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#### Patents

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SEPTEMBER 2016



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# Quallity, Flexibility, Efficiency, Eco-friendly.

FlexMove® is built upon these 4 main virtues that are embodied in everything we do. With a mission to strive for exceptional superiority in intelligent integrated transportation systems, we aim to fulfill the ever-changing demands of the global market. This is why we are committed to deliver more possibilities that extend beyond your expectations. We make things happen for you, we connect possibilities to let you achieve the best for your business.

#### Quality with innovative solutions

At FlexMove®, we believe in delivering precision in our products and services, there's simply no compromising in the quality of our products and services. We make it our business to understand your needs and requirements. This is to ensure that our continuous R&D effort for technological breakthrough enables your business to maintain its competitive advantage while delivering more value to your customers.

To this end, our non-compromising team of engineers aims to innovate and be the pioneers in the integrated transportation systems industry.

#### Flexibility in fulfilling infinite potential

Today's dynamic business environment requires businesses to constantly evolve all the time with technology and new customer requirements. With this in mind, FlexMove® Intelligent Transportation System (FITS™) is designed to get the best out of your investment and realize the unlimited potential of your business. Suitable for all industries, the unique FITS™ employs a side-flexing plastic chain, allowing horizontal turns and elevation changes within a single continuous run, taking flexibility as you know it to a higher level.

#### Efficiency for all businesses

lines. Results, that's all that matters and FlexMove® has continuosly raised and set the benchmark to cater to the needs and budgets of various industries.

We work towards ensuring optimal results for businesses with our cost-efficient systems that afford you with vast layout capability, minimal component variation, design simplicity, effective space utilization, enhanced productivity, low maintenance and user-friendliness.

With FlexMove®, you can be assured of flexibility that allows your business to expand possibilities even further.

At end of the day, all businesses depend on their bottom

#### Eco-Friendly for a better future

In our quest for technological advancement, we are always conscious of the need to be sensitive to our environment. The R&D team at FlexMove® is constantly reviewing and sourcing for the most eco-friendly materials for our products and services as we believe that we play an important role in ensuring the well-being of our environment. The use of energy-saving products, recyclable packing materials, systematic coding of product material to facilitate recovery and recycle processes adopted in our processes contributes to our eco-friendly focus to ensure that your choice of our solutions is the right choice for your business and for our environment.

With Quality, Fexible, Efficient and Eco-friendly solutions, Connecting Possibilities™ is made easy with FlexMive®.



# Industries Served

FlexMove® is designed as an ultimate solution for transportation systems in all manufacturing industries. The system provides a good platform for future expansion and re-layout capability. With our in-depth knowledge and experience in transportation systems backed by our well established worldwide marketing and services network, we are confident in providing solutions to your problems. The following list depicts our extensive experience in the industries:



#### Food, Beverage & Dairy industry

Biscuit, bread, instant noodle & soup, candy, cereal, cheese, chewing gum, soft drink, sugar, yogurt, glass & PET bottles, ice-cream, butter, juice, metal & paper cans, milk powder, pet food, snack, chocolate, coffee, confectionery, frozen food, etc.



#### Automotive & Machine Part Industry

Air and oil filters, gear wheel, bearings, piston, casting part, power window motor, compressor, spark plug, front and back lights, speedomester and electronic instrument, fuel pump, etc.



#### Electronic & Electrical Industry

Audio and video appliances, LCD and electronic display, battery, mobile phone, compact disc, substrate, computer parts, bulbs, electrical instrument, CRT, hard disc drive, etc.



#### Personal Product, Medical & Pharmaceutical Industry

Aerosol can, perfume, baby oil, pills, body lotion, detergent, cosmetics, shampoo, dental equipment, shower cream, dental floss, soap, deodorant, syringe, eye care products, surgical instruments and supplies, health supplement, toothpaste, lipstick, etc.



#### Paper Converting & Packaging Industry

Tissue roll, bags, kitchen towel, boxes, diapers, bundles, sanitary napkins, etc.

# **Paper Converting**

Solutions



FlexMove® is a provider of robust and efficient custom integrated handling solutions for numerous industries including paper converting; namely the production of toilet rolls, kitchen towels, tissue papers (in stacks or boxes), diapers and sanitary napkins.

The flexibility in the design of our high-speed handling solutions allows for easy assembly and integration with new or existing production equipment. Standardized modular components offer customers the option to expand the system in order to adhere to future requirements. Diverter merger and line balancing systems in our handling solutions ensure a constant flow of products without backlog from any log saw or wrapper for optimal line balancing and utilization.

Should space be a constraint, our paper converting conveyors can be configured in single or multi-lane with horizontal and vertical lines, freeing up space on the procuction floor for other heavy machinery and equipment. Products may also be elevated above machine-level to optimize space.

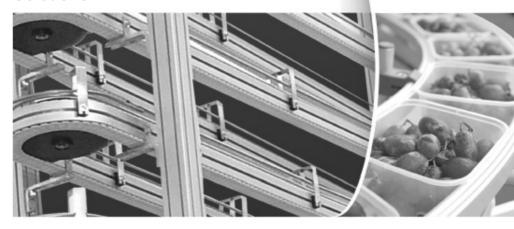






# Food & Beverage

Solutions





FlexMove® Food and Beverage Conveyor Solutions offer efficient product flow, regular changeover of types and packages, fast turn-around time and increasing demands. Along with the versatility to adapt to production schedules that require multiple products on a single production line.

In order to optimize efficiency, we maintain the highest standard in engineering, installation and execution, with the flexibility to make modifications to suit different needs and applications.

Through sound solutions and comprehensive service support, our customers enjoy a smooth, swift workflow from post packing to palletization.

FlexMove® offers a variety of chain designs with special surface features such as cleats, rollers, friction pads, steel top and antistatic chain. These provide unlimited options to handle a broad range of products and transpirtion tasks. Our unique system employs a side-flexing plastic chain, which allows for horizontal turns and elevation changes within a single continuous run.





# Pallet Assembly

# Solutions

There are 3 essential characteristics that an assembly line must have in order to meet the demands of today's dynamic manufacturing environment: it must be robust enough to weather demanding production schedules; versatile enough to adapt to changes in variables such as product size, shape, production volume and packaging type; and flexible enough to be reconfigured for future expansion plans and production requirements.

FlexMove® Pallet Assembly Solutions are designed to facilitate the palletization of products from the same category with similar sizes. Products are placed on a

standrad-sized pallet that runs through an assembly process via a FlexMove® conveyor system. This gives customers the flexibility of palletizing products of various sizes on the same conveyor system.

FlexMove® Pallet Assembly Solutions can be configured in single track, twin-track or multi-track systems. Combine that with our proprietary sub-assembly modules such as pallet stopper, pallet lifter, pallet transfer, pallet rotator, pllet stackers and de-stackers to achieve a total integrated pallet assembly system.



# Twin-Track Assembly

# Solutions

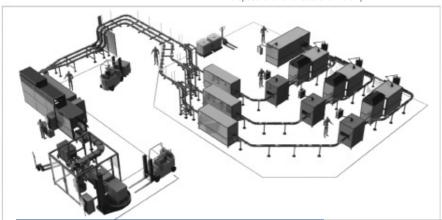
FlexMove® Twin-track Assembly Solutions are employed to convey palletized products from one process or assembly station to another. Based on a modular system, these solutions offer customers the ease of plug & play with flexible configuration options. Production capacity is maximized as a result of minimal product routing. FlexMove® Twin-Track Assembly Solutions are well suited for manual or automatic assembly and test systems in the automotive and electrical/electronics industries.



# **Production Line**

# Solutions

The ideal production conveyor system should have a simple set-up and offer the flexbility to adapt to the changes in product types and sizes, product quality and mix, volume and cycle, packaging format and process, marketing strategies, market priorities, market demands and trends. FlexMove® 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 FlexMove® system eliminates costly engineering intervention, equipment disposal and lower cost of ownership.



# **Integrated Automation**

Solutions





FlexMove® manages production logistics through the collaboration of key components that include a computer integrated manufacturing software (CIM), scanner, barcode system, aas well as radio-frequency identification (RFID) for product scanning, identification and verification.

Once products are scanned, identified and verified by the CIM system, they will then be sorted according to their respective procuct lanes prior to packaging to eliminate product mix up, human error and handling problems. To optimize productivity, our flexible solutions allow control of production processes and are designed to meet changing wirkflow demands.

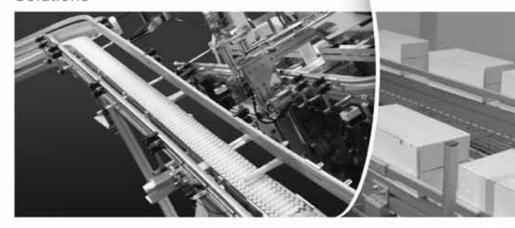
The FlexMove® Intelligent Logistics Solutions: an efficient network of sorter, Diverter, stopper, elevators, lowerators, lifters and stacker/de-stacker systems powered by an intelligent transportation system.





# **Intelligent Logistics**

Solutions



FlexMove® creates value for customers by combining our proprietary automation solutions with intelligent transportation systems. A total integrated solution that is a result of the sound partnership between automation solutions and product transportation system such as product conveying, diverting and merging, sorting, accumulating, lifting and a standard production software – tailor-made to the customer's needs.

The ease of interfacing and integration with existing production machines and equipment through hardware or software is essential. Our systems provide complete support to ensure better control of products and processes, which allows for easy mounting of automation solutions on the FlexMove® Transportation System.

FlexMove® systems optimize space utilization, freeing up space on theproduction floor for heavy machinery.







# **Elevating & Lowerating**

# Solutions



#### Alpine Conveyor

The FlexMove® 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 elevator/lowerator 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 or a bottleneck machine and provides storage for pucks.



#### Wedge Conveyor

Powered by the FlexMove® Wedge Top Chain, 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 aluminium and stainless steel, it meets the stringent hygiene standard required for medical and cosmetic packaging.

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

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









C-Wedge

N-Wedge

S-Wedge



#### Packet Elevating/Lowerating Conveyor

A Packet Elevating/Lowerating Conveyor is a self contained unit that can be easily integrated with other FlexMove® conveyor systems. Friction Keeps packets on the conveyor as they are transported to another machine on a higher floor or vice versa.



tive advantage while delivering more value to our customers.

To this end, our non-compromising team of engineers aims to innovate and be the pioneers in the integrated transportation systems industry.



#### INTRODUCTION

FlexMove® integrated flexible and modular conveyor system is designed for a wide range of applications in broad manufacturing industries. This unique system employs a side-flexing plastic chain travel on low friction slide rails mounted on aluminium extrusion tracks that allows horizontal turns and elevation changes within a single continuous run driven by a single motor. Products can be directly run on conveyor, in pallets, in pucks or carton box guided by guide rail along the conveyor. This unique and economical system provides versatile and expandable platform of conveying solutions with unlimited advantages and features:

Easily assemble, dismantle, reconfigure and re-layout	Minimum components variation and maximize space utilization
Infinite layout capability and unlimited	Horizontal and vertical movement capability
conveying options	Enhanced and improved productivity
Extremely adaptable with easy expansion	Wide range of products selection
Simplicity in design, flexibility in movement	
Modular and flexible design	Aesthetic design, clean, self-lubricating, low noise, low friction, less maintenance, corrosion-free and light weight
Cost effective system that is adaptable to changes	Conosion nee and night weight

#### 1) Industries and Products Served by FlexMove® System

#### Food, Beverage & Dairy Industry

Biscuit, Ice cream, Bread, Butter, Instant Noodle, Metal and Paper Cans, Candy, Milk Powder, Cereal, Pet Food, Cheese, Snacks, Chewing Gum, Chocolate, Soft Drink, Coffee, Sugar, Confectionery, Tea, Frozen Food, Yogurt, Juice, Glass & PET Bottles

#### Automotive and Machined parts Industry

Air and Oil Filters, Gear Wheel, Bearings, Piston, Casting Part, Power Window, Motor, Compressor, Spark Plug, Front and Back Lights, Speedometer and Electronic Instrument, Fuel Pump, Air Bag Control Units

## · Electronics and Electrical Industry

Audio and Video Appliances, LCD and Electronics Display, Battery, Mobile Phone, Compact Disc, Substrate, Computer Parts, Bulbs, Electrical Equipment, CRT, Hard Disc Drives

# Personal Care, Household Consumable, Medical and Pharmaceutical Industry Aerosol Can, Soap, Perfume, Deodorant, Baby Oil, Syringe, Pills, Eye Care Products, Body Lotion, Surgical Instruments, Detergent, Health Supplements, Cosmetics, Shampoo, Dental Equipment, Shower Cream, Dental Floss

## PRODUCT OVERVIEW



#### Paper Converting and Packaging

Tissue Paper, Toilet Paper Roll, Diapers, Bags, Bundles, Kitchen Towels, Sanitary Napkins, Carton Boxes

#### 2) Basic System Selection

FlexMove® provides 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 wider than conveyor chain in two or three times the width of the chain as long as the center of gravity of product falls within the chain width. Extra supporting guide rails are required and testing are 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 the traction force will be increased further if the products are accumulated on the conveyor.

#### Conveyor Functions Available

Most of the conveyor functions are available in all the FlexMove® conveyor series. However there are differences with regard 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 distance and conveyor 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 shorten or select system with high capacity.

#### Floor Space Available

Consideration of floor space available and utilization of smallest foot print for conveyor layout.

#### · Compatibility With Other Machines

In certain applications, interfacing and integrating with other automation equipments can be made much easier by using FlexMove® Conveyor system sizes rather than other sizes.

#### **PRODUCT OVERVIEW**

#### Intermediate Drive Unit

An intermediate drive is best utilized when space restriction prohibits the placement of the end drive unit. It required two idler end units at each end. The gear motor 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 other end drive units due to less engagement between drive sprocket and chain.

#### Catenary Drive Unit

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

#### 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 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 drive suits for the application of using single loop or alpine conveyor system without return chain. Both direct and suspended drive version are available with the gear motor mounted underneath. The traction force is lower than other end drive units as the gear wheel engages the side of the chain.

#### 3) Idler End Unit

The function of 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 bottom of conveyor beam to the top through 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.

#### 4) Bends

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

#### · Wheel bends

Designed with top and bottom wheels that rotate freely with the chain and are supported by a dual sealed ball bearing, it has 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 angle is also available upon request. Select a horizontal wheel bends 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 bends applications. It has higher friction compare to wheel bend. Larger radius is recommended for lower friction and stress on slide rail.

#### Vertical Bends

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

#### 5) Slide Rail

A slide rail provides low friction and wear resistance track for chain to slide on. It is mounted to a conveyor beam via screw or rivet. Various types of slide rails are available that cater to different requirements like normal operation, high speed, high load, conductive and accumulation applications.

#### 6) Conveyor Beams

Conveyor beams are made of anodized aluminium extrusion that comes in standard length of 3meter 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. Aluminium extrusion has advantages of high strength and light weight. 2 connecting strips are required for joining.

#### 7) 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. FlexMove® provides a comprehensive range of guide rails, covers and brackets either fixed or adjustable to cover many specialized product sizes and shapes.

## 8) Structural System

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

#### 9) Conveyor Accessories

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

# **Materials**

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

# Chains

Series	FH	FK	FS
Chain width (mm)	35mm	44mm	63mm
Chain width (inch)	1.38"	1.73"	2.48"
Tensile strength at 20°C (N)	1000N	4000N	4000N
Tensile strength at 68°F (lbf)	224.80lbf	899.20lbf	899.20lbf
Max. working tensile at 20°C (N)	180N	500N	500N
Max. working tensile at 68°F (lbf)	40.46lbf	112.40lbf	112.40lbf
Working temperature °C	- 20°C - 60° C	-20°C - 60°C	-20°C - 60°C
Working temperature °F	-4°F - 140°F	-4°F - 140°F	-4°F - 140°F
Standard conveyor speed (m/min)	3 - 30m/min	3 – 50m/min	3 – 50m/min
Standard conveyor speed (ft/min)	10-100ft/min	10-165ft/min	10-165ft/min
Max. conveyor length (m)	3m	30m	30m
Max. conveyor length (ft)	1 Oft	100ft	100ft
Min. turning radius (mm)	N/A	150mm	150mm
Min. turning radius (inch)	N/A	5.91"	6.30"
Link spacing (mm)	12.7mm	25.4mm	25.4mm
Link spacing (inch)	0.50"	1.00"	1.00"
Chain weight (plain) (kg/m)	0.33kg/m	0.63kg/m	0.75kg/m
Chain weight (plain) (lb/ft)	0.19ib/ft	0.43lb/ft	0.50lb/ft
Max. weight on conveyor (kg/m)	Up to * 30kg/m	Up to *30kg/m	Up to *30kg/m
Max. weight on conveyor (lb/ft)	6.72lb/ft	26.16lb/ft	26.16lb/ft
Item width (mm)	35 - 500mm (For Multiple Track)	15 - 100mm1.4-19.7"	15 – 140mm
Item width (inch)	1.4-19.7"	0.6-4.0"	0.6-5.5"

# Chains

Series	FM	FC	FL
Chain width (mm)	83mm	103mm	150mm
Chain width (inch)	3.27"	4.06"	5.91"
Tensile strength at 20°C (N)	6000N	6000N	6000N
Tensile strength at 68°F (lbf)	1348.80lbf	1348.80lbf	1348.80lbf
Max. working tensile at 20°C (N)	1250N	1250N	1250N
Max. working tensile at 68°F (lbf)	281lbf	281lbf	281lbf
Working temperature ℃	- 20°C - 60°C	- 20°C - 60° C	-20°C - 60°C
Working temperature °F	-4°F - 140°F	-4°F - 140°F	-4°F - 140°F
Standard conveyor speed (m/min)	3 - 50m/min	3 - 50m/min	3 – 50m/min
Standard conveyor speed (ft/min)	10-165ft/min	10-165ft/min	10-165ft/min
Max. conveyor length (m)	30m	30m	30m
Max. conveyor length (ft)	100ft	100ft	100ft
Min. turning radius (mm)	160mm	170mm	210mm
Min. turning radius (inch)	6.30"	6.70"	7.87"
Link spacing (mm)	33.5mm	35.5mm	35.5mm
Link spacing (inch)	1.32"	1.40"	1.40"
Chain weight (plain) (kg/m)	1.20kg/m	1.67kg/m	1.87kg/m
Chain weight (plain) (lb/ft)	0.81lb/ft	1.12lb/ft	1.26lb/ft
Max. weight on conveyor (kg/m)	Up to *60kg/m	Up to *60kg/m	Up to *60kg/m
Max. weight on conveyor (lb/ft)	40.32lb/ft	40.32lb/ft	40.32lb/ft
Item width (mm)	20 – 200mm	25 – 300mm	50 – 400mm
Item width (inch)	0.8-7.9"	1.0-11.8"	2.0-15.7"

# Chains

Series	FU	FV	FW
Chain width (mm)	180mm	260mm	320mm
Chain width (inch)	7.087"	10.236"	12.6"
Tensile strength at 20°C (N)	6000N	6000N	18000N
Tensile strength at 68°F (lbf)	1348.80lbf	1348.80lbf	4046.561lbf
Max. working tensile at 20°C (N)	1250N	1250N	1800N
Max. working tensile at 68°F (lbf)	281lbf	281lbf	404.66lbf
Working temperature °C	- 20°C - 60° C	-20°C - 60°C	-20°C - 60°C
Working temperature °F	-4°F - 140°F	-4°F - 140°F	-4°F - 140°F
Standard conveyor speed (m/min)	3 - 50m/min	3 – 50m/min	3 – 50m/min
Standard conveyor speed (ft/min)	10-165ft/min	10-165ft/min	10-165ft/min
Max. conveyor length (m)	30m	30m	30m
Max. conveyor length (ft)	100ft	100ft	100ft
Min. turning radius (mm)	500mm	700mm	700mm
Min. turning radius (inch)	19.685"	27.56"	27.56"
Link spacing (mm)	33.5mm	33.5mm	36.5mm
Link spacing (inch)	1.32"	1.32"	1.437"
Chain weight (plain) (kg/m)	2.0kg/m	2.43kg/m	3.92kg/m
Chain weight (plain) (lb/ft)	1.344lb/ft	1.633lb/ft	2.634lb/ft
Max. weight on conveyor (kg/m)	Up to *65kg/m	Up to *65kg/m	Up to *100kg/m
Max. weight on conveyor (lb/ft)	43.68lb/ft	43.68lb/ft	67.20lb/ft
Item width (mm)	50 – 400mm	80 - 500mm	100 – 600mm
Item width (inch)	2.0 - 15.37"	3.15 – 19.685"	3.93 – 23.63"

# Chain strength and expansion vs. temperature

Temperature °C	Tensile strength factor	Linear expansion %
-20	1.2	-0.4
0	1.1	-0.2
20	1.0	0.1
40	0.9	0.2
60	0.8	0.5
80	0.6	0.8
100	0.5	1.0
120	0.3	1.3

#### Resistance to chemical

FlexMove® components can withstand continuous contact with most chemicals. However, it is recommended to avoid:

Acids with pH less than 4

Bases with pH higher than 9

The following table specifies the resistance of several material used in the conveyor on selected chemicals

## Legend

1 =Very good 2 =Good 3 =Moderate resistance

4 = Not recommended 5 = No data available

Material	Acetal POM	Polyamide PA	High-density Polyethylene HDPE	Thermoplastic Elastomer TPE	Aluminium AL
Acids:					
Acetic acid	3	4	3	-	2
Benzoic acid	3	4	1	-	4
Citric acid	3	2	2	-	2
Chromic acid	4	4	1	-	3
Hydrofluoric acid	4	4	1	-	4
Hydrochloric acid	4	4	1	-	3
Hydro cyanic acid	4	4	2	-	1
Nitric acid	4	4	4	-	3
Phosphoric acid	4	4	1	-	3
Sulphuric acid	4	4	2	1	3
Tartaric acid	3	2	1	-	1
Basic compounds:					
Ammonia	1	2	1	-	2
Calcium hydroxide	1	2	1	-	4
Caustic soda	1	2	1	1	3
Potassium hydroxide	1	2	1	-	4
Salts:					
Potassium bicarbonate	2	2	2	-	1
Potassium permanganate	2	4	2	-	1
Sodium cyanic	2	2	2	-	4
Sodium hydrochloride	3	4	1	-	4
Acid salt	2	3	1	-	-
Basic salt	1	2	1	-	-
Neutral salt	1	2	1	-	-



Today's dynamic business environment requires businesses to constantly evolve all the time with technology and new customer requirements. With this in mind, FlexMove® intelligent transportation system (FITS™) is designed to get the best out of your investment and realize the unlimited potential of your business.

Suitable for all industries, the unique FITS™ employs a side-flexing plastic chain, allowing horizontal turns and elevation changes within a single continuous run, taking flexibility as you know it to a higher level.

#### Chains

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

Note: the table above is valid for temperature range up to 60°C and it is to be considered as guideline only. Furthermore, precautions should be taken when using cleaning agents. If you are in doubt on the material to withstand your special environment, you should go for chemical testing or contact our local distributor.

#### **Friction Coefficient**

Friction coefficients between chain and slide rails are 0.10 – 0.15. the friction coefficients between chain and products are as follow:

Product	Plain Chain
Steel (dry)	0.15-0.25
Steel (lubricated)	0.10-0.15
Glass (dry)	0.15-0.20
Glass (lubricated)	0.10-0.15
Aluminium	0.15-0.25
Plastic	0.15-0.25
Wood and paper	0.15-0.30

#### **Temperature Limits**

This conveyor system can operate continuously in an environment of between - 20°C to 60°C. The conveyor can withstand up to 100°C for a short period (washing, rinsing).

#### **Static Electricity**

The standard plastic materials used for conveyors have low electrical conductivity. So, static electricity can build up in the conveyor. When a conveyor is running under normal environment (20°C and humidity 60%) without load, the static electricity build up should be around the following figures:

Above the drive unit	1800-2500V
Idler end	400-500V
Above the wheel bend	400-500V
Above the straight section	250-350V

With the introduction of anti-static material for slide rail and chain, it shall meet the requirement for electronic industry.

#### Sound Level

Normally, noise level is higher during the run-in period. The noise level should go down after few days of operation. Generally noise level will increase proportionally to the conveyor speed. Typically, the noise level reading in dB should be around the following:

Chain		Conv	veyor Speed M	/min	
Cilalii	5	10	20	30	40
FT	56	58	65	70	-
FH	56	58	65	70	-
FK	56	58	65	70	74
FS	55	59	68	71	75
FM	59	62	70	77	78
FC	62	66	74	81	85
FL	64	68	76	83	87
FU	64	66	75	79	86
FV	64	67	75	80	86
FW	64	68	76	83	87

#### **Chain Tension Calculation**

Calculation is necessary to determine the maximum chain tension on a particular conveyor configuration design, the results are used to decide:

Drive unit capacity
 Tension limit of conveyor chain

For short, light and low speed applications, the tension limit of the chain normally far exceeds the actual requirement of the application. If you are in doubt, always calculate.

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

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

To calculate power, the equation is P = 1/60 (F x V)

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

Duive verit turns	Maximum traction force in Newton (N)											
Drive unit type	FH	FT	FK	FS	FM	FC	FL	FU	FV	FW		
End	180	400	500	500	1250	1250	1250	1250	1250	1250		
Intermediate	-	-	200	200	200	200	200	Nil	Nil	Nil		
Catenary	180	-	500	500	1250	1250	1250	Nil	Nil	Nil		

#### **Chain Tension Limit**

Chain tension limit can be derived from the diagram on the next page. It is dependent on various operating conditions, the actual calculation result should be reduced by service factor. Conveyors with high frequency of start/stop will have a high service factor but this could be reduced by providing a frequency inverter incorporated with start/stop function.

Operating conditions	Service factor
Low speed (<15m/min) & max. 1 start/stop per hour	1.0
Low speed & max. 10 start/stop per hour	1.2
Low speed & max. 20 start/stop per hour	1.4
High speed (>15m/min) & max 20 start/stop per hour	1.6

It is not advisable to operate a conveyor with more than 20 starts/stops per hour. If your application must operate this way, please consult FlexMove®.

#### **Bend Factors**

Bend factors must be considered and calculated at every plain chain. It depends on the angle of the bend  $\alpha$  in radians and friction coefficient  $\mu$  between chain and slide rails. In application when conveyor is dry and clean, the friction coefficient  $\mu$  is close to 0.1.

The bend factor is important to calculate since the frictional force of a plain bend depends not only on the weight of chain and product but also the actual the tension throughout the bend. The result an additional pressure force of the chain towards the conveyor beam directed toward the center of the bend. Since the chain tension varies throughout the conveyor, calculation of this additional pressure force is complicated. The highest values are present at the pulling side of the drive unit and virtually zero at the chain inlet. Using bend factor is the easiest way of including added friction in the plain bend for both horizontal and vertical into the calculation. Always use wheel bend unless for exceptional cases. If using plain bend is a must, the combined plain bends angle should not more than 180°, unless it is for a very short and light application.

Bend type, horizontal or vertical plain bend	Bend factor σ
30°1	.2
45°	1.3
60°1	.4
90°1	.6

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

#### Calculation

FlexMove® chain tension calculation could be simplified as follow:

Divide the conveyor in sections, each containing a straight part and up to the next plain bend (horizontal or vertical). First section should be from the end furthest away from the drive unit.

Wheel bends are considered equivalent to straight section. A conveyor with wheel bend but without plain bend should be considered as one straight section. Calculate the force caused by gravity load of the return chain.

Calculate the forces caused by transport friction, accumulation and gravity in the first section and multiply with bend factor. Repeat the step above on each section of the conveyor until the last section with the drive unit. The result of the calculation indicates the amount of traction force required to move the conveyor.

Traction force, the chain tension is caused by several components such as:

- · Friction between unloaded chain and slide rail for example on the return chain.
- · Friction between loaded chain and slide rails.
- · Friction between accumulating products and top surface of chain.
- Gravity force acting on products and top surface of chain.
- Additional friction in horizontal and vertical bend.

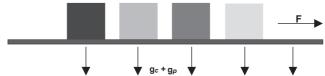
Traction force F requires to move the chain depends on the following factors:

- Conveyor length (L)
- Product gravity load / m, Transport (gp)
- Product gravity load / m, Accumulation (gpa)
- Chain gravity load / m (gc)
- Friction coefficient, chain / slide rail (µc)
- Friction coefficient, chain / products (μp)
- Incline angle (A)
- Bend factor for horizontal plain bend and vertical bend (α)

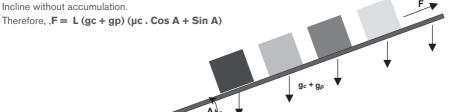
# Diagram A

Horizontal conveyor without accumulation.

Therefore, F = L (gc + gp) m



# Diagram B



# Diagram C

Ilncline with accumulation.

Therefore, , F = L (gc + gp) m + g

#### Note:

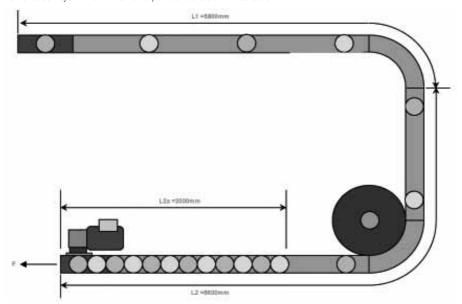
If the traction force exceeds the chain or drive unit capacity, therefore:

<sup>\*</sup>Shorten the conveyor or re-layout if possible.

<sup>\*</sup>Break the conveyor into two conveyor with individual drive unit.

#### **Calculation Example**

Horizontal conveyor with a 90° horizontal plain bend and a 90° wheel bend.



