High Performance, Aluminum, Flexible Chain Conveyors

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®
CONVEYOR FEATURES

**TRANSFERS**
For smooth in-line transfer of product

**WHEEL CORNERS**
Eliminate corner friction allowing multiple corner configurations

**T-SLOT FRAMEWORK**
For ease of mounting accessories

**VERTICAL BENDS**
For smooth elevation changes and efficient use of vertical space

**MODULAR FRAMING**
For future add-on capability and production line changes

**SUPPORT POST**
Provide adjustable height while optimizing the use of floor space

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The right is reserved to make design modifications.

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

**Drawings**
Made to European standards.

**JULY 2019**
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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 is 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.
Slide Rail

A slide rail provides low friction and wear resistant track for the chain to slide on. It is mounted to a conveyor frame using screws or rivets. Various types of slide rails are available to meet different requirements like normal operation, high speed, high load, conductive and accumulation applications.

Conveyor Frames

Conveyor frames are made of anodized Aluminum extrusion that comes in standard length of 3 meter section. T-slot flexibly allow drives, idlers, bends, guide rail bracket, leg support and other accessories to be connected using connecting strips or bolts and nuts. Aluminum extrusion has great advantages such as high strength and lightweight. Two connecting strips are required for joining.

Guide Rail Assembly System

Guide rail components are used to guide and contain products throughout the conveyor system and prevent them from falling off the conveyor. We provide a comprehensive range of guide rails, covers and brackets either fixed or adjustable to cover many specialized product sizes and shapes.

Structural System

Our structural support system consists of support beams, support brackets, feet and end caps that are interconnected to form robust support structure for every conveying need.

Conveyor Accessories

We offer a wide selection of conveyor accessories from special bolt & nuts, brackets, connecting strips, rivets, rollers, T-slot cover and washers for inter-connection between modules and components.
INTRODUCTION

ELEVATING & LOWERING SYSTEMS

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-puckering 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
Pallet systems are for accurate positioning and routing. They are ideal for assembly processes or inspection. The components are sold as kits to allow for easy design changes and layout flexibility. Pallets also sold as kits to allow fixture attachments or as completed assemblies.
INTRODUCTION

PRODUCTION LINES

The ideal production conveyor system should have a simple set-up and offer the flexibility to adapt to the changes in product types and sizes, packaging formats, processes, market demands and trends.

Our system comes with pre-engineered modules and components that offer customers the versatility to customize their line according to their needs and yet provide the flexibility for future changes and expansion. Ease of assembly and integration of our systems eliminates costly engineering intervention, equipment disposal and lower cost of ownership.

TWIN-TRACK SYSTEMS

Employed to convey palletized products from one process or assembly station to another. Based on a modular system, these solutions offer customers the ease of plug & play with flexible configuration options.

Production capacity is maximized as a result of minimal product routing. Twin-Track Systems are well suited for manual or automatic assembly and test systems in the automotive and electrical/electronic industries.
INTRODUCTION

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 footprint 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
Purchasing a FlexMove Conveyor

Dorner offers three 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 third solution is to work with Dorner to have your FlexMove Conveyor assembled at the final site. The Conveyor will be purchased similar to option 2, but will be shipped as pre-cut and sized components. The Dorner installation team will then assemble and test the equipment at your location. Contact a Dorner representative for a quote on this service.
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)

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)

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)

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)

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)
FRAME WIDTHS

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)

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)

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)

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

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**Conveyor Beam** FKCB-3  
**Conveyor Half Beam** FKCB-3H

![Conveyor Beam and Conveyor Half Beam](image1)

**Chain Connecting Module** FKCC-160

![Chain Connecting Module](image2)
FK SERIES: 45 mm Conveyor System

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° but ≤ 30° 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.
SEW gearmotors are products of SEW Eurodrive

**FK SERIES: 45 mm Conveyor System**

**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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Shaft Selection</th>
<th>Direction</th>
<th>Aux Shaft Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>FKDD-A45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>X</td>
<td>D</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>0 = 20 mm</td>
<td>L = Left</td>
<td>Blank = No Aux Shaft</td>
</tr>
<tr>
<td></td>
<td>E = 3/4 in*</td>
<td>R = Right</td>
<td>A = 20 mm Aux Only</td>
</tr>
<tr>
<td></td>
<td>A = 20 mm Aux Only</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*3/4 inch shaft option available in North America 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

**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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Shaft Selection</th>
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<th>Aux Shaft Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>FKDD-A45GP</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>X</td>
<td>D</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>0 = 20 mm</td>
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<td>R = Right</td>
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</tr>
<tr>
<td></td>
<td>A = 20 mm Aux Only</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*3/4 inch shaft option available in North America 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 SERIES: 45 mm Conveyor System

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

FKDD-A45DB-A-0L

**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)**

FSTB-A65

- Transfer bridge c/w roller for FSIE-A65
- Transfer bridge c/w roller for FSDD-A65-0L
- Transfer bridge c/w roller for FSDD-A65-0R

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

FSEB-A65

- End transfer bridge c/w roller for FSIE-A65
- End transfer bridge c/w roller for FSDD-A65-0L
- End transfer bridge c/w roller for FSDD-A65-0R

**Note:** Drive Module is 12 mm wider than conveyor frame.
**SEW gearmotors are products of SEW Eurodrive**

**FK SERIES: 45 mm Conveyor System**

---

**FK Suspended End Drive without Motor (LEFT)**

- FKSD-A45-0L (with Torque Limiter)
- FKSD-A45SPT-0L (without Torque Limiter)

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

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

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

---

**FK Suspended Intermediate Drive without Motor (LEFT)**

- FKID-SD-0L1

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 to 200N

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

---

**FK Suspended End Drive without Motor (RIGHT)**

- FKSD-A45-0R (with Torque Limiter)
- FKSD-A45SPT-0R (without Torque Limiter)

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**FK Suspended Intermediate Drive without Motor (RIGHT)**

- FKID-SD-0R1

---

SEW gearmotors are products of SEW Eurodrive
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

• 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.

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
FK SERIES: 45 mm Conveyor System

**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 SERIES: 45 mm Conveyor System

**FK Idler End-45**

FKIE-A45

**FK Idler End-200**

FKIE-200

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

**Note**: Tail is 12 mm wider than conveyor frame.

**FK Idler-200 End Free Roller Bridge**

FKIE-A45EB-200

**FKEB-A45-200**

End transfer bridge c/w roller for FKIE-200

- **UOM**: pc
FK SERIES: 45 mm Conveyor System

**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
Example for FK Wheel Bend Ordering

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

If an angle of $65^\circ$ is needed for wheel bend, the ordering part number is FKWB-65R150A

The outer bend is assembled using connecting strip (FACS-20x140). Angle of $\varnothing$ must be indicated when ordering.
<table>
<thead>
<tr>
<th>Type of Bend</th>
<th>Angle (°)</th>
<th>UOM</th>
<th>Chain Required 2-Way (300, 500, 700, 1000)</th>
<th>Slide Rail Required 2-Way (300, 500, 700, 1000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Plain Bend 45°</td>
<td>45° ± 1°</td>
<td>pc</td>
<td>1.3, 1.6, 1.9, 2.4 meter</td>
<td>2.5, 3.2, 3.8, 4.7 meter</td>
</tr>
<tr>
<td>Horizontal Plain Bend 60°</td>
<td>60° ± 1°</td>
<td>pc</td>
<td>1.4, 1.8, 2.3, 2.9 meter</td>
<td>2.9, 3.7, 4.5, 5.8 meter</td>
</tr>
<tr>
<td>Horizontal Plain Bend 90°</td>
<td>90° ± 1°</td>
<td>pc</td>
<td>1.1, 1.2, 1.3 meter</td>
<td>1.9, 2.1, 2.3, 2.6 meter</td>
</tr>
</tbody>
</table>

FK SERIES: 45 mm Conveyor System
**FK Horizontal Plain Bend 180°**

- **Horizontal plain bend, 180° ± 1°**
  - R = 300 ± 10 mm  
  - FKHB-180R300
  - R = 500 ± 10 mm  
  - FKHB-180R500
  - R = 700 ± 10 mm  
  - FKHB-180R700
  - R = 1000 ± 10 mm  
  - FKHB-180R1000

- **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

**Example for FK Horizontal Plain Bend Ordering**

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

**FK Horizontal Plain Bend 5-180°**

**Example for FK Horizontal Plain Bend Ordering**

- **Horizontal plain bend, Ø° ± 1°**
  - R = 300 ± 10 mm  
  - FKHB-Ø°R300
  - R = 500 ± 10 mm  
  - FKHB-Ø°R500
  - R = 700 ± 10 mm  
  - FKHB-Ø°R700
  - R = 1000 ± 10 mm  
  - FKHB-Ø°R1000

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 SERIES: 45 mm Conveyor System

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
FS SERIES: 65 mm Conveyor System

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:** FACS-25x140A

**UOM:** 3 Meter / Length

**Chain Connecting Module FSCC-160**

**UOM:** pc
FS SERIES: 65 mm Conveyor System

**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.
FS SERIES: 65 mm Conveyor System

**Conductive Chain FSPC-5CD**

- **UOM:** 5 Meter / box
- **Application:** Suitable for transport of static sensitive product.

**Flocked Chain FSF-5**

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

**Friction Top Chain FSFT-5**

- **UOM:** 5 Meter / box
- **Application:** Suitable for transport product in slope > 5° but ≤ 30° without accumulation.

**Friction Top Chain FSFT-5C**

- **UOM:** 5 Meter / box
- **Application:** Suitable for transport product in slope > 5° but ≤ 35° 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° transport of products with accumulation.
FS SERIES: 65 mm Conveyor System

Cleat Top Chain-A
FSCT-5A17-L#
UOM: 5 Meter / box
Application: Suitable for vertical transport of product with no accumulation.

Cleat Top Chain-A
FSCT-5A30-L#
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#
UOM: 5 Meter / box
Application: Suitable for conveying ferromagnetic products in slope.
**Hardened Steel Top Chain** **FSST-5**

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

---

**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.
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 SERIES: 65 mm Conveyor System

SEW gearmotors are products of SEW Eurodrive
FS SERIES: 65 mm Conveyor System

**FS Direct with Power Transfer Motor** (LEFT)
FSDD-A65PT-XD (See Chart)

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Shaft Selection</th>
<th>Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSDD–A65PT</td>
<td>–</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>0 = 20 mm</td>
<td>L = Left</td>
</tr>
<tr>
<td></td>
<td>E = 3/4 in*</td>
<td>R = Right</td>
</tr>
</tbody>
</table>

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

**FS Direct with Power Transfer Motor** (RIGHT)
FSDD-A65PT-XD (See Chart)

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 GP Direct with Power Transfer Motor** (LEFT)
FSDD-A65GPPT-XD (See Chart)

Minimum product length for inline transfer = 100 mm
Provides extended transfer nose for interfacing with large rollers. Requires the use of connecting module for chain maintenance.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Shaft Selection</th>
<th>Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSDD–A65GPPT</td>
<td>–</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>0 = 20 mm</td>
<td>L = Left</td>
</tr>
<tr>
<td></td>
<td>E = 3/4 in*</td>
<td>R = Right</td>
</tr>
</tbody>
</table>

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

**FS GP Direct with Power Transfer Motor** (RIGHT)
FSDD-A65GPPT-XD (See Chart)

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

SEW gearmotors are products of SEW Eurodrive
FS SERIES: 65 mm Conveyor System

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.

FS SERIES: 65 mm Conveyor System

FS Direct Drive Free Roller Transfer Bridge
FSIE-A65TB

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)

FS Direct Drive End Free Roller Bridge (LEFT/RIGHT)
FSEB-A65

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

Roller transfer bridge is sold separately.

SEW gearmotors are products of SEW Eurodrive
FS SERIES: 65 mm Conveyor System

**FS Suspended End Drive without Motor (LEFT)**
FSSD-A65-0L (with Torque Limiter)
FSSD-A65SPT-0L (without Torque Limiter)

**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

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

**FS Direct Intermediate Drive without Motor (LEFT)**
FSID-DD-0L1

**FS Direct Intermediate Drive without Motor (RIGHT)**
FSID-DD-0R1

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

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

SEW gearmotors are products of SEW Eurodrive
FS Suspended Intermediate Drive without Motor (LEFT)  
FSID-SD-0L1  
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 Suspended Intermediate Drive without Motor (RIGHT)  
FSID-SD-0R1  
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

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 SERIES: 65 mm Conveyor System

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 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
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

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 SERIES: 65 mm Conveyor System

FS Idler End-65
FSIE-A65

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

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

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

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

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

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

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

FS Idler Free Roller Transfer Bridge

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

Roller transfer bridge is sold separately.

FS SERIES: 65 mm Conveyor System

UOM: pc

SEW gearmotors are products of SEW Eurodrive
FS SERIES: 65 mm Conveyor System

**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

**FS Idler End-200**

- FSIE-200

**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

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

**FS SERIES: 65 mm Conveyor System**
**FS SERIES: 65 mm Conveyor System**

**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
Example for FS Wheel Bend Ordering

- Wheel bend, \( \varnothing^\circ \pm 1^\circ \)
- FSWB-\( \varnothing^\circ R150A \)

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 \( \varnothing^\circ \) must be indicated when ordering.
FS SERIES: 65 mm Conveyor System

**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 SERIES: 65 mm Conveyor System

FS Horizontal Plain Bend 180°

Horizontal plain bend, 180° ± 1°

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

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, 0° ± 1°

- R = 300 ± 10 mm  
  FSHB-0°300
- R = 500 ± 10 mm  
  FSHB-0°500
- R = 700 ± 10 mm  
  FSHB-0°700
- R = 1000 ± 10 mm  
  FSHB-0°1000

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 SERIES: 65 mm Conveyor System

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>UOM</th>
<th>Chain Required 2-Way</th>
<th>Slide Rail Required 2-Way</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FS Vertical Bend 10°</strong></td>
<td>FSVB-10R300</td>
<td>pc</td>
<td>0.4 meter</td>
<td>0.8 meter</td>
</tr>
<tr>
<td><strong>FS Vertical Bend 15°</strong></td>
<td>FSVB-15R300</td>
<td>pc</td>
<td>0.5 meter</td>
<td>1.0 meter</td>
</tr>
<tr>
<td><strong>FS Vertical Bend 20°</strong></td>
<td>FSVB-20R300</td>
<td>pc</td>
<td>0.5 meter</td>
<td>1.1 meter</td>
</tr>
<tr>
<td><strong>FS Vertical Bend 30°</strong></td>
<td>FSVB-30R300</td>
<td>pc</td>
<td>0.6 meter</td>
<td>1.3 meter</td>
</tr>
</tbody>
</table>

*UOM: pc*
FS SERIES: 65 mm Conveyor System

**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, $\Theta^\circ \pm 1^\circ$
- FSVB-$\Theta^\circ$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 $\Theta^\circ$ must be indicated when ordering.
**FS SERIES: 65 mm Conveyor System**

### FS 45 Degree Twist Conveyor Beam (Clockwise)

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSTB-CW45x3000</td>
<td>CW, 45°</td>
</tr>
</tbody>
</table>

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

### FS 45 Degree Twist Conveyor Beam (Counter-Clockwise)

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSTB-CCW45x3000</td>
<td>CCW, 45°</td>
</tr>
</tbody>
</table>

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

### FS 90 Degree Twist Conveyor Beam (Clockwise)

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSTB-CW90x3000</td>
<td>CW, 90°</td>
</tr>
</tbody>
</table>

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

### FS 90 Degree Twist Conveyor Beam (Counter-Clockwise)

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSTB-CCW90x3000</td>
<td>CCW, 90°</td>
</tr>
</tbody>
</table>

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

### FS Twist Conveyor Beam 15º - 90º

**Example for FS Twist Conveyor Beam Ordering**

- **Twist Conveyor Beam, Ø° ± 5°**

  If an angle of 30° is needed for twist beam, in clockwise direction and length 3.0 m, the ordering part number is
  
  **FSTB-CW30x3000**

  **Angle of Ø°, twist direction, and length L, must be indicated when ordering.**

  **UOM:** pc  
  Chain required: 6 meter  
  Slide rail required: 12 meter
FM SERIES: 85 mm Conveyor System

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

---

**Conveyor Beam** FMCB-3

---

**Chain Connecting Module** FMCC-160

---
**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-5V**  
**UOM:** 5 Meter / box  
Application: (Safety Chain) Suitable for horizontal and slope < 5° transport of products with accumulation  

---  

**Safety Chain Friction Top**  
**FMFT-5V-A**  
**UOM:** 5 Meter / box  
Application: (Safety Chain) Suitable for transport product in slope > 5° but ≤ 30° without accumulation.
**FM SERIES: 85 mm Conveyor System**

**Friction Top Chain** FMFT-5

*UOM: 5 Meter / box*

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

**Friction Top Chain** FMFT-5A

*UOM: 5 Meter / box*

Application: Suitable for transport product in slope > 5° but ≈ 30° 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.
**FM SERIES: 85 mm Conveyor System**

- **Magnet Top Chain FMMT-5**
  - UOM: 5 Meter / box
  - Application: Suitable for conveying of ferromagnetic products in slope.

