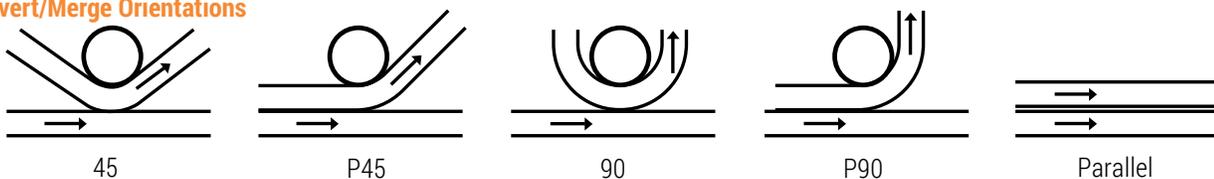
- Pneumatic diverter position is adjustable in both positions
- Height of the divert arm is adjustable
- The assembly/kit is a combination of parts
- Requires the conveyor to have #18 guiding
- Cutting and fitting of the guiding is required
- Kit includes:
  - Divert assembly including pneumatic push in fittings for 6.35 mm (.25 in) air line
  - Turning wheel guide ring
  - Guide lead-in parts
  - Transition guiding and mounting clips
- Optional sensor mounts for diverter
- Sensor mounts are for air cylinder reed switch.
- Optional sensor mount for pallet
- Sensor mounts are for standard Dorner 18 mm barrel type photoeyes

### Merge Models

- This kit is for merge only and does not include a diverter
- Requires the conveyor to have #18 guiding
- Cutting and fitting of the guiding is required
- Kit includes:
  - Fixed merge guide
  - Turning wheel guide ring
  - (4) Guide lead-in parts
- Optional sensor mount for pallet
- Sensor mounts are for standard Dorner 18 mm barrel type photoeyes



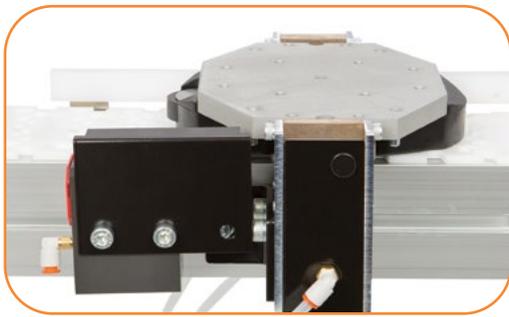
### Divert/Merge Orientations



| Diverts   |   |   |     |   |     |   |   |   |   |   |
|---|---|---|-----|---|-----|---|---|---|---|---|
| 22SF  | D | M | WWW | - | AAA | 2 | C | R | 1 | L |
| Direction: L = Left R = Right<br>Pallet Photoeye Brackets:<br>1 = No Pallet Photoeye Brackets 2 = Includes Pallet Photoeye Brackets<br>Divert Arm Sensors: N = No Reed Switches R = Reed Switches Included<br>Stop Type: C = Cushioned F = Non cushioned N = No Stops Included<br>Divert Type: 2 = Divert only, 2 Position 3 = Divert and Merge, 3 Position<br>Angle: 045 = 45° 090 = 90° 000 = Parallel P45 = Parallel 45 P90 = Parallel 90<br>Width Reference: 105 = 105 mm<br>Documentation Language: M = US<br>D = Divert and Merge |   |   |     |   |     |   |   |   |   |   |

| Fixed Merge   |   |   |     |   |     |   |  |
|---|---|---|-----|---|-----|---|--|
| 22SF  | M | M | WWW | - | AAA | L |  |
| Direction: L = Left R = Right<br>Angle:<br>045 = 45°<br>090 = 90°<br>000 = Parallel<br>P45 = Parallel 45<br>P90 = Parallel 90<br>Width Reference: 105 = 105 mm<br>Documentation Language: M = US<br>M = Fixed Merge |   |   |     |   |     |   |  |

Note: Dimensions = mm (in)



**Lift and Locate Module with Pallet in Located Position**



**Lift and Locate Module Only**

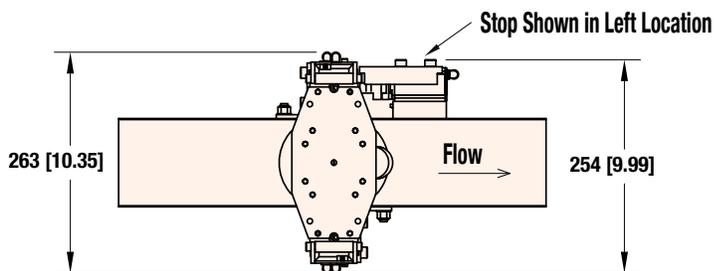
**Lift and Locates:**

- Conveyor width: 105 mm
- Lifts from outside of conveyor – provides 90.7 kg (200 lbs) of vertical holding force
- Lifts pneumatic operated
- Rated for pressures up to 100 psi.
- Repeatable accuracy of  $\pm .1$  mm (0.004 in)
- Includes (1) Cushioned or Non-Cushioned pallet stop
- Includes sensor mounts for lift cylinder and pallet
- Sensor mounts are for standard 12 mm diameter proximity switch
- Can be supported by conveyor or have SmartFlex support post added for additional support
- Includes push-in pneumatic push in fittings for 6.35 mm (.25 in) air line
- Available in North America only.

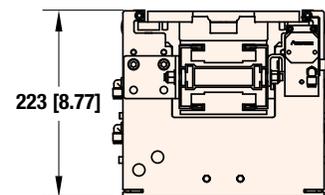
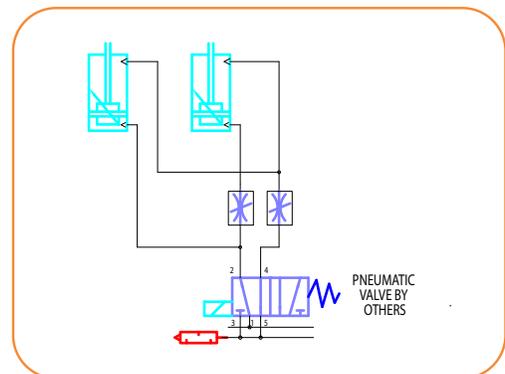
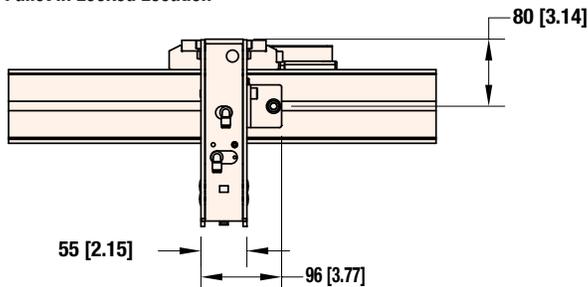
**Lift and Locate**