#### **Calculation Data**

Conveyor series = FM

Conveyor speed, V = 10m/min

Start/stop = 15/hour

Total length = 12.4m

Friction coefficient,  $\mu c = 0.1$ 

Friction coefficient, µp = 0.2

Chain weight, gc = 11.8 N/m

Transport product weight, gp (2kg/m) = 19.62 N/m

Accumulation product weight, gpa (14(2kg)/m) = 274.68 N/m

#### Section L1

F1 = [F0 + L1 ( gc + gp )  $\mu$ c] k $\alpha$ 1

= [0+5.8(11.8+19.62)0.1]1.6

= 29.16N

#### Section L2

F2 = F1 + [L2a ( gc + gpa )  $\mu$ c + L2b ( gc + gp )]  $\mu$ c + ( L2a.gpa. $\mu$ p )

= 29.16 + [2(11.8 + 274.68) + 4.6(11.8 + 19.62)]0.1 + (2\*274.68\*0.2)

Ftotal = 210.78 N

## Comparison

The calculation result can now compared with the maximum chain tension for 10m/min is 900N and for 12.4m of conveyor is 1000N. Divide the service fac tor for 15 start/stop of 1.4. so the actual permission chain tension limit is 900/1.4 = 643N

# **Drive Unit Specifications**

# Direct Drive unit

	FK	FS	FM	FC	FL	FU	FV	FW
Number of Teeth on sprocket	16	16	12	12	12	12	12	11
Chain Pitch (mm)	25.4	25.4	33.5	35.5	35.5	33.5	33.5	36.5
Max. Traction force (N)	500	500	1250	1250	1250	1250	1250	1250
Sprocket Diameter (mm)	128	128	128	135	135	135	135	130

Suspended Drive unit

	FK	FS	FM	FC	FL	FU	FV	FW
Number of Teeth on sprocket	16	16	12	12	12	12	12	11
Chain Pitch (mm)	25.4	25.4	33.5	35.5	35.5	33.5	33.5	36.5
Max. Traction force (N)	500	500	1250	1250	1250	1250	1250	Nil
Sprocket Diameter (mm)	128	128	128	135	135	135	135	Nil

## Catenary Drive unit

	FK	FS	FM	FC	FL	FU	FV	FW
Number of Teeth on sprocket	Nil	16	12	12	Nil	Nil	Nil	Nil
Chain Pitch (mm)	Nil	25.4	33.5	35.5	Nil	Nil	Nil	Nil
Max. Traction force (N)	Nil	500	1250	1250	Nil	Nil	Nil	Nil
Sprocket Diameter (mm)	128	128	128	135	Nil	Nil	Nil	Nil

#### Intermediate Drive unit

	FK	FS	FM	FC	FL	FU	FV	FW
Number of Teeth on sprocket	Nil	11	9	9	Nil	Nil	Nil	Nil
Chain Pitch (mm)	Nil	25.4	33.5	35.5	Nil	Nil	Nil	Nil
Max. Traction force (N)	Nil	200	200	200	Nil	Nil	Nil	Nil
Sprocket Diameter (mm)	88	88	98	101	101	Nil	Nil	Nil

#### Wheel Drive unit

	FK	FS	FM	FC	FL	FU	FV	FW
Number of Teeth on sprocket	300	300	320	340	Nil	Nil	Nil	Nil
Chain Pitch (mm)	25.4	25.4	33.5	35.5	Nil	Nil	Nil	Nil
Max. Traction force (N)	200	200	200	200	Nil	Nil	Nil	Nil
Sprocket Diameter (mm)	273	273	277	272	Nil	Nil	Nil	Nil

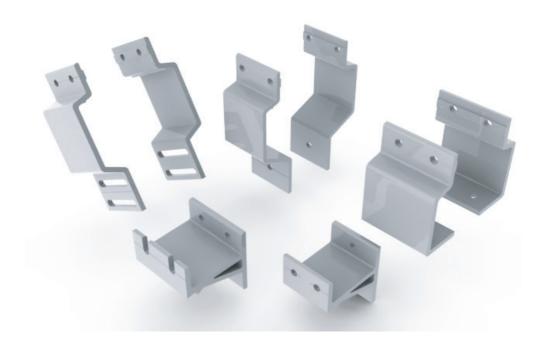
Infinite

Cost Effective

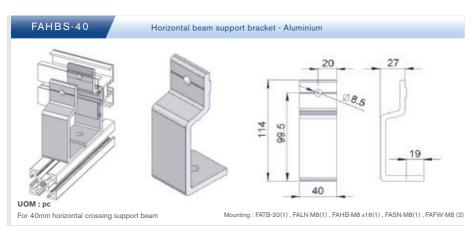
**Improved** 

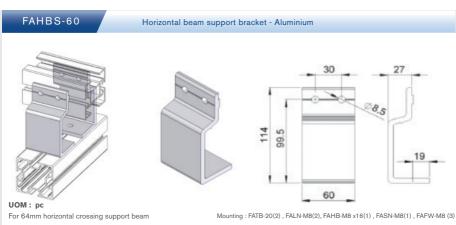
Low Friction

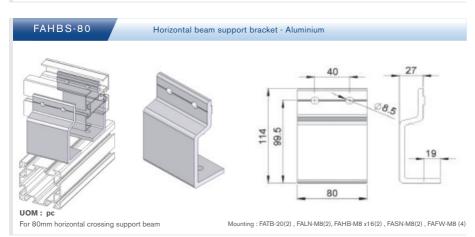


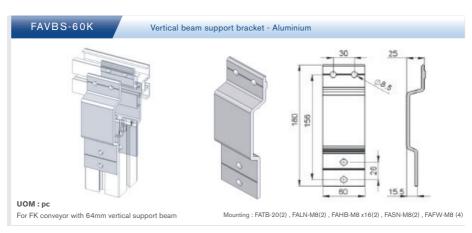


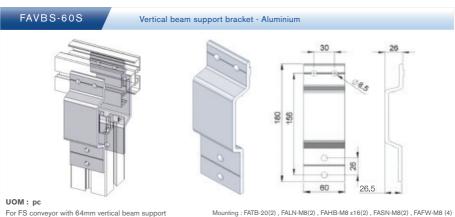
## **FA** SERIES

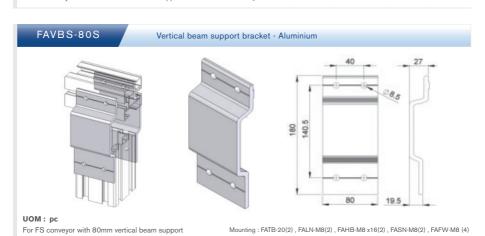


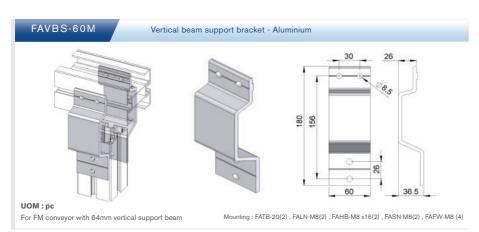


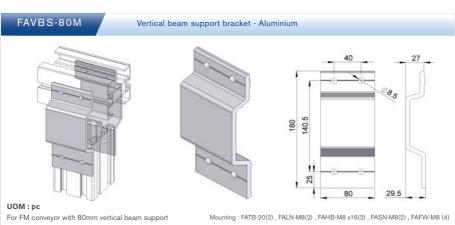


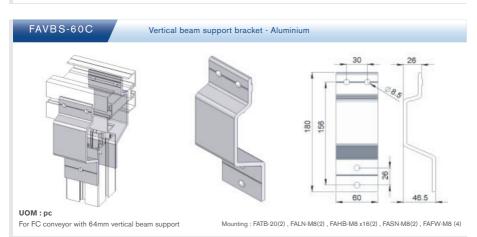








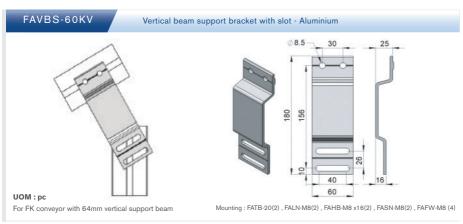


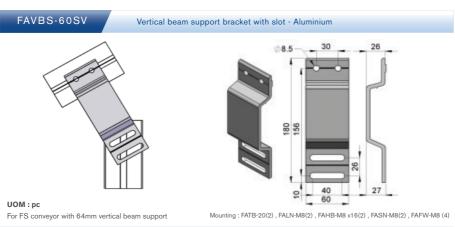


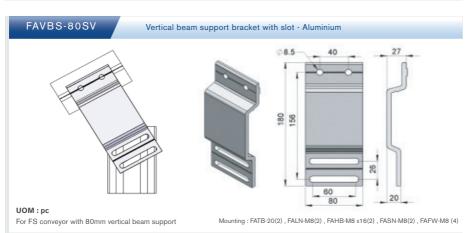
## FAVBS-80C Vertical beam support bracket - Aluminium 40 8.50 8.50 UOM: pc For FC conveyor with 80mm vertical beam support Mounting: FATB-20(2), FALN-MB(2), FAHB-MB x16(2), FASN-MB(2), FAFW-MB (4)

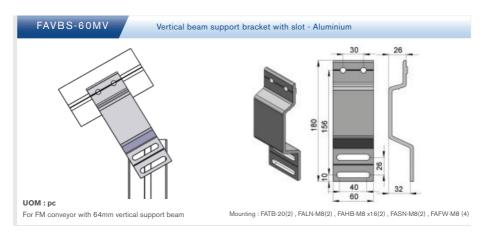


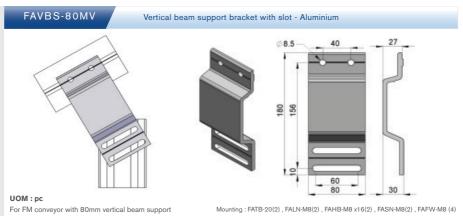


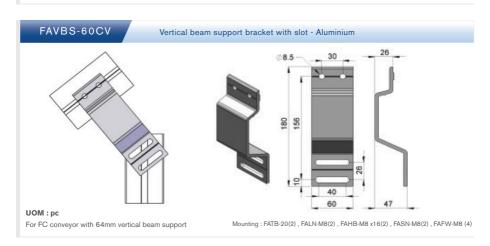






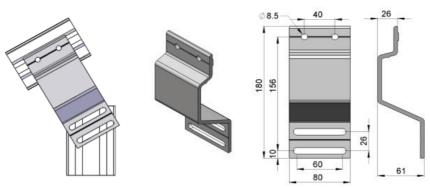






## FAVBS-80LV

### Vertical beam support bracket - Aluminium



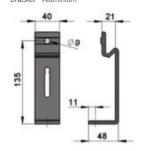
UOM:pc

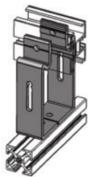
For FL conveyor with 80mm vertical beam support

Mounting: FATB-20(2), FALN-M8(2), FAHB-M8 x16(2), FASN-M8(2), FAFW-M8 (4)

## FAHBS-40x135

Horizontal beam support bracket - Aluminium

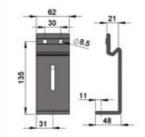


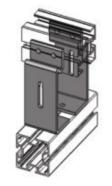


UOM: pc For 40mm horizontal crossing support beam

## FAHBS-62x135

Horizontal beam support bracket - Aluminium

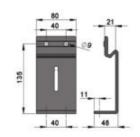


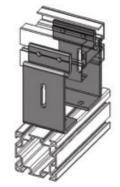


UOM: pc For 64mm horizontal crossing support beam

## FAHBS-80x135

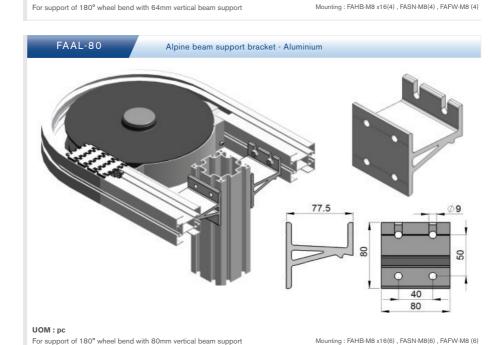
Horizontal beam support bracket - Aluminium

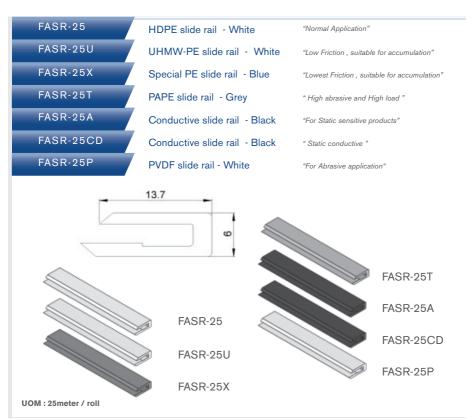


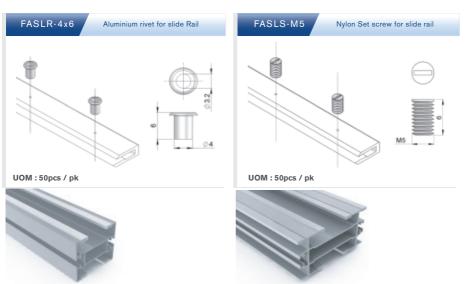


UOM: pc For 80mm horizontal crossing support beam

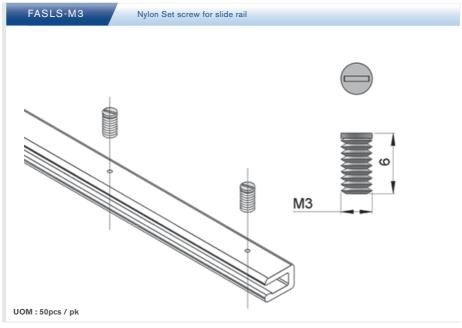
# FAAL-64 Alpine beam support bracket - Aluminium

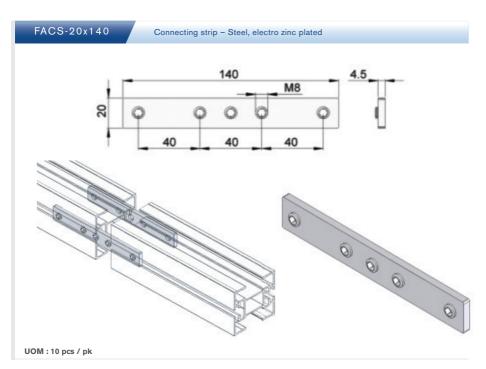


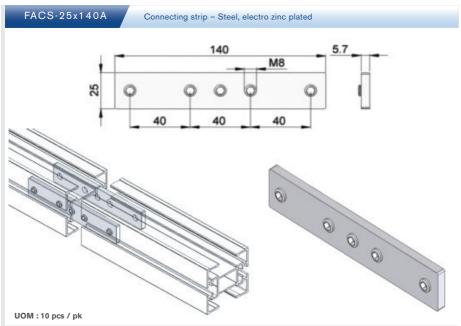


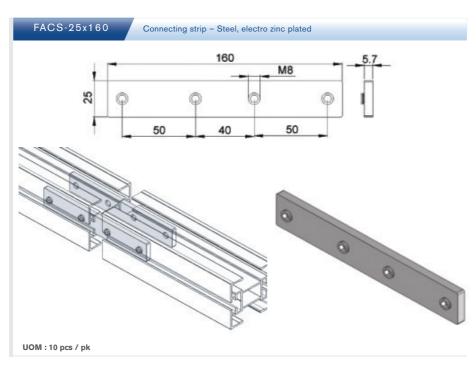


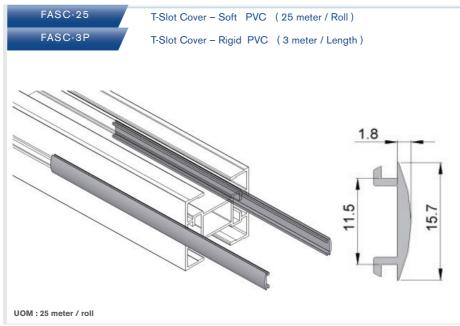


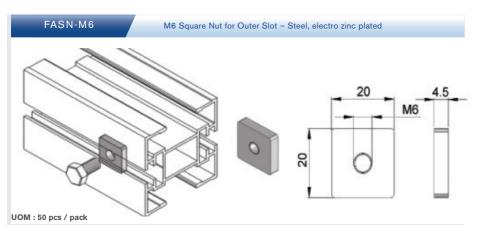


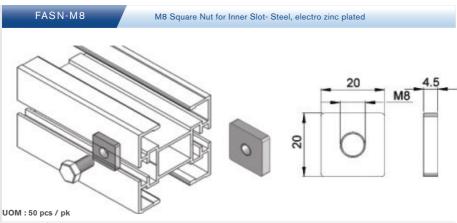


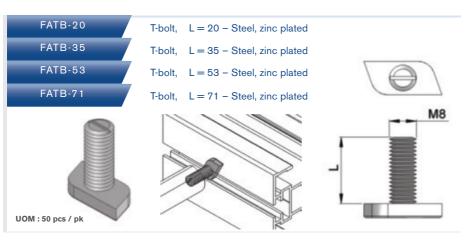


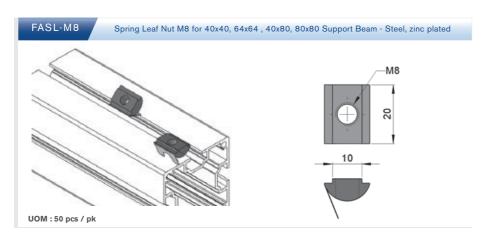


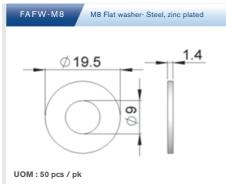








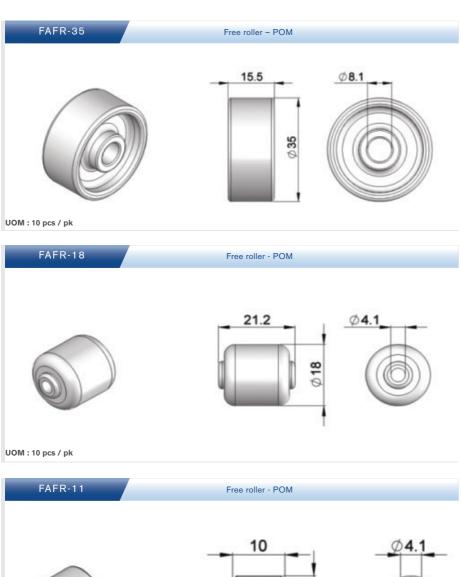


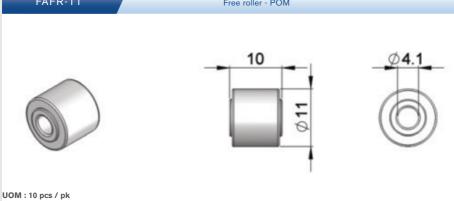


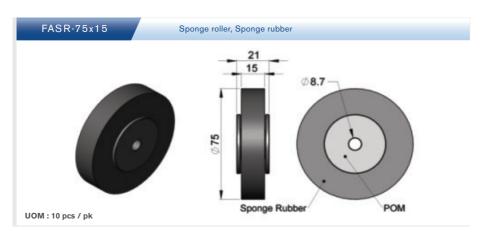


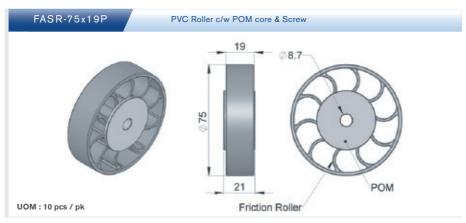


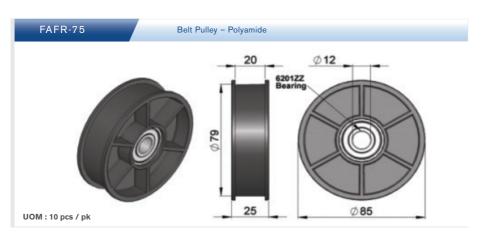


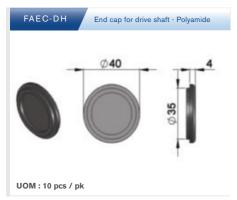












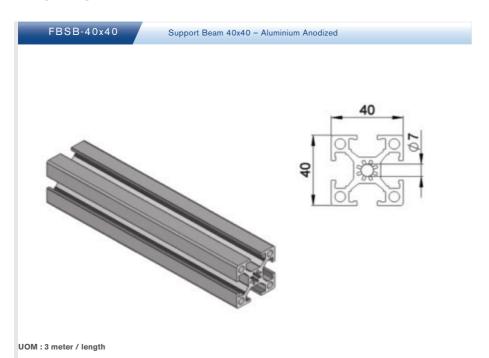


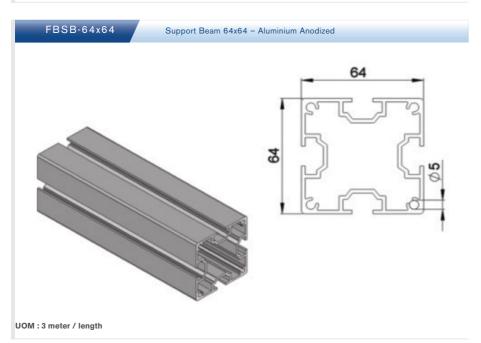


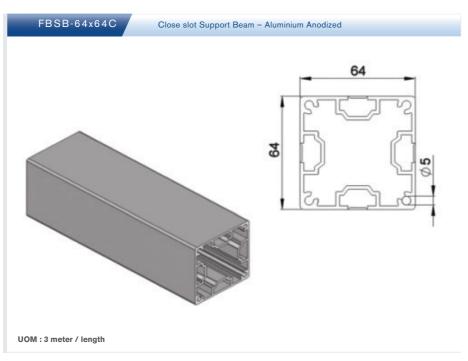


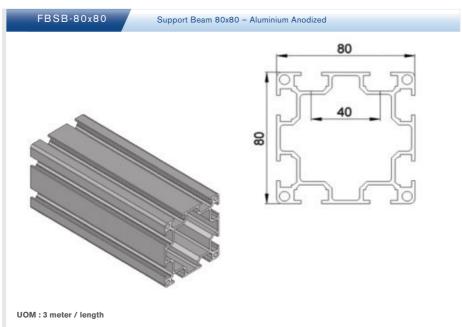


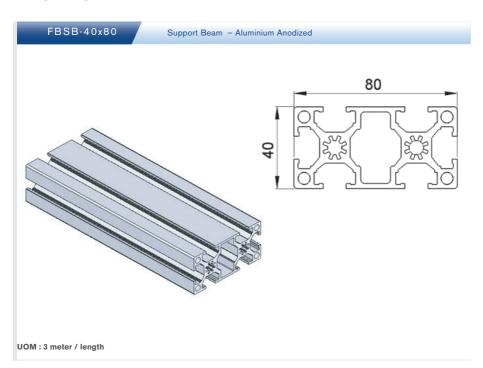


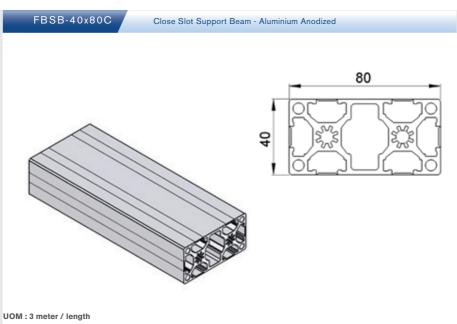




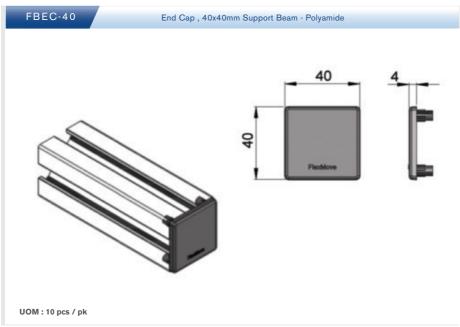


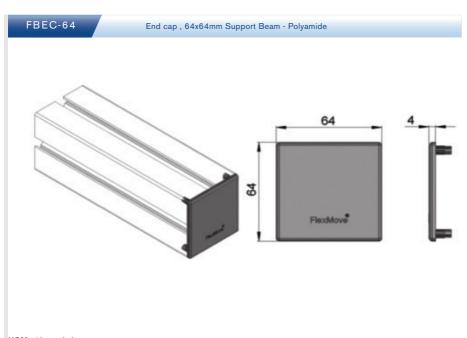




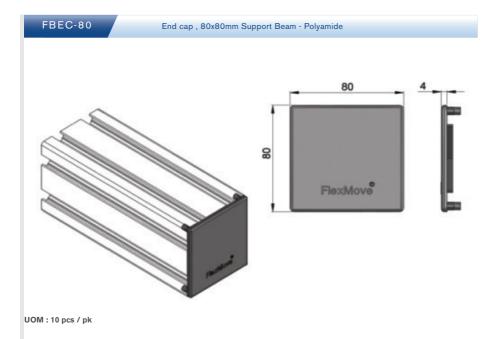




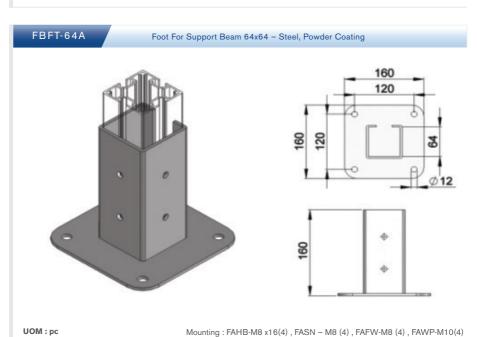


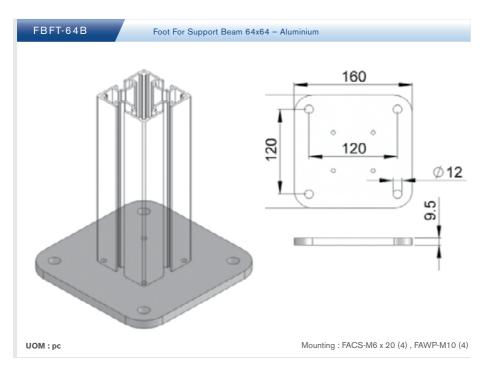


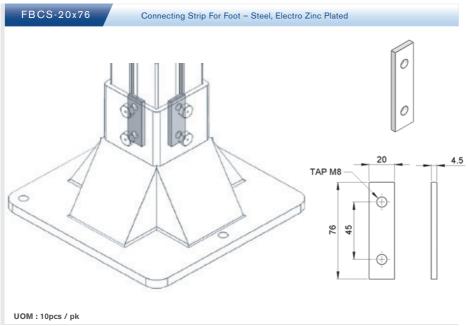
UOM: 10 pcs / pk

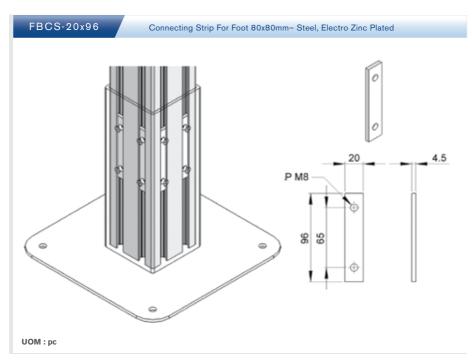


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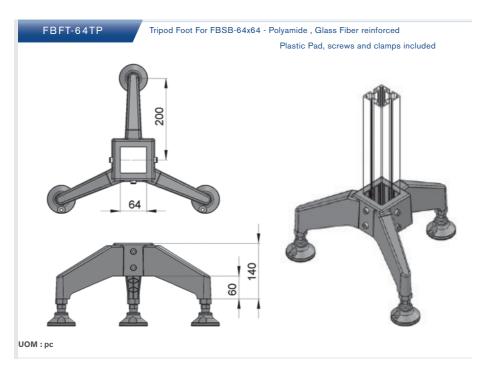