- **Magnet Top Chain FMMT-5-L#**
  - UOM: 5 Meter / box
  - Application: Suitable for conveying of ferromagnetic products in slope.

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

- **Hardened Steel Top Chain FMST-5**
  - UOM: 5 Meter / box
  - Application: Suitable to transport metal products in accumulation.

- **Stainless Steel Top Chain FMST-5S**
  - UOM: 5 Meter / box
  - Application: Suitable to transport metal products in accumulation.

- **Universal Chain FMUC-5**
  - 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 vertical transportation of product with no accumulation.

Roller Cleat Chain  **FMRC-5A-L#**
- # = 1, 2, 3, 4, 5.....20
- Application: Suitable for vertical transportation of product in slope with no accumulation.

Roller Cleat Chain  **FMRC-5B-L#**
- # = 1, 2, 3, 4, 5.....20
- Application: Suitable for vertical transportation of product in slope with no accumulation.

Cleat Top Chain  **FMCT-5A17-L#**
- # = 1, 2, 3, 4, 5.....20
- Application: Suitable for vertical transport of product with no accumulation.

Cleat Top Chain  **FMCT-5A30-L#**
- # = 1, 2, 3, 4, 5.....20
- Application: Suitable for vertical transport of product with no accumulation.
**FM SERIES: 85 mm Conveyor System**

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

- **UOM:** 5 Meter / box
- Application: Suitable for transport product in slope > 5° but <= 30° without accumulation. (Subject to product weight and Packing)

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

- **UOM:** 5 Meter / box
- Application: Suitable for transport product in slope > 5° but <= 30° 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° transport of products with accumulation.

**Friction Top Chain** FMFT-5C

- **UOM:** 5 Meter / box
- Application: Suitable for transport product in slope > 5° but <= 35° without accumulation. (Subject to product weight and Packing)
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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Shaft Selection</th>
<th>Direction</th>
<th>Aux Shaft Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMDD–A85</td>
<td>X</td>
<td>D</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>0 = 20 mm</td>
<td>L = Left</td>
<td>Blank = No Aux Shaft</td>
</tr>
<tr>
<td></td>
<td>E = 3/4 in*</td>
<td>R = Right</td>
<td>A = 20 mm Aux Shaft</td>
</tr>
<tr>
<td></td>
<td>A = 20 mm Aux Only</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SEW gearmotors are products of SEW Eurodrive
FM SERIES: 85 mm Conveyor System

**SEW gearmotors are products of SEW Eurodrive**

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

FM DD-A85PT-XD (See Chart)

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Shaft Selection</th>
<th>Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMDD–A85PT</td>
<td>X</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td>0 = 20 mm</td>
<td>L = Left</td>
</tr>
<tr>
<td></td>
<td>E = 3/4 in*</td>
<td>R = Right</td>
</tr>
</tbody>
</table>

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

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

FM DD-A85GPPT-XD (See Chart)

Minimum product length for inline transfer = 100 mm.
Provides extended transfer nose for interfacing with large rollers. Requires the use of connecting module for chain maintenance.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Shaft Selection</th>
<th>Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMDD–A85GPPT</td>
<td>X</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td>0 = 20 mm</td>
<td>L = Left</td>
</tr>
<tr>
<td></td>
<td>E = 3/4 in*</td>
<td>R = Right</td>
</tr>
</tbody>
</table>

*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

**FM SERIES: 85 mm Conveyor System**
**FM SERIES: 85 mm Conveyor System**

**FM Direct Drive Driven Transfer Bridge (LEFT)**

**FMDD-A85DB-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)**

**FMDD-A85DB-0R**

- 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)**

**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)**

**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
FM SERIES: 85 mm Conveyor System

**FM Suspended Intermediate Drive without Motor (LEFT)**

- 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)**

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)**

**FM Combined Direct Drive & Idler (RIGHT)**

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**
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

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
FM SERIES: 85 mm Conveyor System

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 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
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

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
FM SERIES: 85 mm Conveyor System

**FM Idler End-65**

FMIE-A85

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

**FM Idler End with Power Transfer (LEFT)**

FMIE-A85PT-L

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

**FM Idler End Drive n Transfer Bridge (LEFT)**

FMIE-A85DB-L

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

**FM Idler Free Roller Transfer Bridge**

FMIE-A85

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

**FM Direct Drive Driven Transfer Bridge (RIGHT)**

FMIE-A85DB-R

UOM: pc
Chain required 2-way: 0.8 meter
Slide rail required 2-way: 0.5 meter
FM SERIES: 85 mm Conveyor System

**FM Idler End Free Roller Bridge**

UOM: pc

**FM Idler End-315**

FMIE-315

UOM: pc

**FM Idler Bend**

FMIB-300

UOM: pc

**FM Wheel Bend 180°**

FMWB-180R160A

UOM: pc

**FMEB-A85**

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

UOM: pc

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

**FM Series: 85 mm Conveyor System**
**FM SERIES: 85 mm Conveyor System**

**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 SERIES: 85 mm Conveyor System**
Example for FM Wheel Bend Ordering
- Wheel bend, Ø° ± 1°
- FMWB-Ø°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 Ø° must be indicated when ordering.*

**FM Horizontal Plain Bend 15°**

**Horizontal plain bend, 15° ± 1°**

<table>
<thead>
<tr>
<th>R (±10 mm)</th>
<th>FMHB-15R300</th>
<th>FMHB-15R500</th>
<th>FMHB-15R700</th>
<th>FMHB-15R1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>FMHB-15R300</td>
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<td>500</td>
<td>FMHB-15R500</td>
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<tr>
<td>700</td>
<td>FMHB-15R700</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>FMHB-15R1000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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°**

<table>
<thead>
<tr>
<th>R (±10 mm)</th>
<th>FMHB-30R300</th>
<th>FMHB-30R500</th>
<th>FMHB-30R700</th>
<th>FMHB-30R1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>FMHB-30R300</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>FMHB-30R500</td>
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<td></td>
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<tr>
<td>700</td>
<td>FMHB-30R700</td>
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<td></td>
</tr>
<tr>
<td>1000</td>
<td>FMHB-30R1000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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°**

<table>
<thead>
<tr>
<th>R (±10 mm)</th>
<th>FMHB-45R300</th>
<th>FMHB-45R500</th>
<th>FMHB-45R700</th>
<th>FMHB-45R1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>FMHB-45R300</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>FMHB-45R500</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>700</td>
<td>FMHB-45R700</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>FMHB-45R1000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 SERIES: 85 mm Conveyor System**

**FM Horizontal Plain Bend 60°**

**Horizontal plain bend, 60° ± 1°**
- $R = 300 \pm 10$ mm  
  **FMHB-60R300**  
- $R = 500 \pm 10$ mm  
  **FMHB-60R500**  
- $R = 700 \pm 10$ mm  
  **FMHB-60R700**  
- $R = 1000 \pm 10$ 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°**
- $R = 300 \pm 10$ mm  
  **FMHB-90R300**  
- $R = 500 \pm 10$ mm  
  **FMHB-90R500**  
- $R = 700 \pm 10$ mm  
  **FMHB-90R700**  
- $R = 1000 \pm 10$ 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°**
- $R = 300 \pm 10$ mm  
  **FMHB-180R300**  
- $R = 500 \pm 10$ mm  
  **FMHB-180R500**  
- $R = 700 \pm 10$ mm  
  **FMHB-180R700**  
- $R = 1000 \pm 10$ 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
Example for FM Horizontal Plain Bend Ordering

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

- $R = 300 \pm 10$ mm, \( \text{FMHB-} \theta^\circ \text{R300} \)
- $R = 500 \pm 10$ mm, \( \text{FMHB-} \theta^\circ \text{R500} \)
- $R = 700 \pm 10$ mm, \( \text{FMHB-} \theta^\circ \text{R700} \)
- $R = 1000 \pm 10$ mm, \( \text{FMHB-} \theta^\circ \text{R1000} \)

If an angle of $120^\circ$ 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 5°**

**FMVB-10R400**

**UOM: pc**

- Chain required 2-way: 0.5 meter
- Slide rail required 2-way: 1.1 meter
FM SERIES: 85 mm Conveyor System

**FM Vertical Bend 15°**  
FMVB-15R400  
Chain required 2-way: 0.5 meter  
Slide rail required 2-way: 1.1 meter

**FM Vertical Bend 20°**  
FMVB-20R400  
Chain required 2-way: 0.6 meter  
Slide rail required 2-way: 1.2 meter

**FM Vertical Bend 30°**  
FMVB-30R400  
Chain required 2-way: 0.7 meter  
Slide rail required 2-way: 1.5 meter

**FM Vertical Bend 45°**  
FMVB-45R400  
Chain required 2-way: 0.9 meter  
Slide rail required 2-way: 1.9 meter
**Example for FM Vertical Bend Ordering**

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

If an angle of $65^\circ$ is needed for vertical bend, the ordering part number is

**FMVB-65R400**

*The outer bend is assembled using connecting strip (FACS-25x140A). Angle of $\theta^\circ$ must be indicated when ordering.*
FM SERIES: 85 mm Conveyor System

**FM 45 Degree Twist Conveyor Beam (Clockwise)**

FMTB-CW45x3000

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

FMTB-CCW45x3000

UOM: pc

Chain required: 6 meter
Slide rail required: 12 meter

**FM 90 Degree Twist Conveyor Beam (Clockwise)**

FMTB-CW90x3000

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

FMTB-CCW90x3000

UOM: pc

Chain required: 6 meter
Slide rail required: 12 meter

**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, $\theta^\circ \pm 5^\circ$

If an angle of 30° is needed for twist beam, in clockwise direction and length 3.0 m, the ordering part number is **FMTB-CW30x3000**

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

UOM: pc

Chain required: 6 meter
Slide rail required: 12 meter
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:** FACS-25x140A

**Conveyor Beam** FCCB-3

**Chain Connecting Module** FCCC-160

- **UOM:** 3 Meter / Length
- **UOM:** pc

![Diagram of FC Series Conveyor System](image-url)
FC SERIES: 105 mm Conveyor System

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

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

UOM: 5 Meter / box
Application: Suitable for transport of static sensitive product.

UOM: 5 Meter / box
Application: Suitable for vertical transport of product with no accumulation.

UOM: 5 Meter / box
Application: Suitable for accumulation of product with low friction and pressure.
**FC Series: 105 mm Conveyor System**

- **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° but ≤ 30° without accumulation.

- **Friction Top Chain** FCFT-5A
  - **UOM:** 5 Meter / box
  - **Application:** Suitable for transport product in slope > 5° but ≤ 30° without accumulation.

- **Friction Top Chain** FCFT-5B
  - **UOM:** 5 Meter / box
  - **Application:** Suitable for transport product in slope > 5° but ≤ 40° without accumulation.

- **Friction Top Chain** FCFT-5C
  - **UOM:** 5 Meter / box
  - **Application:** Suitable for transport product in slope > 5° but ≤ 35° without accumulation.
**FC SERIES: 105 mm Conveyor System**

**Hardened Steel Top Chain FCST-5**
- **UOM:** 5 Meter / box
- **Application:** Suitable to transport metal products in 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 < 5° transport of products with accumulation.

**Twist Chain FCPC-5M**
- **UOM:** 5 Meter / box
- **Application:** Suitable twist conveyor beam; horizontal and slope < 5° transport of products with accumulation.
### FC Direct End Drive unit without Motor GP (LEFT)

<table>
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<tr>
<th>Part Number</th>
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<td>FCDD–A105GP</td>
<td>X</td>
<td>D</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>0 = 20 mm</td>
<td>L = Left</td>
<td>Blank = No Aux Shaft</td>
</tr>
<tr>
<td></td>
<td>E = 3/4 in*</td>
<td>R = Right</td>
<td>A = 20 mm Aux Shaft</td>
</tr>
<tr>
<td></td>
<td>A = 20 mm Aux Only</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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

### FC Direct End Drive unit without Motor GP (RIGHT)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Shaft Selection</th>
<th>Direction</th>
<th>Aux Shaft Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCDD–A105GP</td>
<td>X</td>
<td>D</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

*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
FC SERIES: 105 mm Conveyor System

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
Provides extended transfer nose for interfacing with large rollers.

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

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.

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
Provides extended transfer nose for interfacing with large rollers. Requires the use of connecting module for chain maintenance.

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

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.

SEW gearmotors are products of SEW Eurodrive
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 SERIES: 105 mm Conveyor System

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

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

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
SEW gearmotors are products of SEW Eurodrive

**FC Suspended End Drive without Motor**
- FCSD-A105-0L (with Torque Limiter)
- FCSD-A105SPT-0L (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.

**FC Direct Intermediate Drive without Motor**
- FCID-DD-0L1
- FCID-DD-0R1

Max Traction Force:
- 200N

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

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

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

* 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.
FC SERIES: 105 mm Conveyor System

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

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

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
**FC SERIES: 105 mm Conveyor System**

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

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

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

Minimum product length for inline transfer = 0.8 meter
Slide rail required 2-way: 0.5 meter

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

Minimum product length for inline transfer = 0.8 meter
Slide rail required 2-way: 0.5 meter

**FC Idler End Driven Transfer Bridge (LEFT)**
FCIE-A85DB-L

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

**FC Direct Drive Driven Transfer Bridge (RIGHT)**
FCIE-A85DB-R

**FC Idler Free Roller Transfer Bridge**

UOM: pc
Transfer bridge c/w roller for FCIE-A105, FCDD-A105-XDY and FCDD-A105GP-XDY
FC SERIES: 105 mm Conveyor System

**FC Idler End Free Roller Bridge**

**FC Idler End-308**

**FC Idler Bend**

**FC Wheel Bend 180°**

**FCEB-A105**

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

**FMIE-308**

**FCIB-350**

**FCWB-180R170A**

UOM: pc

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

Note: Cannot be used with return chain

UOM: pc

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

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 SERIES: 105 mm Conveyor System

**FC Wheel Bend 90°**
- **UOM:** pc
- **Chain required 2-way:** 0.9 meter
- **Slide rail required 2-way:** 0.9 meter

**FC Wheel Bend 60°**
- **UOM:** pc
- **Chain required 2-way:** 0.7 meter
- **Slide rail required 2-way:** 0.7 meter

**FC Wheel Bend 45°**
- **UOM:** pc
- **Chain required 2-way:** 0.6 meter
- **Slide rail required 2-way:** 0.6 meter

**FC Wheel Bend 30°**
- **UOM:** pc
- **Chain required 2-way:** 0.5 meter
- **Slide rail required 2-way:** 0.5 meter
Example for FC Wheel Bend Ordering

- Wheel bend, $\theta^\circ \pm 1^\circ$
- FCWB-$\theta^\circ$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 $\theta^\circ$ must be indicated when ordering.