22 SF L M WWW - N L

- Stop Location:  
L = Left R = Right
- Stop Type:  
C = Cushioned Stop  
F = Non-Cushioned Stop
- Width Reference: 105 = 105 mm
- Documentation Language: M = US
- L = Lift and Locate



**Pallet in Locked Location**



Note: Dimensions = mm (in)

**Regulatory Approvals:**

**Conveyors:**

All Dorner FlexMove Series standard conveyors (not including gearmotors and controllers) are CE approved. CE approval follows the provisions of the following directives; Machine Directive 2006/42/EC, EU Low Voltage Directive 2006/95/EC, and EMC Directive 2004/108/EC. All conveyors are marked with the CE symbol on the Dorner serial number tag located on the conveyor frame. Contact the factory for the CE Declaration of Conformity.

All Dorner FlexMove Series standard conveyors (not including gearmotors and controllers) are designed and manufactured in accordance with the restrictions defined in the "Restriction of Hazardous Substances" directive, citation 2011/65/EU, commonly known as RoHS. All conveyors are marked with the RoHS symbols on the Dorner serial number tag located on the conveyor frame.

**Gearmotors and Controllers:**

All Dorner FlexMove Series gearmotors and controllers carry one or more of the following approvals. Products are not covered by each approval. Please see the appropriate part number on the Gearmotor and controller charts located in this manual. In addition, regulatory symbols are located on the product information tags located on the product.

|   |   |
|---|---|
|    | <p>CE Marking on a product is a manufacturer's declaration that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation, in practice by the Product Directives. CE Marking on a product ensures the free movement of the product within the European Union (EU).</p>  |
|  | <p>This directive restricts (with exceptions) the use of six hazardous materials in the manufacture of various types of electronic and electrical equipment. It is closely linked with the Waste Electrical and Electronic Equipment Directive (WEEE) 2002/96/EC which sets collection, recycling and recovery targets for electrical goods and is part of a legislative initiative to solve the problem of huge amounts of toxic e-waste.</p>  |
|  | <p>The UL Recognized Component mark is for products intended to be installed in another device, system or end product. This Recognized Component Mark is for the United States only. When a complete product or system containing UL Recognized Components is evaluated, the end-product evaluation process can be streamlined.</p>   |
|  | <p>The UL Recognized Component mark is for products intended to be installed in another device, system or end product. This Recognized Component Mark is for the United States and Canada. When a complete product or system containing UL Recognized Components is evaluated, the end-product evaluation process can be streamlined.</p>   |
|  | <p>CSA International (Canadian Standards Association), is a provider of product testing and certification services for electrical, mechanical, plumbing, gas and a variety of other products. Recognized in the U.S., Canada and around the world, CSA certification marks indicate that a product, process or service has been tested to a Canadian or U.S. standard and it meets the requirements of an applicable CSA standard or another recognized document used as a basis for certification.</p> |
|  | <p>The UL Listing Mark means UL found that representative product samples met UL's safety requirements. These requirements are primarily based on UL's own published standards for safety. The C-UL-US Mark indicates compliance with both Canadian and U.S. requirements. The products with this type of Mark have been evaluated to Canadian safety requirements and U.S. safety requirements.</p>  |

## Clean Room Certifications:

FlexMove Conveyors are often used in clean room applications where the generation of particulates from the conveyor are a concern. In these applications the correct installation and application of the conveyor is critical to the proper running of the conveyor and minimizing the dust generated by the conveyor belt or modular belt. The end user must ensure that the conveyor belts are properly tracked and product accumulation is minimized to providing minimal dust generation.

All of the FlexMove products are designed and constructed to be used in clean room environments. The following FlexMove Series products have gone through third party testing and certification and are certified for use in ISO Standard 14644-1 Class 5 and Federal Standard 209 Class 100 Clean Room applications.

### FlexMove Series Flexible Chain Conveyor

Contact the factory for copy of the certification.



### Slide Rail Specifications / Application Data

| Part No.                     | FASR-25<br>FASR-25K                    | FASR-25U  | FASR-25CD                                    | FASR-25T   | FASR-25X  | FASR-3E   |
|------------------------------|--|---|--|--|---|---|
| Material                     | HDPE                                   | UHMW  | Antistatic HDPE                              | PAPE/Superfric   | Impregnated UHMW                                | HDPE  |
| Color                        | White                                  | White   | Black  | Grey   | Blue  | White   |
| FDA approved                 | Yes                                    | Yes   | No   | No   | Yes   | Yes   |
| Coefficient of Friction      | 0.3                                    | 0.25  | 0.25   | 0.22   | 0.2   | 0.3   |
| Temp Range                   | -20 to 60° C                           | -20 to 60° C                                    | -20 to 60° C                                 | -40 to 120° C  | -20 to 60° C                                    | -20 to 60° C  |
| Maximum Speed                | 50 M/min                               | 60 M/min  | 50 M/min                                     | 120 M/min  | 60 M/min  | 50 M/min  |
| Heavy Loads                  | Poor                                   | Good  | Poor   | Excellent  | Good  | Poor  |
| Elongation / wear resistance | Poor                                   | Good  | Poor   | Excellent  | Good  | Poor  |
| Chemical Resistance          | Good, poor to petroleum based solvents | Good  | Good, poor to petroleum based solvents       | Good, not used with wet solvents                                 | Good  | Good, poor to petroleum based solvents              |
| Application                  | General conveyance, lowest cost        | High speed, moderate loads, low dust generation | Environments sensitive to static electricity | High speed, high load, dry applications only, abrasive particles | High speed, moderate loads, low dust generation | General conveyance, additional safety for FX series |