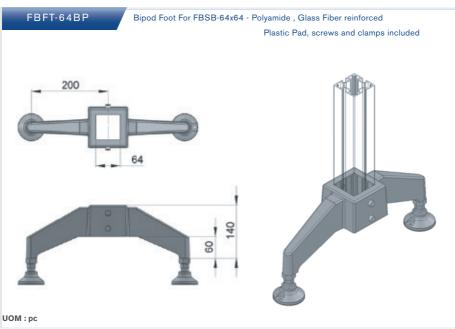


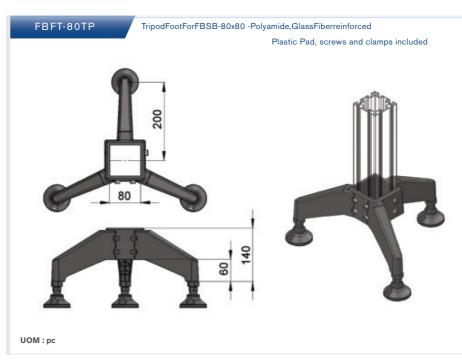


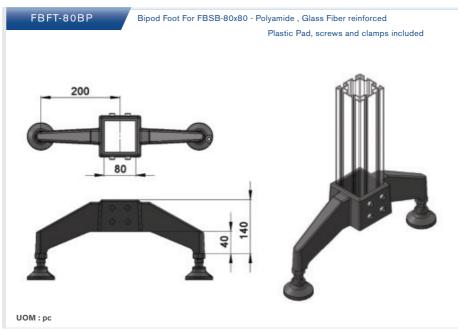


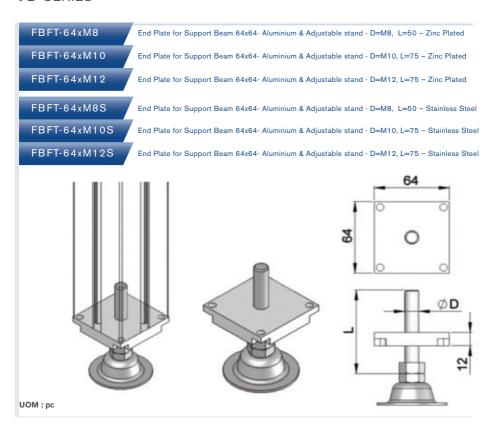


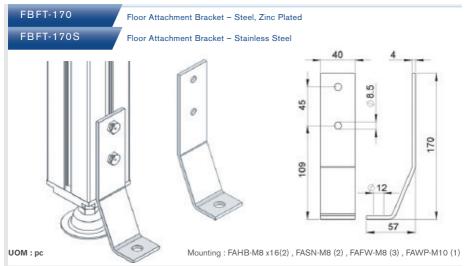


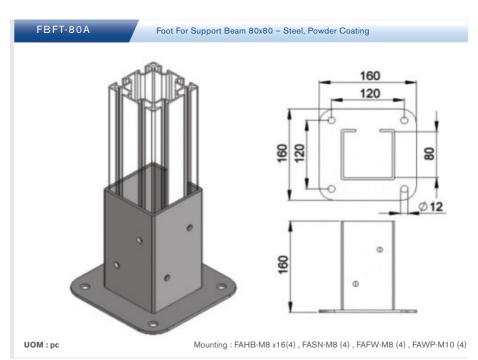


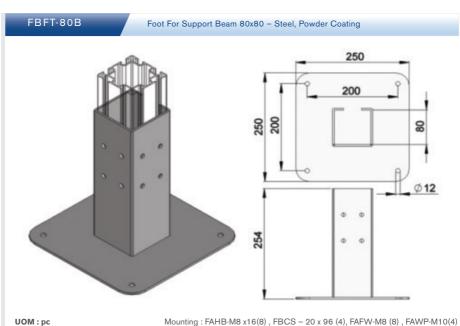


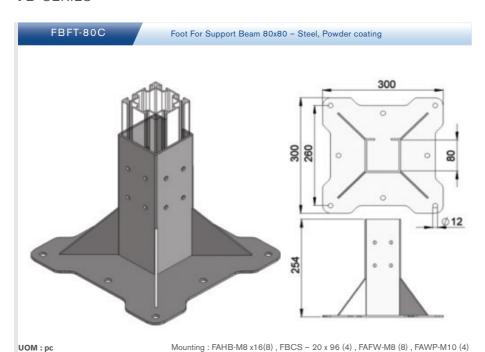


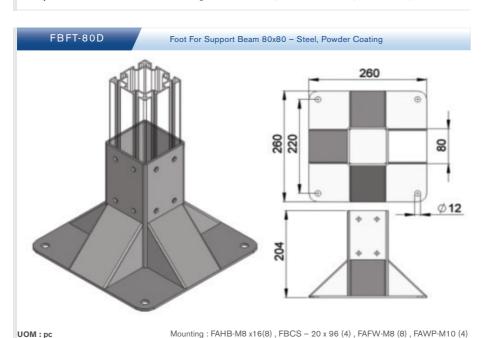


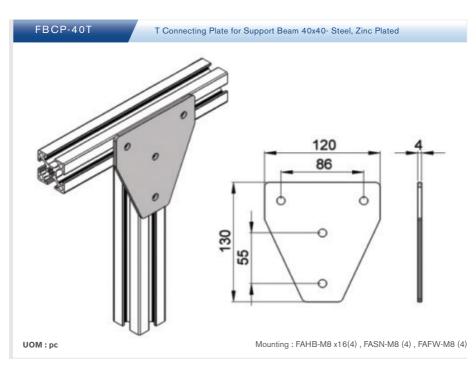


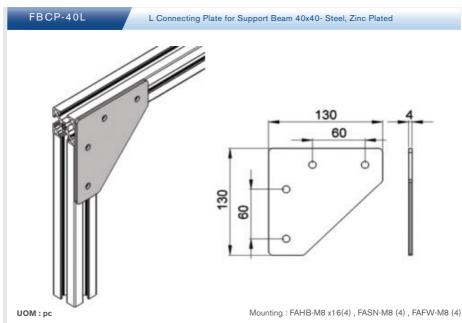


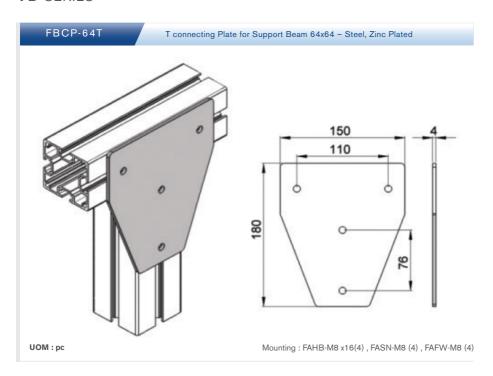


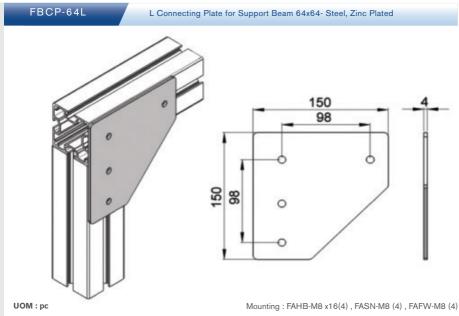


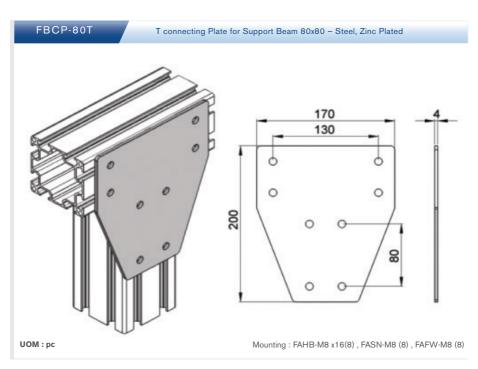


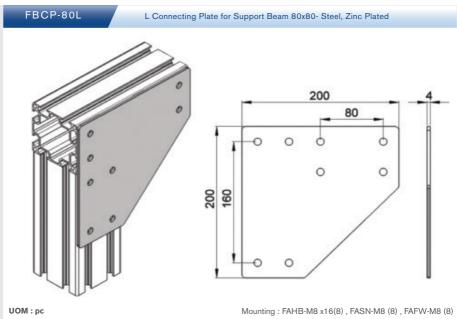


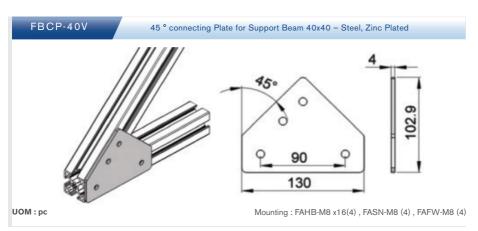


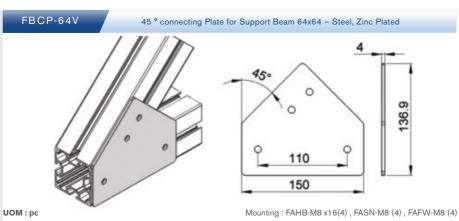


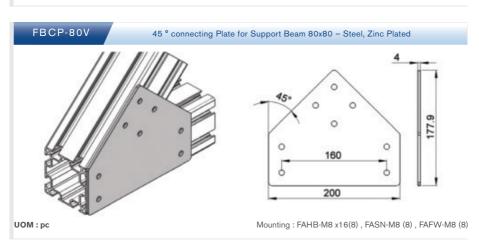


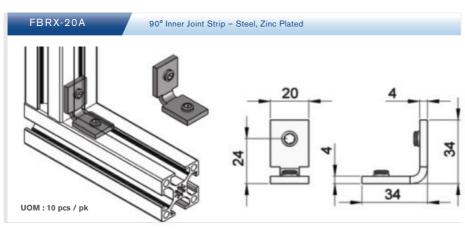


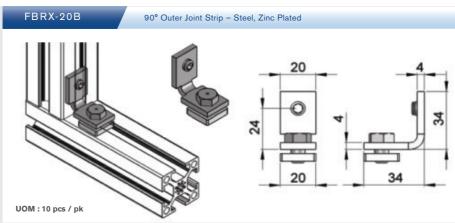


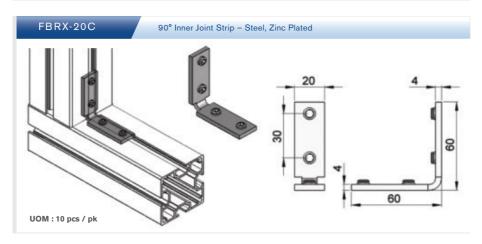


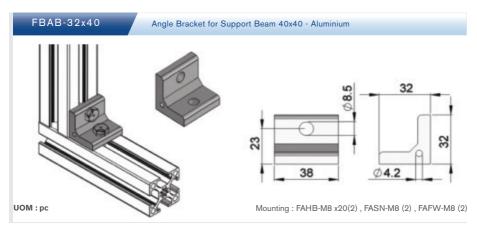




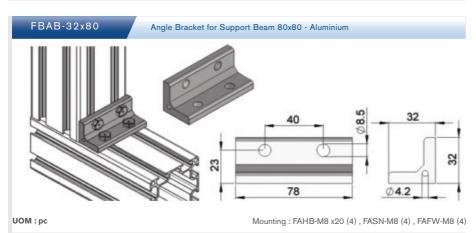


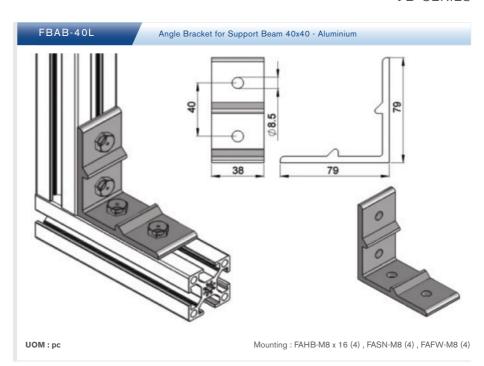


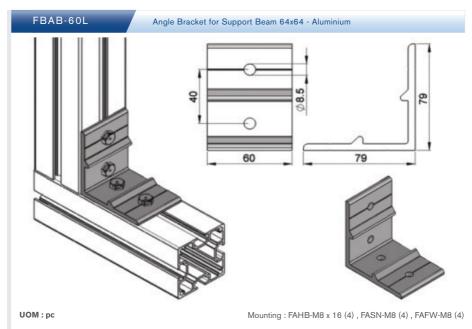


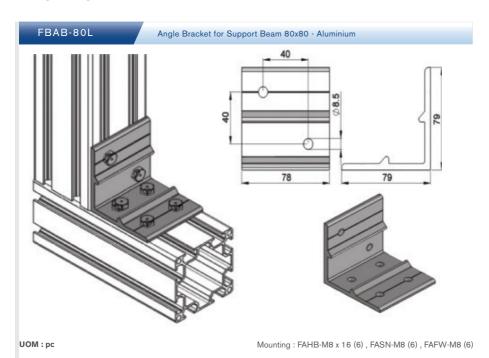


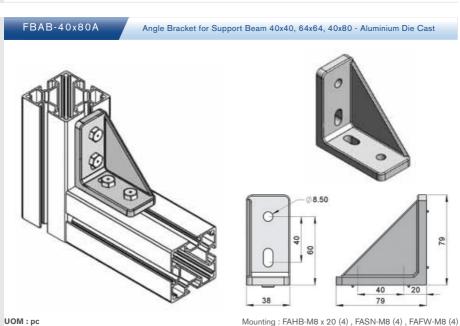


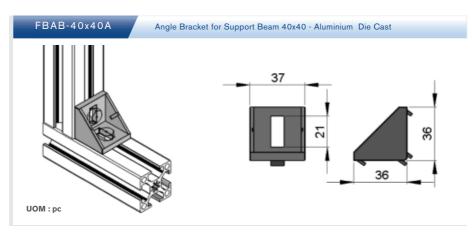


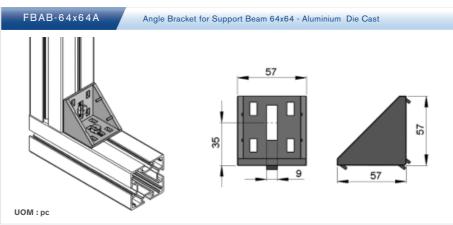


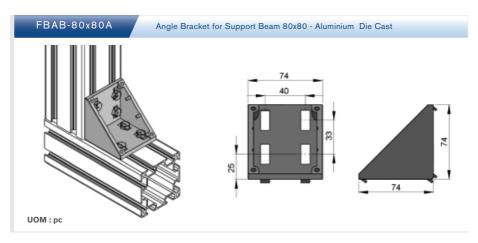






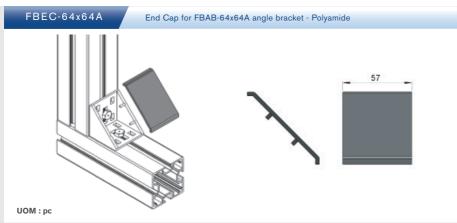


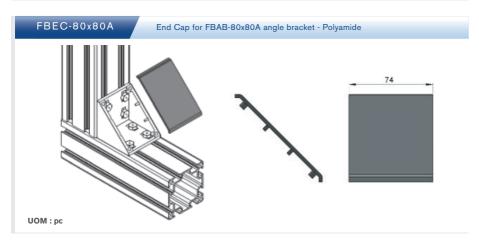


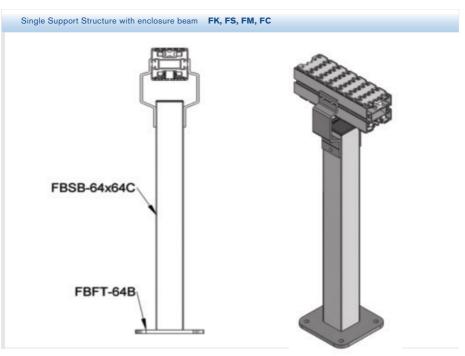


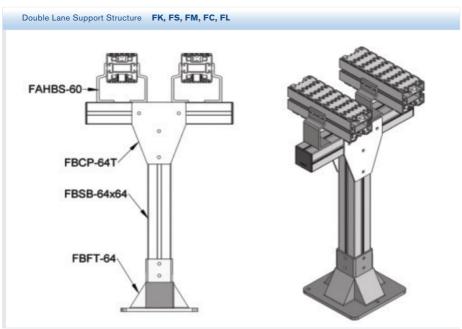
#### **FB** SERIES



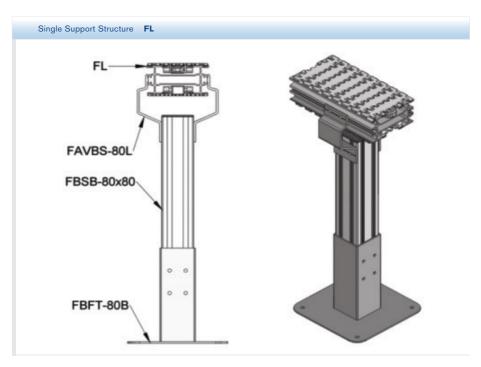


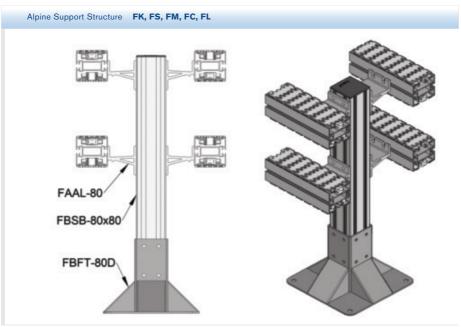


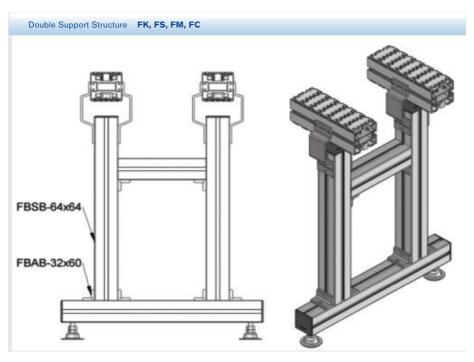


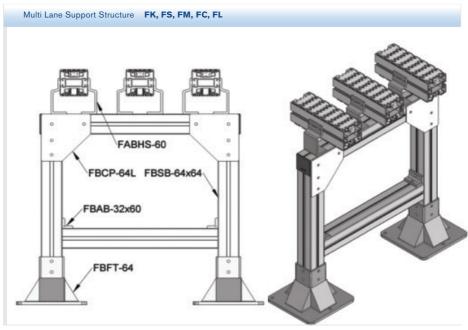


# Conveyor Support Structure

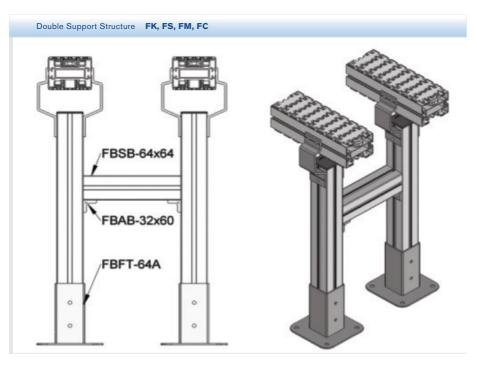


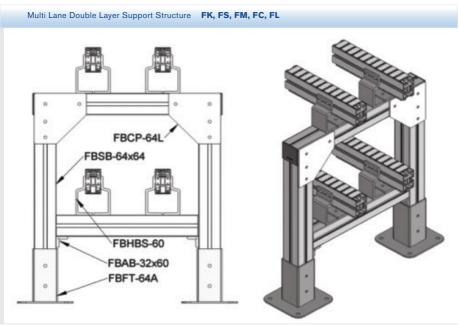


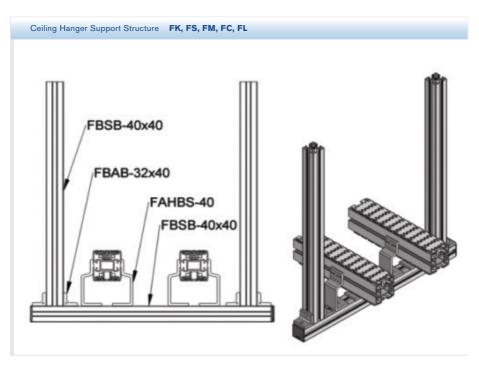


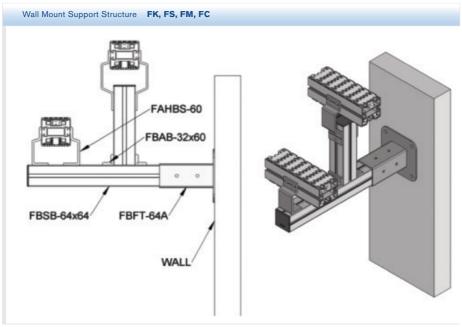


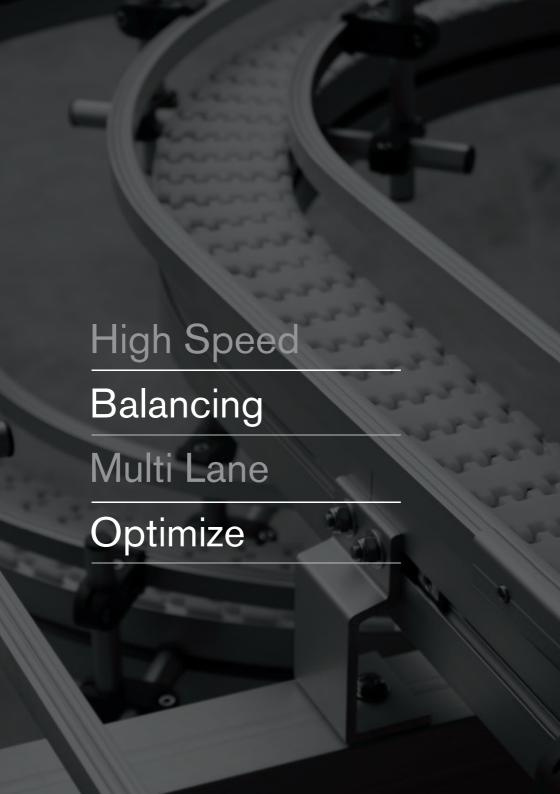
# Conveyor Support Structure



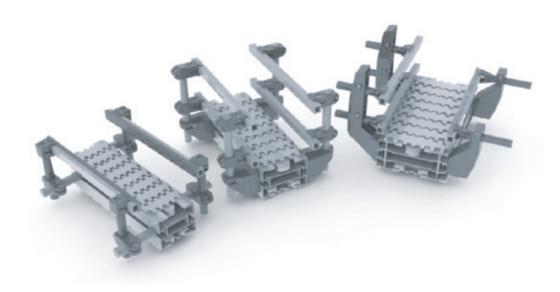


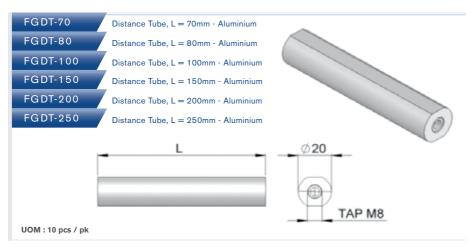


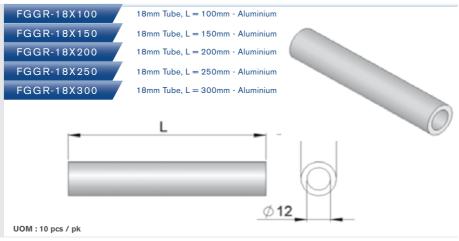


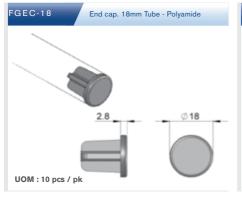


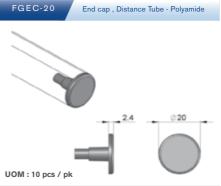




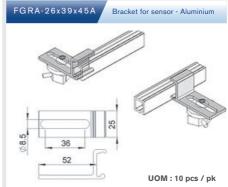


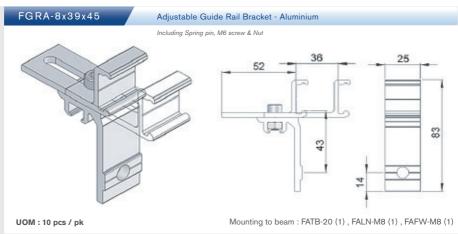


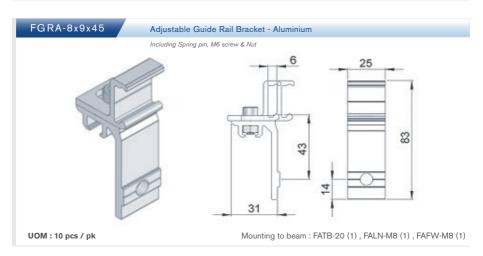


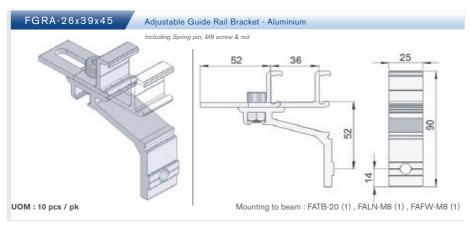


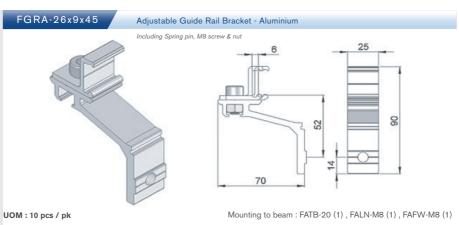


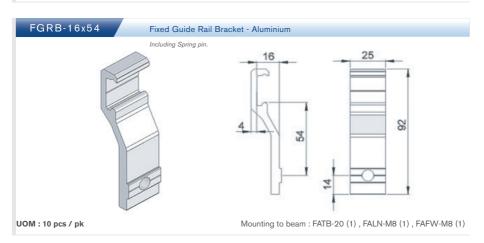


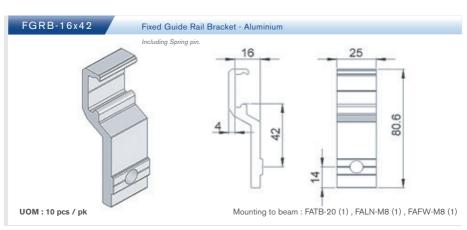


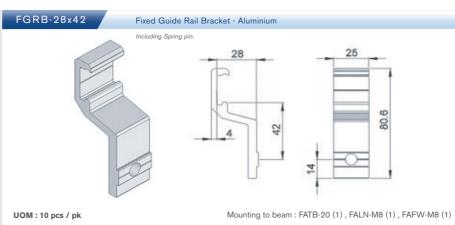


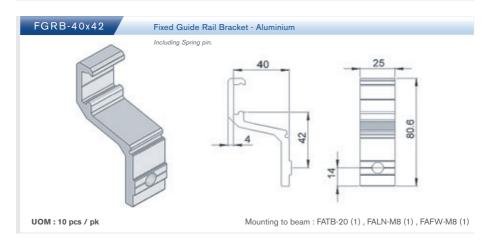


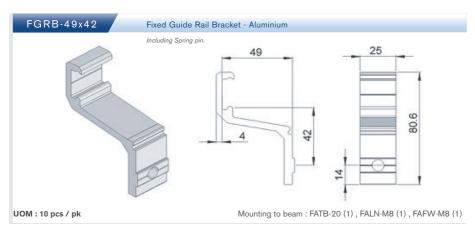


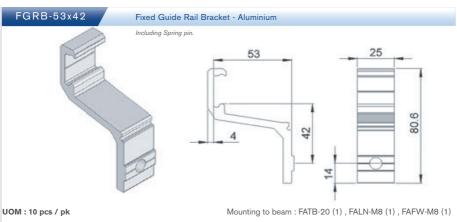


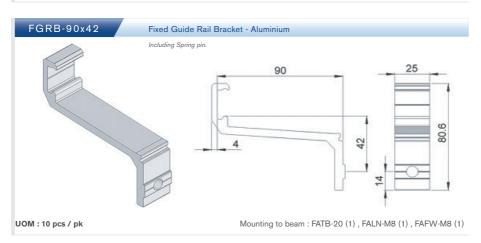


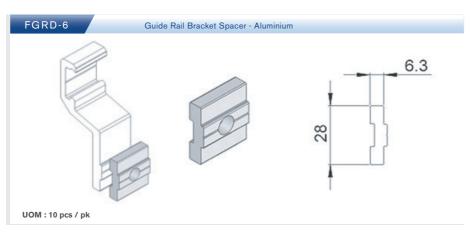






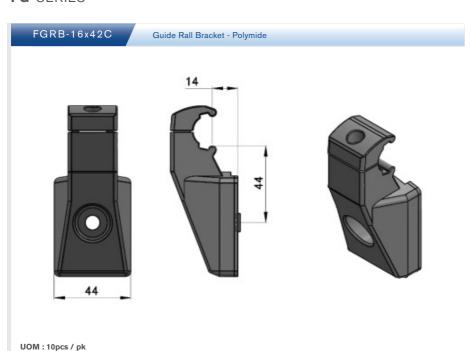


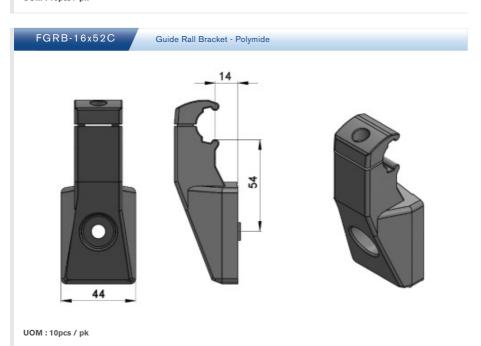






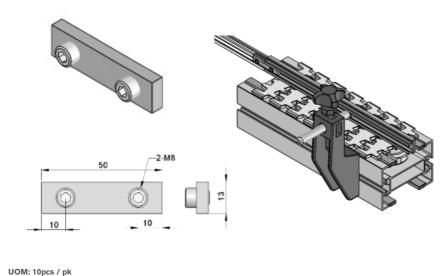






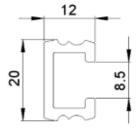
# FGCS-13x50

Connecting Strip for FGRR-12x20 - Steel, electro zinc plated

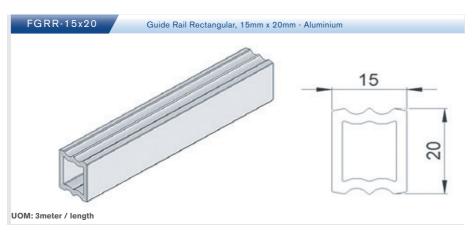


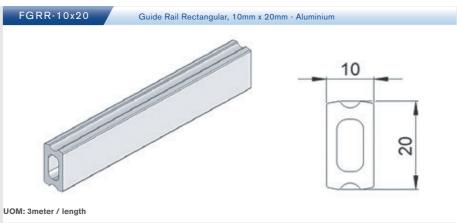
# FGRR-12X20

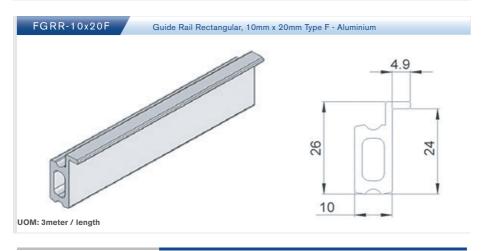


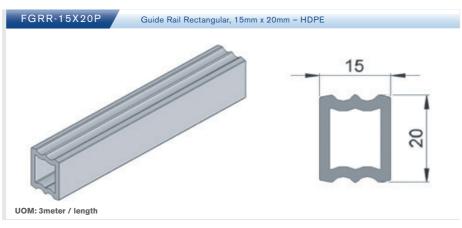


UOM: 3meter / length



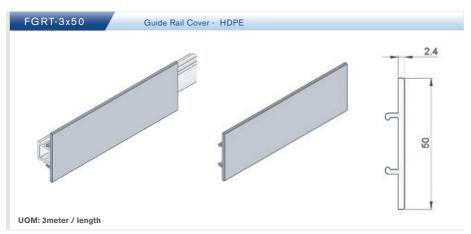


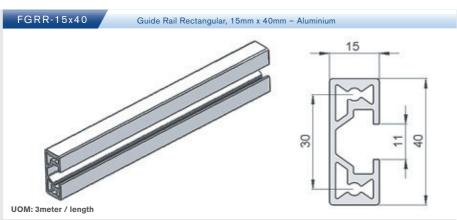


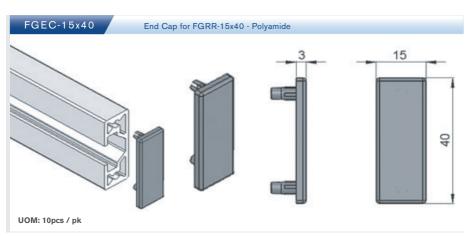


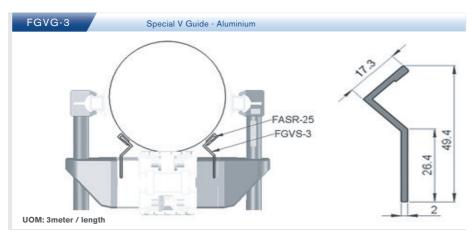


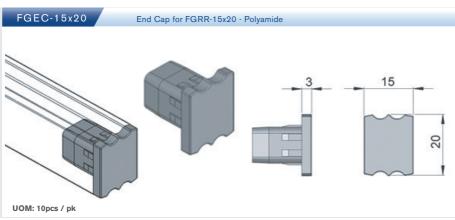


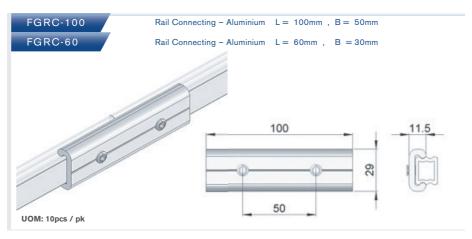




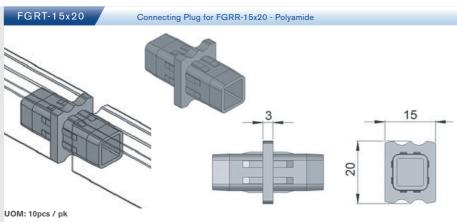


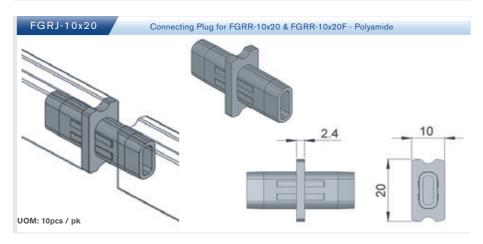


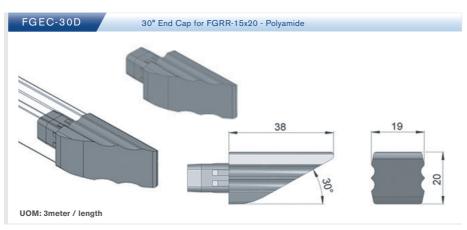


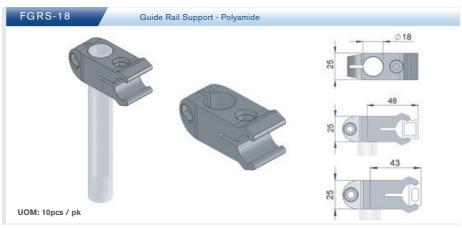


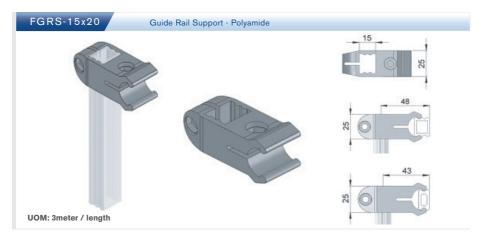


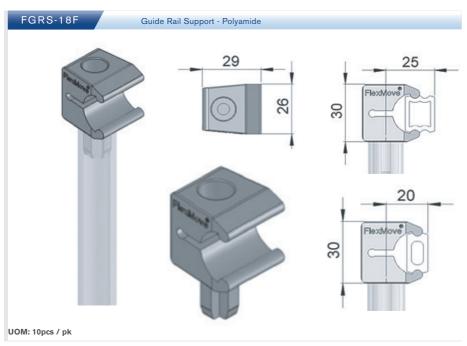


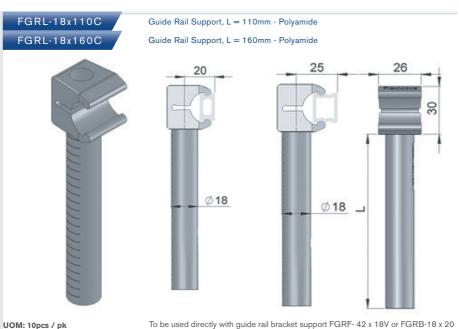








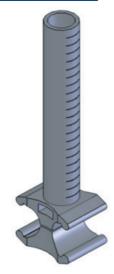


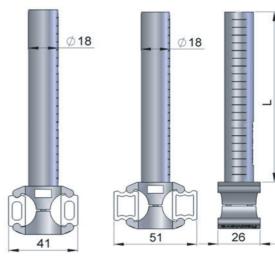




Double Guide Rail Support, L = 110mm - Polyamide

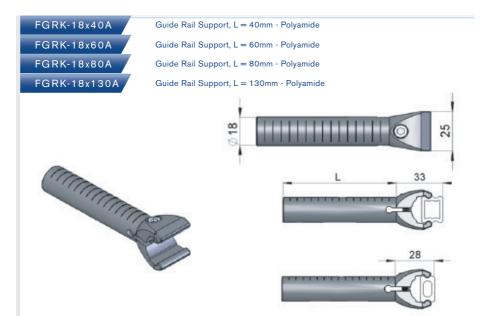
Double Guide Rail Support, L = 160mm - Polyamide





UOM: 10pcs / pk

Suitable for use with cross connector FGRB-18 x18 and a crossing 18 mm aluminum tube above the double track.