**FC Horizontal Plain Bend 15°**

<table>
<thead>
<tr>
<th>Horizontal plain bend, 15° ± 1°</th>
</tr>
</thead>
<tbody>
<tr>
<td>$R = 300 \pm 10$ mm</td>
</tr>
<tr>
<td>$R = 500 \pm 10$ mm</td>
</tr>
<tr>
<td>$R = 700 \pm 10$ mm</td>
</tr>
<tr>
<td>$R = 1000 \pm 10$ mm</td>
</tr>
</tbody>
</table>

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 30°**

<table>
<thead>
<tr>
<th>Horizontal plain bend, 30° ± 1°</th>
</tr>
</thead>
<tbody>
<tr>
<td>$R = 300 \pm 10$ mm</td>
</tr>
<tr>
<td>$R = 500 \pm 10$ mm</td>
</tr>
<tr>
<td>$R = 700 \pm 10$ mm</td>
</tr>
<tr>
<td>$R = 1000 \pm 10$ mm</td>
</tr>
</tbody>
</table>

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 60°**

<table>
<thead>
<tr>
<th>Horizontal plain bend, 60° ± 1°</th>
</tr>
</thead>
<tbody>
<tr>
<td>$R = 300 \pm 10$ mm</td>
</tr>
<tr>
<td>$R = 500 \pm 10$ mm</td>
</tr>
<tr>
<td>$R = 700 \pm 10$ mm</td>
</tr>
<tr>
<td>$R = 1000 \pm 10$ mm</td>
</tr>
</tbody>
</table>

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, 11.1, 14.2 meter

FC Horizontal Plain Bend 5° - 180°

Example for FC Horizontal Plain Bend Ordering

- Horizontal plain bend, Ø° ± 1°
  - 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 SERIES: 105 mm Conveyor System

**FC Vertical Bend 5°**
FCVB-5R400

![Diagram of FC Vertical Bend 5°](image1)

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

---

**FC Vertical Bend 10°**
FCVB-10R400

![Diagram of FC Vertical Bend 10°](image2)

**UOM:** pc  
Chain required 2-way: 0.5 meter  
Slide rail required 2-way: 0.9 meter

---

**FC Vertical Bend 15°**
FCVB-15R400

![Diagram of FC Vertical Bend 15°](image3)

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

---

**FC Vertical Bend 20°**
FCVB-20R400

![Diagram of FC Vertical Bend 20°](image4)

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

---
**FC Vertical Bend 30°**  
**FMVB-30R400**

![Diagram of FC Vertical Bend 30°](image1)

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

---

**FC Vertical Bend 45°**  
**FCVB-45R400**

![Diagram of FC Vertical Bend 45°](image2)

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

---

**FC Vertical Bend 60°**  
**FCVB-60R400**

![Diagram of FC Vertical Bend 60°](image3)

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

---

**FC Vertical Bend 90°**  
**FCVB-90R400**

![Diagram of FC Vertical Bend 90°](image4)

UOM: pc  
Chain required 2-way: 1.6 meter  
Slide rail required 2-way: 3.2 meter
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 "$\theta^\circ$" must be indicated when ordering.
**FC SERIES: 105 mm Conveyor System**

**FC 45 Degree Twist Conveyor Beam (Clockwise)**

FCTB-CW45x3000

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

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

FCTB-CCW45x3000

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

**FC 90 Degree Twist Conveyor Beam (Clockwise)**

FCTB-CW90x3000

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

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

FCTB-CCW90x3000

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

**FC Twist Conveyor Beam 15° - 90°**

FCTB-AAABBx3000  Where AAA = CW or CCW, BB = Angle

**Example for FC Twist Conveyor Beam Ordering**
- Twist Conveyor Beam, $\Theta^\circ \pm 5^\circ$

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

FCTB-CW30x3000

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

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

**Conveyor Beam FLCB-3**

**Chain Connecting Module FLCC-160**
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 1 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
Conductive Chain   FLPC-5CD

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

Friction Top Chain  FLFT-5

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

UOM: 5 Meter / box
Application: Suitable for transport of static sensitive product.
FL SERIES: 150 mm Conveyor System

**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#**
- UOM: 5 Meter / box
- Application: Suitable for horizontal and slope < 5° transport of products with accumulation.
- #: 1, 2, 3, 4, 5,.....20

**Roller Cleat Chain FLRC-5B-L#**
- UOM: 5 Meter / box
- Application: Suitable for transport product in slope > 5° but ≤ 30° without accumulation.
- #: 1, 2, 3, 4, 5,.....20

**Cleat Top Chain FLCT-5A30-L#**
- UOM: 5 Meter / box
- Application: Suitable for vertical transportation of product in slope with no accumulation.
- #: 1, 2, 3, 4, 5,.....20

**Safety Chain-V FLPC-5V**
- UOM: 5 Meter / box
- Application: Suitable for vertical transportation of product in slope with no accumulation.

**Safety Chain Friction Top FLFT-5V**
- UOM: 5 Meter / box
- Application: (Safety Chain) Suitable for horizontal and slope < 5° transport of products with accumulation.
- Application: (Safety Chain) Suitable for transport product in slope > 5° but ≤ 30° without accumulation.

SEW gearmotors are products of SEW Eurodrive
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 SERIES: 150 mm Conveyor System

FL Direct with Power Transfer Motor (LEFT)

FL Direct with Power Transfer Motor (RIGHT)

FLGP Direct with Power Transfer Motor (LEFT)

FLGP Direct with Power Transfer Motor (RIGHT)

Minimum product length for inline transfer = 100 mm
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

*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

Minimum product length for inline transfer = 100 mm
Provides extended transfer nose for interfacing with large rollers.
Requires the use of connecting module for chain maintenance.

### Part Number | Shaft Selection | Direction
--- | --- | ---
FLDD–A150GPPT | 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
**FL SERIES: 150 mm Conveyor System**

**FL Direct Drive Driven Transfer Bridge (LEFT)**
FLDD-A150DB-A-0L

**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)**

**FL Idler End Free Roller Bridge**

**FL Series: 150 mm Conveyor System**

SEW gearmotors are products of SEW Eurodrive
FL SERIES: 150 mm Conveyor System

**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)

- 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 (without limiter)
- 800N (with limiter)

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

**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 SERIES: 150 mm Conveyor System

**FL Combined Direct Drive & Idler (LEFT)**
FLCDI-DD-A150-0L

**FL Combined Direct Drive & Idler (RIGHT)**
FLCDI-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

SEW gearmotors are products of SEW Eurodrive
**FL SERIES: 150 mm Conveyor System**

**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

**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 SERIES: 150 mm Conveyor System

**FL Idler End-150**
FCIE-A150

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

**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

**FL Idler End Driven Transfer Bridge (LEFT)**
FLIE-A150DB-L

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

**FL Direct Drive Driven Transfer Bridge (RIGHT)**
FLIE-A150DB-R

**FL Idler End Free Transfer Bridge**

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

**FL SERIES: 150 mm Conveyor System**

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

**UOM: pc**
**FL SERIES: 150 mm Conveyor System**

**FL Idler End Free Roller Bridge**

**FLIE-A150EB**

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

**FLEB-A150**

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

---

**FL Wheel Bend 60°**

**FLWB-60R210A**

UOM: pc
Chain required 2-way: 1.6 meter
Slide rail required 2-way: 2.2 meter
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 Ø° must be indicated when ordering.
FL SERIES: 150 mm Conveyor System

**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
Example for FL Horizontal Plain Bend Ordering

**Horizontal plain bend, \(90^\circ \pm 1^\circ\)**

<table>
<thead>
<tr>
<th>R = 500 ± 10 mm</th>
<th>FLHB-90R500</th>
</tr>
</thead>
<tbody>
<tr>
<td>R = 700 ± 10 mm</td>
<td>FLHB-90R700</td>
</tr>
<tr>
<td>R = 1000 ± 10 mm</td>
<td>FLHB-90R1000</td>
</tr>
</tbody>
</table>

**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

If an angle of \(120^\circ\) is needed for radius R500 horizontal plain bend, the ordering part number is

**FLHB-120R500**

**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 SERIES: 150 mm Conveyor System

**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
Example for FL Vertical Bend Ordering

- Vertical bend, $\theta^\circ \pm 1^\circ$
- FLVB-$\theta^\circ$R500

If an angle of $65^\circ$ is needed for vertical bend, the ordering part number is

**FLVB-65R500**

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

**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-5**

**UOM:** 5 Meter / box  
Application: Suitable for horizontal and slope ≤ 30° transport of products without accumulation.

**Roller Friction Top Chain FUFT-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 SERIES: 180 mm Conveyor System

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

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

*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

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

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

SEW gearmotors are products of SEW Eurodrive
FU SERIES: 180 mm Conveyor System

**SEW gearmotors are products of SEW Eurodrive**

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

**FUDD–A180PT-XD (See Chart)**

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Shaft Selection</th>
<th>Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUDD–A180PT</td>
<td>X</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td>0 = 20 mm</td>
<td>L = Left</td>
</tr>
<tr>
<td></td>
<td>E = 3/4 in*</td>
<td>R = Right</td>
</tr>
</tbody>
</table>

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

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

**FUDD–A180GPPT-XD (See Chart)**

Minimum product length for inline transfer = 100 mm
Provides extended transfer nose for interfacing with large rollers.
Requires the use of connecting module for chain maintenance.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Shaft Selection</th>
<th>Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUDD–A180GPPT</td>
<td>X</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td>0 = 20 mm</td>
<td>L = Left</td>
</tr>
<tr>
<td></td>
<td>E = 3/4 in*</td>
<td>R = Right</td>
</tr>
</tbody>
</table>

*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 Direct with Power Transfer Motor (RIGHT)

**FUDD–A180PT-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: 1.0 meter

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

**FUDD–A180GPPT-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: 1.0 meter
FU SERIES: 180 mm Conveyor System

**FU Direct Drive Driven Transfer Bridge (LEFT)**
FUD-A180DB-A-0L

**FU Direct Drive Driven Transfer Bridge (RIGHT)**
FUD-A180DB-A-0R

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

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

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

UOM: pc
20 mm Shaft only.
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 meter

Transfer bridge c/w roller for FUJE-A180, FUD-A180-XDY and FUD-A180GP-XDY

UOM: pc
End transfer bridge c/w roller for FUJE-A180, FUD-A180-XDY and FUD-A180GP-XDY
**FU Suspended Drive with Motor (LEFT)**

FUSD-A180-0L (with Torque Limiter)
FUSD-A180SPT-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.

**FU Suspended Drive with Motor (RIGHT)**

FUSD-A180-0R (with Torque Limiter)
FUSD-A180SPT-0R (without 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 SERIES: 180 mm Conveyor System

FU Idler End-180
FUIE-A180

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

FU Idler End Driven Transfer Bridge (RIGHT)
FUIE-A180DB-R
UOM: pc
Chain required 2-way: 0.8 meter
Slide rail required 2-way: 1.0 meter

FU Idler Free Roller Transfer Bridge

Transfer bridge c/w roller for FUIE-A180, FUDD-A180-XDY and FUDD-A180GP-XDY

FUTB-A180
UOM: pc
FU SERIES: 180 mm Conveyor System

FU Idler End Free Roller Bridge

**FU Horizontal Plain Bend 30°**

Horizontal plain bend, 30° ± 1°
- \( R = 500 \pm 10 \text{ mm} \)  FUHB-30R500
- \( R = 700 \pm 10 \text{ mm} \)  FUHB-30R700
- \( R = 1000 \pm 10 \text{ mm} \)  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°
- \( R = 500 \pm 10 \text{ mm} \)  FUHB-45R500
- \( R = 700 \pm 10 \text{ mm} \)  FUHB-45R700
- \( R = 1000 \pm 10 \text{ mm} \)  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°
- \( R = 500 \pm 10 \text{ mm} \)  FUHB-60R500
- \( R = 700 \pm 10 \text{ mm} \)  FUHB-60R700
- \( R = 1000 \pm 10 \text{ mm} \)  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

End transfer bridge c/w roller for FUIE-A180, FUDD-A180-XDY and FUDD-A180GP-XDY

UOM: pc
**FU SERIES: 180 mm Conveyor System**

**FU Horizontal Plain Bend 90°**

**FUHV-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, 0° ± 1°**

- **R = 500 ± 10 mm**
  - **FUHB-0*R500**
- **R = 700 ± 10 mm**
  - **FUHB-0*R700**
- **R = 1000 ± 10 mm**
  - **FUHB-0*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): 2.4, 3.0, 3.9 meter
Slide rail required 2-way (500, 700, 1000): 7.1, 9.0, 11.8 meter

**FU Vertical Bend 5°**

**FUHV-5R400**

**UOM: pc**

Chain required 2-way: 0.4 meter
Slide rail required 2-way: 1.2 meter
<table>
<thead>
<tr>
<th>FU Vertical Bend 10°</th>
<th>FUVB-10R400</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
</tr>
<tr>
<td>UOM: pc</td>
<td>Chain required 2-way: 0.5 meter</td>
</tr>
<tr>
<td></td>
<td>Slide rail required 2-way: 1.4 meter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FU Vertical Bend 15°</th>
<th>FUVB-15R400</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Diagram" /></td>
<td><img src="image4" alt="Diagram" /></td>
</tr>
<tr>
<td>UOM: pc</td>
<td>Chain required 2-way: 0.5 meter</td>
</tr>
<tr>
<td></td>
<td>Slide rail required 2-way: 1.6 meter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FU Vertical Bend 20°</th>
<th>FUVB-20R400</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5" alt="Diagram" /></td>
<td><img src="image6" alt="Diagram" /></td>
</tr>
<tr>
<td>UOM: pc</td>
<td>Chain required 2-way: 0.6 meter</td>
</tr>
<tr>
<td></td>
<td>Slide rail required 2-way: 1.8 meter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FU Vertical Bend 30°</th>
<th>FUVB-30R400</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7" alt="Diagram" /></td>
<td><img src="image8" alt="Diagram" /></td>
</tr>
<tr>
<td>UOM: pc</td>
<td>Chain required 2-way: 0.7 meter</td>
</tr>
<tr>
<td></td>
<td>Slide rail required 2-way: 2.2 meter</td>
</tr>
</tbody>
</table>
Example for FU Vertical Bend Ordering

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

If an angle of $65^\circ$ is needed for vertical bend, the ordering part number is

**FUVB-65R400**
### FU SERIES: 180 mm Conveyor System

#### FU 45 Degree Twist Conveyor Beam (Clockwise)
- **Part Number:** FUTB-CW45x3000
- **UOM:** pc
- **Chain required:** 6 meter
- **Slide rail required:** 12 meter

#### FU 45 Degree Twist Conveyor Beam (Counter-Clockwise)
- **Part Number:** FUTB-CCW45x3000
- **UOM:** pc
- **Chain required:** 6 meter
- **Slide rail required:** 12 meter

#### FU 90 Degree Twist Conveyor Beam (Clockwise)
- **Part Number:** FUTB-CW90x3000
- **UOM:** pc
- **Chain required:** 6 meter
- **Slide rail required:** 12 meter

#### FU 90 Degree Twist Conveyor Beam (Counter-Clockwise)
- **Part Number:** FUTB-CCW90x3000
- **UOM:** pc
- **Chain required:** 6 meter
- **Slide rail required:** 12 meter

#### FU Twist Conveyor Beam 15° - 90°
- **Part Number:** FUTB-AAABBx3000
- **UOM:** pc
- **Chain required:** 6 meter
- **Slide rail required:** 12 meter

**Example for FU Twist Conveyor Beam Ordering**

- **Twist Conveyor Beam, \( \Theta \degree \pm 5\degree \)**

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

**FUTB-CW30x3000**

**Angle of \( \Theta \degree \), twist direction, and length \( L \), must be indicated when ordering.**

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

**Conveyor Beam**  
**FVCB-3**

Beam section for chain installation.

**Chain Connecting Module**  
**FVCC-300**

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

**UOM:** 5 Meter / box

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

## FV SERIES: 260 mm Conveyor System

### Plain Chain FVPC-5

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*

### Roller Plain Chain FVPC-5R

UOM: 5 Meter / box

Application: Suitable for horizontal and slope ≤ 30° transport of products with accumulation.

### Friction Top Chain FVFT-5

UOM: 5 Meter / box

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

### Roller Friction Top Chain FVFT-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 FVPC-5M

UOM: 5 Meter / box

Application: Suitable twist conveyor beam; horizontal and slope < 5° transport of products with accumulation.
**FV SERIES: 260 mm Conveyor System**

### FV Direct End Drive with Motor (LEFT)
- **FVDD-A260-XDY** (See Chart)

### FV Suspended Drive with Motor (RIGHT)
- **FVDD-A260-XDY** (See Chart)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Shaft Selection</th>
<th>Direction</th>
<th>Aux Shaft Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>FVDD–A260</td>
<td>X</td>
<td>D</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>0 = 20 mm</td>
<td>L = Left</td>
<td>Blank = No Aux Shaft</td>
</tr>
<tr>
<td></td>
<td>E = 3/4 in*</td>
<td>R = Right</td>
<td>A = 20 mm Aux Shaft</td>
</tr>
<tr>
<td></td>
<td>A = 20 mm Aux Only</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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 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)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Shaft Selection</th>
<th>Direction</th>
<th>Aux Shaft Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>FVDD–A260GP</td>
<td>X</td>
<td>D</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>0 = 20 mm</td>
<td>L = Left</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

*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
FV SERIES: 260 mm Conveyor System

FV Direct with Power Transfer Motor (LEFT)

FVDD–A260PT-XD (See Chart)

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

<table>
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<tr>
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<tbody>
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<td>FVDD–A260PT</td>
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<tr>
<td></td>
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*3/4 inch shaft option available in North America only.