## Chains

| Series                                    | FK           | FS           | FM           | FC           | FL           | FU           | FV           |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <i>Chain width (mm)</i>                   | 44 mm        | 63 mm        | 83 mm        | 103 mm       | 150 mm       | 175 mm       | 255 mm       |
| <i>Chain width (inch)</i>                 | 1.73"        | 2.48"        | 3.27"        | 4.06"        | 5.91"        | 6.890"       | 10.039"      |
| <i>Tensile strength at 20°C (N)</i>       | 3600 N       | 3400 N       | 4800 N       |
| <i>Tensile strength at 68°F (lbf)</i>     | 810 lbf      | 764 lbf      | 1079 lbf     | 1079 lbf     | 1079 lbf     | 1079 lbf     | 1079 lbf     |
| <i>Max. working tensile at 20°C (N)</i>   | 500 N        | 500 N        | 1250 N       | 1250 N       | 1250 N       | 1250 N       | 1250 N       |
| <i>Max. working tensile at 68°F (lbf)</i> | 112 lbf      | 112 lbf      | 281 lbf      |
| <i>Working temperature (°C)</i>           | -20 – 60°C   |
| <i>Working temperature (°F)</i>           | -4 – 140°F   |
| <i>Maximum conveyor speed (m/min)</i>     | 50 m/min     | 58 m/min     |
| <i>Maximum conveyor speed (ft/min)</i>    | 165 ft/min   | 190 ft/min   |
| <i>Max. conveyor length (m)</i>           | 30 m         |
| <i>Max. conveyor length (ft)</i>          | 100 ft       |
| <i>Min. turning radius (mm)</i>           | 150 mm       | 150 mm       | 160 mm       | 170 mm       | 210 mm       | 500 mm       | 700 mm       |
| <i>Min. turning radius (inch)</i>         | 5.91"        | 5.91"        | 6.30"        | 6.70"        | 7.87"        | 19.7"        | 27.6"        |
| <i>Link spacing (mm)</i>                  | 25.4 mm      | 25.4 mm      | 33.5 mm      | 35.5 mm      | 35.5 mm      | 33.5 mm      | 33.5 mm      |
| <i>Link spacing (inch)</i>                | 1.0"         | 1.0"         | 1.32"        | 1.40"        | 1.40"        | 1.32"        | 1.32"        |
| <i>Chain weight (plain) (kg/m)</i>        | 0.63 kg/m    | 0.75 kg/m    | 1.20 kg/m    | 1.67 kg/m    | 1.87 kg/m    | 2.0 kg/m     | 2.43 kg/m    |
| <i>Chain weight (plain) (lb/ft)</i>       | 0.43 lb/ft   | 0.50 lb/ft   | 0.81 lb/ft   | 1.12 lb/ft   | 1.26 lb/ft   | 1.344 lb/ft  | 1.633 lb/ft  |
| <i>Max. weight on conveyor (kg/m)</i>     | 30 kg/m      | 30 kg/m      | 60 kg/m      | 60 kg/m      | 60 kg/m      | 65 kg/m      | 65 kg/m      |
| <i>Max. weight on conveyor (lb/ft)</i>    | 20 lb/ft     | 20 lb/ft     | 40 lb/ft     | 40 lb/ft     | 40 lb/ft     | 44 lb/ft     | 44 lb/ft     |
| <i>Item width (mm)</i>                    | 15 – 100 mm  | 15-140 mm    | 20-200 mm    | 25-300 mm    | 50-400 mm    | 50-400 mm    | 80 – 500 mm  |
| <i>Item width (inch)</i>                  | 0.6 – 4.0"   | 0.6 – 5.5"   | 0.8-7.9"     | 1.0-11.8"    | 2.0-15.7"    | 2.0 – 15.4"  | 3.2 – 19.7"  |
| Series                                    | FKPC<br>-5CD | FSPC<br>-5CD | FMPC<br>-5CD | FCPC<br>-5CD | FLPC<br>-5CD | FUPC<br>-5CD | FVPC<br>-5CD |
| <i>Tensile strength at 20°C (N)*</i>      | 1440 N       | 1360 N       | 1920 N       |
| <i>Tensile strength at 68°F (lbf)*</i>    | 324 lbf      | 306 lbf      | 432 lbf      |
| <i>Max working tensile at 20°C (N)*</i>   | 200 N        | 200 N        | 500 N        |
| <i>Max working tensile at 68°C (lbf)*</i> | 45 lbf       | 45 lbf       | 112 lbf      | 112 lbf      | 112 lbf      | 112 lbf      | 112 lbf      |

\*Strength of conductive chain is 40% of standard chain.

## Drive Unit Specifications

### Direct Drive unit

|                             | FK   | FS   | FM   | FC   | FL   | FU   | FV   |
|-----------------------------|------|------|------|------|------|------|------|
| Number of Teeth on sprocket | 16   | 16   | 12   | 12   | 12   | 12   | 12   |
| Chain Pitch (mm)            | 25.4 | 25.4 | 33.5 | 35.5 | 35.5 | 33.5 | 33.5 |
| Max. Traction force (N)     | 500  | 500  | 1250 | 1250 | 1250 | 1250 | 1250 |
| Sprocket Diameter (mm)      | 128  | 128  | 128  | 135  | 135  | 135  | 135  |

### Suspended Drive unit

|                             | FK   | FS   | FM   | FC   | FL   | FU   | FV   |
|-----------------------------|------|------|------|------|------|------|------|
| Number of Teeth on sprocket | 16   | 16   | 12   | 12   | 12   | 12   | 12   |
| Chain Pitch (mm)            | 25.4 | 25.4 | 33.5 | 35.5 | 35.5 | 33.5 | 33.5 |
| Max. Traction force (N)     | 500  | 500  | 1250 | 1250 | 1250 | 1250 | 1250 |
| Sprocket Diameter (mm)      | 128  | 128  | 128  | 135  | 135  | 135  | 135  |

### Catenary Drive unit

|                             | FK  | FS   | FM   | FC   | FL  | FU  | FV  |
|-----------------------------|-----|------|------|------|-----|-----|-----|
| Number of Teeth on sprocket | N/A | 16   | 12   | 12   | N/A | N/A | N/A |
| Chain Pitch (mm)            | N/A | 25.4 | 33.5 | 35.5 | N/A | N/A | N/A |
| Max. Traction force (N)     | N/A | 500  | 1250 | 1250 | N/A | N/A | N/A |
| Sprocket Diameter (mm)      | 128 | 128  | 128  | 135  | N/A | N/A | N/A |

### Intermediate Drive unit

|                             | FK  | FS   | FM   | FC   | FL  | FU  | FV  |
|-----------------------------|-----|------|------|------|-----|-----|-----|
| Number of Teeth on sprocket | N/A | 11   | 9    | 9    | N/A | N/A | N/A |
| Chain Pitch (mm)            | N/A | 25.4 | 33.5 | 35.5 | N/A | N/A | N/A |
| Max. Traction force (N)     | N/A | 200  | 200  | 200  | N/A | N/A | N/A |
| Sprocket Diameter (mm)      | 88  | 88   | 98   | 101  | 101 | N/A | N/A |