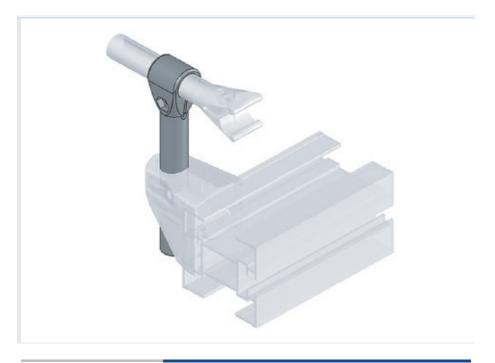
UOM: 10pcs / pk

Suitable for use with cross connector FGRB-18 x18 and FGRF - 42 x 18V

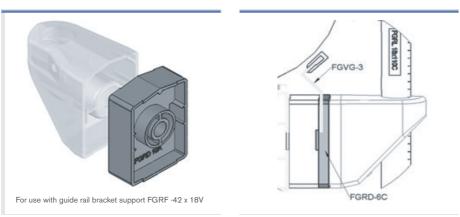


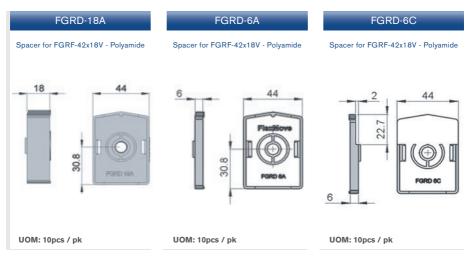
UOM: 10pcs / pk

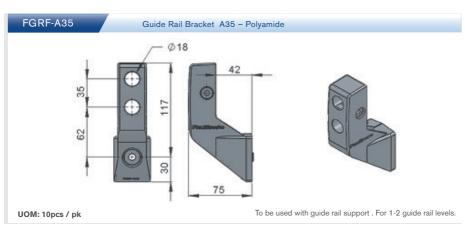
Suitable for use with cross connector FGRK - 18 x 80 / 130 / 40A / 60A / 80A / 130A

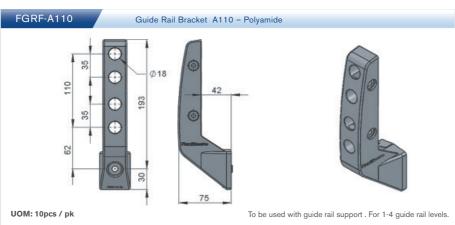


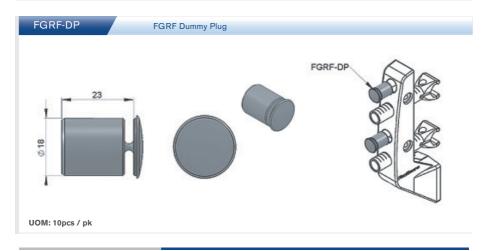
# FGRF-42x18V Guide Rail Bracket - Polyamide 57.8 018 18 18 10 be used with: - FGGR-18 x \* 100 - FGRL-18 x 110C / 160C - FGRC-18 x 110C / 160C

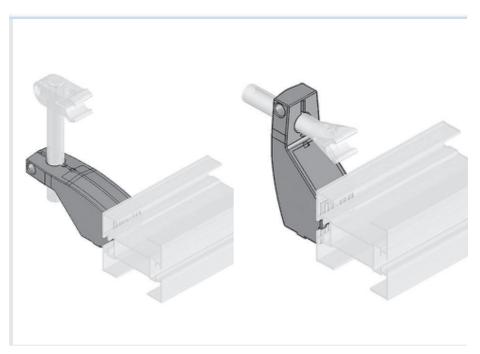


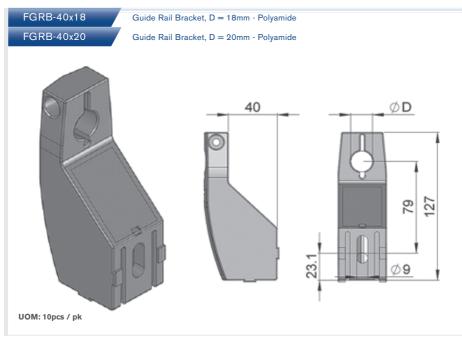


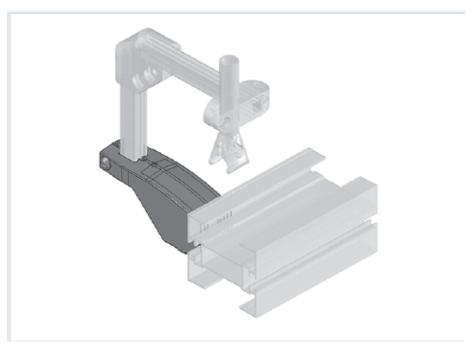


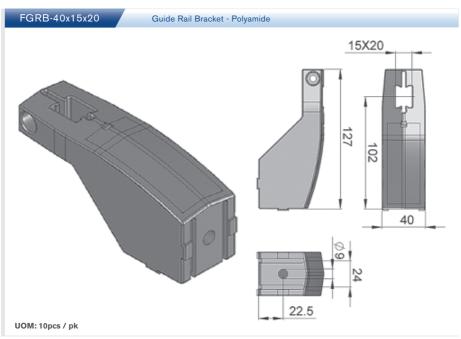


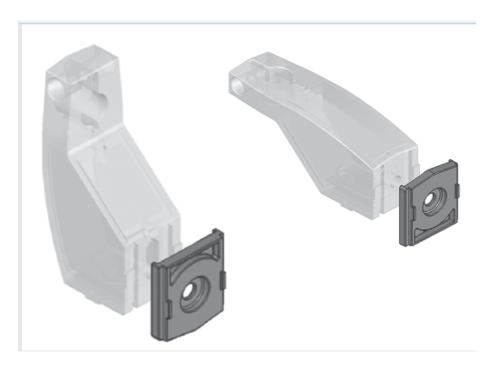






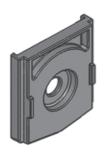


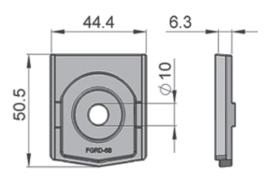




# FGRB-6B

Spacer for FGRB-40x ## - Polyamide



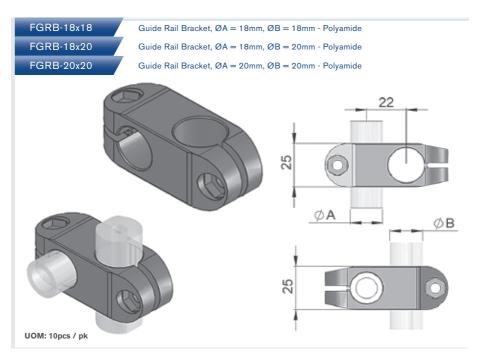


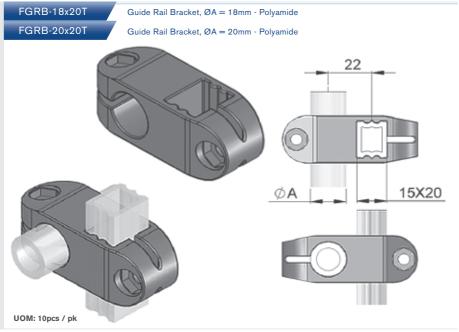
For use with guide rail bracket support:

FGRB - 40 x 18 / 20

FGRB - 40 x 15 x 20

UOM: 10pcs / pk







FGRX-18x18

FGRX-20x20

90° Corner Connector, ØA = 18mm, ØB = 18mm - Polyamide

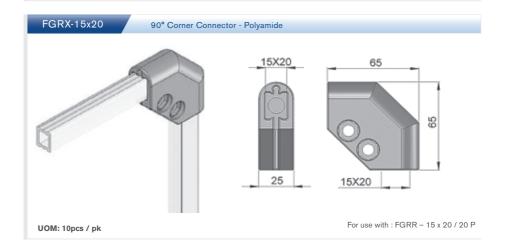
90° Corner Connector, ØA = 20mm, ØB = 20mm - Polyamide

65

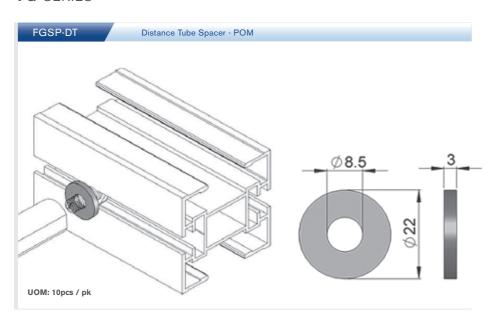
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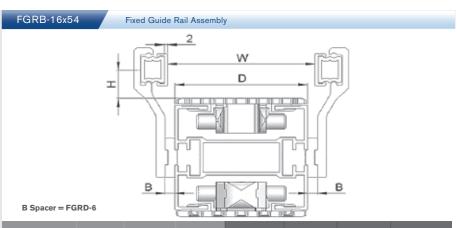
For use with: FGGR - 18 x 100 / 150 / 200 / 250 / 300

FGDT - 70 / 80 / 100 / 150 / 200 / 250

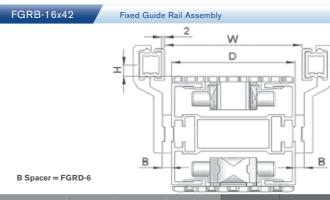


UOM: 10pcs / pk

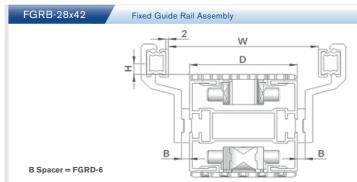




Guide Rail Bracket	Series	D (mm)	H (mm)	W (mm) B = 0	W (mm) B = 6.3	W (mm) B = 12.6	W (mm) B = 18.9
FGRB-16X54	FK	45	26	41.7	54.3	66.9	79.5
FGRB-16X54	FS	65	26	61.7	74.3	86.9	99.5
FGRB-16X54	FM	85	20	81.7	94.3	106.9	119.5
FGRB-16X54	FC	105	20	101.7	114.3	126.9	139.5
FGRB-16X54	FL	150	20	146.7	159.3	171.9	184.5



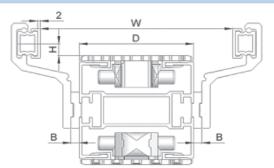
Guide Rail Bracket	Series	D (mm)	H (mm)	W (mm) B = 0	W (mm) B = 6.3	W (mm) B = 12.6	W (mm) B = 18.9
FGRB-16X42	FK	45	14	41.7	54.3	66.9	79.5
FGRB-16X42	FS	65	14	61.7	74.3	86.9	99.5
FGRB-16X42	FM	85	8	-	94.3	106.9	119.5
FGRB-16X42	FC	105	8	-	114.3	126.9	139.5
FGRB-16X42	FL	150	8	-	159.3	171.9	184.5



Guide Rail Bracket	Series	D (mm)	H (mm)	W (mm) B = 0	W (mm) B = 6.3	W (mm) B = 12.6	W (mm) B = 18.9
FGRB-28X42	FK	45	14	65.8	78.4	91	103.6
FGRB-28X42	FS	65	14	85.8	98.4	111	123.6
FGRB-28X42	FM	85	8	105.8	118.4	131	143.6
FGRB-28X42	FC	105	8	125.8	138.4	151	163.6
FGRB-28X42	FL	150	8	170.8	183.4	196	208.6

### FGRB-40x42

### Fixed Guide Rail Assembly

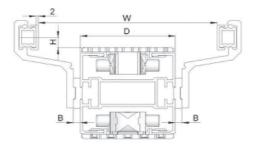


B Spacer = FGRD-6

Guide Rail Bracket	Series	D (mm)	H (mm)	W (mm) B = 0	W (mm) B = 6.3	W (mm) B = 12.6	W (mm) B = 18.9
FGRB-40X42	FK	45	14	90.6	103.2	115.8	128.4
FGRB-40X42	FS	65	14	110.6	123.2	135.8	148.4
FGRB-40X42	FM	85	8	130.6	143.2	155.8	168.4
FGRB-40X42	FC	105	8	150.6	163.2	175.8	188.4
FGRB-40X42	FL	150	8	195.6	163.2	220.8	233.4

### FGRB-49x42

### Fixed Guide Rail Assembly

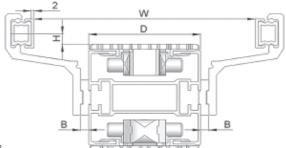


B Spacer = FGRD-6

Guide Rail Bracket	Series	D (mm)	H (mm)	W (mm) B = 0	W (mm) B = 6.3	W (mm) B = 12.6	W (mm) B = 18.9
FGRB-49X42	FK	45	14	107.8	120.4	133	145.6
FGRB-49X42	FS	65	14	127.8	140.4	153	165.6
FGRB-49X42	FM	85	8	147.8	160.4	173	185.6
FGRB-49X42	FC	105	8	167.8	180.4	193	205.6
FGRB-49X42	FL	150	8	212.8	225.4	238	250.6

### FGRB-53x42

### Fixed Guide Rail Assembly

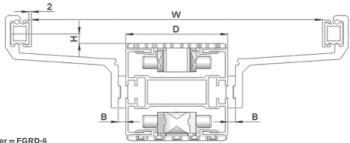


B Spacer = FGRD-6

Guide Rail Bracket	Series	D (mm)	H (mm)	W (mm) B = 0	W (mm) B = 6.3	W (mm) B = 12.6	W (mm) B = 18.9
FGRB-53X42	FK	45	14	115.7	128.3	140.9	153.5
FGRB-53X42	FS	65	14	135.7	148.3	160.9	173.5
FGRB-53X42	FM	85	8	155.7	168.3	180.9	193.5
FGRB-53X42	FC	105	8	175.7	188.3	200.9	213.5
FGRB-53X42	FL	150	8	220.7	233.3	245.9	258.5

### FGRB-90x42

### Fixed Guide Rail Assembly

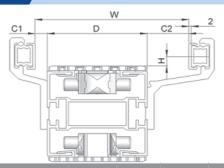


B Spacer = FGRD-6

Guide Rail Bracket	Series	D (mm)	H (mm)	W (mm) B = 0	W (mm) B = 6.3	W (mm) B = 12.6	W (mm) B = 18.9
FGRB-90X42	FK	45	14	190.3	202.9	215.5	228.1
FGRB-90X42	FS	65	14	210.3	222.9	235.5	248.1
FGRB-90X42	FM	85	8	230.3	242.9	255.5	268.1
FGRB-90X42	FC	105	8	250.3	262.9	275.5	288.1
FGRB-90X42	FL	150	8	295.3	307.9	320.5	333.1

### FGRB Mixed Guide Rail

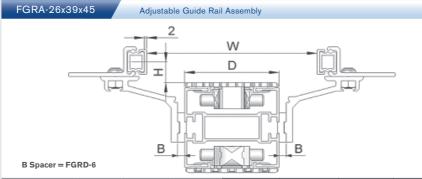
### Mixed Guide Rail Assembly



Guide Rail Bkt Left	C1 (mm)	Guide Rail Bkt Right	C2 (mm)	Series	D (mm)	H (mm)	W (mm) D + C1 + C2
FGRB-28X42	10.4	FGRB-40X42	22.8	FK	45	14	78.2
FGRB-28X42	10.4	FGRB-40X42	31.4	FK	45	14	86.8
FGRB-28X42	10.4	FGRB-53X42	35.3	FK	45	14	90.7
FGRB-28X42	10.4	FGRB-90X42	72.4	FK	45	14	127.8
FGRB-28X42	10.4	FGRB-40X42	22.8	FS	65	14	98.2
FGRB-28X42	10.4	FGRB-40X42	31.4	FS	65	14	106.8
FGRB-28X42	10.4	FGRB-53X42	35.3	FS	65	14	110.7
FGRB-28X42	10.4	FGRB-90X42	72.4	FS	65	14	147.8
FGRB-28X42	10.4	FGRB-40X42	22.8	FM	85	8	118.2
FGRB-28X42	10.4	FGRB-40X42	31.4	FM	85	8	126.8
FGRB-28X42	10.4	FGRB-53X42	35.3	FM	85	8	130.7
FGRB-28X42	10.4	FGRB-90X42	72.4	FM	85	8	167.8
FGRB-28X42	10.4	FGRB-40X42	22.8	FC	105	8	138.2
FGRB-28X42	10.4	FGRB-40X42	31.4	FC	105	8	146.8
FGRB-28X42	10.4	FGRB-53X42	35.3	FC	105	8	150.7
FGRB-28X42	10.4	FGRB-90X42	72.4	FC	105	8	187.8
FGRB-28X42	10.4	FGRB-40X42	22.8	FL	150	8	183.2
FGRB-28X42	10.4	FGRB-40X42	31.4	FL	150	8	191.8
FGRB-28X42	10.4	FGRB-53X42	35.3	FL	150	8	195.7
FGRB-28X42	10.4	FGRB-90X42	72.4	FL	150	8	232.8

### FGRA-8x39x45 Adjustable Guide Rail Assembly D W B Spacer = FGRD-6

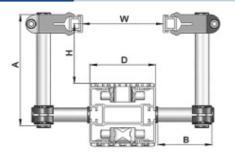
Guide Rail Bracket	Series	D (mm)	H (mm)	W (mm) min B = 0	W (mm) max B = 0	W (mm) min B = 6.3	W (mm) max B = 6.3
FGRA-8x39x45	FK	45	17	0	12.2	0	24.8
FGRA-8x39x45	FS	65	17	0	32.2	0	44.8
Guide Rail Bracket	Series	D (mm)	H (mm)	W (mm) min B = 12.6	W (mm) max B = 12.6	W (mm) min B = 18.9	W (mm) max B = 18.9
FGRA-8x39x45	FM	85	11	86	90	86	102.6
FGRA-8x39x45	FC	105	11	106	110	106	122.6
FGRA-8x39x45	FL	150	11	156	155	156	167.6



Guide Rail Bracket	Series	D (mm)	H (mm)	W (mm) min B = 0	W (mm) max B = 0	W (mm) min B = 6.3	W (mm) max B = 6.3
FGRA-26x39x45	FK	45	24	28.8	100.8	41.4	113.4
FGRA-26x39x45	FS	65	24	48.8	120.8	61.4	133.4
FGRA-26x39x45	FM	85	18	68.8	140.8	81.4	153.4
FGRA-26x39x45	FC	105	18	88.8	160.8	101.4	173.4
FGRA-26x39x45	FL	150	18	133.8	205.8	146.4	218.4

### FGRS-18 & FGDT- & FGRR-

### Guide Rail Assembly



A (mm)	Series	D (mm)	H (mm) Min	H (mm) Max
FGRR-100	FK	45	17	35
FGRR-100	FS	65	17	35
FGRR-100	FM	85	17	35
FGRR-100	FC	105	17	30
FGRR-100	FL	150	17	30

B (mm)	Series	D (mm)	W (mm) Min	W (mm) Max
FGDT-70	FK	45	0	65
FGDT-70	FS	65	0	85
FGDT-70	FM	85	16	105
FGDT-70	FC	105	36	125
FGDT-70	FL	150	81	170

A (mm)	Series	D (mm)	H (mm) Min	H (mm) Max
FGRR-150	FK	45	17	85
FGRR-150	FS	65	17	85
FGRR-150	FM	85	17	80
FGRR-150	FC	105	17	80
FGRR-150	FL	150	17	80

B (mm)	Series	D (mm)	W (mm) Min	W (mm) Max
FGDT-100	FK	45	0	125
FGDT-100	FS	65	0	145
FGDT-100	FM	85	16	165
FGDT-100	FC	105	36	185
FGDT-100	FL	150	81	230

A (mm)	Series	D (mm)	H (mm) Min	H (mm) Max
FGRR-200	FK	45	17	135
FGRR-200	FS	65	17	135
FGRR-200	FM	85	17	130
FGRR-200	FC	105	17	130
FGRR-200	FL	150	17	130

B (mm)	Series	D (mm)	W (mm) Min	W (mm) Max
FGDT-150	FK	45	0	225
FGDT-150	FS	65	0	245
FGDT-150	FM	85	16	265
FGDT-150	FC	105	36	285
FGDT-150	FL	150	81	330

A (mm)	Series	D (mm)	H (mm) Min	H (mm) Max
FGRR-250	FK	45	17	185
FGRR-250	FS	65	17	185
FGRR-250	FM	85	17	180
FGRR-250	FC	105	17	180
FGRR-250	FL	150	17	180

B (mm)	Series	D (mm)	W (mm) Min	W (mm) Max
FGDT-200	FK	45	0	325
FGDT-200	FS	65	0	345
FGDT-200	FM	85	16	365
FGDT-200	FC	105	36	385
FGDT-200	FL	150	81	430

### FGRL-18x110C & FGDT-70

FGRL-18x110C & FGDT-100

FGRL-18x110C & FGDT-150

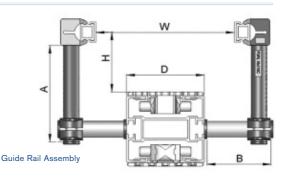
FGRL-18x110C & FGDT-200

FGRL-18x160C & FGDT-70

FGRL-18x160C & FGDT-100

FGRL-18x160C & FGDT-150

FGRL-18x160C & FGDT-200



A (mm)	Series	D (mm)	H (mm) Min	H (mm) Max
FGRL-18x110C	FK	45	14	70
FGRL-18x110C	FS	65	14	70
FGRL-18x110C	FM	85	14	65
FGRL-18x110C	FC	105	14	65
FGRL-18x110C	FL	150	14	65

B (mm)	Series	D (mm)	W (mm) Min	W (mm) Max
FGDT-70	FK	45	23	110
FGDT-70	FS	65	43	130
FGDT-70	FM	85	63	150
FGDT-70	FC	105	83	170
FGDT-70	FL	150	128	215

A (mm)	Series	D (mm)	H (mm) Min	H (mm) Max
FGRL-18x160C	FK	45	14	120
FGRL-18x160C	FS	65	14	120
FGRL-18x160C	FM	85	14	115
FGRL-18x160C	FC	105	14	115
FGRL-18x160C	FL	150	14	115

B (mm)	Series	D (mm)	W (mm) Min	W (mm) Max
FGDT-100	FK	45	23	170
FGDT-100	FS	65	43	190
FGDT-100	FM	85	63	210
FGDT-100	FC	105	83	230
FGDT-100	FL	150	128	275



B (mm)	Series	D (mm)	W (mm) Min	W (mm) Max
FGDT-150	FK	45	23	270
FGDT-150	FS	65	43	290
FGDT-150	FM	85	63	310
FGDT-150	FC	105	83	330
FGDT-150	FL	150	128	375

B (mm)	Series	D (mm)	W (mm) Min	W (mm) Max
FGDT-200	FK	45	23	370
FGDT-200	FS	65	43	390
FGDT-200	FM	85	63	410
FGDT-200	FC	105	83	430
FGDT-200	FL	150	128	475

### FG SERIES

FGRL-18x110C & FGRK-18x80A

FGRL-18x110C & FGRK-18x80A

FGRL-18x110C & FGRK-18x80A

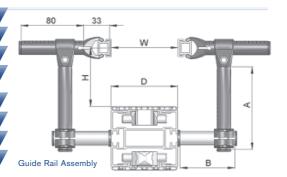
FGRL-18x110C & FGRK-18x80A

FGRL-18x160C & FGRK-18x80A

FGRL-18x160C & FGRK-18x80A

FGRL-18x160C & FGRK-18x80A

FGRL-18x160C & FGRK-18x80A



A (mm)	Series	D (mm)	H (mm) Min	H (mm) Max
FGRL-18x110C	FK	45	14	70
FGRL-18x110C	FS	65	14	70
FGRL-18x110C	FM	85	14	65
FGRL-18x110C	FC	105	14	65
FGRL-18x110C	FL	150	14	65

B (mm)	Series	D (mm)	W (mm) Min	W (mm) Max
FGDT-70	FK	45	0	68
FGDT-70	FS	65	0	88
FGDT-70	FM	85	0	108
FGDT-70	FC	105	0	128
FGDT-70	FL	150	0	173

A (mm)	Series	D (mm)	H (mm) Min	H (mm) Max
FGRL-18x160C	FK	45	14	120
FGRL-18x160C	FS	65	14	120
FGRL-18x160C	FM	85	14	115
FGRL-18x160C	FC	105	14	115
FGRL-18x160C	FL	150	14	115

B (mm)	Series	D (mm)	W (mm) Min	W (mm) Max
FGDT-100	FK	45	0	128
FGDT-100	FS	65	0	148
FGDT-100	FM	85	0	168
FGDT-100	FGDT-100 FC		0	188
FGDT-100	FL	150	0	233

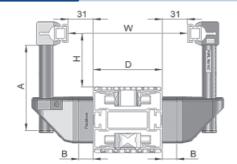


B (mm)	Series	D (mm)	W (mm) Min	W (mm) Max
FGDT-150	FK	45	0	228
FGDT-150	FS	65	0	248
FGDT-150	FM	85	0	268
FGDT-150	FC	105	0	288
FGDT-150	FL	150	0	333

B (mm)	Series	D (mm)	W (mm) Min	W (mm) Max
FGDT-200	FK	45	0	328
FGDT-200	FS	65	0	348
FGDT-200	FM	85	0	368
FGDT-200	FC	105	0	388
FGDT-200	FL	150	0	433

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

### Guide Rail Assembly

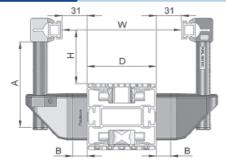


B Spacer = FGRD-18A

Guide Rail	Guide Rail	Series	D (mm)	A (mm)	H (mm) Min	H (mm) Max	W (mm) B = 0	W (mm) B = 18	W (mm) B = 36
FGRL-18x110C	FGRF-42x18V	FK	45	110	3	75	71	107	143
FGRL-18x110C	FGRF-42x18V	FS	65	110	3	75	91	127	163
FGRL-18x110C	FGRF-42x18V	FM	85	110	3	70	111	147	183
FGRL-18x110C	FGRF-42x18V	FC	105	110	3	70	131	167	203
FGRL-18x110C	FGRF-42x18V	FL	150	110	3	70	176	212	248

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

### Guide Rail Assembly



B Spacer = FGRD-18	βA
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Guide Rail	Guide Rail	Series	D (mm)	A (mm)	H (mm) Min	H (mm) Max	W (mm) B = 0	W (mm) B = 18	W (mm) B = 36
FGRL-18x160C	FGRF-42x18V	FK	45	160	3	135	71	107	143
FGRL-18x160C	FGRF-42x18V	FS	65	160	3	135	91	127	163
FGRL-18x160C	FGRF-42x18V	FM	85	160	3	130	111	147	183
FGRL-18x160C	FGRF-42x18V	FC	105	160	3	130	131	167	203
FGRL-18x160C	FGRF-42x18V	FL	150	160	3	130	176	212	248

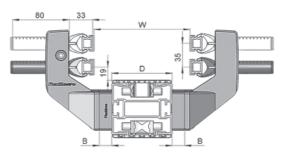
### FGRF-42x62-A110 & FGRK-18x80A Guide Rail Assembly B Spacer = FGRD-18A

Guide Rail	Guide Rail	Series	D (mm)	W min B = 0	W min B = 18	W min B = 36	W max B = 0	W max B = 18	W max B = 36
FGRF-42x62-A110	FGRK-18x80A	FK	45	0	3	39	61	97	133
FGRF-42x62-A110	FGRK-18x80A	FS	65	0	23	59	81	117	153
FGRF-42x62-A110	FGRK-18x80A	FM	85	7	43	79	101	137	173
FGRF-42x62-A110	FGRK-18x80A	FC	105	27	63	99	121	157	193
FGRF-42x62-A110	FGRK-18x80A	FL	150	72	108	144	166	202	238

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

B Spacer = FGRD-18A

### Guide Rail Assembly

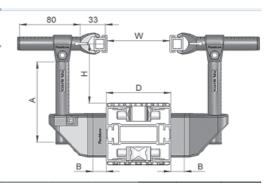


Guide Rail	Guide Rail	Series	D (mm)	W min B = 0	W min B = 18	W min B = 36	W max B = 0	W max B = 18	W max B = 36
FGRF-42x62-A35	FGRK-18x80A	FK	45	0	3	39	61	97	133
FGRF-42x62-A35	FGRK-18x80A	FS	65	0	23	59	81	117	153
FGRF-42x62-A35	FGRK-18x80A	FM	85	7	43	79	101	137	173
FGRF-42x62-A35	FGRK-18x80A	FC	105	27	63	99	121	157	193
FGRF-42x62-A35	FGRK-18x80A	FL	150	72	108	144	166	202	238

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

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

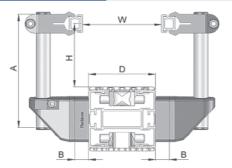
B Spacer = FGRD-18A



Guide Rail	Series	D (mm)	A = 110 H (mm) Min	A = 110 H (mm) Max	A = 160 H (mm) Min	A = 160 H (mm) Max	B (mm)	W (mm) Min	W (mm) Max
FGRL-18x110C	FK	45	3	83	3	138	0	0	30
FGRL-18x110C	FS	65	3	83	3	138	0	0	50
FGRL-18x110C	FM	85	3	83	3	133	0	0	70
FGRL-18x110C	FC	105	3	83	3	133	0	0	90
FGRL-18x110C	FL	150	3	83	3	133	0	25	135
FGRL-18x110C	FK	45	3	83	3	138	18	0	78
FGRL-18x110C	FS	65	3	83	3	138	18	0	86
FGRL-18x110C	FM	85	3	83	3	133	18	0	106
FGRL-18x110C	FC	105	3	83	3	133	18	16	126
FGRL-18x110C	FL	150	3	83	3	133	18	61	171
FGRL-18x110C	FK	45	3	83	3	138	36	0	112
FGRL-18x110C	FS	65	3	83	3	138	36	12	132
FGRL-18x110C	FM	85	3	83	3	133	36	32	152
FGRL-18x110C	FC	105	3	83	3	133	36	52	172
FGRL-18x110C	FL	150	3	83	3	133	36	97	217
FGRL-18x110C	FK	45	3	83	3	138	54	28	148
FGRL-18x110C	FS	65	3	83	3	138	54	48	168
FGRL-18x110C	FM	85	3	83	3	133	54	68	188
FGRL-18x110C	FC	105	3	83	3	133	54	88	208
FGRL-18x110C	FL	150	3	83	3	133	54	133	243

### FGRF-42x18V FGRS-18 & FGDT-150

### Guide Rail Assembly

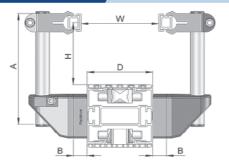


B Spacer = FGRD-18A

Guide Rail	Guide Rail	Series	D (mm)	A (mm)	H (mm) Min	H (mm) Max	W (mm) B = 0	W (mm) B = 18	W (mm) B = 36
FGRS-18	FGDT-150	FK	45	150	3	90	24	60	96
FGRS-18	FGDT-150	FS	65	150	3	90	44	80	116
FGRS-18	FGDT-150	FM	85	150	3	85	64	100	136
FGRS-18	FGDT-150	FC	105	150	3	85	84	120	156
FGRS-18	FGDT-150	FL	150	150	3	85	129	165	201

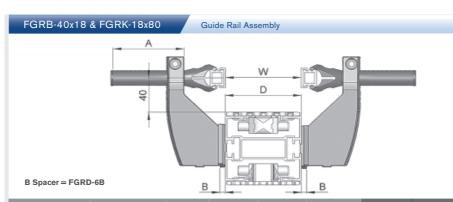
### FGRF-42x18V FGRS-18 & FGDT-200

### Guide Rail Assembly



### B Spacer = FGRD-18A

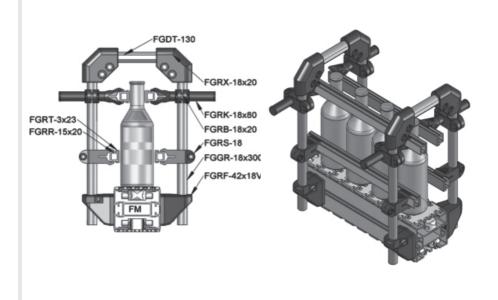
Guide Rail	Guide Rail	Series	D (mm)	A (mm)	H (mm) Min	H (mm) Max	W (mm) B = 0	W (mm) B = 18	W (mm) B = 36
FGRS-18	FGDT-200	FK	45	200	3	140	24	60	96
FGRS-18	FGDT-200	FS	65	200	3	140	44	80	116
FGRS-18	FGDT-200	FM	85	200	3	135	64	100	136
FGRS-18	FGDT-200	FC	105	200	3	135	84	120	156
FGRS-18	FGDT-200	FL	150	200	3	135	129	165	201



Guide Rail	Guide Rail	Series	A (mm)	B (mm)	D (mm)	W (mm) Min	W (mm) Max
FGRB-40x18	FGRK-18x80	FK	80	0	45	0	55
FGRB-40x18	FGRK-18x80	FS	80	0	65	0	75
FGRB-40x18	FGRK-18x80	FM	80	0	85	0	95
FGRB-40x18	FGRK-18x80	FC	80	0	105	15	115
FGRB-40x18	FGRK-18x80	FL	80	0	150	60	160
FGRB-40x18	FGRK-18x80	FK	80	6	45	0	67
FGRB-40x18	FGRK-18x80	FS	80	6	65	0	87
FGRB-40x18	FGRK-18x80	FM	80	6	85	7	107
FGRB-40x18	FGRK-18x80	FC	80	6	105	27	127
FGRB-40x18	FGRK-18x80	FL	80	6	150	72	172
FGRB-40x18	FGRK-18x80	FK	80	12	45	0	79
FGRB-40x18	FGRK-18x80	FS	80	12	65	0	99
FGRB-40x18	FGRK-18x80	FM	80	12	85	19	119
FGRB-40x18	FGRK-18x80	FC	80	12	105	39	139
FGRB-40x18	FGRK-18x80	FL	80	12	150	84	184
FGRB-40x18	FGRK-18x80	FK	80	18	45	1	91
FGRB-40x18	FGRK-18x80	FS	80	18	65	21	111
FGRB-40x18	FGRK-18x80	FM	80	18	85	31	131
FGRB-40x18	FGRK-18x80	FC	80	18	105	51	151
FGRB-40x18	FGRK-18x80	FL	80	18	150	96	196