FV GP Direct with Power Transfer Motor (LEFT)

FVDD–A260GPPT-XD (See Chart)

Minimum product length for inline transfer = 100 mm
Provides extended transfer nose for interfacing with large rollers.
Requires the use of connecting module for chain maintenance.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Shaft Selection</th>
<th>Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>FVDD–A260GPPT</td>
<td>X</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td>0 = 20 mm</td>
<td>L = Left</td>
</tr>
<tr>
<td></td>
<td>E = 3/4 in*</td>
<td>R = Right</td>
</tr>
</tbody>
</table>

*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 Direct with Power Transfer Motor (RIGHT)

FVDD–A260PT-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 meter

SEW gearmotors are products of SEW Eurodrive
FV SERIES: 260 mm Conveyor System

FV Direct Drive Driven Transfer Bridge (LEFT)
FVDD-A260DB-A-0L

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

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

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

FV Direct Drive Driven Transfer Bridge (RIGHT)
FVDD-A260DB-A-0R

FV Direct Drive Free Roller Transfer Bridge (LEFT/ RIGHT)
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)
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
**Max Traction Force:**
1250N (without limiter)
840N (with limiter)

- Locations 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 Series: 260 mm Conveyor System**

**FV Suspended End Drive with Motor (LEFT)**
FVSD-A260-0L (with Torque Limiter)
FVSD-A260SPT-0L (without Torque Limiter)

**FV Suspended End Drive with Motor (RIGHT)**
FVSD-A260-0R (with Torque Limiter)
FVSD-A260SPT-0R (without Torque Limiter)

**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
FV SERIES: 260 mm Conveyor System

**FV Idler End-260**

FVIE-A260

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

**FV Idler End with Power Transfer (LEFT)**

FVIE-A260PT-L

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

**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-L

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

**FV Idler End Driven Transfer Bridge (RIGHT)**

FVIE-A260DB-R

- 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 SERIES: 260 mm Conveyor System

FV Idler End Free Roller Bridge

FVEB-A260
End transfer bridge c/w roller for FVIE-A260, FVDD-A260-XDY and FVDD-A260GP-XDY

F V 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

F V 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

F V 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
Example for FV Horizontal Plain Bend Ordering

**Horizontal plain bend, 90° ± 1°**

<table>
<thead>
<tr>
<th>Radius (mm)</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>700 ± 10</td>
<td>FVHB-90R700</td>
</tr>
<tr>
<td>1000 ± 10</td>
<td>FVHB-90R1000</td>
</tr>
</tbody>
</table>

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

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)

**Horizontal plain bend, 5° ± 1°**

<table>
<thead>
<tr>
<th>Radius (mm)</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>700 ± 10</td>
<td>FVHB -0°R700</td>
</tr>
<tr>
<td>1000 ± 10</td>
<td>FVHB -0°R1000</td>
</tr>
</tbody>
</table>

UOM: pc
Chain required 2-way (700, 1000): 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
Example for FV Vertical Bend Ordering
- Vertical bend, $\theta^\circ \pm 1^\circ$
- FVVB-$\theta^\circ$R400

If an angle of $65^\circ$ is needed for vertical bend, the ordering part number is **FVVB-65R400**

*The outer bend is assembled using connecting strip (FACS-25x140A). Angle of "$\theta^\circ$" 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

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

FV Twist Conveyor Beam 15° - 45°

FVTB-AAABBx3000 Where AAA = CW or CCW, BB = Angle

Example for FV Twist Conveyor Beam Ordering

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

If an angle of 30° is needed for twist beam, in clockwise direction and length 2.5 m, the ordering part number is

FVTB-CW30x3000

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

UOM: pc
Chain required: 6 meter
Slide rail required: 12 meter
FZ SERIES: Function Modules

**FZWA-660A** Width Adjustment Actuator 660 mm

**FZWA-950A** Width Adjustment Actuator 950 mm

**FZGB-903** Angle Gear Unit - 3 direction

**FZGB-904** Angle Gear Unit - 4 direction

**Centering Device** FZCD - L x H x G

**Application:** Positioning of products at center of conveyor

**Standard Arm Length (L):** 100 mm, 150 mm, 200 mm, 250 mm

**Standard Arm Height (H):** 50 mm, 100 mm, 150 mm

**Standard Arm Gap (G):** 140 mm (FS), 160 mm (FM), 180 mm (FC), 225 mm (FL), 255 mm (FU), 374 mm (FW)

Applicable for all FlexMove chain series.

Please specify:
1) Conveyor Series
2) Product Dimension (L x W x H) during order.
Parallel Traffic Cop

**Application**: Product flow control / merging.

**Standard Arm Length (L)**: 50 mm, 150 mm, 200 mm, 250 mm, 300 mm

**Standard Arm Height (H)**: 50 mm, 100 mm, 150 mm

**Standard Arm Gap (G)**: 360 mm (FS), 420 mm (FM), 480 mm (FC), 615 mm (FL), 705 mm (FU), 1065 mm (FW)

Applicable for all FlexMove chain series.

Please specify:
1) Conveyor Series
2) Product Dimension (L x W x H) during order.

---

Angle Traffic Cop

**Application**: Product flow control / merging.

**Standard Arm Length (L)**: 100 mm, 150 mm, 200 mm, 250 mm

**Standard Arm Angle (A)**: 45°, 90°

Applicable for all FlexMove chain series.

Please specify:
1) Conveyor Series
2) Product Dimension (L x W x H) during order.

---

Adjustment Side Guide

**Application**: Manual adjustable guide rail for multiple product size

**Standard Arm Height (H)**: 100 mm, 150 mm, 200 mm, 250 mm

**Adjustable Width (W)**: 65 mm, 85 mm, 105 mm, 150 mm, 225 mm, 300 mm

Applicable for all FlexMove chain series.

Please specify:
1) Conveyor Series
2) Product Dimension (L x W x H)
**Auto Diverter**

**FZAD – L x H x A**

**Application:** Pneumatic-controlled automatic diversion of products from one track to another

**Standard Arm Length (L):** 300 mm - 700 mm

**Standard Arm Height (H):** 100 mm, 150 mm, 200 mm

**Standard Arm Angle (A):** 5° - 60°

Applicable for all FlexMove chain series.

Please specify:
1) Conveyor Series
2) Product Dimension (L x W x H)
3) Diverting Angle during order.

**Manual Diverter**

**FZMD – L x H x A**

**Application:** Manually-controlled diversion of products from one track to another.

**Standard Arm Length (L):** 300 mm – 700 mm

**Standard Arm Height (H):** 100 mm, 150 mm, 200 mm, 250 mm

**Standard Arm Angle (A):** 5° - 60°

Applicable for all FlexMove chain series.

Please specify:
1) Conveyor Series
2) Product Dimension (L x W x H) during order.
### 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)
FA SERIES: Conveyor Accessories

**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)
FA SERIES: Conveyor Accessories

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)
**FA SERIES: Conveyor Accessories**

**FAVBS-80V**

**Vertical beam support bracket**

UOM: pc

For FK 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)
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>UOM</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAVBS-60MV</td>
<td>Vertical beam support bracket with slot - Aluminum</td>
<td>pc</td>
<td>For FM conveyor with 64 mm vertical beam support</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)</td>
</tr>
<tr>
<td>FAVBS-80MV</td>
<td>Vertical beam support bracket with slot - Aluminum</td>
<td>pc</td>
<td>For FM conveyor with 80 mm vertical beam support</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)</td>
</tr>
<tr>
<td>FAVBS-60CV</td>
<td>Vertical beam support bracket with slot - Aluminum</td>
<td>pc</td>
<td>For FC conveyor with 64 mm vertical beam support</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)</td>
</tr>
<tr>
<td>FAVBS-80LV</td>
<td>Vertical beam support bracket - Aluminum</td>
<td>pc</td>
<td>For FL conveyor with 80 mm vertical beam support</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)</td>
</tr>
</tbody>
</table>
FA SERIES: Conveyor Accessories

FAVBS-80UV  Vertical beam support bracket

UOM: pc
For 80 mm vertical beam support bracket

Mounting: FATB-20(2), FALN-M8(2), FAPW-M8 (2)

FAVBS-80VV  Vertical beam support bracket

UOM: pc
For 80 mm vertical beam support bracket

Mounting: FATB-20(2), FALN-M8(2), FAPW-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 64 mm horizontal crossing support beam

FAHBS-80x135  Horizontal beam support bracket - Aluminum

UOM: pc
For 80 mm horizontal crossing support beam
# FA SERIES: Conveyor Accessories

## FADBS-WWXV

**Drive End Support Bracket**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Beam</th>
<th>Conveyor</th>
<th>Adjustable</th>
</tr>
</thead>
<tbody>
<tr>
<td>FADBS</td>
<td>WW</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>60 = 64 x 64</td>
<td>K = 45 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>S = 65 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>M = 85 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>C = 105 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>80 = 80 x 80</td>
<td>L = 150 mm</td>
<td>V = 260 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>U = 180 mm</td>
<td></td>
</tr>
</tbody>
</table>

**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-64

**Alpine beam support bracket - Aluminum**

- Part Number: FADBS
- Beam: WW
- Conveyor: X
- Adjustable: V

**UOM:** pc

For support of direct drive end to vertical beam support

Mounting: All provided

## FAAL-80

**Alpine beam support bracket - Aluminum**

- Part Number: FADBS
- Beam: WW
- Conveyor: X
- Adjustable: V

**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)
**FA SERIES: Conveyor Accessories**

- **FASR-25**
  - HDPE slide rail - White
  - "Normal Application"

- **FASR-25U**
  - UHMW-PE slide rail - White
  - "Low Friction, suitable for accumulation"

- **FASR-25X**
  - Special PE slide rail - Blue
  - "Lowest Friction, suitable for accumulation"

- **FASR-25T**
  - PAPE slide rail - Grey
  - "High abrasive and High load"

- **FASR-25A**
  - Conductive slide rail - Black
  - "Static conductive"

- **FASR-25P**
  - PVDF slide rail - White
  - "For Abrasive application"

See page 220 for detail slide rail information
FA SERIES: Conveyor Accessories

**FASR-25KU**  UHMW-PE slide rail

**FASR-25K**  HDPE slide rail

For FK Series Conveyors

UOM: 25meter / roll

**FASLS-M3**  Nylon Set screw for slide rail

For FK Series Conveyors

UOM: 50pcs / pk

**207262**  Bracket Assembly, Suspended Drive

For Heavy Load SEW equivalent Gearmotor and 64 mm or 80 mm Support Beams

UOM: kit

Mounting: Included
### FA SERIES: Conveyor Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>UOM</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACS-20x140</td>
<td>Connecting strip – Steel, electro zinc plated</td>
<td>10 pcs / pk</td>
<td>For FK Series Conveyors</td>
</tr>
<tr>
<td>FACS-25x140A</td>
<td>Connecting strip – Steel, electro zinc plated</td>
<td>10 pcs / pk</td>
<td></td>
</tr>
<tr>
<td>FASC-25</td>
<td>T-Slot Cover – Soft PVC (25 meter / Roll)</td>
<td>25 meter / roll</td>
<td></td>
</tr>
</tbody>
</table>

For more detailed information, please refer to the product specifications provided by FlexMove.
**FA SERIES: Conveyor Accessories**

**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
### FA SERIES: Conveyor Accessories

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>UOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAFW-M8</td>
<td>M8 Flat washer – Steel, zinc plated</td>
<td>50 pcs / pk</td>
</tr>
<tr>
<td>FALN-M8</td>
<td>M8 Lock Nut – Steel, zinc plated</td>
<td>50 pcs / pk</td>
</tr>
<tr>
<td>FAHB-M8 x 16</td>
<td>Hex Bolt, M8 – Steel, zinc plated</td>
<td>50 pcs / pk</td>
</tr>
<tr>
<td>FAHB-M8 x 20</td>
<td>Hex Bolt, L = 16 – Steel, zinc plated</td>
<td>50 pcs / pk</td>
</tr>
<tr>
<td>FAFR-35</td>
<td>Free roller – POM</td>
<td>10 pcs / pk</td>
</tr>
<tr>
<td>FAFR-18</td>
<td>Free roller – POM</td>
<td>10 pcs / pk</td>
</tr>
</tbody>
</table>

**Notes:**
- FAHB- M8 x 16: Hex bolt, L = 16 – Steel, zinc plated
- FAHB-M8 x 20: Hex bolt, L = 20 – Steel, zinc plated
**FA SERIES: Conveyor Accessories**

**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
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.

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.

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)

Available in North America only.

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)
FB SERIES: Conveyor Support Options

**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
FB SERIES: Conveyor Support Options

**Double Support Structure**  FK, FS, FM, FC

**Multi Lane Support Structure**  FK, FS, FM, FC, FL

**Double Support Structure**  FK, FS, FM, FC
FB SERIES: Conveyor Support Options

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
FB SERIES: Conveyor Support Components

**FBSB-40x40**  Support Beam 40x40 – Aluminum Anodized

**FBSB-64x64**  Support Beam 64x64 – Aluminum Anodized

**FBSB-64x64C**  Close slot Support Beam – Aluminum Anodized

**FBSB-80x80**  Support Beam 80x80 – Aluminum Anodized

UOM: 3 meter / length
FB SERIES: Conveyor Support Components

**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
FB SERIES: Conveyor Support Components

**FBEC-64**
End cap, 64x64mm Support Beam - Polyamide

Mounting hardware included: FAHB-M8 x16(4), FBCS – 20x76 (2), FAFW-M8 (4)

UOM: 10 pcs / pk

**FBEC-80**
End cap, 80x80 mm Support Beam - Polyamide

Mounting hardware included: FAHB-M8 x16(4), FASN – M8 (4), FAFW-M8 (4)

UOM: 10 pcs / pk

**FBFT-64**
Foot For Support Beam 64x64 – Aluminum Die Cast

Mounting hardware included: FAHB-M8 x16(4), FBCS – 20x76 (2), FAFW-M8 (4)

UOM: pc

**FBFT-64A**
Foot For Support Beam 64x64 – Steel, Powder Coating

Mounting hardware included: FAHB-M8 x16(4), FASN – M8 (4), FAFW-M8 (4), FAWP-M10(4)

UOM: pc
FB SERIES: Conveyor Support Components

**FBFT-64B**
Foot For Support Beam 64x64 – Aluminum

Mounting: FACS-M6 x 20 (4), FAWP-M10 (4)

**UOM:** pc

**FBCS-20x76**
Connecting Strip For Foot – Steel, Electro Zinc Plated

Mounting: TAP M8

**UOM:** 10pcs / pk

**FBCS-20x96**
Connecting Strip For Foot 80x80 mm – Steel, Electro Zinc Plated

Mounting: TAP M8

**UOM:** pc
### FB SERIES: Conveyor Support Components

**FBFT-64TP**  
Tripod Foot For FBSB-64x64 - Polyamide, Glass Fiber reinforced  
Plastic Pad, screws and clamps included  

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**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 |
**FB SERIES: Conveyor Support Components**

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<td>End Plate for Support Beam 64x64 - Aluminum &amp; Adjustable stand - D=M8, L=50 – Stainless Steel</td>
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**UOM: pc**
FB SERIES: Conveyor Support Components

**FBFT-170**
Floor Attachment Bracket – Steel, Zinc Plated

**FBFT-170S**
Floor Attachment Bracket – Stainless Steel

---

**FBFT-80A**
Foot For Support Beam 80x80 – Steel, Powder Coating

**FBFT-80B**
Foot For Support Beam 80x80 – Steel, Powder Coating

---

Mounting: FAHB-M8 x16(2), FASN-M8 (2), FAFW-M8 (3), FAWP-M10 (1)

Foot For Support Beam 80x80 – Steel, Powder Coating

Mounting hardware included: FAHB-M8 x16(4), FASN-M8 (4), FAFW-M8 (4), FAWP-M10 (4)
FB SERIES: Conveyor Support Components

**FBFT-80C**
Foot For Support Beam 80x80 – Steel, Powder coating

Mounting: 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

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

Mounting: FAHB-M8 x16(4), FASN-M8 (4), FAFW-M8 (4)

**FBCP-40L**
L Connecting Plate for Support Beam 40x40- Steel, Zinc Plated

Mounting: FAHB-M8 x16(4), FASN-M8 (4), FAFW-M8 (4)
**FB SERIES: Conveyor Support Components**

**FBCP-64T**  
T connecting Plate for Support Beam 64x64 – Steel, Zinc Plated  
Mounting: FAHB-M8 x16(4), FASN-M8 (4), FAFW-M8 (4)

UOM: pc

**FBCP-64L**  
L Connecting Plate for Support Beam 64x64 - Steel, Zinc Plated  
Mounting: FAHB-M8 x16(4), FASN-M8 (4), FAFW-M8 (4)

UOM: pc

**FBCP-80T**  
T connecting Plate for Support Beam 80x80 – Steel, Zinc Plated  
Mounting: FAHB-M8 x16(8), FASN-M8 (8), FAFW-M8 (8)

UOM: pc

**FBCP-80L**  
L Connecting Plate for Support Beam 80x80- Steel, Zinc Plated  
Mounting: FAHB-M8 x16(8), FASN-M8 (8), FAFW-M8 (8)

UOM: pc
FB SERIES: Conveyor Support Components

**FBCP-40V**
45° connecting Plate for Support Beam 40x40 – Steel, Zinc Plated

Mounting: FAHB-M8 x16(4), FASN-M8 (4), FAFW-M8 (4)

UOM: pc

**FBCP-64V**
45° connecting Plate for Support Beam 64x64 – Steel, Zinc Plated

Mounting: FAHB-M8 x16(4), FASN-M8 (4), FAFW-M8 (4)

UOM: pc

**FBCP-80V**
45° connecting Plate for Support Beam 80x80 – Steel, Zinc Plated

Mounting: FAHB-M8 x16(8), FASN-M8 (8), FAFW-M8 (8)