### Wheel Drive unit

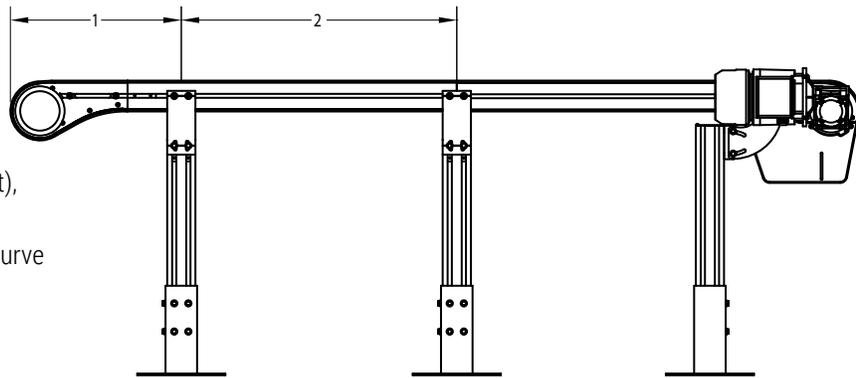
|                             | FK   | FS   | FM   | FC   | FL  | FU  | FV  |
|-----------------------------|------|------|------|------|-----|-----|-----|
| Number of Teeth on sprocket | 300  | 300  | 320  | 340  | N/A | N/A | N/A |
| Chain Pitch (mm)            | 25.4 | 25.4 | 33.5 | 35.5 | N/A | N/A | N/A |
| Max. Traction force (N)     | 200  | 200  | 200  | 200  | N/A | N/A | N/A |
| Sprocket Diameter (mm)      | 273  | 273  | 277  | 272  | N/A | N/A | N/A |

**Stand Location**

**Maximum Distances:**

- 1 = 914 mm (36 in)
- 2 = 3048 mm (10 ft)\*

\* For conveyors longer than 3048 mm (10 ft), install support at joint.  
 Note: Additional support required on 180° curve modules.



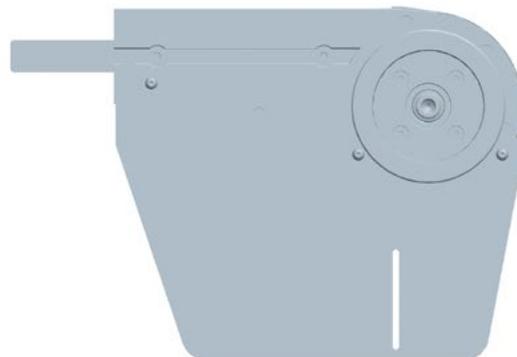
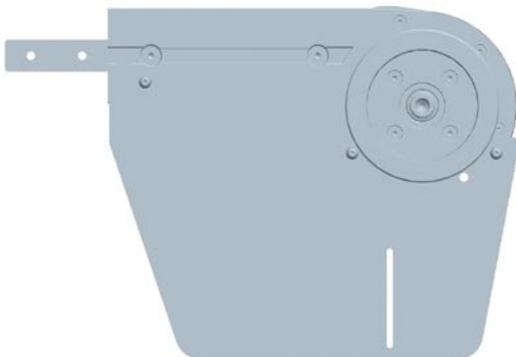
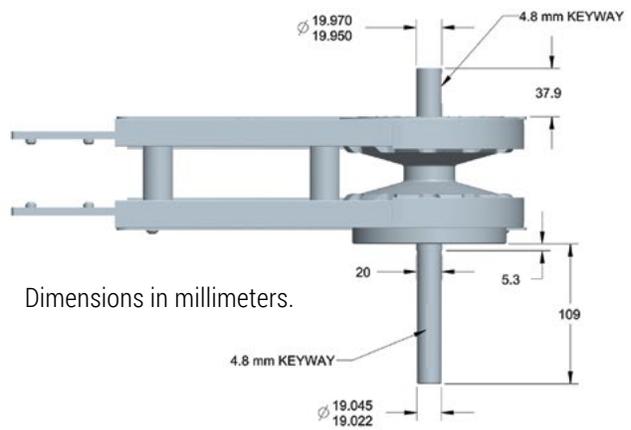
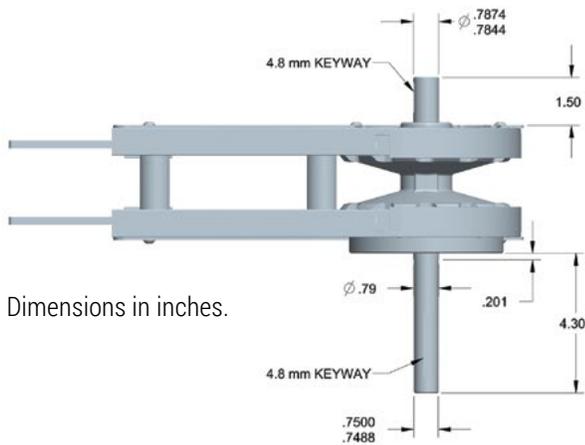
Support must be provided directly at drive end. See accessories for Direct Mount and Suspended Mount support options.

**Conveyor Drive Shaft Tolerances:**

.75" SHAFT

20 MM SHAFT

OPTIONAL AUXILIARY SHAFT



Note: Dimensions = mm (in)

## Conveyor Load Capacity

There are several factors that effect the overall conveyor load of the FlexMove conveyor. These include:

- Conveyor size and configuration
- Product accumulation
- Conveyor speed
- Number of starts and stops per hour
- Application temperature
- Maximum Drive Unit Output

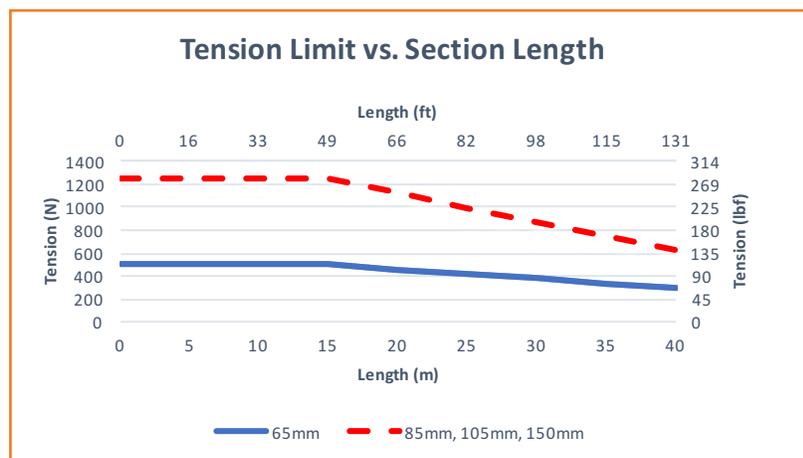
Located online at [www.dornerconveyors.com](http://www.dornerconveyors.com) is the Dorner conveyor configuration tool, DTools. This tool allows you to configure your conveyor layout and determine the maximum load capacity for the conveyor. It is suggested that this program be used to calculate the conveyor load as the calculation is quite complicated. This configuration program however does not take into account temperature, dirty conditions, and conveyor starts and stops. If these conditions are part of your application, please use the load reducing factors as shown below.