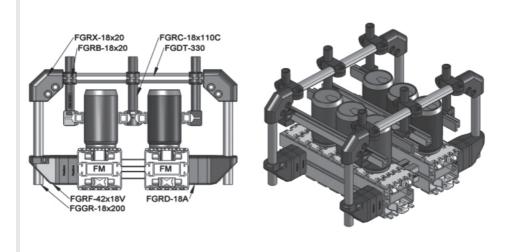
### Bottling Guide Rail Assembly

### **Bottles Handling**



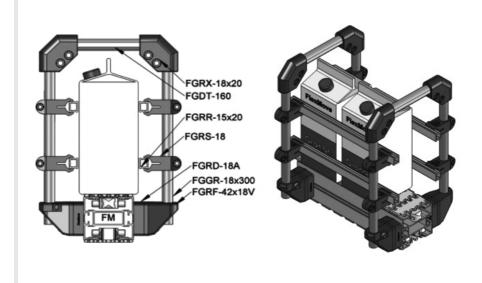
### Double Track Guide Rail Assembly

### Cans Handling



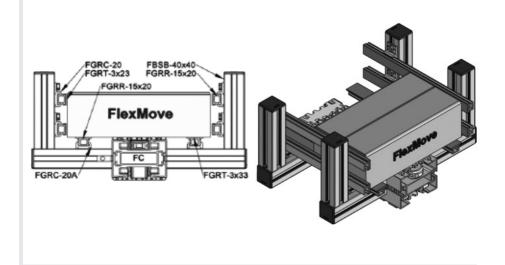
### Duo-Layer Guide Rail Assembly

Box Handling



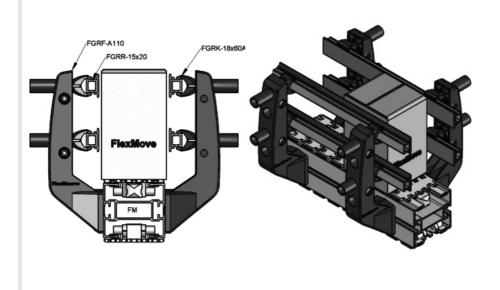
### Extra Bottom Guide Rail Assembly

Carton Box Handling



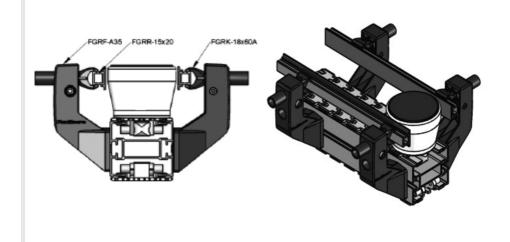
### Width Adjustment Guide Rail Assembly

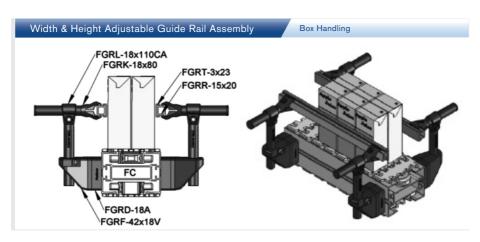
Packaging Box Handling

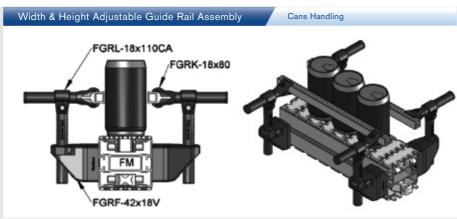


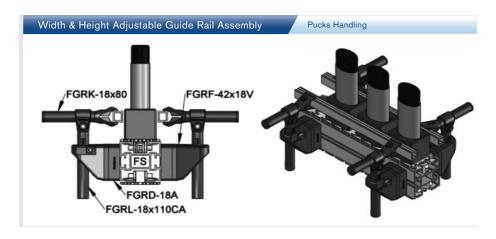
### Width Adjustment Guide Rail Assembly

Container Handling

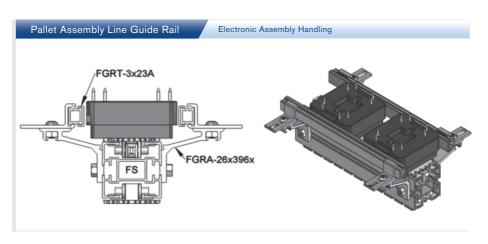


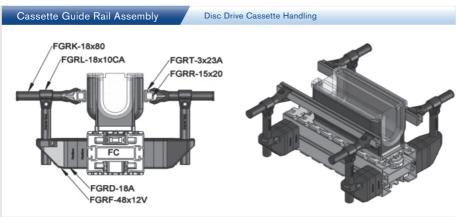


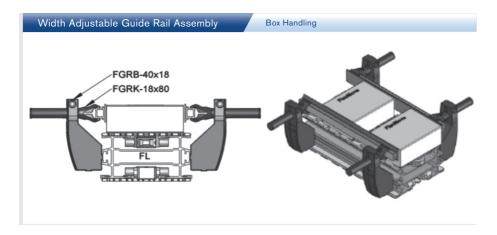


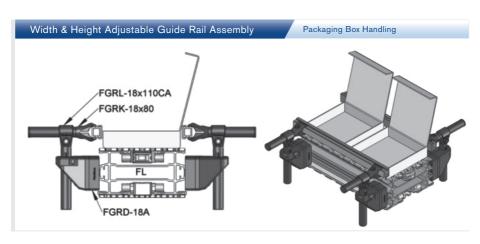


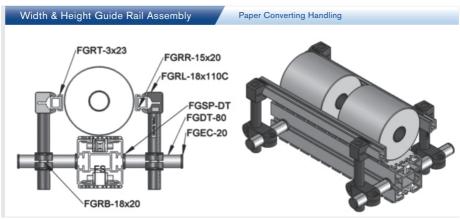
### FG SERIES

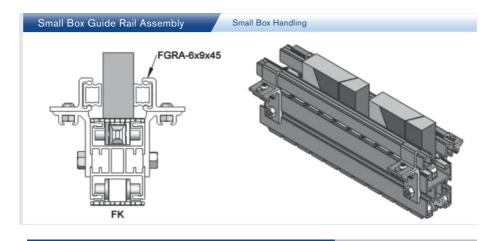




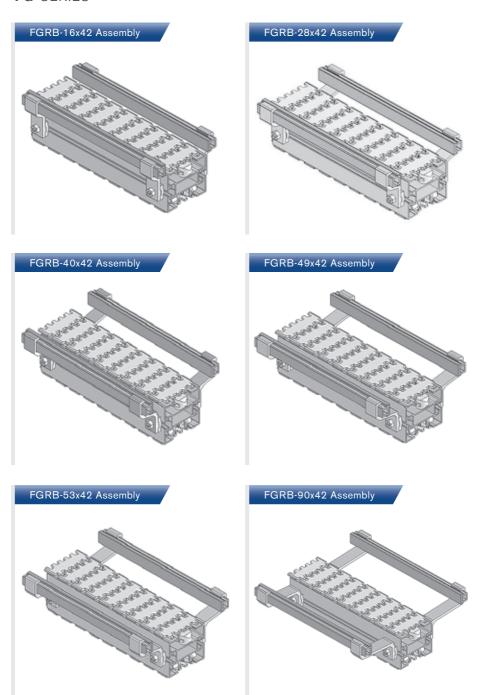


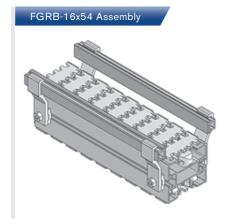






### FG SERIES

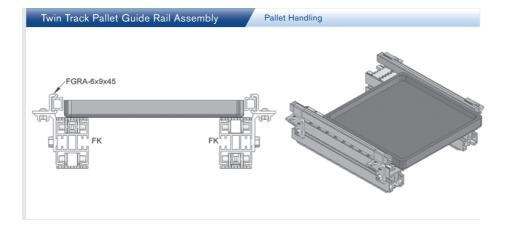


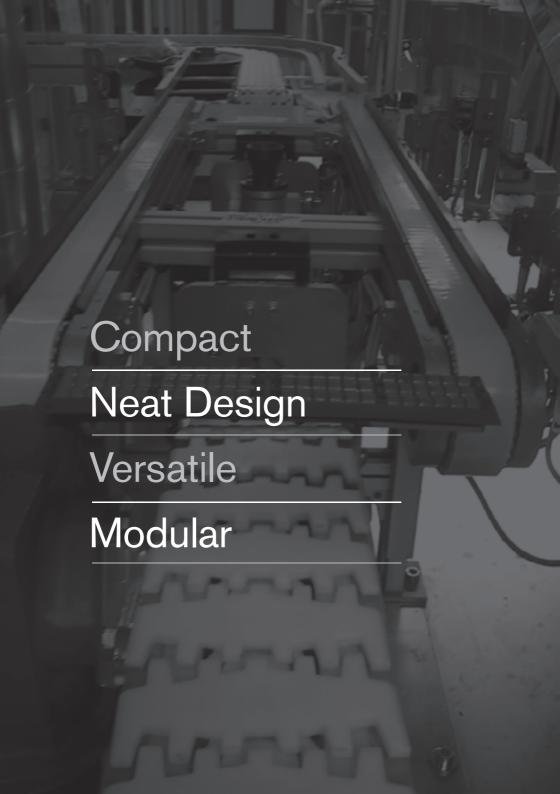


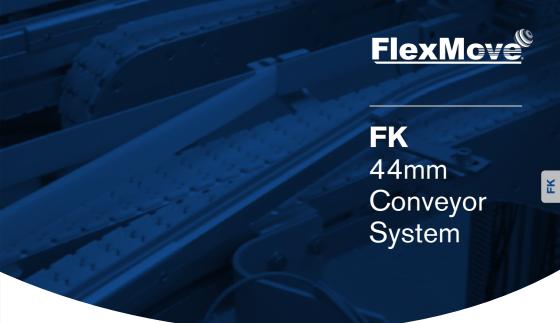


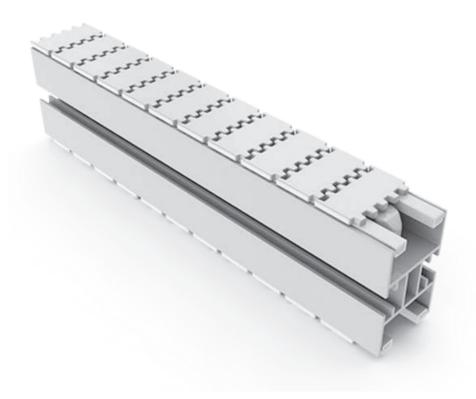












**FK Series** is a compact and neat design for small items and fast transportation. It is also used for twin track application for pallet assembly line.

### **FK Series Characteristic**

Beam Width: 45mm

Product Width: Refer to Guide Rail Assembly

### **Accessories Needed**

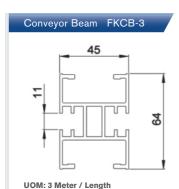
Slide Rail Required: FASR-25K OR FASR-25KU

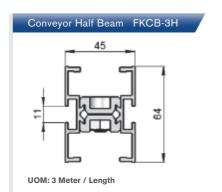
Slide Rail Colour: White Or Natural Colour Slide Rail Material: HDPE OR UHMW-PE

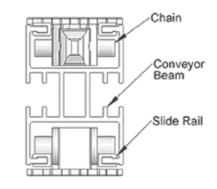
Slide Rail Rivet: FASLS-M3

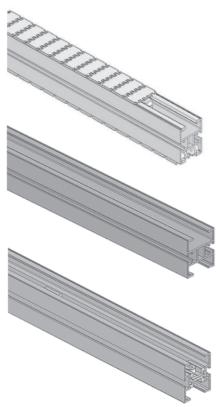
Connecting strip is used to connect 2 beams.

Connecting Strip: FACS-20x140

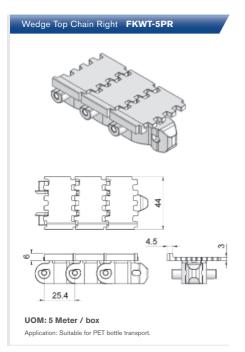




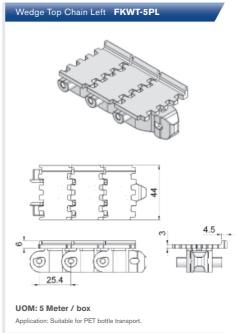




# Chain Connecting Module FKCC-160



UOM: pc



### **FK** SERIES

### **Chain Common Data**

Packaging: 5m per box

Pitch: 25.4mm Width: 44mm

Tensile Strength at 20°C: 4000N

Colour: White & Black (Conductive)

### Material :-

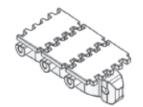
Chain: White Acetal / POM

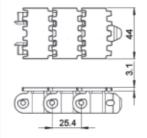
Pivot: Polyamide

Pivot Pin: Stainless Steel

Insert (Wedge & Friction): TPE Grey

### Standard Plain Chain FKPC-5



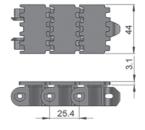


UOM: 5 Meter / box

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

### Conductive Chain FKPC-5CD

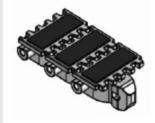


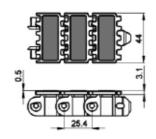


### UOM: 5 Meter / box

Application: Suitable for transport of static sensitive product.

### Friction Top Chain FKFT-5

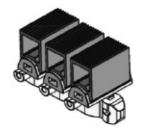


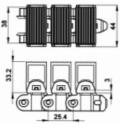


UOM: 5 Meter / box

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

### Wedge Top Chain FKWT-5C

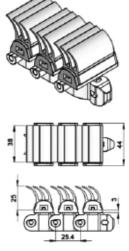




UOM: 5 Meter / box

Application: Vertical Wedge transportation of products.

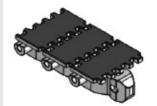
### Wedge Top Chain FKWT-5D

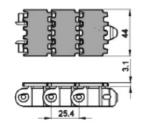


UOM: 5 Meter / box

Application: Vertical Wedge transportation of products.

### Flocked Chain FKFK-5

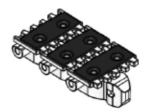


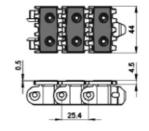


### UOM: 5 Meter / box

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

### Hardened Steel Top Chain FKST-5

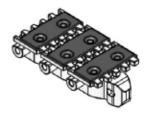


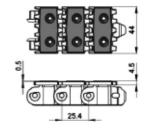


UOM: 5 Meter / box

Application: Suitable to transport metal products in accumulation.

### S/steel Top Chain FKST-5S

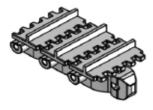


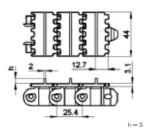


UOM: 5 Meter / box

Application: Suitable to transport metal products in accumulation.

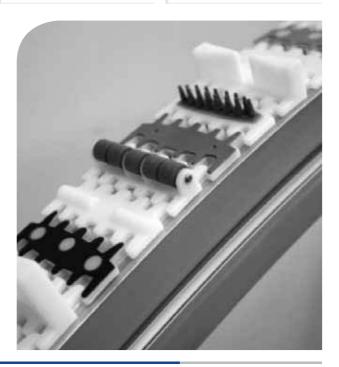
### Cleat Top Chain-G FKCT-5G-h-L#





UOM: 5 Meter / box

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

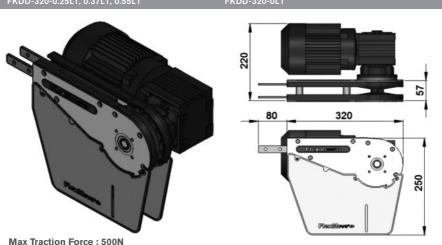


h = 5h = 9

### FK Direct End Drive with Motor (LEFT)

FK Direct End Drive without Motor (LEFT)

FKDD-320-0.25L1, 0.37L1, 0.55L1



The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FKDD-320-0L1 represents direct drive without motor. Multi channel drives are available upon request.

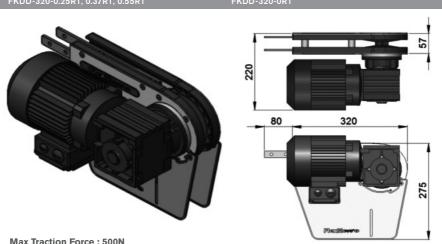
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

### FK Direct End Drive with Motor (RIGHT)

FK Direct End Drive without Motor (RIGHT)

FKDD-320-0.25R1, 0.37R1, 0.55R1

FKDD-320-0R1



Max Traction Force: 500N

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FKDD-320-0R1 represents direct drive without motor. Multi channel drives are available upon request.

UOM: pc Chain required 2-way: 0.8 meter

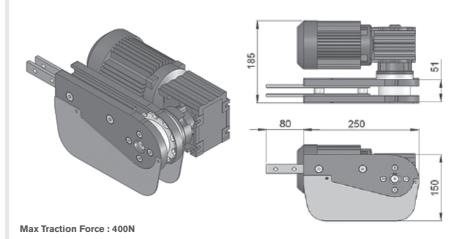
Slide rail required 2-way: 0.5 meter

### FK Direct End Drive with Motor (LEFT)

FK Direct End Drive without Motor (LEFT)

FKDD-250-0.25L, 0.37L, 0.55L

FKDD-250-0L



The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size is 0.12kW. FKDD-250-0L represents direct drive without gear motor. Multi channel drives are available upon request.

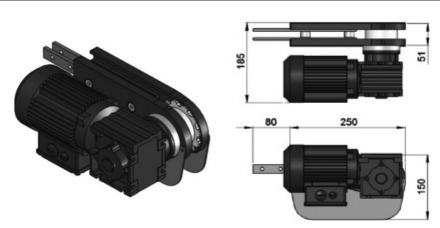
UOM: pc Chain required 2-way: 0.55 meter Slide rail required 2-way: 0

### FK Direct End Drive with Motor (RIGHT)

FK Direct End Drive without Motor (RIGHT)

FKDD-250-0.25R, 0.37R, 0.55R

FKDD-250-0R



### Max Traction Force: 400N

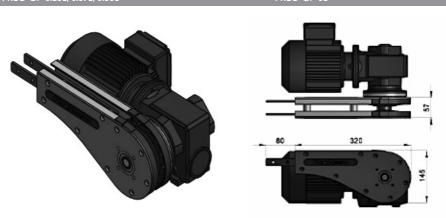
The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size is 0.12kW. FKDD-250-0R represents direct drive without gear motor. Multi channel drives are available upon request.

**UOM: pc** Chain required 2-way: 0.55 meter Slide rail required 2-way: 0

### FK Direct End Drive with Motor GP (LEFT)

FKDD-GP-0.25L, 0.37L, 0.55L

FKDD-GP-0L



### Max Traction Force: 500N

The Direct End Drive Unit GP is used for vertical wedge conveyor. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FKDD-GP-0L represents direct drive without gear motor. FKDD-GP drives are used for vertical wedge conveyor.

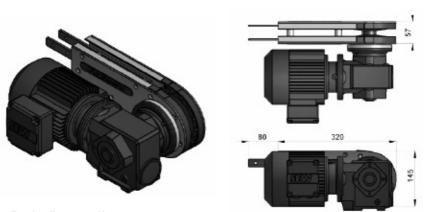
UOM: pc Chain required 2-way: 0.8 meter

Slide rail required 2-way: 0.5 meter

### FK Direct End Drive with Motor GP (RIGHT)

FKDD-GP-0.25R, 0.37R, 0.55R

FKDD-GP-0R



### **Max Traction Force: 500N**

The Direct End Drive Unit GP is used for vertical wedge conveyor. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FKDD-GP-0R represents direct drive without gear motor. FKDD-GP drives are used for vertical wedge conveyor.

UOM: pc Chain required 2-way: 0.8 meter

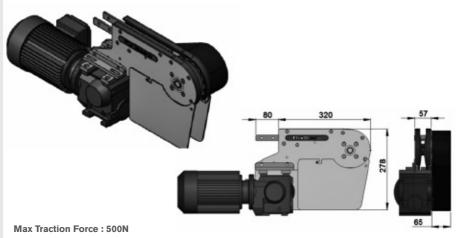
Slide rail required 2-way: 0.5 meter

### FK Suspended End Drive with Motor (LEFT)

FK Suspended End Drive without Motor (LEFT)

FKSD-0.25L1, 0.37L1, 0.55L1

FKSD-0L1



The Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FKSD-0L1 represents direct drive without gear motor.

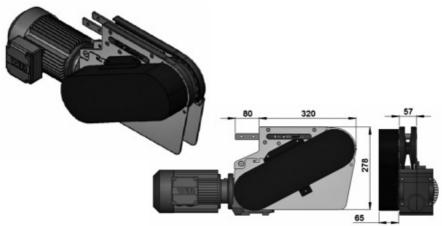
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

### FK Suspended End Drive with Motor (RIGHT)

FK Suspended End Drive without Motor (RIGHT)

FKSD-0.25R1, 0.37R1, 0.55R1

FKSD-0R1



### Max Traction Force: 500N

The Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FKSD-0R1 represents direct drive without gear motor.

UOM: pc Chain required 2-way: 0.8 meter

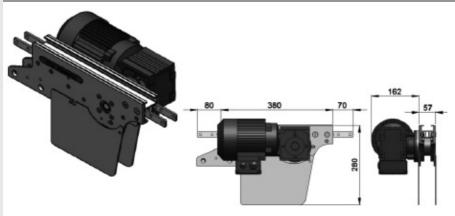
Slide rail required 2-way: 0.5 meter

FK Direct Intermediate Drive with Motor (LEFT)

FK Direct Intermediate Drive without Motor (LEFT)

FKID-DD-0.25L1, 0.37L1, 0.55L1

FKID-DD-0L1



### Max Traction Force: 200N

The Direct Intermediate Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FKID-DD-0L1 represents direct drive without gear motor. Maximum traction force for FKID-DD is lower than FKDD and FKSD.

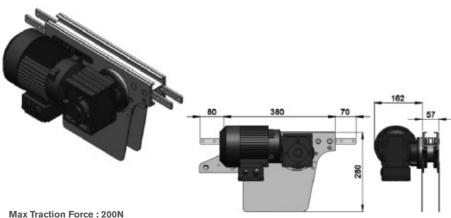
UOM: pc Chain required 2-way: 1.2 meter Slide rail required 2-way: 1.1 meter

### FK Direct Intermediate Drive with Motor (RIGHT)

FK Direct Intermediate Drive without Motor (RIGHT)

FKID-DD-0.25R1, 0.37R1, 0.55R1

FKID-DD-0R1



The Direct Intermediate Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FKID-DD-0R1 represents direct drive without gear motor. Maximum traction force for FKID-DD is lower than FKDD and FKSD.

UOM: pc Chain required 2-way: 1.2 meter

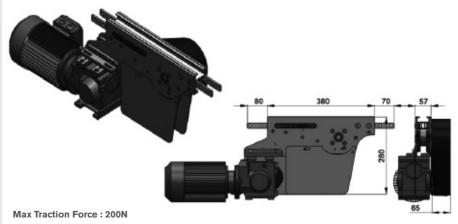
Slide rail required 2-way: 1.1 meter

### FK Suspended Intermediate Drive with Motor (LEFT)

FK Suspended Intermediate Drive without Motor (LEFT)

FKID-SD-0.25L1, 0.37L1, 0.55L1

FKID-SD-0L1



The Suspended Intermediate Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FKID-SD-0L1 represents suspended drive without gear motor. Maximum traction force for FKID-SD is lower than FKDD and FKSD.

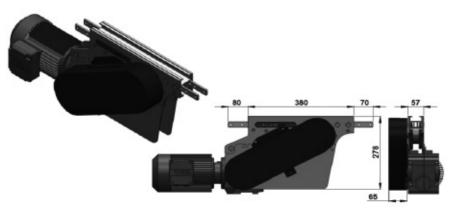
UOM: pc Chain required 2-way: 1.2 meter Slide rail required 2-way: 1.1 meter

### FK Suspended Intermediate Drive with Motor (RIGHT)

FK Suspended Intermediate Drive without Motor (RIGHT)

FKID-SD-0.25R1, 0.37R1, 0.55R1

FKID-SD-0R1



### **Max Traction Force: 200N**

The Suspended Intermediate Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FKID-SD-0R1 represents suspended drive without gear motor. Maximum traction force for FKID-SD is lower than FKDD and FKSD.

UOM: pc Chain required 2-way: 1.2 meter

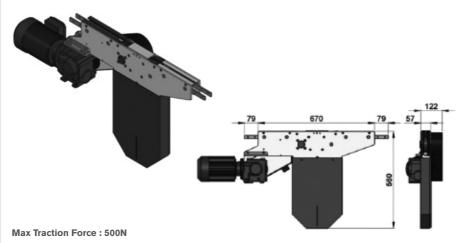
Slide rail required 2-way: 1.1 meter

FK Suspended Catenary Drive with Motor (LEFT)

FK Suspended Catenary Drive without Motor (LEFT)

FKCD-SD-0.25L, 0.37L, 0.55L

FKCD-SD-0L



The Suspended Catenary Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FKCD-SD-0L represents direct drive without gear motor.

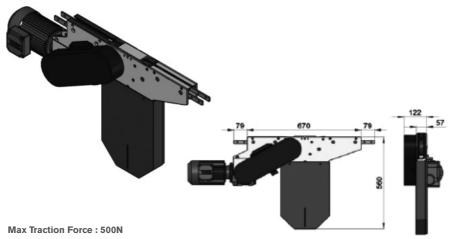
UOM: pc Chain required 1-way: 1.4 meter Slide rail required 1-way: 1.0 meter

### FK Suspended Catenary Drive with Motor (RIGHT)

FK Suspended Catenary Drive without Motor (RIGHT)

FKCD-SD-0.25R, 0.37R, 0.55R

FKCD-SD-0R



The Suspended Catenary Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FKCD-SD-0R represents direct drive without gear motor.

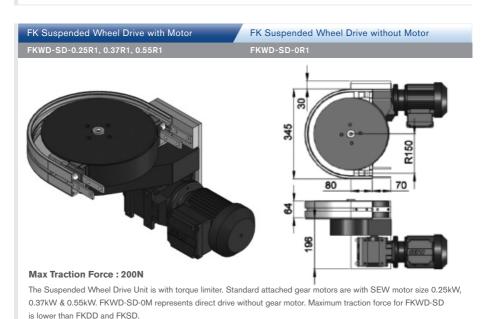
UOM: pc Chain required 2-way: 1.4 meter

Slide rail required 2-way: 1.0 meter

## FK Direct Wheel Drive with Motor FKWD-DD-0.25, 0.37, 0.55 FKWD-DD-0M 80 70 98 Max Traction Force : 200N

The Drive Wheel Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. 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

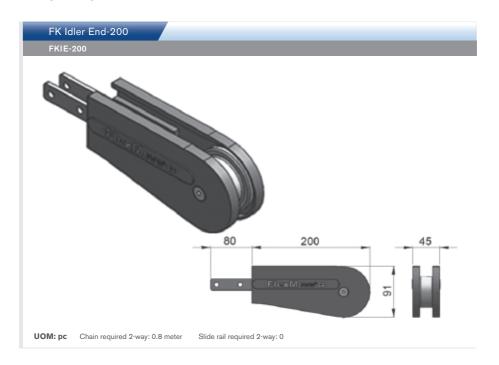


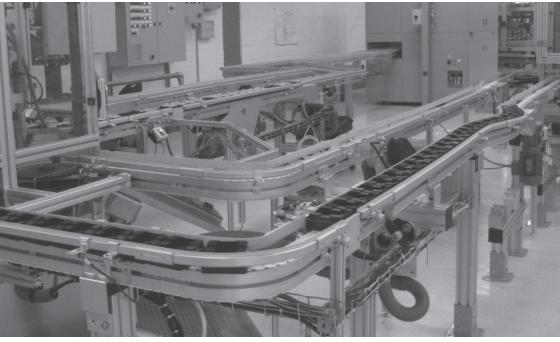
Slide rail required 1-way: 0.7 meter

SEW gear motors are products of SEW Eurodrive

UOM: pc Chain required 1-way: 0.7 meter

### FK SERIES















# FK Wheel Bend 5° - 180°

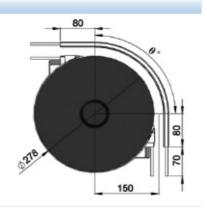
# **Example for FK Wheel Bend Ordering**

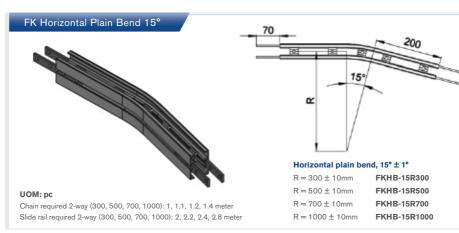
- Wheel bend, ذ ± 1°
- FKWB-ذR150A

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

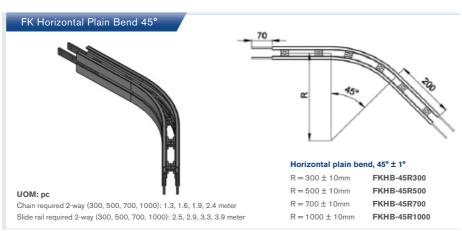
# **FKWB-65R150A**

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

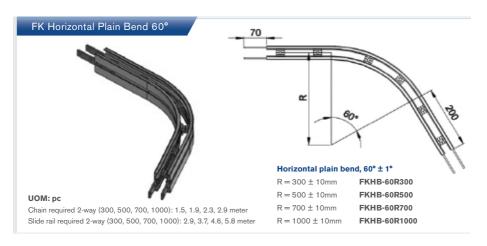


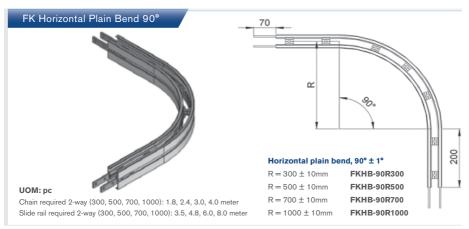






# **FK** SERIES





# FK Horizontal Plain Bend 180° 70 200

### 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

## Horizontal plain bend, 180° ± 1°

# FK Horizontal Plain Bend 5-180°

# **Example for FK Horizontal Plain Bend Ordering**

# Horizontal plain bend, $\emptyset$ ° $\pm$ 1°

 R = 300 ± 10mm
 FKHB- ذR300

 R = 500 ± 10mm
 FKHB- ذR500

 R = 700 ± 10mm
 FKHB- ذR700

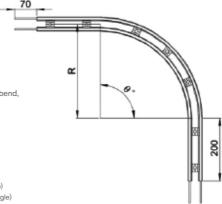
 R = 1000 ± 10mm
 FKHB- ذR1000

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

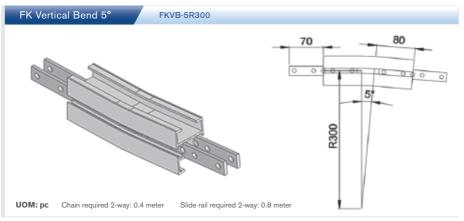
### FKHB-120R500

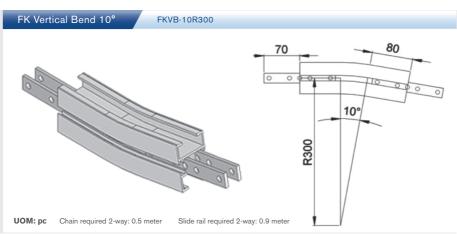
### UOM: pc

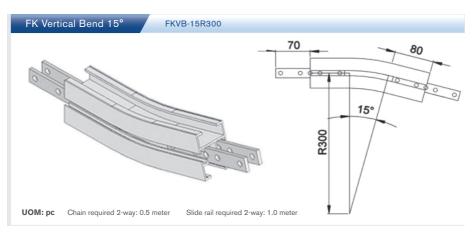
Chain required 2-way (300, 500, 700, 1000): meter (Variable to angle)
Slide rail required 2-way (300, 500, 700, 1000): meter (Variable to angle)

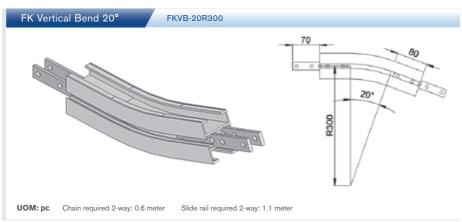


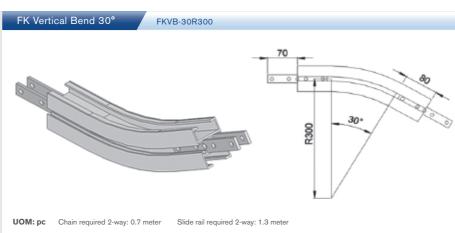
# **FK** SERIES

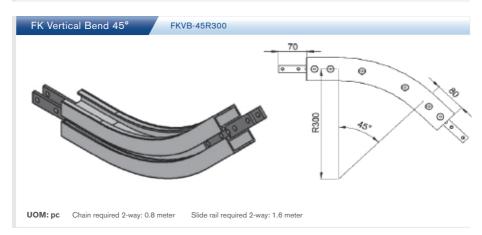




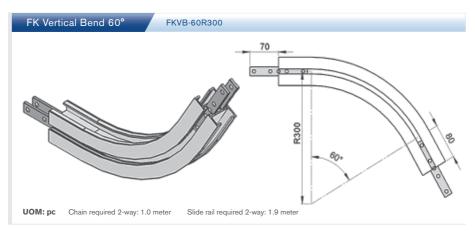


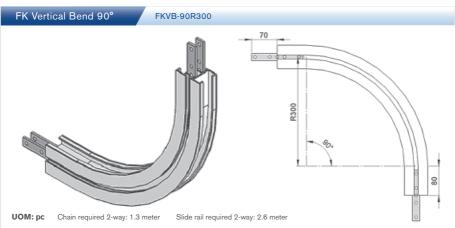






# **FK** SERIES





# FK Vertical Bend 5° - 90°

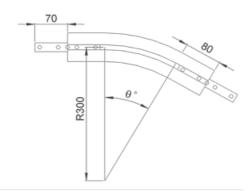
# **Example for FK Vertical Bend Ordering**

- Vertical bend, ذ ± 1°
- FKVB-ذR300

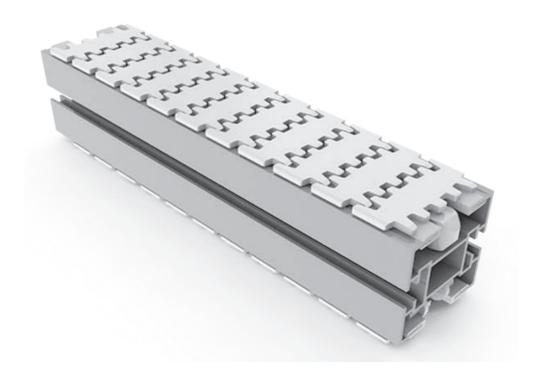
If an angle of 65° is needed for vertical bend, so the ordering part number is

# FKVB-65R300

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







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

# **FS Series Characteristic**

Beam Width: 65mm

Product Width: Refer to Guide Rail Assembly

# **Accessories Needed**

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

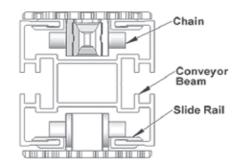
Slide Rail Colour: White Or Natural Colour

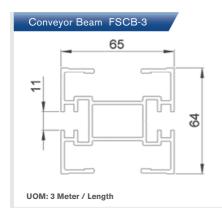
Slide Rail Material: HDPE OR UHMW-PE

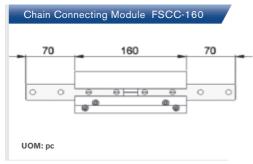
Slide Rail Rivet & Screw: FASLR-4X6 or FASLS-M5

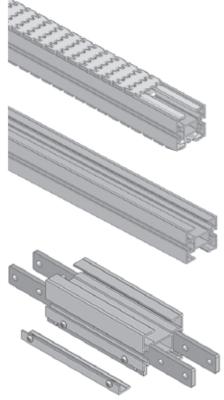
Connecting strip is used to connect 2 beams.