UOM: pc

**FBRX-20A**
90° Inner Joint Strip – Steel, Zinc Plated

UOM: 10 pcs / pk
### FB SERIES: Conveyor Support Components

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<th>Description</th>
<th>UOM</th>
<th>Mounting</th>
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<td>90° Outer Joint Strip – Steel, Zinc Plated</td>
<td>10 pcs / pk</td>
<td>FAHB-M8 x20 (2) , FASN-M8 (2) , FAFW-M8 (2)</td>
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<td><strong>FBRX-20C</strong></td>
<td>90° Inner Joint Strip – Steel, Zinc Plated</td>
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<tr>
<td><strong>FBAB-40x40</strong></td>
<td>Angle Bracket for Support Beam 40x40 - Aluminum</td>
<td>pc</td>
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<td><strong>FBAB-32x60</strong></td>
<td>Angle Bracket for Support Beam 64x64 - Aluminum</td>
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FBR SERIES: Conveyor Support Components
FB SERIES: Conveyor Support Components

FBAB-32x80  Angle Bracket for Support Beam 80x80 - Aluminum
Mounting: FAHB-M8 x 20 (4), FASN-M8 (4), FAFW-M8 (4)

FBAB-40L  Angle Bracket for Support Beam 40x40 - Aluminum
Mounting: FAHB-M8 x 16 (4), FASN-M8 (4), FAFW-M8 (4)

FBAB-60L  Angle Bracket for Support Beam 64x64 - Aluminum
Mounting: FAHB-M8 x 16 (4), FASN-M8 (4), FAFW-M8 (4)

FBAB-80L  Angle Bracket for Support Beam 80x80 - Aluminum
Mounting: FAHB-M8 x 16 (6), FASN-M8 (6), FAFW-M8 (6)
FB SERIES: Conveyor Support Components

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)
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<tr>
<th><strong>FB SERIES: Conveyor Support Components</strong></th>
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**FG SERIES: Conveyor Guide Options**

### FGRB-16x54
**Fixed Guide Rail Assembly**

![FGRB-16x54 Assembly](image)

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<th>Guide Rail Bracket</th>
<th>Series</th>
<th>D (mm)</th>
<th>H (mm)</th>
<th>W (mm) B = 0</th>
<th>W (mm) B = 6.3</th>
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**B Spacer = FGRD-6**

See page 191 for components

### FGRB-16x42
**Fixed Guide Rail Assembly**

![FGRB-16x42 Assembly](image)

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**B Spacer = FGRD-6**

See page 191 for components
### FG SERIES: Conveyor Guide Options

#### FGRB-28x42
**Fixed Guide Rail Assembly**

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<th>Series</th>
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#### FGRB-40x42
**Fixed Guide Rail Assembly**

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**FG SERIES: Conveyor Guide Options**

### FGRB-49x42 Fixed Guide Rail Assembly

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See page 192 for components

### FGRB-53x42 Fixed Guide Rail Assembly

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See page 192 for components
**FG SERIES: Conveyor Guide Options**

### FGRB-90x42
**Fixed Guide Rail Assembly**

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**B Spacer = FGRD-6**

See page 192 for components

### FGHS-30/FGHS-70
**Fixed High Side Guide Assembly**

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See page 206 for components

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**Note:** The images and diagrams illustrate the guide rail assemblies and high side guide assemblies, with dimensions and series specifications provided in the tables. The tables include measurements for both guide rail brackets and high side guide brackets, with B spacer references and additional notes for components.
### FG SERIES: Conveyor Guide Options

**FGRA-22HD**

**Heavy Duty Fully Adjustable Guide Assembly**

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<th>W (mm) Min</th>
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See page 196 for components

**FGRA-22HDT**

**Heavy Duty Tool-less Fully Adjustable Guide Assembly**

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See page 196 for components
FG SERIES: Conveyor Guide Options

FGPG-A/FGPG-U Pallet/Puck Guide Assembly

Bracket Series D (mm) H (mm) W (mm)

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Note:
- Available in North America Only
- Pallets available for FC Series Only
- H can be lowered by 9.5 mm for pallet transfer

See page 207 for components
### FG SERIES: Conveyor Guide Options

**FGRA-8x39x45**  
Adjustable Guide Rail Assembly

**FGRA-8x39x45 Assembly**

---

![Diagram](image1)

**B Spacer = FGRD-6**

See page 190 for components

### Guide Rail Bracket Specifications

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### FGRA-26x39x45  
Adjustable Guide Rail Assembly

**FGRA-26x39x45 Assembly**

---

![Diagram](image2)

**B Spacer = FGRD-6**

See page 190 for components

### Guide Rail Bracket Specifications

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### FG SERIES: Conveyor Guide Options

#### Guide Rail Assembly

See pages 189, 198 and 204 for components

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### FG SERIES: Conveyor Guide Options

**Guide Rail Assembly**

See pages 189, 198 and 199 for components

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*Note: Plastic guide supports used for light products.*
## FG SERIES: Conveyor Guide Options

**Guide Rail Assembly**

See pages 189, 198 and 200 for components

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**Note:**
Plastic guide supports used for light products.
### FG SERIES: Conveyor Guide Options

#### FGRL-18x110C & FGRF-42x18V

**Guide Rail Assembly**

![Diagram of FGRL-18x110C & FGRF-42x18V](image)

- **B Spacer = FGRD-18A**

Note:
Plastic guide supports used for light products.

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See pages 199 and 201 for components.

### FGRL-18x160C & FGRF-42x18V

**Guide Rail Assembly**

![Diagram of FGRL-18x160C & FGRF-42x18V](image)

- **B Spacer = FGRD-18A**

Note:
Plastic guide supports used for light products.

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See pages 199 and 201 for components.
### FG SERIES: Conveyor Guide Options

#### FGRF-42x62-A110 & FGRK-18x80A

**Guide Rail Assembly**

**B Spacer = FGRD-18A**

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See pages 200, 201 and 202 for components

#### FGRF-42x62-A35 & FGRK-18x80A

**Guide Rail Assembly**

**B Spacer = FGRD-18A**

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See pages 200, 201 and 202 for components
**FG SERIES: Conveyor Guide Options**

**FGRF-42x18V & FGRK-18x80A & FGRL18x110CA**

**FGRF-42x18V & FGRK-18x80A & FGRL18x160CA**

**B Spacer = FGRD-18A**

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**Note:** Plastic guide supports used for light products.

See pages 200 and 201 for components.

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## FG SERIES: Conveyor Guide Options

### Guide Rail Assembly

**B Spacer = FGRD-18A**

See pages 189, 198 and 201 for components

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### Guide Rail Assembly

**B Spacer = FGRD-18A**

See pages 189, 198 and 201 for components

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### FG SERIES: Conveyor Guide Options

**FGRB-40x18 & FGRK-18x80 Guide Rail Assembly**

**B Spacer = FGRD-6B**

See pages 200 and 203 for components

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<thead>
<tr>
<th>Guide Rail</th>
<th>Guide Rail</th>
<th>Series</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>D (mm)</th>
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</table>
**Bottling Guide Rail Assembly**

- Bottles Handling

**Double Track Guide Rail Assembly**

- Cans Handling

**Duo-Layer Guide Rail Assembly**

- Box Handling
FG SERIES: Conveyor Guide Options

**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

![Diagram of FlexMove Width & Height Adjustable Guide Rail Assembly for Box Handling]

Width & Height Adjustable Guide Rail Assembly

- Cans Handling

![Diagram of FlexMove Width & Height Adjustable Guide Rail Assembly for Cans Handling]

Width & Height Adjustable Guide Rail Assembly

- Pucks Handling

![Diagram of FlexMove Width & Height Adjustable Guide Rail Assembly for Pucks Handling]

Pallet Assembly Line Guide Rail

- Electronic Assembly Handling

![Diagram of FlexMove Pallet Assembly Line Guide Rail for Electronic Assembly Handling]
### FG SERIES: Conveyor Guide Options

<table>
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<tr>
<th>Guide Rail Assembly</th>
<th>Handling</th>
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<td>Cassette Guide Rail Assembly</td>
<td>Disc Drive Cassette Handling</td>
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<tr>
<td>Width Adjustable Guide Rail Assembly</td>
<td>Box Handling</td>
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<td>Width &amp; Height Adjustable Guide Rail Assembly</td>
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<tr>
<td>Width &amp; Height Guide Rail Assembly</td>
<td>Paper Converting Handling</td>
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</table>
FG SERIES: Conveyor Guide Options

Small Box Guide Rail Assembly

FGRR-FGVG-3 Special V Guide - Aluminum

UOM: 3 meter / length

Twin Track Pallet Guide Rail Assembly

Pallet Handling

FGRR-FGVG-3 Special V Guide - Aluminum

UOM: 3 meter / length
### FG SERIES: Conveyor Guide Components

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<th>Part Number</th>
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<th>Material</th>
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<td>Distance Tube, L = 80 mm - Aluminum</td>
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<td>Distance Tube, L = 150 mm - Aluminum</td>
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<td>Distance Tube, L = 200 mm - Aluminum</td>
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<td>FGDT-250</td>
<td>Distance Tube, L = 250 mm - Aluminum</td>
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UOM: 10 pcs / pk

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<td>FGGR-18X250</td>
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<td>18mm Tube, L = 300 mm - Aluminum</td>
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UOM: 10 pcs / pk

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<td>FGEC-20</td>
<td>End cap, Distance Tube - Polyamide</td>
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UOM: 10 pcs / pk

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<tr>
<td>FGRA-26x39x45A</td>
<td>Bracket for sensor - Aluminum</td>
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UOM: 50pcs / pk
FG SERIES: Conveyor Guide Components

FGRA-8x39x45  Adjustable Guide Rail Bracket - Aluminum

Including spring pin, M6 screw & Nut

Mounting to beam: FATB-20 (1), FALN-M8 (1), FAFW-M8 (1)

UOM: 10 pcs / pk

FGRA-8x9x45  Adjustable Guide Rail Bracket - Aluminum

Including spring pin, M8 screw & nut

Mounting to beam: FATB-20 (1), FALN-M8 (1), FAFW-M8 (1)

UOM: 10 pcs / pk

FGRA-26x39x45  Adjustable Guide Rail Bracket - Aluminum

Including spring pin, M8 screw & nut

Mounting to beam: FATB-20 (1), FALN-M8 (1), FAFW-M8 (1)

UOM: 10 pcs / pk

FGRA-26x9x45  Adjustable Guide Rail Bracket - Aluminum

Including spring pin, M8 screw & nut

Mounting to beam: FATB-20 (1), FALN-M8 (1), FAFW-M8 (1)

UOM: 10 pcs / pk
FG SERIES: Conveyor Guide Components

**FGRB-16x54**  
Fixed Guide Rail Bracket - Aluminum  
- Including spring pin.  
- UOM: 10 pcs / pk  
- Mounting to beam: FATB-20 (1), FALN-M8 (1), FAFW-M8 (1)

**FGRB-16x42**  
Fixed Guide Rail Bracket - Aluminum  
- Including spring pin.  
- UOM: 10 pcs / pk  
- Mounting to beam: FATB-20 (1), FALN-M8 (1), FAFW-M8 (1)

**FGRB-28x42**  
Fixed Guide Rail Bracket - Aluminum  
- Including spring pin.  
- UOM: 10 pcs / pk  
- Mounting to beam: FATB-20 (1), FALN-M8 (1), FAFW-M8 (1)

**FGRB-40x42**  
Fixed Guide Rail Bracket - Aluminum  
- Including spring pin.  
- UOM: 10 pcs / pk  
- Mounting to beam: FATB-20 (1), FALN-M8 (1), FAFW-M8 (1)
FG SERIES: Conveyor Guide Components

**FGRB-49x42**  
Fixed Guide Rail Bracket - Aluminum  
Including spring pin.  
Mounting to beam: FATB-20 (1), FALN-M8 (1), FAFW-M8 (1)

**FGRB-53x42**  
Fixed Guide Rail Bracket - Aluminum  
Including spring pin.  
Mounting to beam: FATB-20 (1), FALN-M8 (1), FAFW-M8 (1)

**FGRB-90x42**  
Fixed Guide Rail Bracket - Aluminum  
Including spring pin.  
Mounting to beam: FATB-20 (1), FALN-M8 (1), FAFW-M8 (1)

**FGRD-6**  
Guide Rail Bracket Spacer - Aluminum  

UOM: 10 pcs / pk
FG SERIES: Conveyor Guide Components

FGRD-6B  
Spacer for FGRB-40x ## - Polyamide (## = Diameter in mm)

Mounting: FAHB-M8 x 12 (1), FASN-M8 (1), FAFW-M8 (1)

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

For use with guide rail bracket support:
FGRB – 40 x 18 / 20
FGRB – 40 x 15 x 20

Includes spring pin.

FG SERIES: Conveyor Guide Components
FG SERIES: Conveyor Guide Components

**FGCS-13x50** Connecting Strip for FGRR-12x20 - Steel, electro zinc plated

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
FG SERIES: Conveyor Guide Components

FGRR-15X20P  Guide Rail Rectangular, 15mm x 20 mm – HDPE

FGRT-3x23  Guide Rail Cover - HDPE

FGRT-3x23A  Guide Rail Cover – HDPE (Conductive)

FGRT-3x33  Guide Rail Cover - HDPE

FGRT-3x50  Guide Rail Cover - HDPE

UOM: 3 meter / length
FG SERIES: Conveyor Guide Components

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
FG SERIES: Conveyor Guide Components

FGEC-15x20  End Cap for FGRR-15x20 - Polyamide

FGRC-100  Rail Connecting – Aluminum  L = 100 mm , B = 50 mm
FGRC-60  Rail Connecting – Aluminum  L = 60 mm , B = 30 mm

FGEC-10x20  End Cap for FGRR-10x20 & FGRR10x20F - Polyamide

FGRJ-15x20  Connecting Plug for FGRR-15x20 - Polyamide

UOM: 10pcs / pk
FG SERIES: Conveyor Guide Components

**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
FG SERIES: Conveyor Guide Components

FGRL-18x110C  Guide Rail Support, L = 110 mm - Polyamide

FGRL-18x160C  Guide Rail Support, L = 160 mm - Polyamide

UOM: 10pcs / pk

To be used directly with guide rail bracket support FGRF-42 x 18V or FGRB-18 x 20

Note:
Plastic guide supports used for light products.

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 FGRB-18 x 18 and a crossing 18 mm aluminum tube above the double track.
**FG SERIES: Conveyor Guide Components**

**UOM: 10pcs / pk**

**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

**Suitable for use with cross connector FGRB-18x18 and FGRF-42x18V**

**FGRL-18x110CA**
Guide Rail Support, L = 110 mm - Polyamide

**FGRL-18x160CA**
Guide Rail Support, L = 160 mm - Polyamide

**UOM: 10pcs / pk**

**Suitable for use with cross connector FGRK – 18 x 80 / 130 / 40A / 60A / 80A / 130A**

---

**Note:**
Plastic guide supports used for light products.
FG SERIES: Conveyor Guide Components

FGRF-42x18V
Guide Rail Bracket – Polyamide

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

FGRF-42x18V Guide Rail Bracket – Polyamide

FG SERIES: Conveyor Guide Components

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
**FG SERIES: Conveyor Guide Components**

**FGRF-A35**  
Guide Rail Bracket A35 – Polyamide  

To be used with guide rail support. For 1-2 guide rail levels.

**FGRF-A110**  
Guide Rail Bracket A110 – Polyamide  

To be used with guide rail support. For 1-4 guide rail levels.

**FGRF-DP**  
FGRF Dummy Plug  

UOM: 10pcs / pk

UOM: 10pcs / pk
FG SERIES: Conveyor Guide Components

FGRB-40x18  
Guide Rail Bracket, $D = 18$ mm - Polyamide

FGRB-40x20  
Guide Rail Bracket, $D = 20$ mm - Polyamide

FGRB-40x15x20  
Guide Rail Bracket - Polyamide

UOM: 10pcs / pk
FG SERIES: Conveyor Guide Components

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, ØA = 18 mm, ØB = 18 mm - Polyamide

FGRB-18x20  
Guide Rail Bracket, ØA = 20 mm, ØB = 20 mm - Polyamide

UOM: 10pcs / pk

FGRB-18x20T  
Guide Rail Bracket, ØA = 18mm - Polyamide

FGRB-20x20T  
Guide Rail Bracket, ØA = 20 mm - Polyamide

UOM: 10pcs / pk
FG SERIES: Conveyor Guide Components

**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 = 20mm, ØB = 20mm - Polyamide

UOM: 10pcs / pk

For use with:
- FGGR – 18 x 100 / 150 / 200 / 250 / 300
- FGDT – 70 / 80 / 100 / 150 / 200 / 250

**FGRX-15x20**
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
- GRR – 15 x 20 / 20 P

**FGSP-DT**
Distance Tube Spacer - POM

UOM: 10pcs / pk
FG SERIES: Conveyor Guide Components

FGRD-6B  Spacer for FGRB-40x ## - Polyamide

For use with guide rail bracket support:
FGRB – 40 x 18 / 20
FGRB – 40 x 15 x 20

UOM: 10pcs / pk

FGRD-HS  High Side Guide Clip Assembly

Mounting to Beam:
FATB-20(1)
FALN-M8(1)
FAFN-M8(1)

UOM: 10pcs / pk

FGHS-70  Guide Rail, 70 mm High Side - Aluminum

Available in North America only.