**Maximum Load =** (Load from DTools) (Temperature Factor) (Start/Stop Factor)

See following pages for factors.

## Nominal Maximum Load

A Nominal Maximum Load may be calculated without the use of DTools to determine if the conveyor can generally carry the application load. The following process can be used to calculate Nominal Maximum Load. It **does not** take into account the conveyor configuration. Please confirm your maximum load per application with the Dorner DTools program at [www.dornerconveyors.com](http://www.dornerconveyors.com).



To calculate the Nominal Maximum Load:

*Note: This does not include conveyor configuration. Please confirm load with Dorner online DTools configurator.*

1. Determine your Basic Tension Limit from the above two graphs. The Basic Tension Limit is the lesser number of the two. Compare your tension limit to drive unit output. Your tension limit is the smaller.
2. Tension Limit = (Basic Tension Limit) (Temperature Factor) (Start/Stop Factor) (Accumulation Factor) (0.7)  
*See following pages for factors.*
3. Nominal Maximum Load (kg) = (Tension Limit / Chain Coefficient of Friction) - (Conveyor length) (2) (Chain weight)

Nominal Maximum Load (lbs) = (Nominal Maximum Load (kg)) (2.2)

See following pages for Chain Coefficient of Friction. Nominal Maximum load may also be limited by available gearmotors. Conformation of gearmotor torque is required. See pages 28-31 for gearmotors available. Nominal Maximum load cannot exceed overall conveyor load limit of 300 lbs (136kg) for 65 mm wide and 600 lbs (273kg) for 105 mm and 150 mm wide.

## Nominal Maximum Load *(continued)*

### Example:

105 mm FlexMove by 20 meters total length running at 15 Meters/min. Accumulated load with dry metal parts running in a 40°C environment. Continuous running.

- Basic Tension Limit – Tension vs. Speed = 1050N
- Basic Tension Limit – Tension vs. Length = 1100N
- Therefore Basic Tension Limit = 1050N
- Tension Limit = (Basic Tension Limit) (Temperature Factor) (Start/Stop Factor) (Accumulation Factor) (0.7)
- Tension Limit = (1050) (0.9) (1.0) (0.5) (0.7) = 330N
- Nominal Maximum Load (kg) = (Tension Limit / Chain Coefficient of Friction) - (Conveyor length) (2) (Chain weight)
- Nominal Maximum Load (kg) = (330 / 0.3) - (20) (2) (16.4) = 1100 - 984 = 116 kg
- Nominal Maximum Load (lbs) = 116\*2.2 = 256 lbs

### Temperature Factor

Ambient temperature can negatively affect the tension capacity of the conveyor chain.

| Temperature (°F) | Temperature (°C) | Temperature Factor |
|------------------|------------------|--------------------|
| -4               | -20              | 1.0                |
| 32               | 0                | 1.0                |
| 68               | 20               | 1.0                |
| 104              | 40               | 0.9                |
| 140              | 60               | 0.8                |

### Start / Stop Factor

Frequent Start / Stops of the conveyor can negatively affect the tension capacity of the conveyor chain. All start / stop applications must use a soft start mechanism such as a Frequency Inverter with a 1 second acceleration cycle.

| Application Condition                   | Start / Stop Factor |
|---|---------------------|
| Continuous Run or 1 start/stop per hour | 1.00                |
| Maximum 10 starts/stop per hour         | 0.83                |
| Maximum 30 starts/stop per hour         | 0.70                |
| Greater than 30 starts/stop per hour    | 0.62                |

### Accumulation Factor

Product accumulation greatly reduces the conveyor load capacity. Product accumulation may only be done with the plain chain. Based on the product being accumulated apply the below Accumulation Factor in determining your Nominal Maximum Load. All factors below are assuming dry conditions.

| Product Being Accumulated | Typical Coefficient of Friction | Accumulation Factor |
|---------------------------|---------------------------------|---------------------|
| Steel                     | 0.25                            | 0.50                |
| Glass                     | 0.20                            | 0.60                |
| Aluminum                  | 0.25                            | 0.50                |
| Plastic                   | 0.25                            | 0.50                |
| Wood                      | 0.30                            | 0.40                |
| Paper and Cardboard       | 0.30                            | 0.40                |

### Chain Coefficient of Friction

The following table provides the coefficient of friction between the standard UHMW wearstrips and the Acetal chain. Coefficient of friction as shown may be reduced by addition of a lubricant.

| Application Condition | Coefficient of Friction |
|-----------------------|-------------------------|
| Dry                   | 0.30                    |
| Water Lubrication     | 0.27                    |
| Coolant Lubrication   | 0.20                    |
| Oil Lubrication       | 0.20                    |

### Drive Unit Output Capacity, P(W) requirement depend on:

- Traction force F (N)
- Chain speed V (m/min)