Connecting Strip: FACS-25x140A









### **Chain Common Data**

Packaging: 5m per box

Pitch: 25.4mm Width: 63mm

Tensile Strength at 20°C: 4000N

Colour: White & Black (Conductive)

### Material :-

Chain: White Acetal / POM

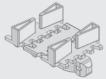
Pivot: Polyamide

Pivot Pin: Stainless Steel

Insert (Wedge & Friction): TPE Grey

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

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



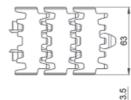
The above chain is FSCT-5A17-L1, 1 link cleated top chain with alternate of 1 link

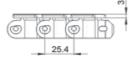
of plain chain.

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

### Standard Plain Chain FSPC-5



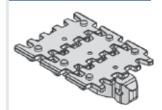


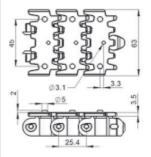


UOM: 5 Meter / box

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

### Universal Chain FSUC-5

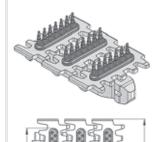


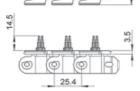


UOM: 5 Meter / box

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

### Wedge Top Chain FSWT-5A

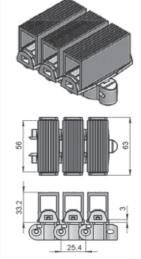




UOM: 5 Meter / box

Application: Vertical Wedge transportation of products.

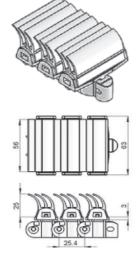
# Wedge Top Chain FSWT-5C



UOM: 5 Meter / box

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

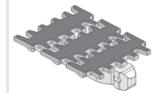
# Wedge Top Chain FSWT-5D

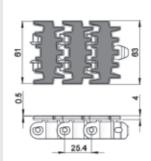


UOM: 5 Meter / box

Application: Vertical Wedge transportation of products.

# Friction Top Chain FSFT-5



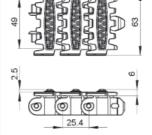


# UOM: 5 Meter / box

Application: Suitable for transport product in slope  $> 5^{\circ}$  but  $\le 30^{\circ}$  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

### Conductive Chain FSPC-5CD







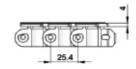
### UOM: 5 Meter / box

Application: Suitable for transport of static sensitive product.

# Flocked Chain FSFK-5



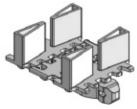


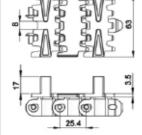


### UOM: 5 Meter / box

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

# Cleat Top Chain-A FSCT-5A17-L# # = 1, 2, 3, 4, 5.....20



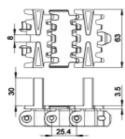


UOM: 5 Meter / box

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

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



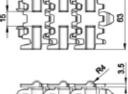


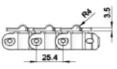
UOM: 5 Meter / box

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

## Cleat Top Chain-B FSCT-5B



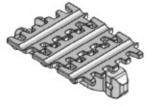


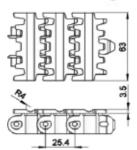


UOM: 5 Meter / box

Application: Suitable Cigarette transport.

# Cleat Top Chain-C FSCT-5C

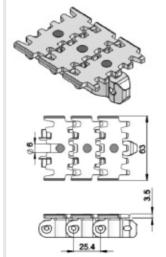




UOM: 5 Meter / box

Application: Suitable for Cigarette transport.

# Magnet Top Chain FSMT-5

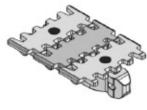


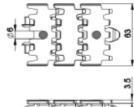
UOM: 5 Meter / box

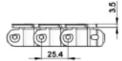
Application: Suitable for conveying ferromagnetic products in slope.

# Magnet Top Chain FSMT-5-L#

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





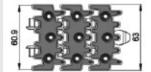


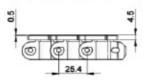
### UOM: 5 Meter / box

Application: Suitable for conveying ferromagnetic products in slope.

# Hardened Steel Top Chain FSST-5



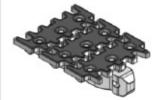


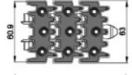


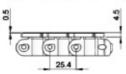
UOM: 5 Meter / box

Application: Suitable to transport metal products in accumulation.

# S/steel Top Chain FSST-5S





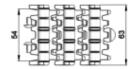


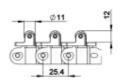
UOM: 5 Meter / box

Application: Suitable to transport metal products in accumulation.

# Roller Top Chain FSRT-5



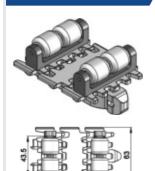


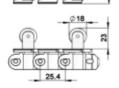


UOM: 5 Meter / box

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

# Roller Cleat Chain FSRC-5A-L#





UOM: 5 Meter / box

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

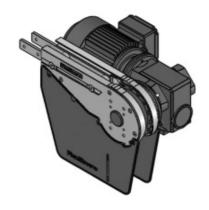


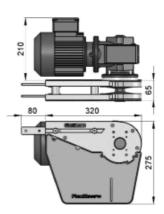
### FS Direct End Drive with Motor (LEFT)

FS Direct End Drive without Motor (LEFT)

FSDD-A65-0.25L, 0.37L, 0.55L

FSDD-A65-0L





### **Max Traction Force: 500N**

The Drive End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSDD-A65-0L represents direct drive without gear motor. Multi channel drives are available upon request.

UOM: pc Chain required 2-way: 0.8 meter

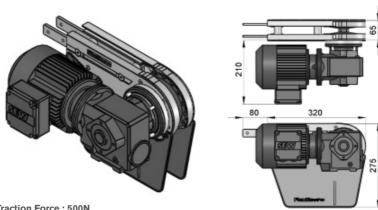
Slide rail required 2-way: 0.5 meter

# FS Direct End Drive with Motor (RIGHT)

FS Direct End Drive without Motor (RIGHT)

FSDD-A65-0.25R, 0.37R, 0.55R

FSDD-A65-0R



### **Max Traction Force: 500N**

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSDD-A65-0R represents direct drive without gear motor. Multi channel drives are available upon request.

UOM: pc Chain required 2-way: 0.8 meter

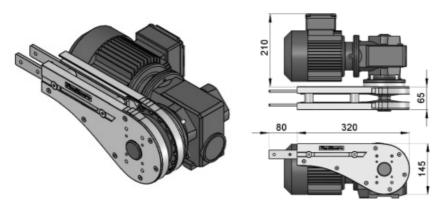
Slide rail required 2-way: 0.5 meter

# FS Direct End Drive with Motor GP (LEFT)

### FS Direct End Drive without Motor GP (LEFT)

FSDD-A65GP-0.25L, 0.37L, 0.55L

FSDD-A65GP-0L



### Max Traction Force: 500N

The Direct End Drive Unit GP is used for vertical wedge conveyor. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSDD-A65GP-0L represents direct drive without gear motor. FSDD-GP drives are used for vertical wedge conveyor.

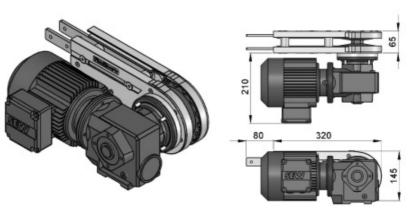
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

# FS Direct End Drive with Motor GP (RIGHT)

### FS Direct End Drive without Motor GP (RIGHT)

FSDD-A65GP-0.25R, 0.37R, 0.55R

FSDD-A65GP-0R



### **Max Traction Force: 500N**

The Direct End Drive Unit GP is used for vertical wedge conveyor. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSDD-A65GP-0R represents direct drive without gear motor. FSDD-GP drives are used for vertical wedge conveyor.

UOM: pc Chain required 2-way: 0.8 meter

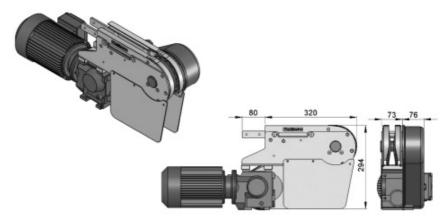
Slide rail required 2-way: 0.5 meter

# FS Suspended End Drive with Motor (LEFT)

FS Suspended End Drive without Motor (LEFT)

FSSD-A65-0.25L, 0.37L, 0.55L

FSSD-A65-0L



### Max Traction Force: 500N

The Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSSD-A65-0L represents direct drive without gear motor.

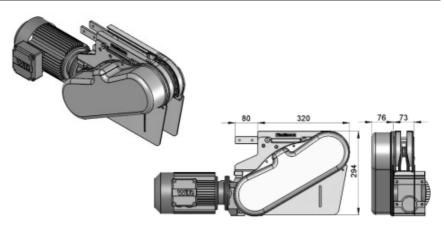
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

# FS Suspended End Drive with Motor (RIGHT)

FS Suspended End Drive without Motor (RIGHT)

FSSD-A65-0.25R, 0.37R, 0.55R

FSSD-A65-0R



### Max Traction Force: 500N

The Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSSD-A65-0R represents direct drive without gear motor.

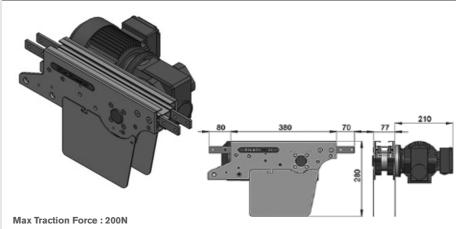
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

# FS Direct Intermediate Drive with Motor (LEFT)

FS Direct Intermediate Drive without Motor (LEFT)

FSID-DD-0.25L1, 0.37L1, 0.55L1

FSID-DD-0L1



The Direct Intermediate Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSID-DD-0L1 represents direct drive without gear motor. Maximum traction force for FSID-DD is lower than FSDD and FSSD.

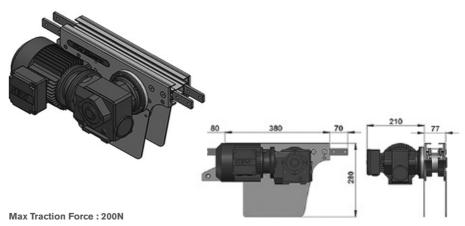
UOM: pc Chain required 2-way: 1.2 meter Slide rail required 2-way: 1.1 meter

### FS Direct Intermediate Drive with Motor (RIGHT)

FS Direct Intermediate Drive without Motor (RIGHT)

FSID-DD-0.25R1, 0.37R1, 0.55R1

FSID-DD-0R1



The Direct Intermediate Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSID-DD-0R1 represents direct drive without gear motor.

 $\label{eq:maximum traction force for FSID-DD} \ \ \text{is lower than FSDD} \ \ \text{and FSSD}.$ 

UOM: pc Chain required 2-way: 1.2 meter

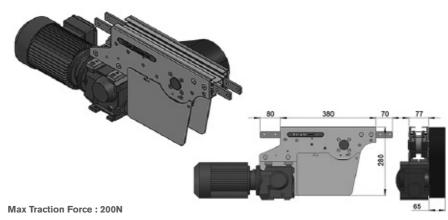
Slide rail required 2-way: 1.1 meter

### FS Suspended Intermediate Drive with Motor (LEFT)

FS Suspended Intermediate Drive without Motor (LEFT)

FSID-SD-0.25L1, 0.37L1, 0.55L1

FSID-SD-0L1



The Suspended Intermediate Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSID-SD-0L1 represents suspended drive without gear motor. Maximum traction force for FSID-SD is lower than FSDD and FSSD.

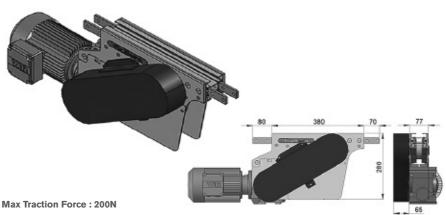
UOM: pc Chain required 2-way: 1.2 meter Slide rail required 2-way: 1.1 meter

FS Suspended Intermediate Drive with Motor (RIGHT)

FS Suspended Intermediate Drive without Motor (RIGHT)

FSID-SD-0.25R1, 0.37R1, 0.55R1

FSID-SD-0R1



The Suspended Intermediate Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSID-SD-0R1 represents suspended drive without gear motor. Maximum traction force for FSID-SD is lower than FSDD and FSSD.

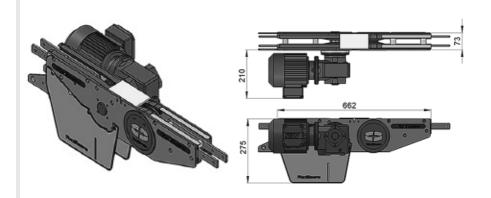
UOM: pc Chain required 2-way: 1.2 meter

Slide rail required 2-way: 1.1 meter

# FS Combined Direct Drive & Idler (LEFT)

FSCDI-DD-0.25L1, 0.37L1, 0.55L1

FSCDI-DD-0L1



### Max Traction Force: 500N

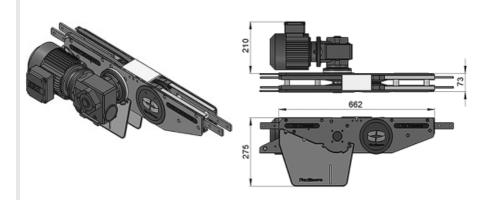
The Combine Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSCDI-DD-0L1 represents direct drive without gear motor.

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

# FS Combined Direct Drive & Idler (RIGHT)

FSCDI-DD-0.25R1, 0.37R1, 0.55R1

FSCDI-DD-0R1



# **Max Traction Force: 500N**

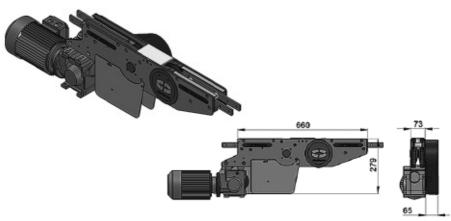
The Combine Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSCDI-DD-0R1 represents direct drive without gear motor.

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-0.25L1, 0.37L1, 0.55L1

FSCDI-SD-0L1



### Max Traction Force: 500N

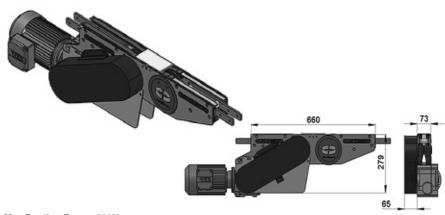
The Combine Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSCDI-SD-0L1 represents suspended drive without gear motor.

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

# FS Combined Suspended Drive & Idler (RIGHT)

FSCDI-SD-0.25R1, 0.37R1, 0.55R1

FSCDI-SD-0R1



### Max Traction Force: 500N

The Combine Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSCDI-SD-0R1 represents direct drive without gear motor.

UOM: pc Chain required 2-way: 1.6 meter Sli

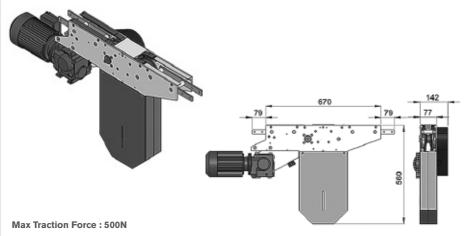
Slide rail required 2-way: 1.0 meter

# FS Suspended Catenary Drive with Motor (LEFT)

FS Suspended Catenary Drive without Motor (LEFT)

FSCD-SD-0.25L, 0.37L, 0.55L

FSCD-SD-0L



The Suspended Catenary Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSCD-SD-0L represents direct drive without gear motor.

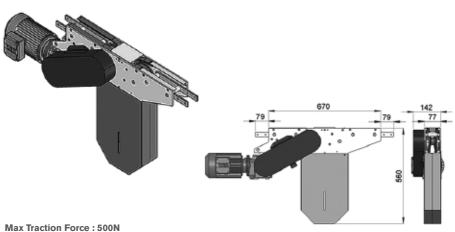
UOM: pc Chain required 1-way: 1.4 meter Slide rail required 1-way: 1.0 meter

# FS Suspended Catenary Drive with Motor (RIGHT)

FS Suspended Catenary Drive without Motor (RIGHT)

FSCD-SD-0.25R, 0.37R, 0.55R

FSCD-SD-0R



The Suspended Catenary Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSCD-SD-0R represents direct drive without gear motor.

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

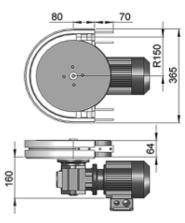
# FS Direct Wheel Drive with Motor

FS Direct Wheel Drive without Motor

FSWD-DD-0.25, 0.37, 0.55

FSWD-DD-0M





### Max Traction Force: 200N

The Direct Wheel Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSWD-DD-0M represents direct drive without gear motor. Maximum traction force for FSWD-DD is lower than FSDD and FSSD.

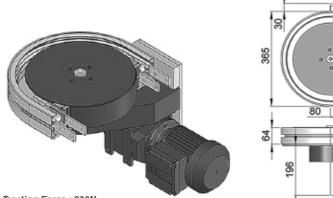
UOM: pc Chain required 1-way: 0.7 meter Slide rail required 1-way: 0.7 meter

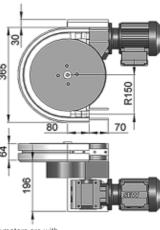
# FS Suspended Wheel Drive with Motor

### FS Suspended Wheel Drive without Motor

FSWD-SD-0.25, 0.37, 0.55

FSWD-SD-0M



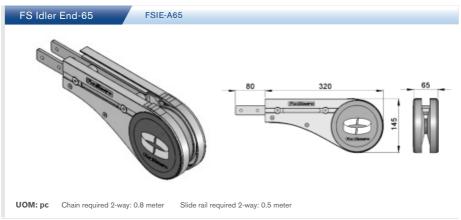


### **Max Traction Force: 200N**

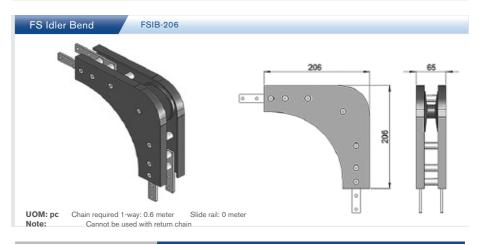
The Suspended Wheel Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FSWD-SD-0M represents direct drive without gear motor. Maximum traction force for FSWD-SD is lower than FSDD and FSSD.

UOM: pc Chain required 1-way: 0.7 meter

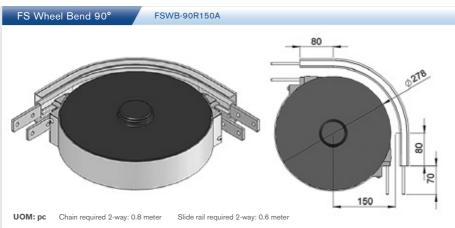
Slide rail required 1-way: 0.7 meter



# FS Idler End-200 FSIE-200 T9 200 65 UOM: pc Chain required 2-way: 0.7 meter Slide rail required 2-way: 0













# FS Wheel Bend 5° - 180°

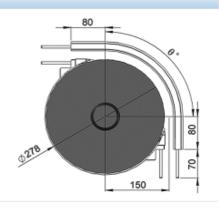
# **Example for FS Wheel Bend Ordering**

- Wheel bend, ذ ± 1°
- FSWB-ذR150A

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

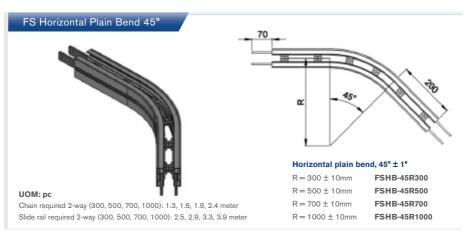
### **FSWB-65R150A**

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

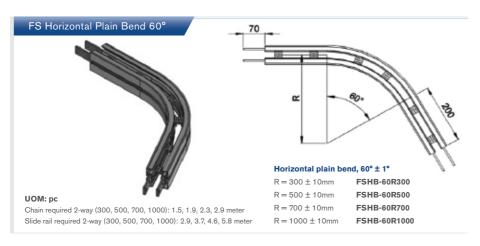


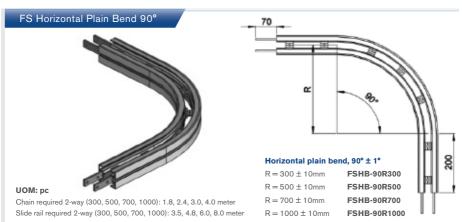


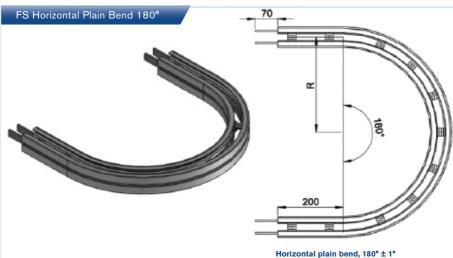




# FS SERIES







### 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

 $R = 300 \pm 10 mm$ FSHB-180R300  $R = 500 \pm 10 \text{mm}$ FSHB-180R500  $R = 700 \pm 10 \text{mm}$ FSHB-180R700  $R = 1000 \pm 10 mm$ FSHB-180R1000

# FS Horizontal Plain Bend 5° - 180°

# **Example for FS Horizontal Plain Bend Ordering**

# Horizontal plain bend, ذ ± 1°

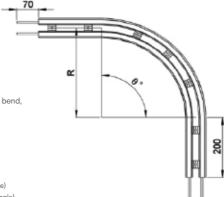
 $R = 300 \pm 10 mm$ FSHB- ذ300  $R = 500 \pm 10 mm$ FSHB- ذ500 FSHB- ذ700  $R = 700 \pm 10 mm$  $R = 1000 \pm 10 \text{mm}$ FSHB- ذ1000

If an angle of 120° is needed for radius R500 horizontal plain bend, so 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)

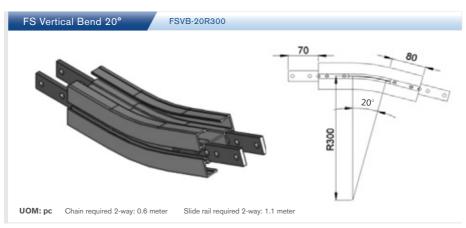


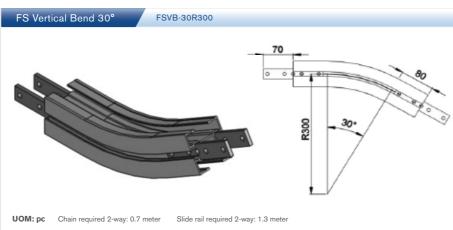
# FS SERIES

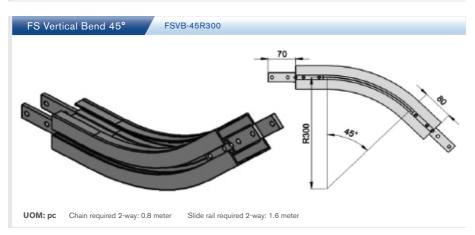












# FS Vertical Bend 60° FSVB-60R300 TO Government of the control o

FS Vertical Bend 90°

FSVB-90R300

Slide rail required 2-way: 2.6 meter

# FS Vertical Bend 5° - 90°

UOM: pc Chain required 2-way: 1.3 meter

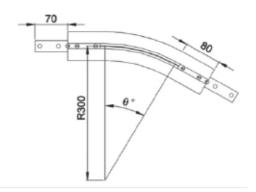
### **Example for FS Vertical Bend Ordering**

- Vertical bend, ذ ± 1°
- FSVB-ذR300

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

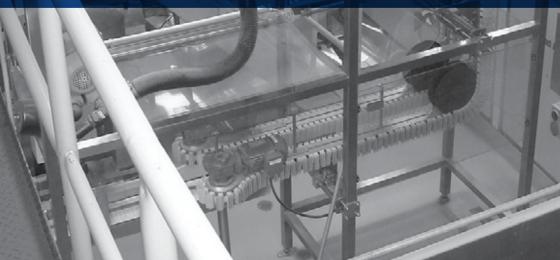
### FSVB-65R300

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



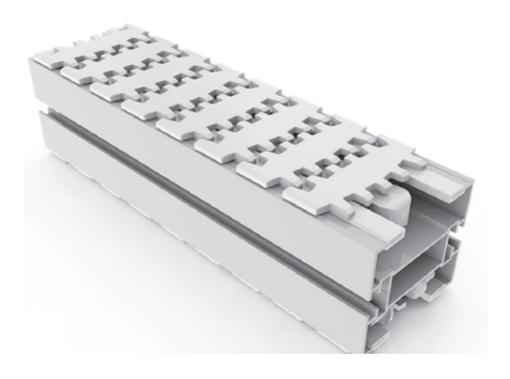


your business and for our environment.









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

# **FM Series Characteristic** Chain Beam Width: 85mm Product Width: Refer to Guide Rail Assembly Conveyor **Accessories Needed** Beam Slide Rail Required: FASR-25 OR FASR-25U Slide Rail Slide Rail Colour: White Or Natural Colour Slide Rail Material: HDPE OR UHMW-PE Slide Rail Rivet & Screw: FASLR-4X6 or FASLS-M5 Connecting strip is used to connect 2 beams. Connecting Strip: FACS-25x140A Conveyor Beam FMCB-3 85 UOM: 3 Meter / Length Chain Connecting Module FMCC-160

UOM: pc

### **Chain Common Data**

Packaging: 5m per box

Pitch: 33.5mm Width: 83mm

Tensile Strength at 20°C: 6000N

Colour: 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

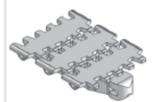


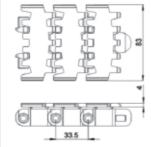
The above chain is FMCT-5A17-L1, 1 link cleated top chain with alternate of 1 link

of plain chain.

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

### Standard Plain Chain FMPC-5



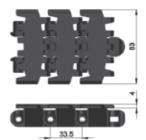


### UOM: 5 Meter / box

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

### Conductive Chain FMPC-5CD



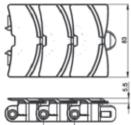


### UOM: 5 Meter / box

Application: Suitable for transport of static sensitive product.

### Safety Chain FMPC-5V



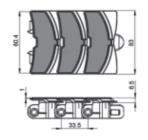


### UOM: 5 Meter / box

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

### Safety Chain Friction Top FMFT-5V

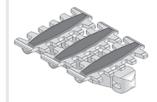


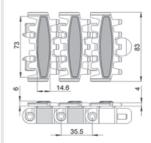


### UOM: 5 Meter / box

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

### Friction Top Chain FMFT-5



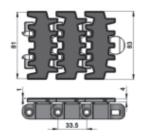


### UOM: 5 Meter / box

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

### Friction Top Chain FMFT-5A



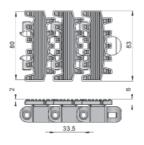


### UOM: 5 Meter / box

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

### Friction Top Chain FMFT-5B



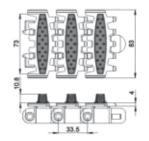


### UOM: 5 Meter / box

Application: Suitable for transport product in slope > 5° but <= 40° without accumulation.

### Wedge Top Chain FMWT-5A

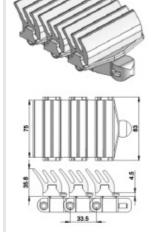




### UOM: 5 Meter / box

Application: Vertical Wedge transportation of products.

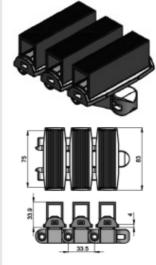
### Wedge Top Chain FMWT-5B



### UOM: 5 Meter / box

Application: Vertical Wedge transportation of products (Heavy Duty)

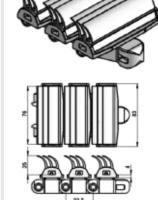
## Wedge Top Chain FMWT-5C



### UOM: 5 Meter / box

Application: Vertical Wedge transportation of products (Heavy Duty)

### Wedge Top Chain FMWT-5D

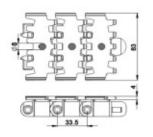


### UOM: 5 Meter / box

Application: Vertical Wedge transportation of products.

### Magnet Top Chain FMMT-5





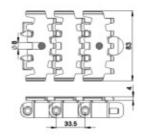
### UOM: 5 Meter / box

Application: Suitable for conveying of ferromagnetic products in slope.

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

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



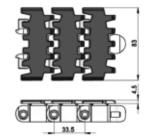


### UOM: 5 Meter / box

Application: Suitable for conveying of ferromagnetic products in slope.

### Flocked Chain FMFK-5



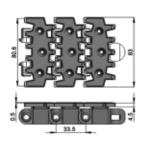


### UOM: 5 Meter / box

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

## Hardened Steel Top Chain FMST-5



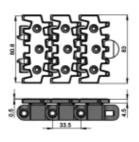


### UOM: 5 Meter / box

Application: Suitable to transport metal products in accumulation.

### Stainless Steel Top Chain FMST-5S



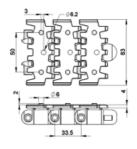


### UOM: 5 Meter / box

Application: Suitable to transport metal products in accumulation.