FGHS-30  Guide Rail, 30 mm High Side - Aluminum

Available in North America only.

UOM: 3 meter/length

Available in North America only.
### FG SERIES: Conveyor Guide Components

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>UOM</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FGRB-PG</td>
<td>Pallet Guide Mounting Clip Assembly</td>
<td></td>
<td>Available in North America only.</td>
</tr>
<tr>
<td>FGPG-A</td>
<td>Pallet Guide Backing Rail - Aluminum</td>
<td>3 meter/length</td>
<td>Available in North America only.</td>
</tr>
<tr>
<td>FGPG-U</td>
<td>Pallet Guide UHMW Guide</td>
<td>3 meter/length</td>
<td>Available in North America only.</td>
</tr>
</tbody>
</table>

Mounting to Beam:
- FATB-20(1)
- FALN-M8(1)
- FAFN-M8(1)

Available in North America only.
### Direct Drive, Standard Load, Fixed Speed - 3/4 inch Shaft

#### Chart 6

**90° eDrive** NEMA C-Face

- Sealed gearmotors
- NEMA 56 C face
- Totally enclosed, fan cooled
- 115V 1 phase includes switch, cord and overload protection
- 208-230/460V 3 phase wiring by others
- 60 Hz
- Order 3 phase starter separately, see page 213

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Belt Speed</th>
<th>RPM</th>
<th>1 Phase</th>
<th>3 Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fm/min</td>
<td>M/min</td>
<td>Fm/min</td>
<td>M/min</td>
</tr>
<tr>
<td>32M060ES4(vp)FN</td>
<td>39 12</td>
<td>39 12</td>
<td>41 12</td>
<td>29</td>
</tr>
<tr>
<td>32M040ES4(vp)FN</td>
<td>57 17</td>
<td>57 17</td>
<td>60 18</td>
<td>43</td>
</tr>
<tr>
<td>32M020ES4(vp)FN</td>
<td>115 35</td>
<td>115 35</td>
<td>120 37</td>
<td>86 0.5</td>
</tr>
</tbody>
</table>

* = 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

- Variable frequency drive, 6 - 60 Hz
- Sealed gearmotor
- NEMA 56 C Face
- Totally enclosed, fan cooled
- 230/460 Volts, 3 Phase
- Order controller separately, see page 213

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Belt Speed</th>
<th>RPM*</th>
<th>3 Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fm/min M/min</td>
<td>Fm/min M/min</td>
<td>Fm/min M/min</td>
</tr>
<tr>
<td></td>
<td>Hp kW FLA</td>
<td>Hp kW FLA</td>
<td></td>
</tr>
<tr>
<td>32M060ES423EN</td>
<td>9–39 2.9–121.6</td>
<td>9.6–38 2.9–12</td>
<td>9.5–12</td>
</tr>
<tr>
<td>32M040ES423EN</td>
<td>14–57 4.4–17</td>
<td>14–57 4.4–17</td>
<td>15–60 4.6–18</td>
</tr>
<tr>
<td>32M020ES423EN</td>
<td>92–115 8.7–35</td>
<td>28–113 8.6–35</td>
<td>30–120 9.2–37</td>
</tr>
<tr>
<td>32M010ES423EN</td>
<td>58–231 18–70</td>
<td>57–228 17–70</td>
<td>60–242 18–74</td>
</tr>
</tbody>
</table>

* = 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.
GEARMOTORS

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

<table>
<thead>
<tr>
<th>Chain Speed</th>
<th>FK, FS, FM, FU, FV</th>
<th>FC, FL</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPM</td>
<td>Hp</td>
<td>kW</td>
</tr>
<tr>
<td>FMM129(X)DS423EN</td>
<td>17.1</td>
<td>5.2</td>
</tr>
<tr>
<td>FMM1067(X)DS423EN</td>
<td>32.8</td>
<td>10</td>
</tr>
<tr>
<td>FMM0320(X)DS423EN</td>
<td>69.9</td>
<td>21</td>
</tr>
<tr>
<td>FMM0150(X)DS423EN</td>
<td>150.3</td>
<td>45.8</td>
</tr>
<tr>
<td>FMM0130(X)DS423EN</td>
<td>171.3</td>
<td>52.2</td>
</tr>
<tr>
<td>FMM0100(X)DS423EN</td>
<td>225.4</td>
<td>68.7</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Chain Speed</th>
<th>FK, FS, FM, FU, FV</th>
<th>FC, FL</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPM</td>
<td>Hp</td>
<td>kW</td>
</tr>
<tr>
<td>FMZ099(X)DS423EN</td>
<td>17.1</td>
<td>5.2</td>
</tr>
<tr>
<td>FMZ0600(X)DS423EN</td>
<td>30.2</td>
<td>9.2</td>
</tr>
<tr>
<td>FMZ0290(X)DS423EN</td>
<td>63.3</td>
<td>19.3</td>
</tr>
<tr>
<td>FMZ0130(X)DS423EN</td>
<td>137.1</td>
<td>41.8</td>
</tr>
<tr>
<td>FMZ0090(X)DS423EN</td>
<td>205.7</td>
<td>62.7</td>
</tr>
<tr>
<td>FMZ0070(X)DS423EN</td>
<td>284.8</td>
<td>86.8</td>
</tr>
</tbody>
</table>

*Where (X) is L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive*

**Regulatory Approvals**

(SEW gearmotors are products of SEW Eurodrive)

---

**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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Chain Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FK, FS, FM, FL, FV</td>
</tr>
<tr>
<td>FMM129(X)DS423EN</td>
<td>2.9 - 17.1</td>
</tr>
<tr>
<td>FMM067(X)DS423EN</td>
<td>5.5 - 32.8</td>
</tr>
<tr>
<td>FMM032(X)DS423EN</td>
<td>11.7 - 69.9</td>
</tr>
<tr>
<td>FMM015(X)DS423EN</td>
<td>25.1 - 150.3</td>
</tr>
<tr>
<td>FMM013(X)DS423EN</td>
<td>28.6 - 171.3</td>
</tr>
<tr>
<td>FMM010(X)DS423EN</td>
<td>37.6 - 225.4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Chain Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FK, FS, FM, FL, FV</td>
</tr>
<tr>
<td>FMZ099(X)DS423EN</td>
<td>3.4 - 17.1</td>
</tr>
<tr>
<td>FMZ060(X)DS423EN</td>
<td>6 - 30.2</td>
</tr>
<tr>
<td>FMZ029(X)DS423EN</td>
<td>12.7 - 63.3</td>
</tr>
<tr>
<td>FMZ013(X)DS423EN</td>
<td>27.4 - 137.1</td>
</tr>
<tr>
<td>FMZ009(X)DS423EN</td>
<td>41.1 - 205.7</td>
</tr>
<tr>
<td>FMZ007(X)DS423EN</td>
<td>57 - 284.8</td>
</tr>
</tbody>
</table>

Where (X) is L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive

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.

SEW gearmotors are products of SEW Eurodrive

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

### Chain Speed

<table>
<thead>
<tr>
<th>Part Number</th>
<th>FK, FS, FM, FU, FV</th>
<th>FC, FL</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMM129(X)SS423EN</td>
<td>17.1</td>
<td>13</td>
</tr>
<tr>
<td>FMM067(X)SS423EN</td>
<td>32.8</td>
<td>25</td>
</tr>
<tr>
<td>FMM032(X)SS423EN</td>
<td>69.9</td>
<td>53</td>
</tr>
<tr>
<td>FMM019(X)SS423EN</td>
<td>150.3</td>
<td>114</td>
</tr>
<tr>
<td>FMM013(X)SS423EN</td>
<td>171.3</td>
<td>130</td>
</tr>
<tr>
<td>FMM010(X)SS423EN</td>
<td>225.4</td>
<td>171</td>
</tr>
</tbody>
</table>

Where (X) is L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive

### Regulatory Approvals

- CE
- UL

**SEW gearmotors are products of SEW Eurodrive**

---

**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

#### Chain Speed

<table>
<thead>
<tr>
<th>Part Number</th>
<th>FK, FS, FM, FL, FV</th>
<th>FC, FL</th>
<th>RPM</th>
<th>Hp</th>
<th>kW</th>
<th>Amps</th>
<th>in.-lbs.</th>
<th>Nm</th>
<th>Starter Chart</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM129(X)SS423EN</td>
<td>2.9 - 17.1</td>
<td>0.9 - 5.2</td>
<td>3 - 18</td>
<td>0.9 - 5.5</td>
<td>13</td>
<td>0.25</td>
<td>0.18</td>
<td>1.1/0.56</td>
<td>837</td>
</tr>
<tr>
<td>FM067(X)SS423EN</td>
<td>5.5 - 32.8</td>
<td>1.7 - 10</td>
<td>5.8 - 34.8</td>
<td>1.8 - 10.6</td>
<td>25</td>
<td>0.5</td>
<td>0.37</td>
<td>1.9/0.95</td>
<td>699</td>
</tr>
<tr>
<td>FM032(X)SS423EN</td>
<td>11.7 - 69.9</td>
<td>3.6 - 21.3</td>
<td>12.3 - 73.8</td>
<td>3.8 - 22.5</td>
<td>53</td>
<td>0.75</td>
<td>0.55</td>
<td>2.7/1.35</td>
<td>653</td>
</tr>
<tr>
<td>FM015(X)SS423EN</td>
<td>25.1 - 150.3</td>
<td>7.6 - 45.8</td>
<td>26.4 - 158.5</td>
<td>8.1 - 48.3</td>
<td>114</td>
<td>0.75</td>
<td>0.55</td>
<td>2.7/1.35</td>
<td>341</td>
</tr>
<tr>
<td>FM013(X)SS423EN</td>
<td>28.6 - 171.3</td>
<td>8.7 - 52.2</td>
<td>30.1 - 180.8</td>
<td>9.2 - 55.1</td>
<td>130</td>
<td>1</td>
<td>0.75</td>
<td>3.1/1.57</td>
<td>425</td>
</tr>
<tr>
<td>FM010(X)SS423EN</td>
<td>37.6 - 225.4</td>
<td>11.5 - 68.7</td>
<td>39.7 - 237.9</td>
<td>12.1 - 72.5</td>
<td>171</td>
<td>1.5</td>
<td>1.1</td>
<td>4.2/2.1</td>
<td>490</td>
</tr>
</tbody>
</table>

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

#### Chain Speed

<table>
<thead>
<tr>
<th>Part Number</th>
<th>FK, FS, FM, FL, FV</th>
<th>FC, FL</th>
<th>RPM</th>
<th>Hp</th>
<th>kW</th>
<th>Amps</th>
<th>in.-lbs.</th>
<th>Nm</th>
<th>Starter Chart</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMZ099(X)SS423EN</td>
<td>3.4 - 17.1</td>
<td>1 - 5.2</td>
<td>3.6 - 18</td>
<td>1.1 - 5.5</td>
<td>13</td>
<td>0.33</td>
<td>0.25</td>
<td>1.3/0.76</td>
<td>628</td>
</tr>
<tr>
<td>FMZ060(X)SS423EN</td>
<td>6 - 30.2</td>
<td>1.8 - 9.2</td>
<td>6.4 - 31.8</td>
<td>1.9 - 9.7</td>
<td>23</td>
<td>0.5</td>
<td>0.37</td>
<td>1.9/1.09</td>
<td>717</td>
</tr>
<tr>
<td>FMZ029(X)SS423EN</td>
<td>12.7 - 63.3</td>
<td>3.9 - 19.3</td>
<td>13.3 - 66.6</td>
<td>4.1 - 20.3</td>
<td>48</td>
<td>0.75</td>
<td>0.55</td>
<td>2.6/1.52</td>
<td>478</td>
</tr>
<tr>
<td>FMZ013(X)SS423EN</td>
<td>27.4 - 137.1</td>
<td>8.4 - 41.8</td>
<td>28.9 - 144.7</td>
<td>8.8 - 44.1</td>
<td>104</td>
<td>1</td>
<td>0.75</td>
<td>3.1/1.79</td>
<td>363</td>
</tr>
<tr>
<td>FMZ009(X)SS423EN</td>
<td>40.9 - 205.7</td>
<td>12.5 - 62.7</td>
<td>43.4 - 213.9</td>
<td>13.2 - 66.1</td>
<td>156</td>
<td>1.5</td>
<td>1.1</td>
<td>4.1/2.38</td>
<td>336</td>
</tr>
<tr>
<td>FMZ007(X)SS423EN</td>
<td>57 - 284.8</td>
<td>17.4 - 86.8</td>
<td>60.1 - 300.5</td>
<td>18.3 - 91.60</td>
<td>216</td>
<td>2</td>
<td>1.5</td>
<td>5.6/3.23</td>
<td>372</td>
</tr>
</tbody>
</table>

Where (X) is L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive

---

**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)

---

**SEW gearmotors are products of SEW Eurodrive**
Variable Speed Controllers

Chart B  VFD Controller, Full CE Compliance, 50 Hz

- VFD control
- IP 65 enclosure
- EMC filter
- Variable speed
- Mounting hardware
- Line cord and motor cord
- Motor cord only on 460V

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Input Volts</th>
<th>Input Phase</th>
<th>Input Hz</th>
<th>Output Volts</th>
<th>Output Phase</th>
<th>Max Kw*</th>
<th>Max Amps</th>
<th>Reversing</th>
</tr>
</thead>
<tbody>
<tr>
<td>62UV2121</td>
<td>230</td>
<td>1</td>
<td>50</td>
<td>230</td>
<td>3</td>
<td>0.75</td>
<td>4.2</td>
<td>Yes</td>
</tr>
<tr>
<td>62UV4341</td>
<td>400</td>
<td>3</td>
<td>50</td>
<td>400</td>
<td>3</td>
<td>0.75</td>
<td>2.1</td>
<td>Yes</td>
</tr>
<tr>
<td>62UV2127</td>
<td>230</td>
<td>1</td>
<td>50</td>
<td>230</td>
<td>3</td>
<td>1.50</td>
<td>6.8</td>
<td>Yes</td>
</tr>
<tr>
<td>62UV4347</td>
<td>400</td>
<td>3</td>
<td>50</td>
<td>400</td>
<td>3</td>
<td>1.50</td>
<td>3.4</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Chart D  VFD Controller, 60 Hz

- Full feature VFD control
- NEMA 4 enclosure
- Digital display
- Keypad with Start/Stop, Forward/Reverse and speed variations
- Includes cord to motor
- Power to controller by others
- 62MV1122 includes line cord to controller
- Mounting hardware

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Input Volts</th>
<th>Input Phase</th>
<th>Input Hz</th>
<th>Output Volts</th>
<th>Output Phase</th>
<th>Max Hp*</th>
<th>Output Amps*</th>
<th>Reversing</th>
</tr>
</thead>
<tbody>
<tr>
<td>32MV1122</td>
<td>115</td>
<td>1</td>
<td>60</td>
<td>230</td>
<td>3</td>
<td>0.5</td>
<td>2.2</td>
<td>Yes</td>
</tr>
<tr>
<td>32MV2122</td>
<td>230</td>
<td>1</td>
<td>60</td>
<td>230</td>
<td>3</td>
<td>0.5</td>
<td>2.2</td>
<td>Yes</td>
</tr>
<tr>
<td>32MV1121</td>
<td>115</td>
<td>1</td>
<td>60</td>
<td>230</td>
<td>3</td>
<td>1.0</td>
<td>4.0</td>
<td>Yes</td>
</tr>
<tr>
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<td>1</td>
<td>60</td>
<td>230</td>
<td>3</td>
<td>1.0</td>
<td>4.0</td>
<td>Yes</td>
</tr>
<tr>
<td>32MV2127</td>
<td>230</td>
<td>1</td>
<td>60</td>
<td>230</td>
<td>3</td>
<td>2.0</td>
<td>6.8</td>
<td>Yes</td>
</tr>
<tr>
<td>32MV2322</td>
<td>230</td>
<td>3</td>
<td>60</td>
<td>230</td>
<td>3</td>
<td>0.5</td>
<td>2.2</td>
<td>Yes</td>
</tr>
<tr>
<td>32MV2327</td>
<td>230</td>
<td>3</td>
<td>60</td>
<td>230</td>
<td>3</td>
<td>2.0</td>
<td>6.8</td>
<td>Yes</td>
</tr>
<tr>
<td>32MV4341</td>
<td>460</td>
<td>3</td>
<td>60</td>
<td>460</td>
<td>3</td>
<td>1.0</td>
<td>2.0</td>
<td>Yes</td>
</tr>
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<td>460</td>
<td>3</td>
<td>60</td>
<td>460</td>
<td>3</td>
<td>2.0</td>
<td>3.4</td>
<td>Yes</td>
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</tbody>
</table>

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.