To calculate power, the equation is  $P = 1/60 (F \times V)$

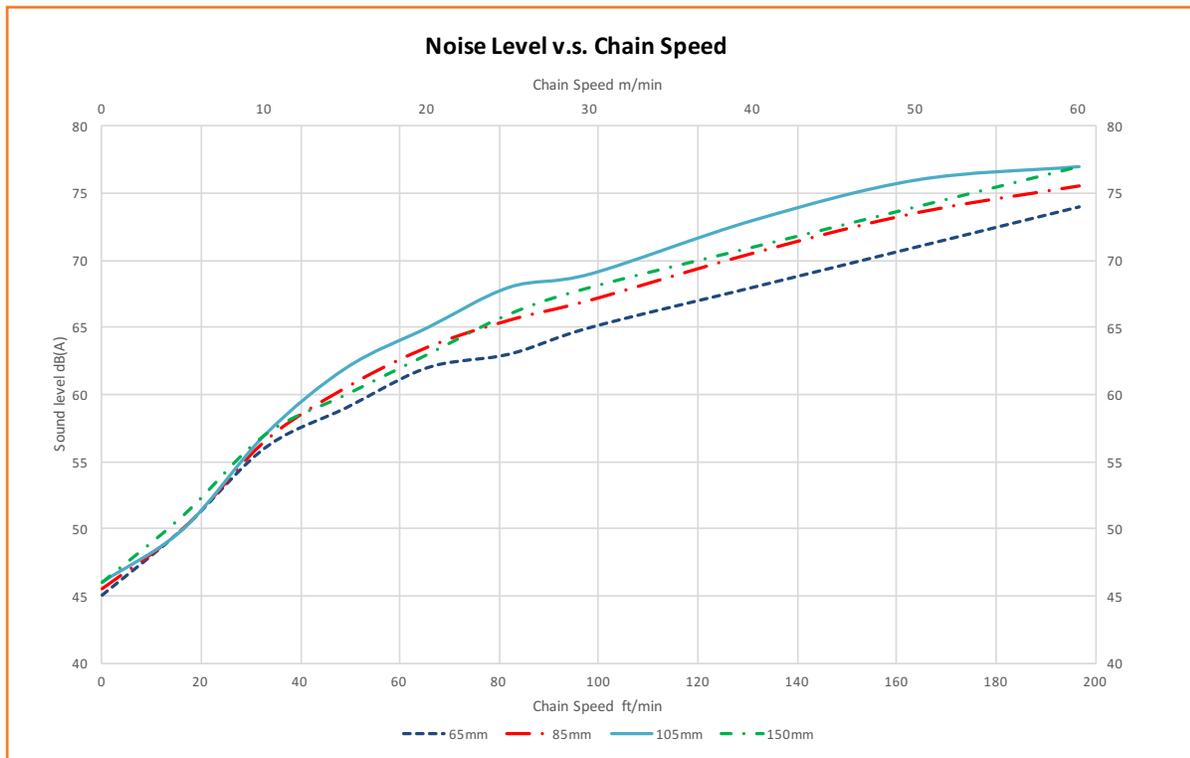
There are several drive unit designs, the maximum permissible traction force on each type of drive unit as below:

| Drive unit type | Maximum traction force in Newton (N) |     |      |      |      |      |      |
|-----------------|--------------------------------------|-----|------|------|------|------|------|
|                 | FK                                   | FS  | FM   | FC   | FL   | FU   | FV   |
| End             | 500                                  | 500 | 1250 | 1250 | 1250 | 1250 | 1250 |
| Intermediate    | 200                                  | 200 | 200  | 200  | 200  | N/A  | N/A  |
| Catenary        | 500                                  | 500 | 1250 | 1250 | 1250 | N/A  | N/A  |

## Conveyor Noise Level

The actual noise level generated by the conveyor depends on several factors; the installation configuration, the product running on the conveyor, the surrounding equipment, the conveyor options and chain speed. The noise level generated by the conveyor is typically less than the general noise level of factory equipment.

Generally a higher speed chain will result in a higher noise level. In addition, 65 mm conveyors will run slightly quieter, and power transfer tails will add a few decibel points as well. The following charts provide basic decibel ratings for typical conveyor arrangements, such as wheeled and plain bend corners, and power transfers.



Decibel ratings are taken approximately 3 feet away from the conveyor modules.

## Bend Factors

Bend factors must be considered and calculated at every plain chain. It depends on the angle of the bend  $\alpha$  in radians and friction coefficient  $\mu$  between chain and slide rails. In application when conveyor is dry and clean, the friction coefficient  $\mu$  is close to 0.1.

The bend factor is important to calculate since the frictional force of a plain bend depends not only on the weight of chain and product but also the actual the tension throughout the bend. The result an additional pressure force of the chain towards the conveyor beam directed toward the center of the bend. Since the chain tension varies throughout the conveyor, calculation of this additional pressure force is complicated. The highest values are present at the pulling side of the drive unit and virtually zero at the chain inlet. Using bend factor is the easiest way of including added friction in the plain bend for both horizontal and vertical into the calculation. Always use wheel bend unless for exceptional cases. If using plain bend is a must, the combined plain bends angle should not more than 180°, unless it is for a very short and light application.

| Bend type, horizontal or vertical plain bend | Bend factor |
|--|-------------|
| 30°  | .2          |
| 45°  | 1.3         |
| 60°  | .4          |
| 90°  | .6          |

8° inclined is the maximum a product could convey for plain chain whereas friction top chain could take up to 30°

## Material

| Material  | FlexMove Parts   |
|---|--|
| POM (PolyOxyMethylene)                            | Conveyor Chain, rollers  |
| POM Conductive (PolyOxyMethylene)                 | Conductive chain   |
| Aluminum, extruded & anodized                     | Angle bracket, beam support bracket, conveyor beam, support beam, guide rail, distance tube, fixed and adjustable side guide bracket, spacer |
| Steel, electro-zinc plated                        | Bolts and nuts, connecting strips, foot connecting strip   |
| Steel, powder coated                              | Foot, connecting plate   |
| PA, Polyamide                                     | Chain pivot, side guide bracket, side guide support, drive and idler steering guide, end caps, wheel guide                                   |
| Polyamide PA + Glass fiber                        | Drive sprocket, idler wheel  |
| PVC, Polyvinyl Chloride                           | T-slot cover   |
| HDPE, High Density Polyethylene                   | Slide rail, guide rail   |
| UHMW-PE, Ultra High Molecular Weight Polyethylene | Slide Rail, drive and idler steering guides  |
| PVDF, Polyvinylidene fluoride                     | Slide Rail   |
| TPE, Thermoplastic Elastomer                      | Chain insert for friction top and wedge top  |

## Resistance to chemical

FlexMove® components can withstand continuous contact with most chemicals. However, it is recommended to avoid:

- Acids with pH less than 4
- Bases with pH higher than 9

The following table specifies the resistance of several material used in the conveyor on selected chemicals