### Universal Chain FMUC-5

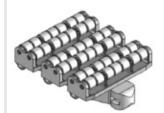


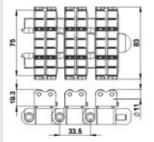


### UOM: 5 Meter / box

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

### Roller Top Chain FMRT-5



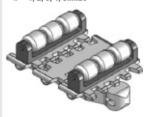


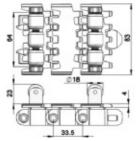
### UOM: 5 Meter / box

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

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

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





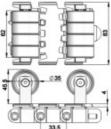
UOM: 5 Meter / box

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

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

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



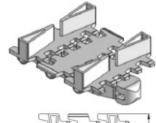


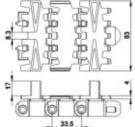
UOM: 5 Meter / box

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

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

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



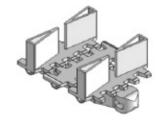


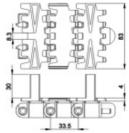
UOM: 5 Meter / box

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

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

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



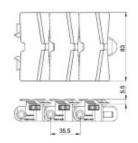


UOM: 5 Meter / box

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

### Safety Chain with rollers FMPC-5VR



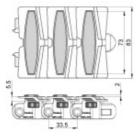


UOM: 5 Meter / box

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

### Safety Chain Friction Top with rollers FMFT-5VR



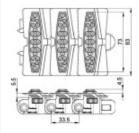


UOM: 5 Meter / box

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-C

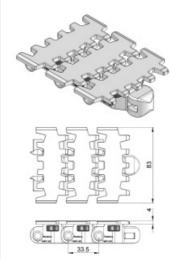




UOM: 5 Meter / box

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

### Plain Chain with rollers FMPC-5R

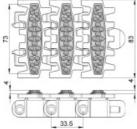


### UOM: 5 Meter / box

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

### Friction Top Chain FMFT-5C





### UOM: 5 Meter / box

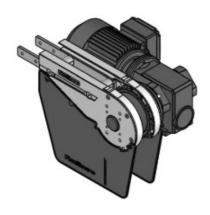
Application: Suitable for transport product in slope > 5° but <= 35° without accumulation. (Subject to product weight and Packing)

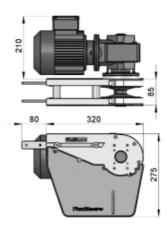
### FM Direct End Drive with Motor (LEFT)

FM Direct End Drive without Motor (LEFT)

FMDD-A85-0.25L, 0.37L, 0.55L

FMDD-A85-0L





### Max Traction Force: 1250N

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMDD-A85-0L represents direct drive without gear motor. Multi channel drives are available upon request.

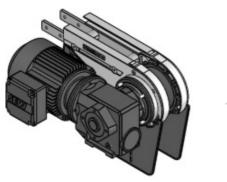
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

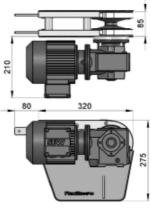
### FM Direct End Drive with Motor (RIGHT)

FM Direct End Drive without Motor (RIGHT)

FMDD-A85-0.25R, 0.37R, 0.55R

FMDD-A85-0R





### **Max Traction Force: 1250N**

The Direct End Drive Unit without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMDD-A85-0R represents direct drive without gear motor. Multi channel drives are available upon request.

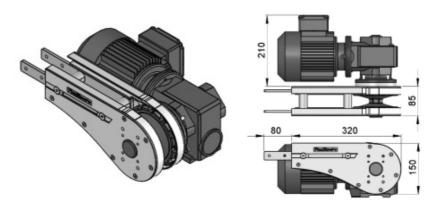
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

### FM Direct End Drive with Motor GP (LEFT)

FM Direct End Drive without Motor GP (LEFT)

FMDD-A85GP-0.25L, 0.37L, 0.55L

FMDD-A85GP-0L



### Max Traction Force: 1250N

The Direct End Drive Unit GP is used for vertical wedge conveyor. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMDD-A85GP-0L represents direct drive without gear motor.

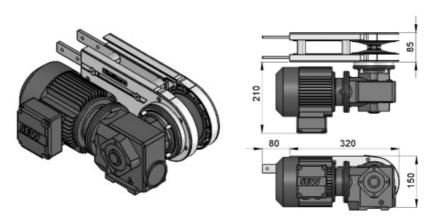
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

### FM Direct End Drive with Motor GP (RIGHT)

FM Direct End Drive without Motor GP (RIGHT)

FMDD-A85GP-0.25R, 0.37R, 0.55R

FMDD-A85GP-0R



### Max Traction Force: 1250N

The Direct End Drive Unit GP is used for vertical wedge conveyor. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMDD-A85GP-0R represents direct drive without gear motor.

UOM: pc Chain required 2-way: 0.8 meter

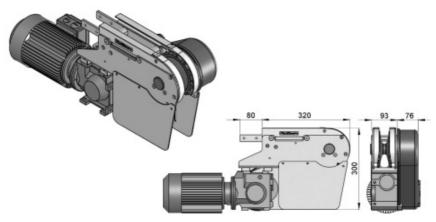
Slide rail required 2-way: 0.5 meter

### FM Suspended End Drive with Motor (LEFT)

FM Suspended End Drive without Motor (LEFT)

FMSD-0.25L1, 0.37L1, 0.55L1

FMSD-0L1



### Max Traction Force: 1250N

The Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMSD-0L1 represents direct drive without gear motor.

UOM: pc Chain required 2-way: 0.8 meter

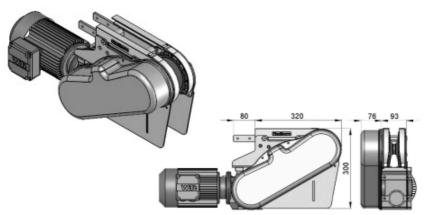
Slide rail required 2-way: 0.5 meter

### FM Suspended End Drive with Motor (RIGHT)

FM Suspended End Drive without Motor (RIGHT)

FMSD-0.25R1, 0.37R1, 0.55R1

FMSD-0R1



### Max Traction Force: 1250N

The Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMSD-0R1 represents direct drive without gear motor.

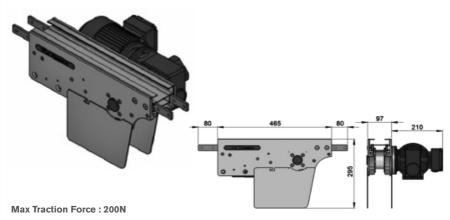
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

### FM Direct Intermediate Drive with Motor (LEFT)

FM Direct Intermediate Drive without Motor (LEFT)

FMID-DD-0.25L1, 0.37L1, 0.55L1

FMID-DD-0L1



The Direct Intermediate Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMID-DD-0L1 represents direct drive without gear motor. Maximum traction force for FMID-DD is lower than FMDD and FMSD.

UOM: pc Chain required 2-way: 1.2 meter

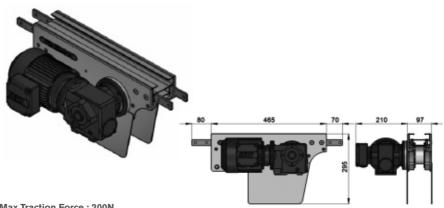
Slide rail required 2-way: 1.1 meter

### FM Direct Intermediate Drive with Motor (RIGHT)

FM Direct Intermediate Drive without Motor (RIGHT)

FMID-DD-0.25R1, 0.37R1, 0.55R1

FMID-DD-0R1



### Max Traction Force: 200N

The Direct Intermediate Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMID-DD-0R1 represents direct drive without gear motor. Maximum traction force for FMID-DD is lower than FMDD and FMSD.

UOM: pc Chain required 2-way: 1.2 meter

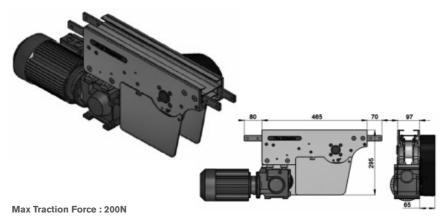
Slide rail required 2-way: 1.1 meter

FM Suspended Intermediate Drive with Motor (LEFT)

FM Suspended Intermediate Drive without Motor (LEFT)

FMID-SD-0.25L1, 0.37L1, 0.55L1

FMID-SD-0L1



The Suspended Intermediate Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMID-SD-0L1 represents suspended drive without gear motor. Maximum traction force for FMID-SD is lower than FMDD and FMSD.

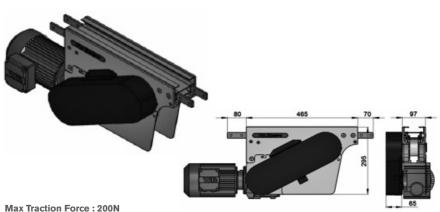
UOM: pc Chain required 2-way: 1.2 meter Slide rail required 2-way: 1.1 meter

FM Suspended Intermediate Drive with Motor (RIGHT)

FM Suspended Intermediate Drive without Motor (RIGHT)

FMID-SD-0.25R1, 0.37R1, 0.55R1

FMID-SD-0R1



The Suspended Intermediate Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMID-SD-0R1 represents suspended drive without motor. Maximum traction force for FMID-SD is lower than FMDD and FMSD.

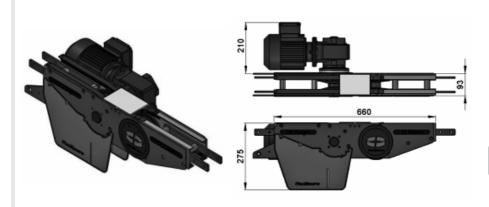
UOM: pc Chain required 2-way: 1.2 meter

Slide rail required 2-way: 1.1 meter

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

FMCDI-DD-0.25L1, 0.37L1, 0.55L1

FMCDI-DD-0L1



### Max Traction Force: 1250N

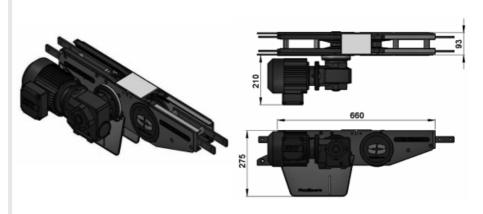
The Combine Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMCDI-DD-0L1 represents direct drive without gear motor.

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

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

FMCDI-DD-0.25R1, 0.37R1, 0.55R1

FMCDI-DD-0R1



### Max Traction Force: 1250N

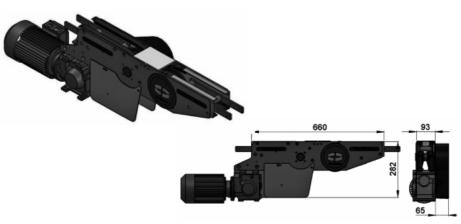
The Combine Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMDI-DD-0R1 represents direct drive without gear motor.

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

### FM Combined Suspended Drive & Idler (LEFT)

FMCDI-SD-0.25L1, 0.37L1, 0.55L1

FMCDI-SD-0L1



### Max Traction Force: 1250N

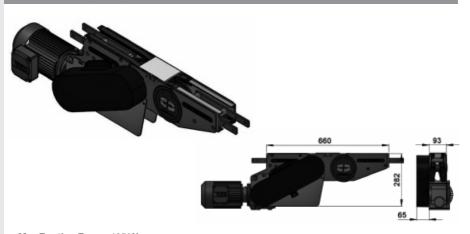
The Combine Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMCDI-SD-0L1 represents suspended drive without gear motor.

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

### FM Combined Suspended Drive & Idler (RIGHT)

FMCDI-SD-0.25R1, 0.37R1, 0.55R1

FMCDI-SD-0R1



### Max Traction Force: 1250N

The Combine Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMCDI-SD-0R1 represents direct drive without gear motor.

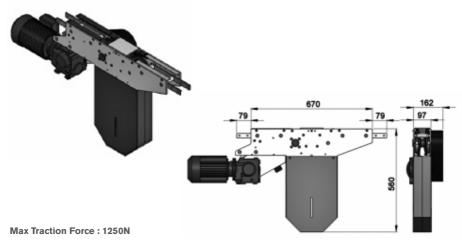
UOM: pc Chain required 2-way: 1.6 meter Slide rail required 2-way: 1.0 meter

### FM Suspended Catenary Drive with Motor (LEFT)

FM Suspended Catenary Drive without Motor (LEFT)

FMCD-SD-0.25L, 0.37L, 0.55L

FMCD-SD-0L



The Suspended Catenary Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMCD-SD-0L represents suspended drive without gear motor.

UOM: pc Chain required 1-way: 1.4 meter Sli

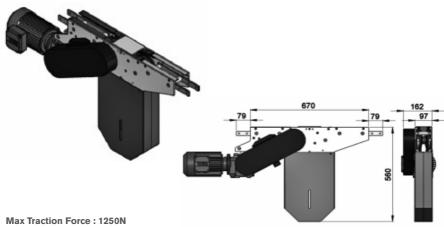
Slide rail required 1-way: 1.0 meter

### FM Suspended Catenary Drive with Motor (RIGHT)

FM Suspended Catenary Drive without Motor (RIGHT)

FMCD-SD-0.25R, 0.37R, 0.55R

FMCD-SD-0R



The Suspended Catenary Drive Unit is with torque limiter. Standard attached drive are with SEW motor size

0.25kW, 0.37kW & 0.55kW. FMCD-SD-0R represents suspended drive without motor.

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

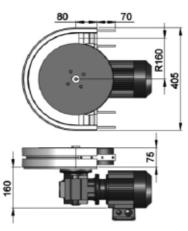
### FM Direct Wheel Drive with Motor

FM Direct Wheel Drive without Motor

FMWD-DD-0.25, 0.37, 0.55

FMWD-DD-0M





### Max Traction Force: 200N

The Direct Wheel Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FMWD-DD-0M represents wheel drive without gear motor. Maximum traction force for FMWD-DD is lower than FMDD and FMSD.

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

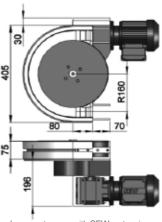
### FM Suspended Wheel Drive with Motor

FM Suspended Wheel Drive without Motor

FMWD-SD-0.25, 0.37, 0.55

FMWD-SD-0M





### **Max Traction Force: 200N**

The Suspended Wheel Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. 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 Idler End 85 FMIE-A85 80 320 85 WOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter





### **FM** SERIES







# FM Wheel Bend 45° FMWB-45R160A UOM: pc Chain required 2-way: 0.7 meter Slide rail required 2-way: 0.6 meter





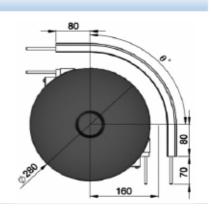
### **Example for FM Wheel Bend Ordering**

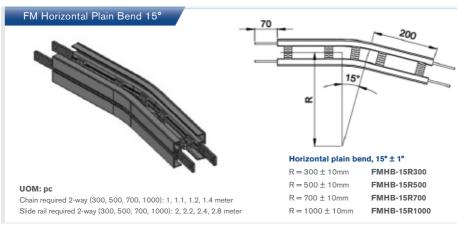
- Wheel bend, ذ ± 1°
- FMWB-ذR160A

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

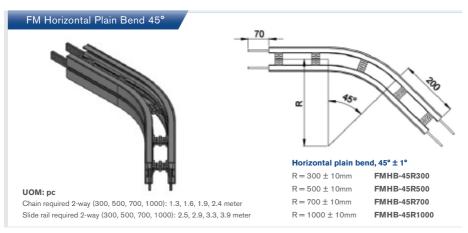
### FMWB-65R160A

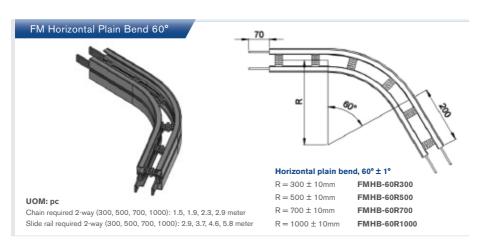
The outer bend is assembled using connecting strip (FACS-25x140A). Angle of ذ must be indicated when ordering.



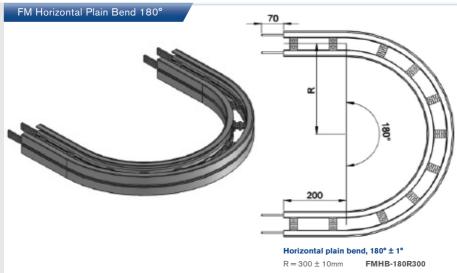












### UOM: pc

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

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

### **Example for FM Horizontal Plain Bend Ordering**

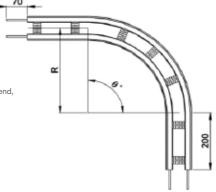
### Horizontal plain bend, $0^{\circ} \pm 1^{\circ}$

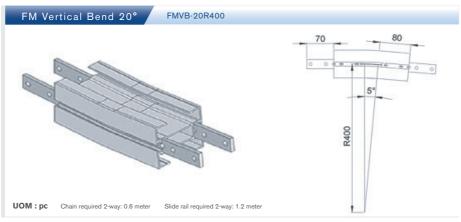
If an angle of 120° is needed for radius R500 horizontal plain bend, so the ordering part number is

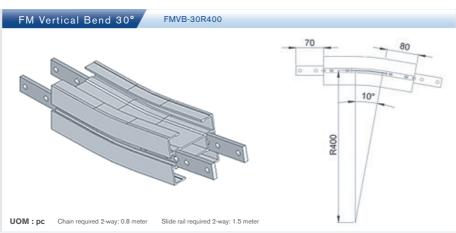
### FMHB-120R500

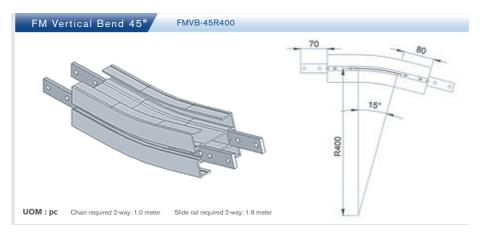
### UOM: pc

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)

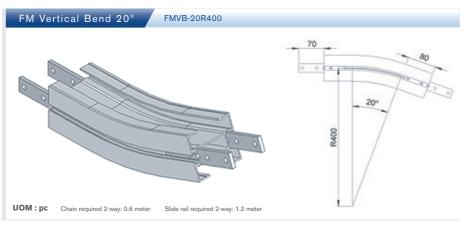


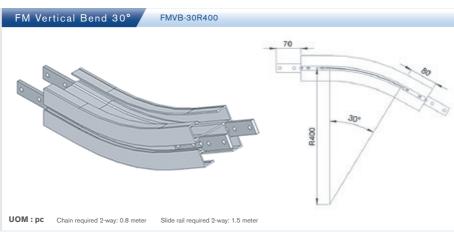


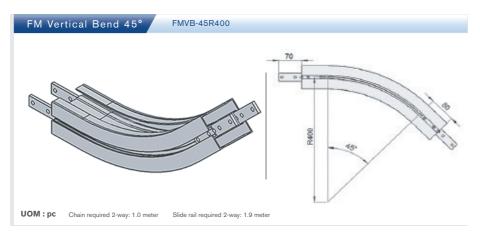


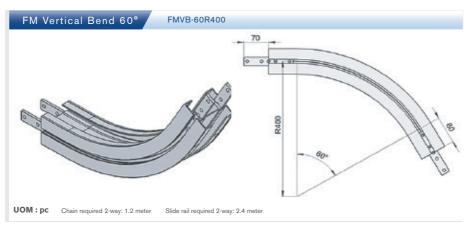


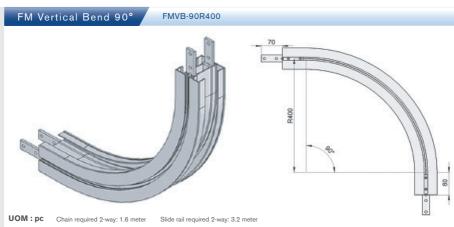
### **FM** SERIES

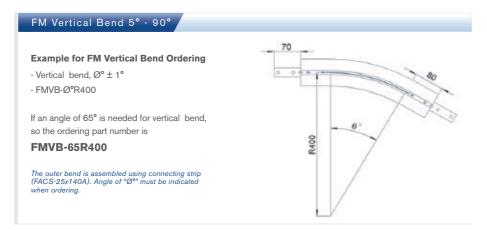






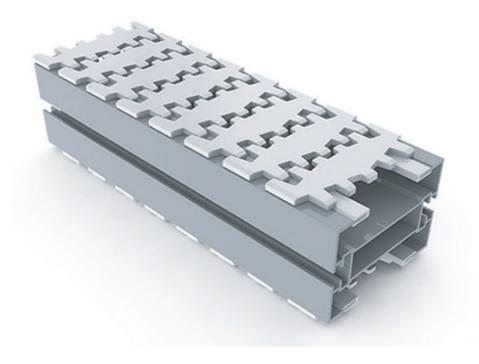












### FC SERIES

Variety of chain type suitable for wide range of applications either horizontal or vertically 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: 105mm

Product Width: Refer to Guide Rail Assembly

### **Accessories Needed**

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

Slide Rail Colour: White Or Natural Colour

Slide Rail Material: HDPE OR UHMW-PE

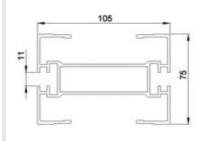
Slide Rail Rivet & Screw: FASLR-4X6 or FASLS-M5

Connecting strip is used to connect 2 beams.

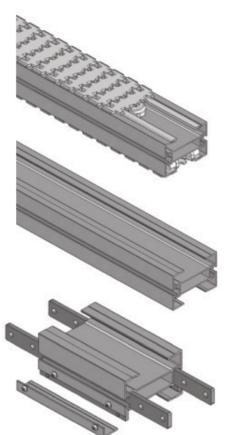
Connecting Strip: FACS-25x140A

# Conveyor Beam Slide Rail

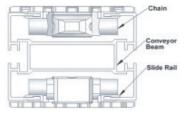
# Conveyor Beam FCCB-3



UOM: 3 Meter / Length



# Chain Connecting Module FCCC-160



UOM: pc

### **Chain Common Data**

Packaging: 5m per box Pitch: 35.5mm

Width: 103mm

Tensile Strength at 20°C: 6000N Colour: White & Black (Conductive)

### Material :-

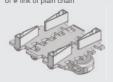
Chain: White Acetal / POM

Pivot: Polyamide

Pivot Pin: Stainless Steel

Insert (Wedge & Friction): TPE Grey

Example for FCCT-5A17-L#
# = 1 cleated top chain with alternate of # link of plain chain



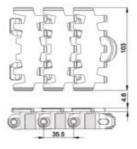
The above chain is FCCT-5A17-L1, 1 link cleated top chain with alternate of 1 link

of plain chain.

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

### Standard Plain Chain FCPC-5



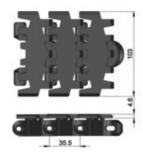


UOM: 5 Meter / box

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

### Conductive Chain FCPC-5CD



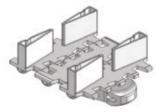


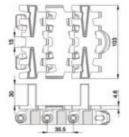
UOM: 5 Meter / box

Application: Suitable for transport of static sensitive product...

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

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



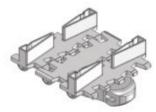


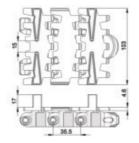
### UOM: 5 Meter / box

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

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

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



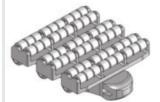


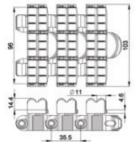
UOM: 5 Meter / box

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

### FC SERIES

### Roller Top Chain FCRT-5

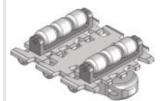


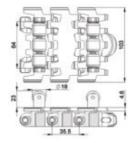


UOM: 5 Meter / box

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

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

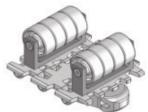


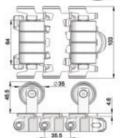


UOM: 5 Meter / box

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

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

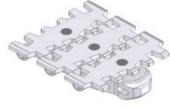


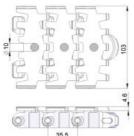


UOM: 5 Meter / box

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

## Magnet Top Chain FCMT-5

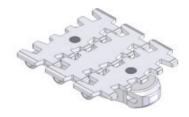


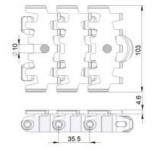


UOM: 5 Meter / box

Application: Suitable for conveying of ferromagnetic products in slope.

# Magnet Top Chain FCMT-5-L#

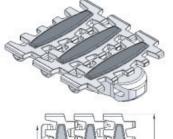


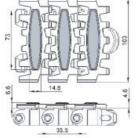


### UOM: 5 Meter / box

Application: Suitable for conveying of ferromagnetic products in slope.

### Friction Top Chain FCFT-5



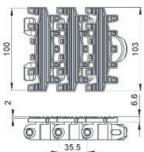


UOM: 5 Meter / box

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

### Friction Top Chain FCFT-5B



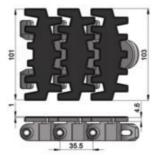


UOM: 5 Meter / box

Application: Suitable for transport product in slope > 5 ° but  $\le 40$  ° without accumulation.

### Friction Top Chain FCFT-5A

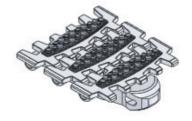


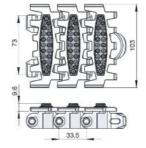


### UOM: 5 Meter / box

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

### Friction Top Chain FCFT-5C





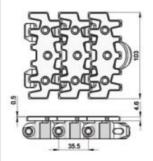
UOM: 5 Meter / box

Application: Suitable for transport product in of slope > 5 ° but  $\le 35$  ° without accumulation.

### FC SERIES

### Hardened Steel Top Chain FCST-5



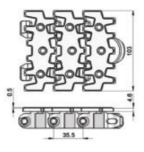


UOM: 5 Meter / box

Application: Suitable to transport metal products in accumulation.

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



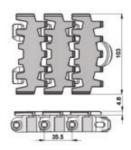


UOM: 5 Meter / box

Application: Suitable to transport metal products in accumulation.

### Flocked Chain FCFK-5

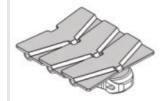


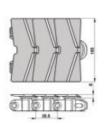


UOM: 5 Meter / box

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

### Safety Chain FCPC-5V



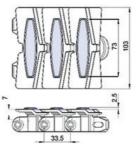


UOM: 5 Meter / box

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

### Safety Chain Friction Top FCFT-5V



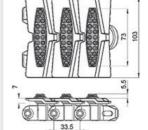


### UOM: 5 Meter / box

Application: (Safety Chain ) Suitable for ihorizontal and slope < 5  $^{\circ}$  but  $\leq$  30  $^{\circ}$  without accumulation.

### Safety Chain Friction Top FCFT-5V-C





### UOM: 5 Meter / box

Application: (Safety Chain ) Suitable for ihorizontal and slope < 5 ° but ≤ 35 ° without accumulation.

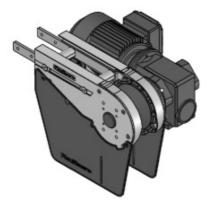


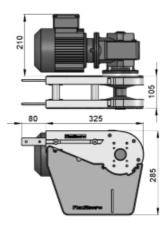




### FC Direct End Drive with Motor (LEFT)

FC Direct End Drive without Motor (LEFT)





### Max Traction Force: 1250N

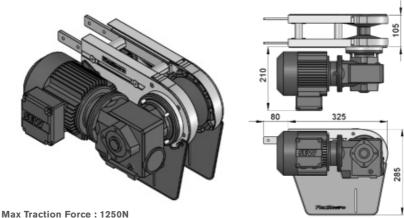
The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCDD-A105-0L represents direct drive without gear motor. Multi channel drives are are available upon request.

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

### FC Direct End Drive with Motor (RIGHT)

FC Direct End Drive without Motor (RIGHT)

FCDD-A105-0.25R, 0.37R, 0.55R



The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCDD-A105-0R represents direct drive without gear motor. Multi channel drives are available upon request.

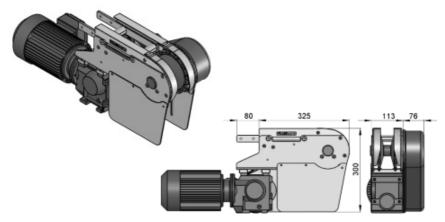
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

### FC Suspended End Drive with Motor (LEFT)

FC Suspended End Drive without Motor (LEFT)

FCSD-A105-0.25L, 0.37L, 0.55L

FCSD-A105-0L



### Max Traction Force: 1250N

The Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCSD-A105-0L represents suspended drive without gear motor.

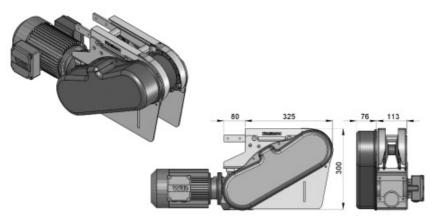
**UOM:pc** Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

### FC Suspended End Drive with Motor (RIGHT)

FC Suspended End Drive without Motor (RIGHT)

FCSD-A105-0.25R, 0.37R, 0.55F

FCSD-A105-0F



### **Max Traction Force: 1250N**

The Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCSD-A105-0R represents direct drive without gear motor.

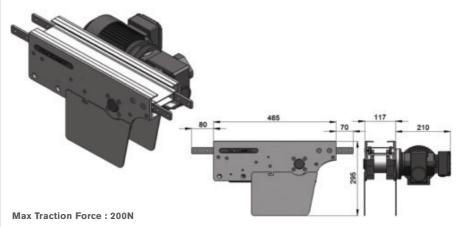
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

### FC Direct Intermediate Drive with Motor (LEFT)

FC Direct Intermediate Drive without Motor (LEFT)

FCID-DD-0.25L1, 0.37L1, 0.55L

FCDD-A105-0I



The Direct Intermediate Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCID-DD-0L1 represents direct drive without gear motor. Maximum traction force for FCID-DD is lower than FCDD and FCSD.

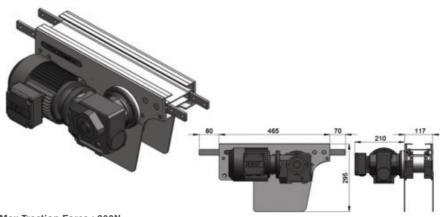
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

### FC Direct Intermediate Drive with Motor (RIGHT)

FC Direct Intermediate Drive without Motor (RIGHT)

FCID-DD-0.25R1, 0.37R1, 0.55R

FCID-DD-0R1



### **Max Traction Force: 200N**

The Direct Intermediate Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCID-DD-0R1 represents direct drive without gear motor. Maximum traction force for FCID-DD is lower than FCDD and FCSD.

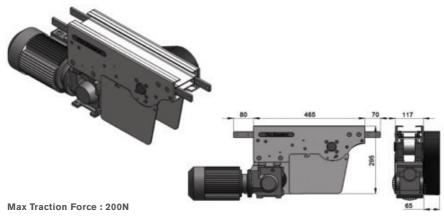
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

FC Suspended Intermediate Drive with Motor (LEFT)

FC Suspended Intermediate Drive without Motor (LEFT)

CID-SD-0.25I 1 0.37I 1 0.55I

FCID-SD-01



The Suspended Intermediate Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCID-SD-0L1 represents suspended drive without gear motor. Maximum traction force for FCID-SD is lower than FCDD and FCSD.

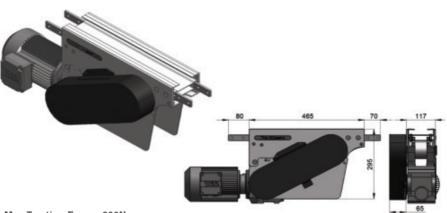
UOM:pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

### FC Suspended Intermediate Drive with Motor (RIGHT),

FC Suspended Intermediate Drive without Motor (RIGHT)

FCID-SD-0 25R1 0 37R1 0 55R1

FCID-SD-0R



### Max Traction Force: 200N

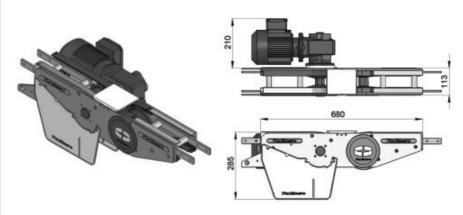
The Suspended Intermediate Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCID-SD-0R1 represents suspended drive without gear motor. Maximum traction force for FCID-SD is lower than FCDD and FCSD.

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

# FC Combined Direct Drive & Idler (LEFT)

FCCDI-DD-0.25L1, 0.37L1, 0.55L1

FCCDI-DD-0L1



#### **Max Traction Force: 1250N**

The Combine Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motorsize 0.25kW, 0.37kW & 0.55kW. FCCDI-DD-0L1 represents direct drive without gear motor.

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

# FC Combined Direct Drive & Idler (RIGHT)

FCCDI-DD-0.25R1, 0.37R1, 0.55R<sup>-</sup>

#### FCCDI-DD-0R1



#### **Max Traction Force: 1250N**

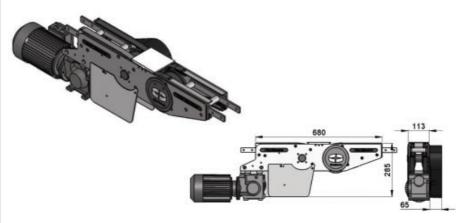
The Combine Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCCDI-DD-0R1 represents direct drive without gear motor.