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)

SEW gearmotors are products of SEW Eurodrive
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

**Chart I** 230/400V 50Hz to 2.5 amp

- 230 Volts, 1 phase includes cord, plug and starter
- 230/400 Volts, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 50 Hz

<table>
<thead>
<tr>
<th>Part Number</th>
<th>In Volts</th>
<th>In Phase</th>
<th>Amp Range</th>
<th>Illustration</th>
</tr>
</thead>
<tbody>
<tr>
<td>62(c)M21T</td>
<td>230</td>
<td>1</td>
<td>1.6 - 2.5</td>
<td>A</td>
</tr>
<tr>
<td>62(c)M23T</td>
<td>230</td>
<td>3</td>
<td>1.0 - 1.6</td>
<td>B</td>
</tr>
<tr>
<td>62(c)M43T</td>
<td>400</td>
<td>3</td>
<td>0.63 - 1.0</td>
<td>B</td>
</tr>
</tbody>
</table>

**Chart J** 230/400V 50 Hz to 4 amp

- 230 Volts, 1 phase includes cord, plug and starter
- 230/400V, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 50 Hz

<table>
<thead>
<tr>
<th>Part Number</th>
<th>In Volts</th>
<th>In Phase</th>
<th>Amp Range</th>
<th>Illustration</th>
</tr>
</thead>
<tbody>
<tr>
<td>62(c)M21J</td>
<td>230</td>
<td>1</td>
<td>2.5 - 4.0</td>
<td>A</td>
</tr>
<tr>
<td>62(c)M23J</td>
<td>230</td>
<td>3</td>
<td>1.6 - 2.5</td>
<td>B</td>
</tr>
<tr>
<td>62(c)M43J</td>
<td>400</td>
<td>3</td>
<td>1.0 - 1.6</td>
<td>B</td>
</tr>
</tbody>
</table>

**Chart L** 230/460V 60 Hz to 1.6 amp

- 230/460 Volts, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 60 Hz

<table>
<thead>
<tr>
<th>Part Number</th>
<th>In Volts</th>
<th>In Phase</th>
<th>Amp Range</th>
<th>Illustration</th>
</tr>
</thead>
<tbody>
<tr>
<td>62MM23L</td>
<td>230</td>
<td>3</td>
<td>1.0 - 1.6</td>
<td>B</td>
</tr>
<tr>
<td>62MM43L</td>
<td>460</td>
<td>3</td>
<td>0.4 - .63</td>
<td>B</td>
</tr>
</tbody>
</table>

**Chart M** 230/460V 60Hz to 2.5 amp

- 230/460 Volts, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 60 Hz

<table>
<thead>
<tr>
<th>Part Number</th>
<th>In Volts</th>
<th>In Phase</th>
<th>Amp Range</th>
<th>Illustration</th>
</tr>
</thead>
<tbody>
<tr>
<td>62MM23M</td>
<td>208-230</td>
<td>3</td>
<td>1.6 - 2.5</td>
<td>B</td>
</tr>
<tr>
<td>62MM43M</td>
<td>460</td>
<td>3</td>
<td>1.0 - 1.6</td>
<td>B</td>
</tr>
</tbody>
</table>

**Chart P** 230/460V 60Hz to 4 amp

- 230/460 Volts, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 60 Hz

<table>
<thead>
<tr>
<th>Part Number</th>
<th>In Volts</th>
<th>In Phase</th>
<th>Amp Range</th>
<th>Illustration</th>
</tr>
</thead>
<tbody>
<tr>
<td>62MM23U</td>
<td>208-230</td>
<td>3</td>
<td>2.5 - 4.0</td>
<td>B</td>
</tr>
<tr>
<td>62MM43P</td>
<td>460</td>
<td>3</td>
<td>1.6 - 2.5</td>
<td>B</td>
</tr>
</tbody>
</table>

**Chart Q** 230/460V 60Hz to 6.3 amp

- 230/460 Volts, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 60 Hz

<table>
<thead>
<tr>
<th>Part Number</th>
<th>In Volts</th>
<th>In Phase</th>
<th>Amp Range</th>
<th>Illustration</th>
</tr>
</thead>
<tbody>
<tr>
<td>62MM23Q</td>
<td>208-230</td>
<td>3</td>
<td>4.0 - 6.3</td>
<td>B</td>
</tr>
<tr>
<td>62MM43Q</td>
<td>460</td>
<td>3</td>
<td>2.5 - 4.0</td>
<td>B</td>
</tr>
</tbody>
</table>

**Regulatory Approvals**

- CE = European Conformity
- G = CE German
- F = CE French
- U = CE Great Britain

**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

(c) = Electrical Configuration

Note: Dimensions = mm (in)
Pallet Systems

Pallets
- Pallet Sizes: 105 mm Conveyor

<table>
<thead>
<tr>
<th>Length</th>
<th>180 mm wide</th>
<th>100</th>
<th>150</th>
<th>200</th>
</tr>
</thead>
</table>

- 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 151 for pallet sensor brackets
- Available in North America only.

Note: Dimensions = mm (in)

Note: Contact factory for detailed drawing of top plate
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 151 for pallet sensor brackets
- Available in North America only.

Speed vs. Load Characteristics

<table>
<thead>
<tr>
<th>Belt Speed M/min (ft./min)</th>
<th>Max. Allowed Accumulated Load Kg (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cushioned Stops</td>
<td></td>
</tr>
<tr>
<td>6.1 (20)</td>
<td>54 (120)</td>
</tr>
<tr>
<td>9.1 (30)</td>
<td>36 (80)</td>
</tr>
<tr>
<td>12.2 (40)</td>
<td>32 (70)</td>
</tr>
<tr>
<td>18.3 (60)</td>
<td>27 (60)</td>
</tr>
<tr>
<td>23 (75)</td>
<td>23 (50)</td>
</tr>
<tr>
<td>31 (100)</td>
<td>16 (35)</td>
</tr>
<tr>
<td>Non-Cushioned Stops*</td>
<td></td>
</tr>
<tr>
<td>6.1 (20)</td>
<td>68 (150)</td>
</tr>
<tr>
<td>9.1 (30)</td>
<td>68 (150)</td>
</tr>
<tr>
<td>12.2 (40)</td>
<td>68 (150)</td>
</tr>
<tr>
<td>18.3 (60)</td>
<td>64 (140)</td>
</tr>
<tr>
<td>23 (75)</td>
<td>55 (120)</td>
</tr>
<tr>
<td>31 (100)</td>
<td>45 (100)</td>
</tr>
</tbody>
</table>

*Note: Pallet bumpers are recommended.
PALLET SYSTEMS

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

<table>
<thead>
<tr>
<th>Diverts</th>
<th>Fixed Merge</th>
</tr>
</thead>
<tbody>
<tr>
<td>D M WW A A A 2 C R L</td>
<td>M M WW A A A L</td>
</tr>
<tr>
<td>Direction: L = Left R = Right</td>
<td></td>
</tr>
<tr>
<td>Pallet Photoeye Brackets:</td>
<td></td>
</tr>
<tr>
<td>1 = No Pallet Photoeye Brackets 2 = Includes Pallet Photoeye Brackets</td>
<td></td>
</tr>
<tr>
<td>Divert Arm Sensors:</td>
<td></td>
</tr>
<tr>
<td>N = No Reed Switches R = Reed Switches Included</td>
<td></td>
</tr>
<tr>
<td>Stop Type:</td>
<td></td>
</tr>
<tr>
<td>C = Cushioned F = Non cushioned N = No Stops Included</td>
<td></td>
</tr>
<tr>
<td>Divert Type:</td>
<td></td>
</tr>
<tr>
<td>2 = Divert only, 2 Position 3 = Divert and Merge, 3 Position</td>
<td></td>
</tr>
<tr>
<td>Angle:</td>
<td></td>
</tr>
<tr>
<td>045 = 45° 090 = 90° 000 = Parallel P45 = Parallel 45 P90 = Parallel 90</td>
<td></td>
</tr>
<tr>
<td>Width Reference:</td>
<td></td>
</tr>
<tr>
<td>105 = 105 mm</td>
<td></td>
</tr>
</tbody>
</table>

Note: Dimensions = mm (in)

Flow Control

Pneumatic Valve

By Others

2 Position Diverts and Merges

3 Position Diverts and Merges

INPUT

INPUT
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 ± .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

**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

**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.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="https://example.com/ce.png" alt="CE" /></td>
<td>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).</td>
</tr>
<tr>
<td><img src="https://example.com/rohs.png" alt="RoHS" /></td>
<td>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.</td>
</tr>
<tr>
<td><img src="https://example.com/ul.png" alt="UL" /></td>
<td>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.</td>
</tr>
<tr>
<td><img src="https://example.com/c-ul-us.png" alt="C-UL-US" /></td>
<td>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.</td>
</tr>
<tr>
<td><img src="https://example.com/csa.png" alt="CSA" /></td>
<td>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.</td>
</tr>
<tr>
<td><img src="https://example.com/ul-listed.png" alt="UL-Listed" /></td>
<td>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.</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>HDPE</td>
<td>UHMW</td>
<td>Antistatic HDPE</td>
<td>PAPE</td>
<td>PaPE</td>
<td>PYDF</td>
<td>Impregnated UHMW</td>
</tr>
<tr>
<td>Color</td>
<td>white</td>
<td>white</td>
<td>black</td>
<td>Grey</td>
<td>White</td>
<td>Blue</td>
<td></td>
</tr>
<tr>
<td>FDA approved</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Coefficient of Friction</td>
<td>0.25</td>
<td>0.25</td>
<td>0.25</td>
<td>0.3</td>
<td>0.35</td>
<td>0.25</td>
<td></td>
</tr>
<tr>
<td>Temp Range</td>
<td>-20 to 60 C</td>
<td>-20 to 60 C</td>
<td>-20 to 60 C</td>
<td>-20 to 80 C</td>
<td>-20 to 100 C</td>
<td>-20 to 60 C</td>
<td></td>
</tr>
<tr>
<td>Maximum Speed</td>
<td>50 M/min</td>
<td>60 M/min</td>
<td>50 M/min</td>
<td>60 M/min</td>
<td>60 M/min</td>
<td>60 M/min</td>
<td>60 M/min</td>
</tr>
<tr>
<td>Heavy Loads</td>
<td>poor</td>
<td>good</td>
<td>poor</td>
<td>excellent</td>
<td>excellent</td>
<td>good</td>
<td></td>
</tr>
<tr>
<td>Elongation / wear resistance</td>
<td>poor</td>
<td>good</td>
<td>poor</td>
<td>excellent</td>
<td>excellent</td>
<td>good</td>
<td></td>
</tr>
<tr>
<td>Chemical Resistance</td>
<td>Good, poor to petroleum based solvents</td>
<td>Good</td>
<td>Good, poor to petroleum based solvents</td>
<td>Good, not used with wet solvents</td>
<td>Excellent</td>
<td>Good</td>
<td></td>
</tr>
<tr>
<td>Application</td>
<td>General conveyance, lowest cost</td>
<td>High speed, moderate loads, low dust generation</td>
<td>Environments sensitive to static electricity</td>
<td>High speed, high load, dry applications only, abrasive particles</td>
<td>High speed, high load, abrasive particles</td>
<td>High speed, moderate loads, low dust generation</td>
<td></td>
</tr>
</tbody>
</table>
### TECHNICAL DATA AND CALCULATIONS

**Chains**

<table>
<thead>
<tr>
<th>Series</th>
<th>FK</th>
<th>FS</th>
<th>FM</th>
<th>FC</th>
<th>FL</th>
<th>FU</th>
<th>FV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chain width (mm)</strong></td>
<td>44 mm</td>
<td>63 mm</td>
<td>83 mm</td>
<td>103 mm</td>
<td>150 mm</td>
<td>175 mm</td>
<td>255 mm</td>
</tr>
<tr>
<td><strong>Chain width (inch)</strong></td>
<td>1.73&quot;</td>
<td>2.48&quot;</td>
<td>3.27&quot;</td>
<td>4.06&quot;</td>
<td>5.91&quot;</td>
<td>6.890&quot;</td>
<td>10.039&quot;</td>
</tr>
<tr>
<td><strong>Tensile strength at 20°C (N)</strong></td>
<td>3600 N</td>
<td>3400 N</td>
<td>4800 N</td>
<td>4800 N</td>
<td>4800 N</td>
<td>4800 N</td>
<td>4800 N</td>
</tr>
<tr>
<td><strong>Tensile strength at 68°F (lbf)</strong></td>
<td>810 lbf</td>
<td>764 lbf</td>
<td>1079 lbf</td>
<td>1079 lbf</td>
<td>1079 lbf</td>
<td>1079 lbf</td>
<td>1079 lbf</td>
</tr>
<tr>
<td><strong>Max. working tensile at 20°C (N)</strong></td>
<td>500 N</td>
<td>500 N</td>
<td>1250 N</td>
<td>1250 N</td>
<td>1250 N</td>
<td>1250 N</td>
<td>1250 N</td>
</tr>
<tr>
<td><strong>Max. working tensile at 68°F (lbf)</strong></td>
<td>112 lbf</td>
<td>112 lbf</td>
<td>281 lbf</td>
<td>281 lbf</td>
<td>281 lbf</td>
<td>281 lbf</td>
<td>281 lbf</td>
</tr>
<tr>
<td><strong>Working temperature (°C)</strong></td>
<td>-20 – 60°C</td>
<td>-20 – 60°C</td>
<td>-20 – 60°C</td>
<td>-20 – 60°C</td>
<td>-20 – 60°C</td>
<td>-20 – 60°C</td>
<td>-20 – 60°C</td>
</tr>
<tr>
<td><strong>Working temperature (°F)</strong></td>
<td>-4 – 140°F</td>
<td>-4 – 140°F</td>
<td>-4 – 140°F</td>
<td>-4 – 140°F</td>
<td>-4 – 140°F</td>
<td>-4 – 140°F</td>
<td>-4 – 140°F</td>
</tr>
<tr>
<td><strong>Maximum conveyor speed (m/min)</strong></td>
<td>50 m/min</td>
<td>58 m/min</td>
<td>58 m/min</td>
<td>58 m/min</td>
<td>58 m/min</td>
<td>58 m/min</td>
<td>58 m/min</td>
</tr>
<tr>
<td><strong>Maximum conveyor speed (ft/min)</strong></td>
<td>165 ft/min</td>
<td>190 ft/min</td>
<td>190 ft/min</td>
<td>190 ft/min</td>
<td>190 ft/min</td>
<td>190 ft/min</td>
<td>190 ft/min</td>
</tr>
<tr>
<td><strong>Max. conveyor length (m)</strong></td>
<td>30 m</td>
<td>30 m</td>
<td>30 m</td>
<td>30 m</td>
<td>30 m</td>
<td>30 m</td>
<td>30 m</td>
</tr>
<tr>
<td><strong>Max. conveyor length (ft)</strong></td>
<td>100 ft</td>
<td>100 ft</td>
<td>100 ft</td>
<td>100 ft</td>
<td>100 ft</td>
<td>100 ft</td>
<td>100 ft</td>
</tr>
<tr>
<td><strong>Min. turning radius (mm)</strong></td>
<td>150 mm</td>
<td>150 mm</td>
<td>160 mm</td>
<td>170 mm</td>
<td>210 mm</td>
<td>500 mm</td>
<td>700 mm</td>
</tr>
<tr>
<td><strong>Min. turning radius (inch)</strong></td>
<td>5.91&quot;</td>
<td>5.91&quot;</td>
<td>6.30&quot;</td>
<td>6.70&quot;</td>
<td>7.87&quot;</td>
<td>19.7&quot;</td>
<td>27.6&quot;</td>
</tr>
<tr>
<td><strong>Link spacing (mm)</strong></td>
<td>25.4 mm</td>
<td>25.4 mm</td>
<td>33.5 mm</td>
<td>35.5 mm</td>
<td>35.5 mm</td>
<td>33.5 mm</td>
<td>33.5 mm</td>
</tr>
<tr>
<td><strong>Link spacing (inch)</strong></td>
<td>1.0&quot;</td>
<td>1.0&quot;</td>
<td>1.32&quot;</td>
<td>1.40&quot;</td>
<td>1.40&quot;</td>
<td>1.32&quot;</td>
<td>1.32&quot;</td>
</tr>
<tr>
<td><strong>Chain weight (plain) (kg/m)</strong></td>
<td>0.63 kg/m</td>
<td>0.75 kg/m</td>
<td>1.20 kg/m</td>
<td>1.67 kg/m</td>
<td>1.87 kg/m</td>
<td>2.0 kg/m</td>
<td>2.43 kg/m</td>
</tr>
<tr>
<td><strong>Chain weight (plain) (lb/ft)</strong></td>
<td>0.43 lb/ft</td>
<td>0.50 lb/ft</td>
<td>0.81 lb/ft</td>
<td>1.12 lb/ft</td>
<td>1.26 lb/ft</td>
<td>1.344 lb/ft</td>
<td>1.633 lb/ft</td>
</tr>
<tr>
<td><strong>Max. weight on conveyor (kg/m)</strong></td>
<td>30 kg/m</td>
<td>30 kg/m</td>
<td>60 kg/m</td>
<td>60 kg/m</td>
<td>60 kg/m</td>
<td>65 kg/m</td>
<td>65 kg/m</td>
</tr>
<tr>
<td><strong>Max. weight on conveyor (lb/ft)</strong></td>
<td>20 lb/ft</td>
<td>20 lb/ft</td>
<td>40 lb/ft</td>
<td>40 lb/ft</td>
<td>40 lb/ft</td>
<td>44 lb/ft</td>
<td>44 lb/ft</td>
</tr>
<tr>
<td><strong>Item width (mm)</strong></td>
<td>15 – 100 mm</td>
<td>15-140 mm</td>
<td>20-200 mm</td>
<td>25-300 mm</td>
<td>50-400 mm</td>
<td>50-400 mm</td>
<td>80 – 500 mm</td>
</tr>
<tr>
<td><strong>Item width (inch)</strong></td>
<td>0.6 – 4.0&quot;</td>
<td>0.6 – 5.5&quot;</td>
<td>0.8-7.9&quot;</td>
<td>1.0-11.8&quot;</td>
<td>2.0-15.7&quot;</td>
<td>2.0 – 15.4&quot;</td>
<td>3.2 – 19.7&quot;</td>
</tr>
</tbody>
</table>
## Drive Unit Specifications