### Legend

1 = Very good

2 = Good

3 = Moderate resistance

4 = Not recommended

5 = No data available

| Material                | Acetal<br>POM | Polyamide<br>PA | High-density<br>Polyethylene<br>HDPE | Thermoplastic<br>Elastomer<br>TPE | Aluminum<br>AL |
|-------------------------|---------------|-----------------|--------------------------------------|-----------------------------------|----------------|
| <b>Acids:</b>           |               |                 |                                      |                                   |                |
| Acetic acid             | 3             | 4               | 3                                    | -                                 | 2              |
| Benzoic acid            | 3             | 4               | 1                                    | -                                 | 4              |
| Citric acid             | 3             | 2               | 2                                    | -                                 | 2              |
| Chromic acid            | 4             | 4               | 1                                    | -                                 | 3              |
| Hydrofluoric acid       | 4             | 4               | 1                                    | -                                 | 4              |
| Hydrochloric acid       | 4             | 4               | 1                                    | -                                 | 3              |
| Hydro cyanic acid       | 4             | 4               | 2                                    | -                                 | 1              |
| Nitric acid             | 4             | 4               | 4                                    | -                                 | 3              |
| Phosphoric acid         | 4             | 4               | 1                                    | -                                 | 3              |
| Sulphuric acid          | 4             | 4               | 2                                    | 1                                 | 3              |
| Tartaric acid           | 3             | 2               | 1                                    | -                                 | 1              |
| <b>Basic compounds:</b> |               |                 |                                      |                                   |                |
| Ammonia                 | 1             | 2               | 1                                    | -                                 | 2              |
| Calcium hydroxide       | 1             | 2               | 1                                    | -                                 | 4              |
| Caustic soda            | 1             | 2               | 1                                    | 1                                 | 3              |
| Potassium hydroxide     | 1             | 2               | 1                                    | -                                 | 4              |
| <b>Salts:</b>           |               |                 |                                      |                                   |                |
| Potassium bicarbonate   | 2             | 2               | 2                                    | -                                 | 1              |
| Potassium permanganate  | 2             | 4               | 2                                    | -                                 | 1              |
| Sodium cyanic           | 2             | 2               | 2                                    | -                                 | 4              |
| Sodium hydrochloride    | 3             | 4               | 1                                    | -                                 | 4              |
| Acid salt               | 2             | 3               | 1                                    | -                                 | -              |
| Basic salt              | 1             | 2               | 1                                    | -                                 | -              |
| Neutral salt            | 1             | 2               | 1                                    | -                                 | -              |

**Chains**

| Material                               | Acetal POM | Polyamide PA | High-density Polyethylene HDPE | Thermoplastic Elastomer TPE | Aluminum AL |
|--|------------|--------------|--------------------------------|-----------------------------|-------------|
| <i>Organic compounds and solvents:</i> |            |              |                                |                             |             |
| Acetone                                | 1          | 1            | 4                              | 3                           | 1           |
| Benzene                                | 1          | 1            | 4                              | 3                           | 1           |
| Butyl alcohol                          | 2          | 2            | 2                              | -                           | 1           |
| Carbon disulphide                      | 1          | 1            | 3                              | -                           | 1           |
| Chloroform                             | 1          | 1            | 4                              | -                           | -           |
| Ethyl acetate                          | 1          | 1            | 2                              | -                           | 1           |
| Ethyl alcohol                          | 1          | 1            | 1                              | -                           | 1           |
| Heptane                                | 2          | 2            | 2                              | -                           | -           |
| Methyl alcohol                         | 1          | 1            | 1                              | -                           | 2           |
| Methyl ethyl ketone                    | 1          | 1            | 4                              | 4                           | 2           |
| Nitrobenzene                           | 2          | 2            | 3                              | -                           | 1           |
| Phenol                                 | 3          | 3            | 2                              | -                           | 1           |
| <i>Gasses:</i>                         |            |              |                                |                             |             |
| Carbon dioxide                         | 3          | 1            | 1                              | -                           | 1           |
| Carbon monoxide                        | 2          | 1            | 1                              | -                           | 1           |
| Chlorine                               | 2          | 4            | 3                              | -                           | 1           |
| Hydrogen sulphide                      | 3          | 1            | 2                              | -                           | 1           |
| Sulphur dioxide                        | 2          | 3            | 2                              | -                           | 1           |
| <i>Others:</i>                         |            |              |                                |                             |             |
| Beer                                   | 1          | 2            | 2                              | -                           | 1           |
| Fruit juices                           | 1          | 2            | 3                              | -                           | 2           |
| Gasoline                               | 1          | 2            | 2                              | -                           | 1           |
| Milk                                   | 1          | 1            | 2                              | -                           | 1           |
| Oil                                    | 1          | 1            | 2                              | -                           | 1           |
| Vinegar                                | 1          | 2            | 3                              | -                           | 1           |

Note: the table above is valid for temperature range up to 60°C and it is to be considered as guideline only. Furthermore, precautions should be taken when using cleaning agents. If you are in doubt on the material to withstand your special environment, you should go for chemical testing or contact our local distributor.

**Static Electricity**

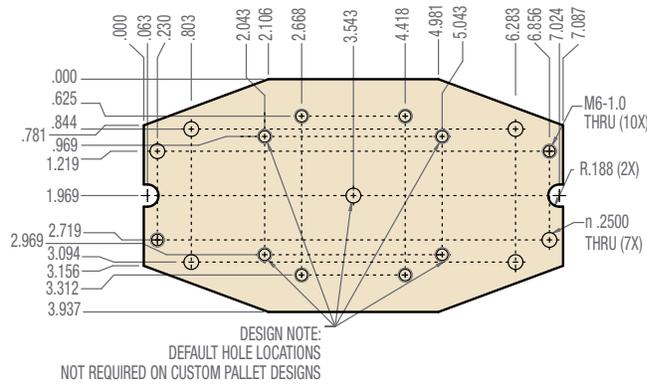
The standard plastic materials used for conveyors have low electrical conductivity so static electricity can build up in the conveyor. When a conveyor is running under normal environment (20°C and humidity 60%) without load, the static electricity build up should be around the following figures:

|                            |            |
|----------------------------|------------|
| Above the drive unit       | 1800-2500V |
| Idler end                  | 400-500V   |
| Above the wheel bend       | 400-500V   |
| Above the straight section | 250-350V   |

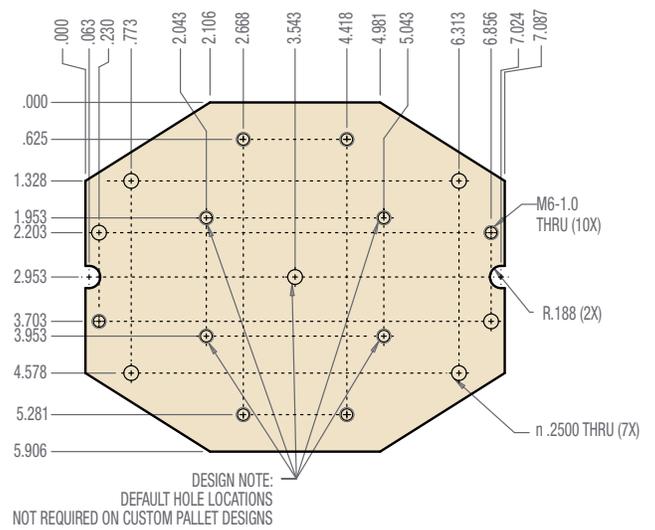
With the introduction of anti-static material for slide rail and chain, it shall meet the requirement for electronic industry.