### Direct Drive unit

<table>
<thead>
<tr>
<th></th>
<th>FK</th>
<th>FS</th>
<th>FM</th>
<th>FC</th>
<th>FL</th>
<th>FU</th>
<th>FV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Teeth on sprocket</td>
<td>16</td>
<td>16</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Chain Pitch (mm)</td>
<td>25.4</td>
<td>25.4</td>
<td>33.5</td>
<td>35.5</td>
<td>35.5</td>
<td>33.5</td>
<td>33.5</td>
</tr>
<tr>
<td>Max. Traction force (N)</td>
<td>500</td>
<td>500</td>
<td>1250</td>
<td>1250</td>
<td>1250</td>
<td>1250</td>
<td>1250</td>
</tr>
<tr>
<td>Sprocket Diameter (mm)</td>
<td>128</td>
<td>128</td>
<td>128</td>
<td>135</td>
<td>135</td>
<td>135</td>
<td>135</td>
</tr>
</tbody>
</table>

### Suspended Drive unit

<table>
<thead>
<tr>
<th></th>
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<th>FS</th>
<th>FM</th>
<th>FC</th>
<th>FL</th>
<th>FU</th>
<th>FV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Teeth on sprocket</td>
<td>16</td>
<td>16</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Chain Pitch (mm)</td>
<td>25.4</td>
<td>25.4</td>
<td>33.5</td>
<td>35.5</td>
<td>35.5</td>
<td>33.5</td>
<td>33.5</td>
</tr>
<tr>
<td>Max. Traction force (N)</td>
<td>500</td>
<td>500</td>
<td>1250</td>
<td>1250</td>
<td>1250</td>
<td>1250</td>
<td>1250</td>
</tr>
<tr>
<td>Sprocket Diameter (mm)</td>
<td>128</td>
<td>128</td>
<td>128</td>
<td>135</td>
<td>135</td>
<td>135</td>
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### Catenary Drive unit

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<tr>
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<th>FM</th>
<th>FC</th>
<th>FL</th>
<th>FU</th>
<th>FV</th>
</tr>
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<tbody>
<tr>
<td>Number of Teeth on sprocket</td>
<td>Nil</td>
<td>16</td>
<td>12</td>
<td>12</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Chain Pitch (mm)</td>
<td>Nil</td>
<td>25.4</td>
<td>33.5</td>
<td>35.5</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Max. Traction force (N)</td>
<td>Nil</td>
<td>500</td>
<td>1250</td>
<td>1250</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Sprocket Diameter (mm)</td>
<td>128</td>
<td>128</td>
<td>128</td>
<td>135</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
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</table>

### Intermediate Drive unit

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<th>FM</th>
<th>FC</th>
<th>FL</th>
<th>FU</th>
<th>FV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Teeth on sprocket</td>
<td>Nil</td>
<td>11</td>
<td>9</td>
<td>9</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Chain Pitch (mm)</td>
<td>Nil</td>
<td>25.4</td>
<td>33.5</td>
<td>35.5</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Max. Traction force (N)</td>
<td>Nil</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Sprocket Diameter (mm)</td>
<td>88</td>
<td>88</td>
<td>98</td>
<td>101</td>
<td>101</td>
<td>Nil</td>
<td>Nil</td>
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### Wheel Drive unit

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<th>FC</th>
<th>FL</th>
<th>FU</th>
<th>FV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Teeth on sprocket</td>
<td>300</td>
<td>300</td>
<td>320</td>
<td>340</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Chain Pitch (mm)</td>
<td>25.4</td>
<td>25.4</td>
<td>33.5</td>
<td>35.5</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Max. Traction force (N)</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Sprocket Diameter (mm)</td>
<td>273</td>
<td>273</td>
<td>277</td>
<td>272</td>
<td>Nil</td>
<td>Nil</td>
<td>Nil</td>
</tr>
</tbody>
</table>
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

Dimensions in inches. Dimensions in millimeters.

Note: Dimensions = mm (in)
Conveyor Load Capacity

There are several factors that affect the overall conveyor load of the FlexMove conveyor. These include:

- Conveyor size and configuration
- Conveyor speed
- Application temperature
- Product accumulation
- Number of starts and stops per hour
- Maximum Drive Unit Output

Located online at 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.

### Tension Limit vs. Belt Speed

To calculate the Nominal Maximum Load:

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)

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.

<table>
<thead>
<tr>
<th>Temperature (°F)</th>
<th>Temperature (°C)</th>
<th>Temperature Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>-4</td>
<td>-20</td>
<td>1.0</td>
</tr>
<tr>
<td>32</td>
<td>0</td>
<td>1.0</td>
</tr>
<tr>
<td>68</td>
<td>20</td>
<td>1.0</td>
</tr>
<tr>
<td>104</td>
<td>40</td>
<td>0.9</td>
</tr>
<tr>
<td>140</td>
<td>60</td>
<td>0.8</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Product Being Accumulated</th>
<th>Typical Coefficient of Friction</th>
<th>Accumulation Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>0.25</td>
<td>0.50</td>
</tr>
<tr>
<td>Glass</td>
<td>0.20</td>
<td>0.60</td>
</tr>
<tr>
<td>Aluminum</td>
<td>0.25</td>
<td>0.50</td>
</tr>
<tr>
<td>Plastic</td>
<td>0.25</td>
<td>0.50</td>
</tr>
<tr>
<td>Wood</td>
<td>0.30</td>
<td>0.40</td>
</tr>
<tr>
<td>Paper and Cardboard</td>
<td>0.30</td>
<td>0.40</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Application Condition</th>
<th>Start / Stop Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Run or 1 start/stop per hour</td>
<td>1.00</td>
</tr>
<tr>
<td>Maximum 10 starts/stop per hour</td>
<td>0.83</td>
</tr>
<tr>
<td>Maximum 30 starts/stop per hour</td>
<td>0.70</td>
</tr>
<tr>
<td>Greater than 30 starts/stop per hour</td>
<td>0.62</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Application Condition</th>
<th>Coefficient of Friction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry</td>
<td>0.30</td>
</tr>
<tr>
<td>Water Lubrication</td>
<td>0.27</td>
</tr>
<tr>
<td>Coolant Lubrication</td>
<td>0.20</td>
</tr>
<tr>
<td>Oil Lubrication</td>
<td>0.20</td>
</tr>
</tbody>
</table>

**Drive Unit Output Capacity, P(W) requirement depend on:**

- Traction force F (N)
- Chain speed V (m/min)

To calculate power, the equation is $P = \frac{1}{60} (F \times V)$

There are several drive unit designs, the maximum permissible traction force on each type of drive unit as below:

<table>
<thead>
<tr>
<th>Drive unit type</th>
<th>Maximum traction force in Newton (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FK</td>
</tr>
<tr>
<td>End</td>
<td>500</td>
</tr>
<tr>
<td>Intermediate</td>
<td>200</td>
</tr>
<tr>
<td>Catenary</td>
<td>500</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Bend type, horizontal or vertical plain bend</th>
<th>Bend factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>30°1</td>
<td>0.2</td>
</tr>
<tr>
<td>45°</td>
<td>1.3</td>
</tr>
<tr>
<td>60°1</td>
<td>0.4</td>
</tr>
<tr>
<td>90°1</td>
<td>0.6</td>
</tr>
</tbody>
</table>

8° inclined is the maximum a product could convey for plain chain whereas friction top chain could take up to 30°

Material

<table>
<thead>
<tr>
<th>Material</th>
<th>FlexMove Parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>POM (PolyOxyMethylene)</td>
<td>Conveyor Chain, rollers</td>
</tr>
<tr>
<td>POM Conductive (PolyOxyMethylene)</td>
<td>Conductive chain</td>
</tr>
<tr>
<td>Aluminum, extruded &amp; anodized</td>
<td>Angle bracket, beam support bracket, conveyor beam, support beam, guide rail, distance tube, fixed and adjustable side guide bracket, spacer</td>
</tr>
<tr>
<td>Steel, electro-zinc plated</td>
<td>Bolts and nuts, connecting strips, foot connecting strip</td>
</tr>
<tr>
<td>Steel, powder coated</td>
<td>Foot, connecting plate</td>
</tr>
<tr>
<td>PA, Polyamide</td>
<td>Chain pivot, side guide bracket, side guide support, drive and idler steering guide, end caps, wheel guide</td>
</tr>
<tr>
<td>Polyamide PA + Glass fiber</td>
<td>Drive sprocket, idler wheel</td>
</tr>
<tr>
<td>PVC, Polyvinyl Chloride</td>
<td>T-slot cover</td>
</tr>
<tr>
<td>HDPE, High Density Polyethylene</td>
<td>Slide rail, guide rail</td>
</tr>
<tr>
<td>UHMW-PE, Ultra High Molecular Weight Polyethylene</td>
<td>Slide Rail, drive and idler steering guides</td>
</tr>
<tr>
<td>PVDF, Polyvinylidene fluoride</td>
<td>Slide Rail</td>
</tr>
<tr>
<td>TPE, Thermoplastic Elastomer</td>
<td>Chain insert for friction top and wedge top</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Material</th>
<th>Acetal POM</th>
<th>Polyamide PA</th>
<th>High-density Polyethylene HDPE</th>
<th>Thermoplastic Elastomer TPE</th>
<th>Aluminum AL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acids:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetic acid</td>
<td>3</td>
<td>4</td>
<td>3</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Benzoic acid</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Citric acid</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Chromic acid</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Hydrofluoric acid</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Hydrochloric acid</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Hydro cyanic acid</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Nitric acid</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Phosphoric acid</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Sulphuric acid</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Tartaric acid</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>-</td>
<td>1</td>
</tr>
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<td><strong>Basic compounds:</strong></td>
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<td></td>
</tr>
<tr>
<td>Ammonia</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Caustic soda</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>3</td>
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<td>Potassium hydroxide</td>
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<td>1</td>
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<td>4</td>
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<tr>
<td><strong>Salts:</strong></td>
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<td>Potassium bicarbonate</td>
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<td>2</td>
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<td>Potassium permanganate</td>
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<td>4</td>
<td>2</td>
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<td>Sodium cyanic</td>
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<td>2</td>
<td>2</td>
<td>-</td>
<td>4</td>
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<tr>
<td>Sodium hydrochloride</td>
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<td>4</td>
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<td>4</td>
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<tr>
<td>Acid salt</td>
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<td>3</td>
<td>1</td>
<td>-</td>
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<tr>
<td>Basic salt</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Neutral salt</td>
<td>1</td>
<td>2</td>
<td>1</td>
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</table>
**Chains**

<table>
<thead>
<tr>
<th>Material</th>
<th>Acetal POM</th>
<th>Polyamide PA</th>
<th>High-density Polyethylene HDPE</th>
<th>Thermoplastic Elastomer TPE</th>
<th>Aluminum AL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Organic compounds and solvents:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Acetone</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Benzene</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>3</td>
<td>1</td>
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<tr>
<td>Butyl alcohol</td>
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<tr>
<td>Carbon disulphide</td>
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<td>3</td>
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<tr>
<td>Chloroform</td>
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<td>1</td>
<td>4</td>
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<td>-</td>
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<tr>
<td>Ethyl acetate</td>
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<td>1</td>
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<td>-</td>
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<tr>
<td>Ethyl alcohol</td>
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<tr>
<td>Heptane</td>
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<td>Methyl alcohol</td>
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<td>1</td>
<td>1</td>
<td>-</td>
<td>2</td>
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<tr>
<td>Methyl ethyl ketone</td>
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<td>4</td>
<td>4</td>
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<td>Nitrobenzene</td>
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<td>2</td>
<td>3</td>
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<tr>
<td>Phenol</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>-</td>
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<tr>
<td><strong>Gasses:</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>-</td>
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<tr>
<td>Carbon monoxide</td>
<td>2</td>
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<tr>
<td>Chlorine</td>
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<td>4</td>
<td>3</td>
<td>-</td>
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<tr>
<td>Hydrogen sulphide</td>
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<td>1</td>
<td>2</td>
<td>-</td>
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<tr>
<td>Sulphur dioxide</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>-</td>
<td>1</td>
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<tr>
<td><strong>Others:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beer</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Fruit juices</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>-</td>
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</tr>
<tr>
<td>Gasoline</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>-</td>
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</tr>
<tr>
<td>Milk</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Oil</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Vinegar</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>-</td>
<td>1</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Static Electricity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above the drive unit</td>
<td>1800-2500V</td>
</tr>
<tr>
<td>Idler end</td>
<td>400-500V</td>
</tr>
<tr>
<td>Above the wheel bend</td>
<td>400-500V</td>
</tr>
<tr>
<td>Above the straight section</td>
<td>250-350V</td>
</tr>
</tbody>
</table>

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.

---

**Pneumatic Specifications - FlexMove Pallet Modules**

<table>
<thead>
<tr>
<th>Device</th>
<th>Action</th>
<th>Bore Diameter</th>
<th>Stroke Length</th>
<th>Return Type</th>
<th>Sensor Compatible</th>
<th>Force per Bar</th>
<th>Force per Psi</th>
<th>Tap Size</th>
<th>Tube Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift and Locate</td>
<td>2 lift cylinders</td>
<td>32mm</td>
<td>31 mm</td>
<td>1.22 in</td>
<td>Pneumatic</td>
<td>No</td>
<td>81 N</td>
<td>1.25 lb</td>
<td>R1/8-28</td>
</tr>
<tr>
<td>Divert 2 Position</td>
<td>divert cylinder</td>
<td>27 mm</td>
<td>35 mm</td>
<td>1.737 in</td>
<td>Pneumatic</td>
<td>Yes</td>
<td>58 N</td>
<td>0.88 lb</td>
<td>1/8 NPT</td>
</tr>
<tr>
<td>Divert 3 Position</td>
<td>extend cylinder</td>
<td>27 mm</td>
<td>33 mm</td>
<td>1.32 in</td>
<td>Pneumatic</td>
<td>Yes</td>
<td>58 N</td>
<td>0.88 lb</td>
<td>1/8 NPT</td>
</tr>
<tr>
<td></td>
<td>middle position</td>
<td>27 mm</td>
<td>13 mm</td>
<td>0.51 in</td>
<td>Pneumatic</td>
<td>Yes</td>
<td>58 N</td>
<td>0.88 lb</td>
<td>1/8 NPT</td>
</tr>
<tr>
<td>Cushion Stop</td>
<td>Stop retract</td>
<td>35mm</td>
<td>9 mm</td>
<td>0.35 in</td>
<td>Spring</td>
<td>No</td>
<td>N/A</td>
<td>N/A</td>
<td>M5</td>
</tr>
<tr>
<td>Non-cushion Stop</td>
<td>Stop retract</td>
<td>35mm</td>
<td>9 mm</td>
<td>0.35 in</td>
<td>Spring</td>
<td>No</td>
<td>N/A</td>
<td>N/A</td>
<td>M5</td>
</tr>
</tbody>
</table>
**PRODUCT SUMMARY**

**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

**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