## Pallet Plate Details Dimensions

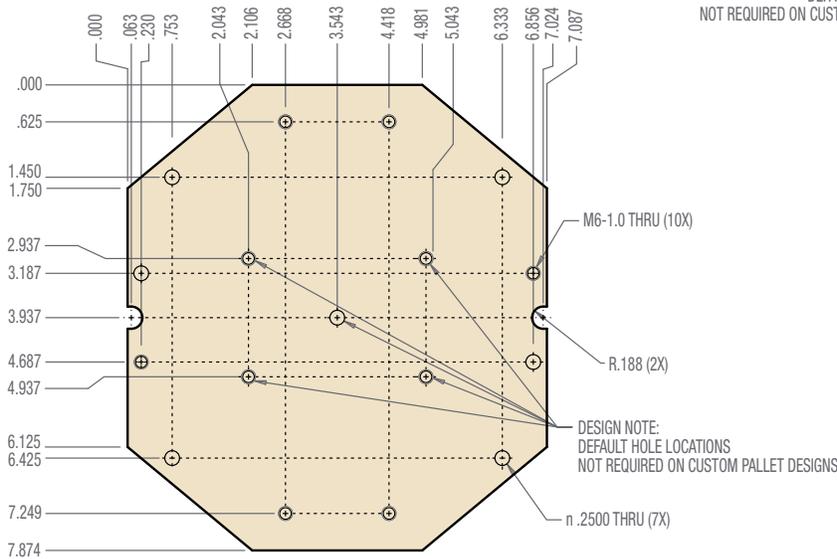
The following details are for standard pallets only. For other size pallets contact Dorner.



**100**



**150**



**200**

### Pneumatic Specifications - FlexMove Pallet Modules

| Device            | Action           | Bore Diameter |         | Stroke Length |          | Return Type | Sensor Compatible | Force   |         | Fitting  |           |
|-------------------|------------------|---------------|---------|---------------|----------|-------------|-------------------|---------|---------|----------|-----------|
|                   |                  | mm            | in      | mm            | in       |             |                   | per Bar | per Psi | Tap Size | Tube Size |
| Lift and Locate   | 2 lift cylinders | 32mm          | 1.26 in | 31 mm         | 1.22 in  | Pneumatic   | No                | 81 N    | 1.25 lb | R1/8-28  | 1/4 in    |
| Divert 2 Position | divert cylinder  | 27 mm         | 1.06 in | 35 mm         | 1.375 in | Pneumatic   | Yes               | 58 N    | 0.88 lb | 1/8 NPT  | 1/4 in    |
| Divert 3 Position | extend cylinder  | 27 mm         | 1.06 in | 33 mm         | 1.32 in  | Pneumatic   | Yes               | 58 N    | 0.88 lb | 1/8 NPT  | 1/4 in    |
|                   | middle position  | 27 mm         | 1.06 in | 13 mm         | 0.51 in  | Pneumatic   | Yes               | 58 N    | 0.88 lb | 1/8 NPT  | 1/4 in    |
| Cushion Stop      | Stop retract     | 35mm          | 1.39 in | 9 mm          | 0.35 in  | Spring      | No                | N/A     | N/A     | M5       | 1/4 in    |
| Non-cushion Stop  | Stop retract     | 35mm          | 1.39 in | 9 mm          | 0.35 in  | Spring      | No                | N/A     | N/A     | M5       | 1/4 in    |

# DORNER<sup>®</sup>

By Columbus McKinnon

## FlexMove® Conveyors are best for:

- Part Handling
- Transfers
- Tight Spaces
- Elevation Changes
- Accumulation
- Buffering
- Complex Configurations
- Long Lengths
- Curves, Jogs, Incline, Decline

## Sizes & Measurements

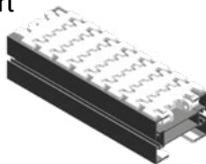
- 45 mm, 65 mm, 85 mm, 100 mm, 150 mm, 180 mm & 260 mm (1.7, 2.5, 3, 4, 6, 7 and 10 in) widths
- 0.6 m to 29.8 m (2 to 98 ft) lengths

## Loads & Speeds

- Up to 272 kgs (600 lbs)
- Up to 76 meters (250 feet) per minute

## Plastic Chain Types

- Standard: Low Friction & Friction Insert
- Specialty
  - Conductive
  - Cleated
  - Roller Top
  - Magnet Top
  - And Many More



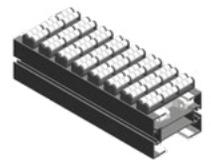
Flat



Cleated



Friction Top



Roller Top

## Modules



Drive



Idler



Curve  
from 15° to 180°



Incline/Decline  
from 5° to 90°

## Guiding

- Fully Adjustable Single Rail
- Fully Adjustable Double Rail
- Other Options Available



## Support Stands

- Single, Double and Multi Lane Structures Available





**Industrial**



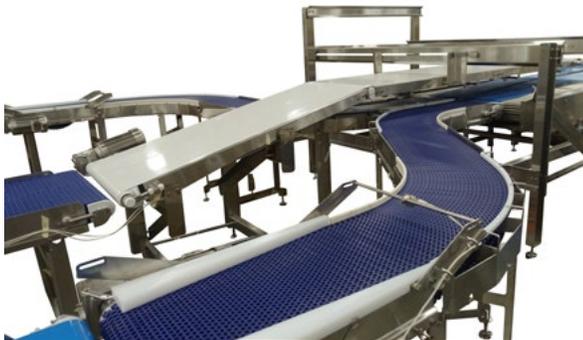
**Flexible Chain**



**Pallet Systems**



**Sanitary Stainless Steel**



**Engineered Solutions Group**

Custom engineered solutions for almost any application.



**CAD Configurator Tool**

Industry leading tool! Configure your own custom conveyor in minutes.

# TRANSFORMING CONVEYOR AUTOMATION

## Contact Dorner

**United States**  
+1-262-367-7600

**Canada**  
+1-289-208-7306

**Mexico**  
+52.33.30037400

**Germany**  
+49 (0) 2461/93767-0

**France**  
+33 (0)1 84 73 24 27

**Malaysia**  
+604-626-2948



By Columbus McKinnon

[DORNERCONVEYORS.COM](http://DORNERCONVEYORS.COM)



CONVEYANCE SOLUTIONS

© Dorner Mfg. Corp. 2026. All Rights Reserved.

851-862 0326