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

# FC Combined Suspended Drive & Idler (LEFT)

FCCDI-SD-0.25L1, 0.37L1, 0.55L1

CCDI-SD-0L1



#### Max Traction Force: 1250N

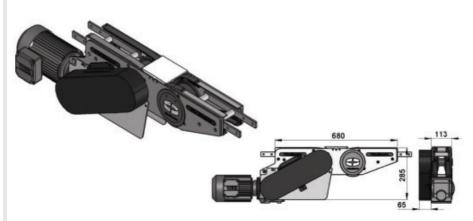
The Combine Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCCDI-SD-0L1 represents suspended drive without gear motor.

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

# FC Combined Suspended Drive & Idler (RIGHT)

FCCDI-SD-0.25R1, 0.37R1, 0.55R1

FCCDI-SD-0R1



#### **Max Traction Force: 1250N**

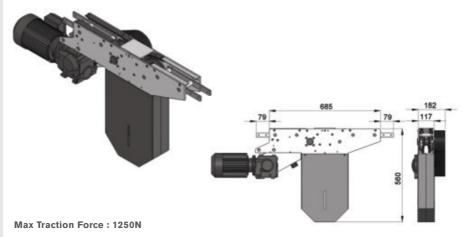
The Combine Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCCDI-SD-0R1 represents direct drive without gear motor.

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

FC Suspended Catenary Drive with Motor (LEFT)

FC Suspended Catenary Drive without Motor (LEFT)

FCCD-SD-0.25L, 0.37L, 0.55L



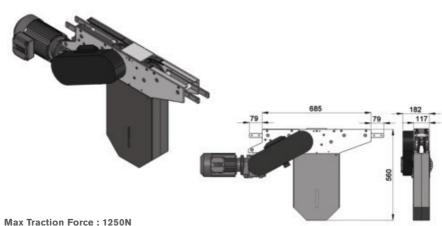
The Suspended Catenary Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCCD-SD-0L represents suspended drive without gear motor.

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

# FC Suspended Catenary Drive with Motor (RIGHT)

FC Suspended Catenary Drive without Motor (RIGHT)

FCCD-SD-0.25R, 0.37R, 0.55R



The Suspended Catenary Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCCD-SD-0R represents suspended drive without gear motor.

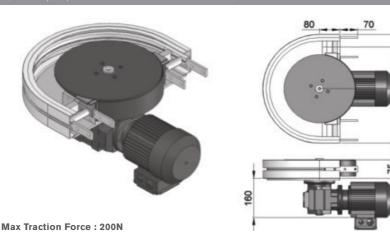
UOM: pc Chain required 1-way: 1.4 meter Slide rail required 1-way: 1.0 meter

#### FC Direct Wheel Drive with Motor

FC Direct Wheel Drive without Motor

FCWD-0.25. 0.37. 0.58

FCWD-DD-0M



The Direct Wheel Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FCWD-DD-0M represents wheel drive without gear motor. Maximum traction force for FCWD-DD is lower than FCDD and FCSD.

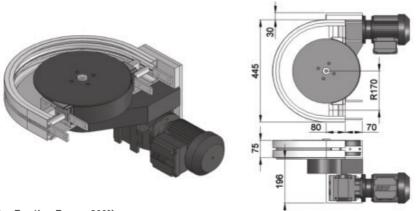
UOM: pc Chain required 1-way: 0.7 meter Slide rail required 1-way: 0.7 meter

# FC Suspended Wheel Drive with Motor

FC Suspended Wheel Drive without Motor

FCWD-SD-0.25, 0.37, 0.55

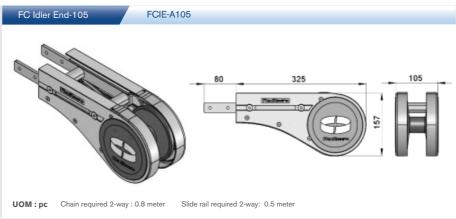
FCWD-SD-0M



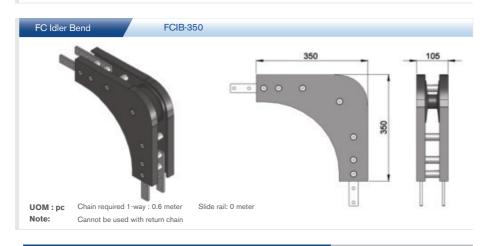
#### **Max Traction Force: 200N**

The Suspended Wheel Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. 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







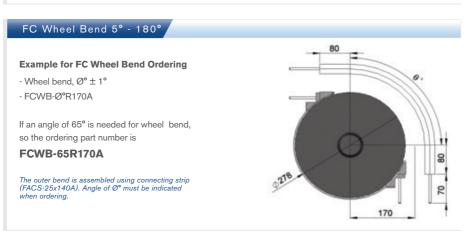


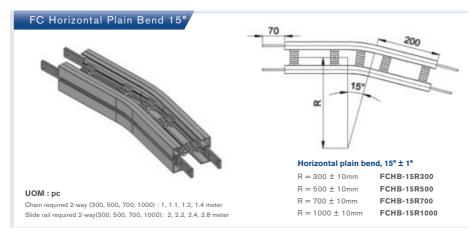


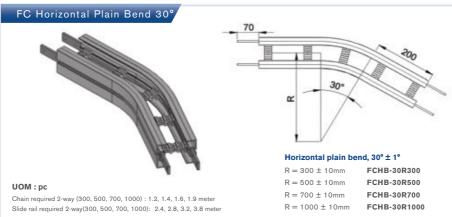


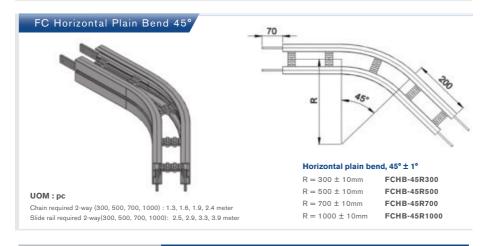


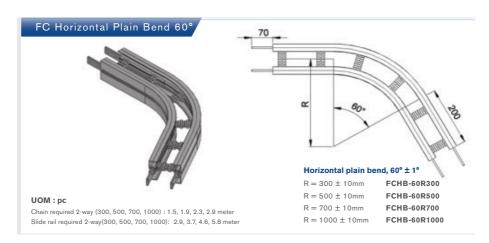
















# FC Horizontal Plain Bend 5° - 180°



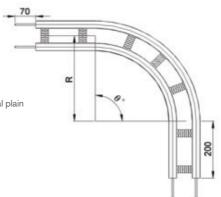
#### Horizontal plain bend, ذ ± 1°

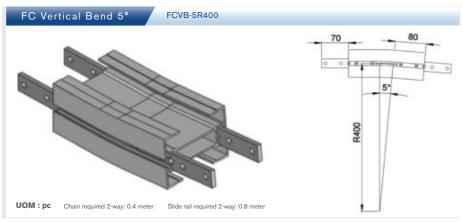
If an angle of 120° is needed for radius R500 horizontal plain bend, so the ordering part number is

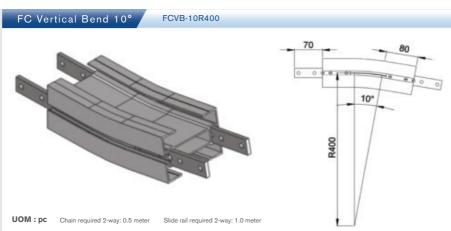
# FCHB-120R500

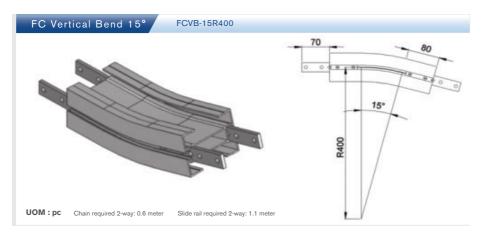
#### UOM:pc

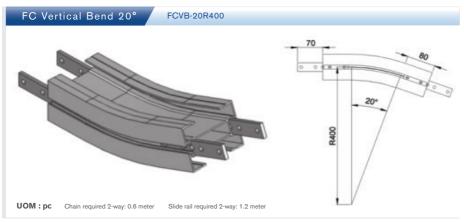
Chain required 2-way (300, 500, 700, 1000) : meter (variable to angle) Slide rail required 2-way(300, 500, 700, 1000): meter (variable to angle)

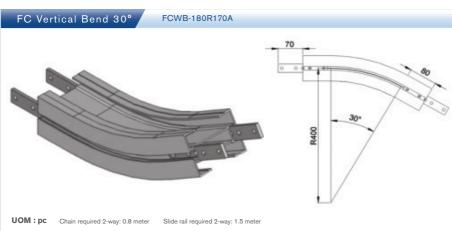


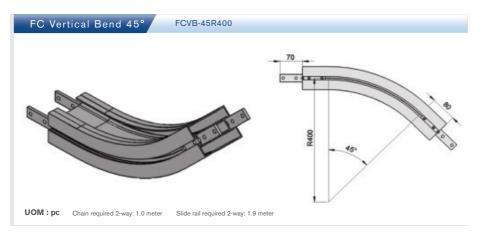


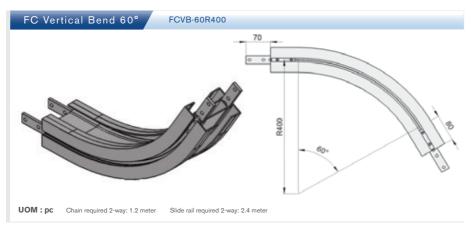


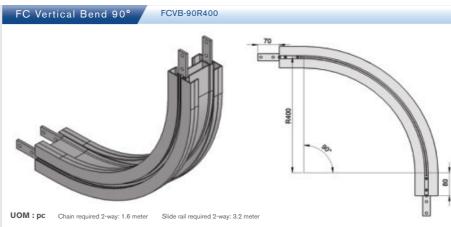


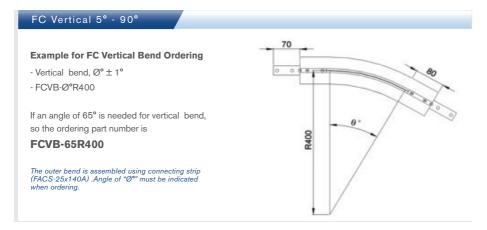
















Variety of chain type suitable for wide range of applications either horizontal or vertically product transportation. Capacity higher than FK, FS, FM. The maximum product width to be conveyed can be referred to guide rail assembly pages.

#### **FL Series Characteristic**

Beam Width: 150mm

Product Width: Refer to Guide Rail Assembly

#### **Accessories Needed**

Slide Rail Required: FASR-25 OR FASR-25U
Slide Rail Colour: White Or Natural Colour

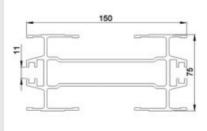
Slide Rail Material: HDPE OR UHMW

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

Connecting strip is used to connect 2 beams.

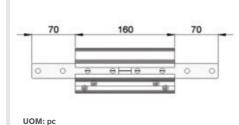
Connecting Strip: FACS-25x140A

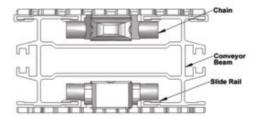
# Conveyor Beam FLCB-3



UOM: 3 Meter / Length

# Chain Connecting Module FLCC-160









#### **Chain Common Data**

Packaging: 5m per box Pitch: 35.5mm

Width: 150mm

Tensile Strength at 20°C: 6000N Colour: White & Black (Conductive)

#### Material :-

Chain: White Acetal / POM

Pivot: Polyamide

Pivot Pin: Stainless Steel

Insert (Wedge & Friction): TPE Grey

Example for FLRC-5B-L#
# = 1 cleated top chain with alternate

of # link of plain chain

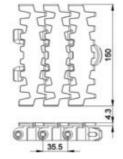


The above chain is FLRC-5B-L1, 1 link cleated top chain with alternate of 1 link of plain chain.

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

#### Standard Plain Chain FLPC-5

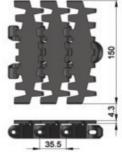




UOM: 5 Meter / box

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

# Conductive Chain FLPC-5CD



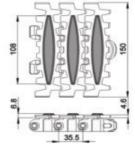
UOM: 5 Meter / box

Application: Suitable for transport of static sensitive product.



#### Conductive Chain FLFT-5



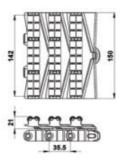


UOM: 5 Meter / box

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

# Roller Top Chain FLRT-5V



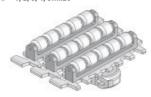


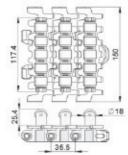
#### UOM: 5 Meter / box

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

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

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



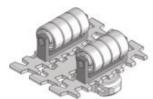


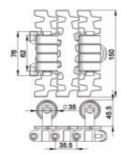
#### UOM: 5 Meter / box

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

# Roller Cleat Chain FLRC-5B-L#

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



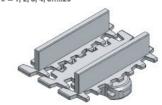


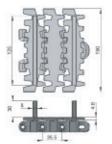
UOM: 5 Meter / box

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

# Cleat Top Chain FLCT-5A30-L#

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

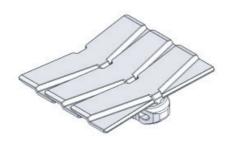


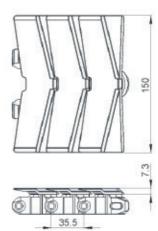


#### UOM: 5 Meter / box

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

# Standard Plain Chain-V FLPC-5V



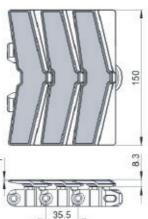


#### UOM: 5 Meter / box

 $\label{eq:chain-substitute} \mbox{Application: (Safety Chain) Suitable for horizontal and slope $< 5^{\circ}$ transport of products with accumulation.}$ 

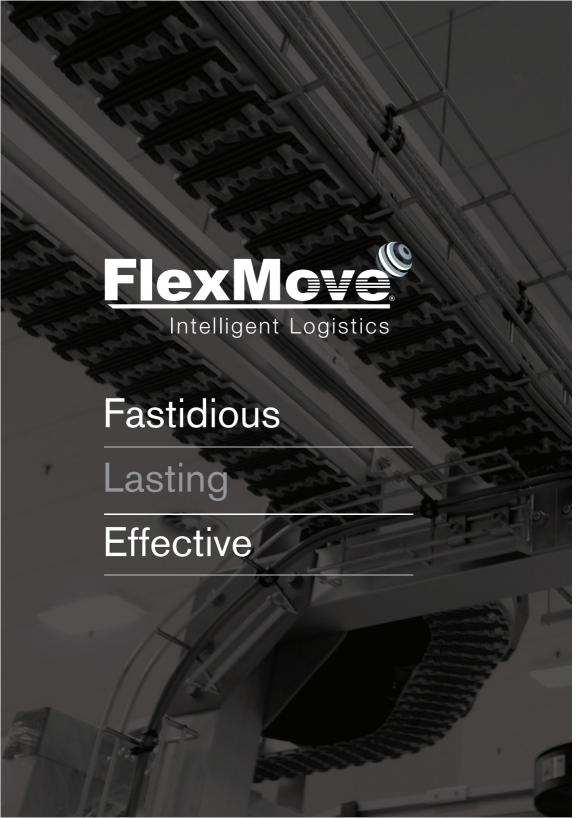
# Safety Chain Friction Top FLFT-5V





#### UOM: 5 Meter / box

Application: (Safety Chain ) Suitable for transport prouct in slope > 5 ° but  $\le$  30 ° without accumulation.

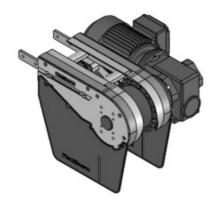


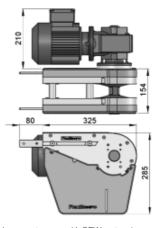
# FL Direct End Drive with Motor (LEFT)

FL Direct End Drive without Motor (LEFT)

FLDD-A150-0 25L 0 37L 0 55L

FI DD-A150-01





#### Max Traction Force: 1250N

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FLDD-A150-0L represents direct drive without gear motor. Multi channel drives are available upon request.

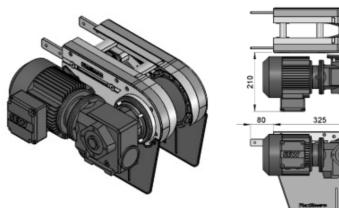
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

# FL Direct End Drive with Motor (RIGHT)

FL Direct End Drive without Motor (RIGHT)

FLDD-A150-0.25R, 0.37R, 0.55F

FLDD-A150-0R



#### **Max Traction Force: 1250N**

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FLDD-A150-0R represents direct drive without gear motor. Multi channel drives are available upon request.

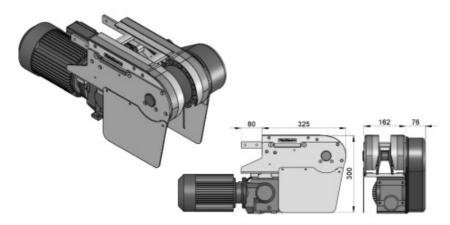
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

# FL Suspended End Drive with Motor (LEFT)

FL Suspended End Drive without Motor (LEFT)

FLSD-A150-0.25L, 0.37L, 0.55L

FLSD-A150-0I



#### **Max Traction Force: 1250N**

The Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FLSD-A150-0L represents suspended drive without gear motor.

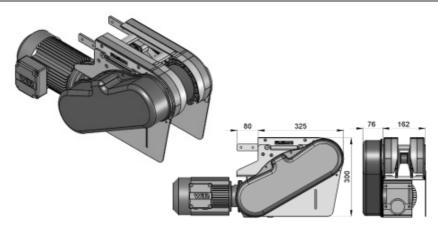
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

# FL Suspended End Drive with Motor (RIGHT)

FL Suspended End Drive without Motor (RIGHT)

FLSD-A150-0.25R, 0.37R, 0.55F

FLSD-A150-0F



#### Max Traction Force: 1250N

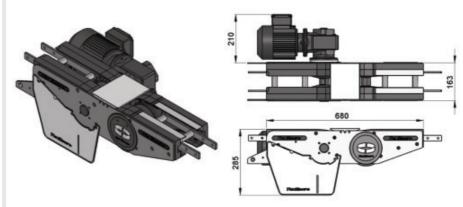
The Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FLSD-A150-0R represents suspended drive without gear motor.

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

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

FLCDI-DD-0.25L1, 0.37L1, 0.55L1

FI CDI-DD-01 1



#### Max Traction Force: 1250N

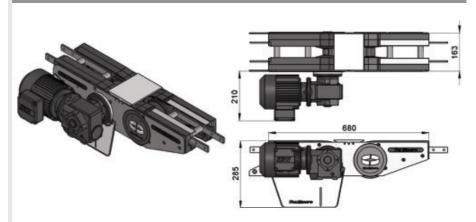
The Combine Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FLCDI-DD-0L1 represents direct drive without gear motor.

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

# FL Combined Direct Drive & Idler (RIGHT)

FLCDI-DD-0.25R1, 0.37R1, 0.55R1

FLCDI-DD-0R1



#### **Max Traction Force: 1250N**

The Combine Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FLDI-DD-0R1 represents direct drive without gear motor.

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

# FL Combined Suspended Drive & Idler (LEFT)

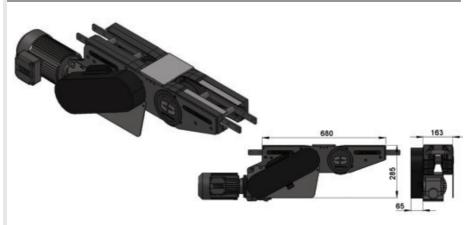


#### Max Traction Force: 1250N

The Combine Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FLCDI-SD-0L1 represents suspended drive without gear motor.

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

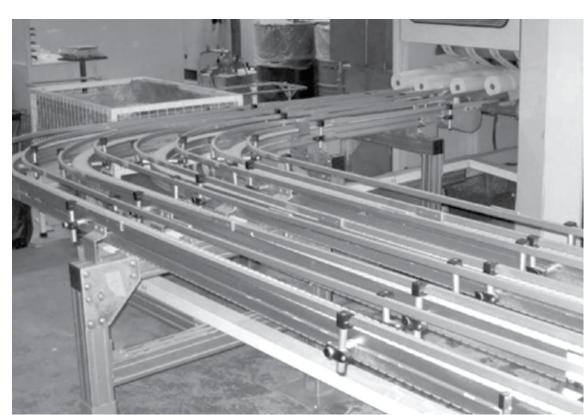
#### FL Combined Suspended Drive & Idler (RIGHT)

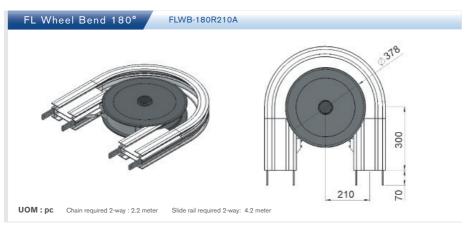


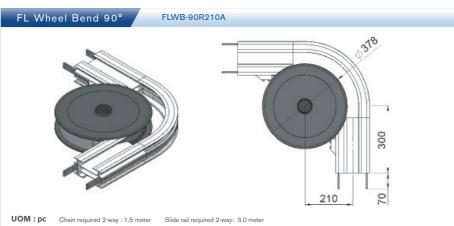
# Max Traction Force: 1250N

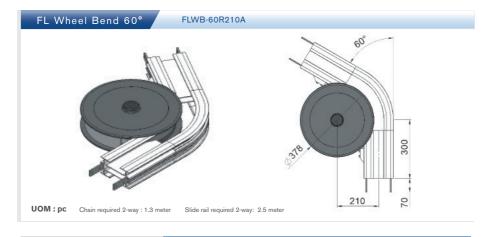
The Combine Suspended End Drive Unit is with torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FLCDI-SD-0R1 represents direct drive without gear motor.

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

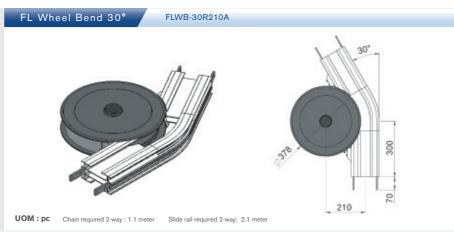


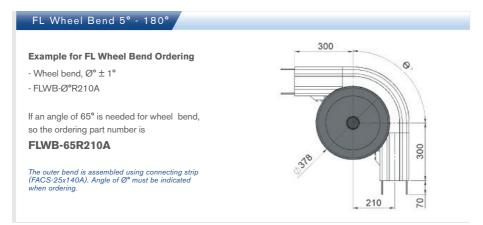










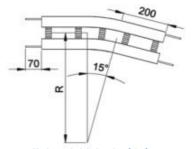


# FL Horizontal Plain Bend 15°



#### UOM:pc

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



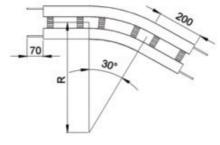
#### Horizontal plain bend, 15° ± 1°

# FL Horizontal Plain Bend 30°



#### UOM:pc

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



#### Horizontal plain bend, 30° ± 1°

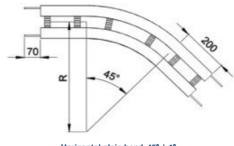
 $\begin{aligned} R &= 500 \pm 10 mm & & \text{FLHB-30R500} \\ R &= 700 \pm 10 mm & & \text{FLHB-30R700} \\ R &= 1000 \pm 10 mm & & \text{FLHB-30R1000} \end{aligned}$ 

# FL Horizontal Plain Bend 45°



#### UOM: pc

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



#### Horizontal plain bend, 45° ± 1°







# FL Horizontal Plain Bend 5° - 180°

# **Example for FL Horizontal Plain Bend Ordering**

# Horizontal plain bend, $\emptyset$ ° $\pm$ 1°

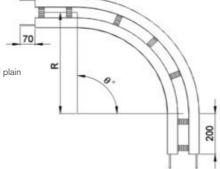
 $R = 500 \pm 10 mm$  FLHB-  $0^{\circ}R500$   $R = 700 \pm 10 mm$  FLHB-  $0^{\circ}R700$  $R = 1000 \pm 10 mm$  FLHB-  $0^{\circ}R1000$ 

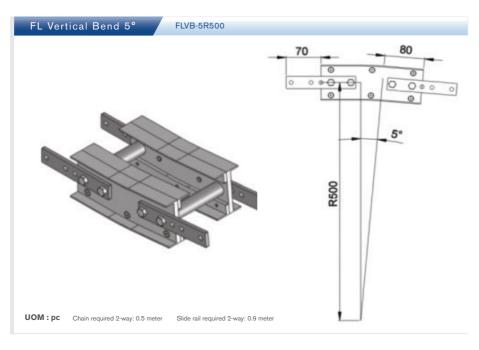
If an angle of 120° is needed for radius R500 horizontal plain bend, so the ordering part number is

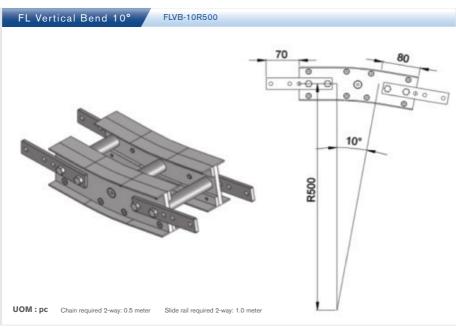
#### FLHB-120R500

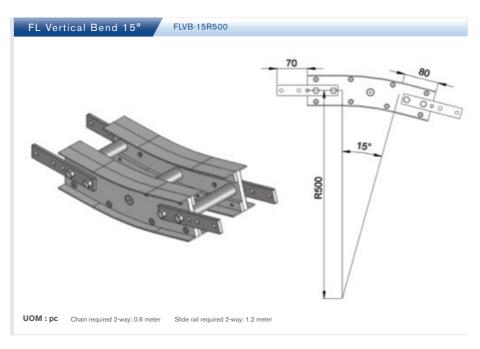
#### UOM: pc

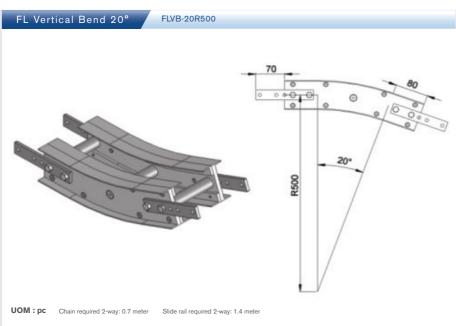
Chain required 2-way (500, 700, 1000): meter (variable to angle)
Slide rail required 2-way (500, 700, 1000): meter (variable to angle)

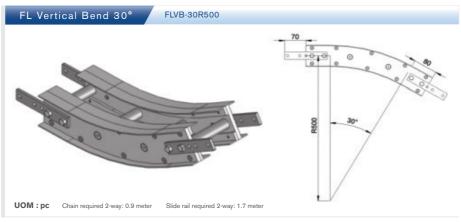


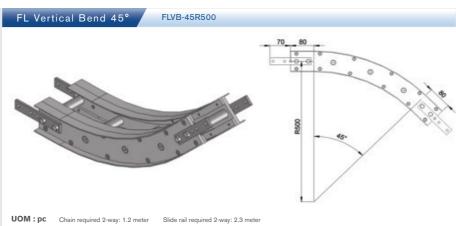


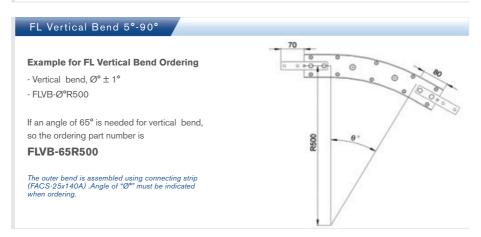


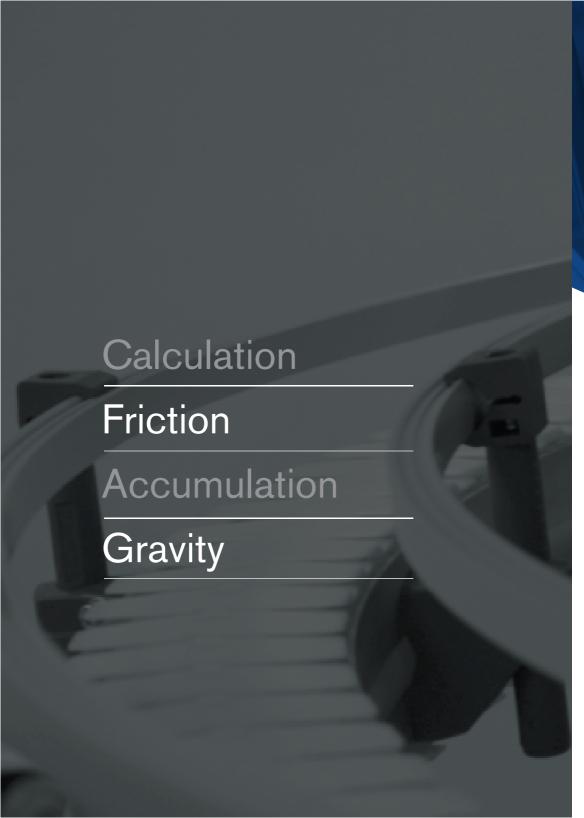


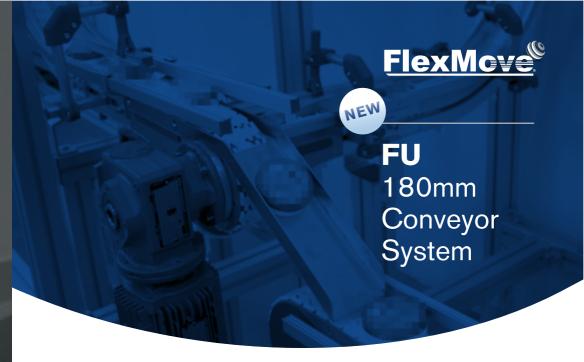


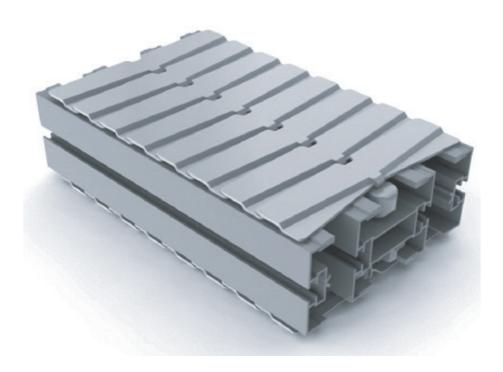












#### FU SERIES

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

#### **FU180 Series Characteristic**

Beam Width: 179mm

Product Width: Refer to Guide Rail Assembly

#### **Accessories Needed**

 $\textbf{Slide Rail Required:} \ \mathsf{FASR-25} \ , \ \mathsf{FASR-25U} \ , \ \mathsf{FASR-25X}$ 

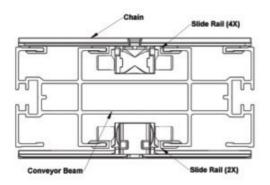
Slide Rail Colour: White Or Natural Colour

Slide Rail Material: HDPE, UHMW OR SPECIAL PE

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

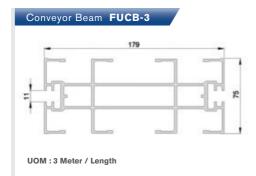
Connecting strip is used to connect 2 beams.

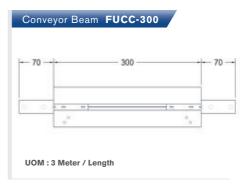
Connecting Strip: FACS-25x140A









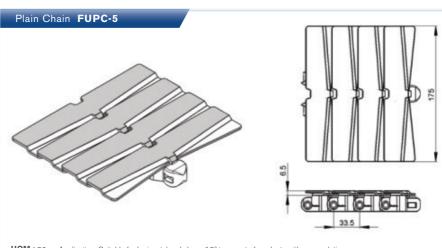


## **Chain Common Date**

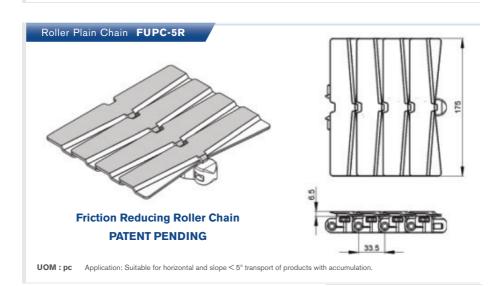
Packaging: 5m per box

Pitch: 33.5mm Width: 175mm

Tensile Strength at 20°C: 6000N **Colour**: White & Black (Conductive)

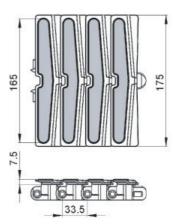


**UOM:** pc Application: Suitable for horizontal and slope < 5° transport of products with accumulation.



## Friction Top Chain FUFT-5

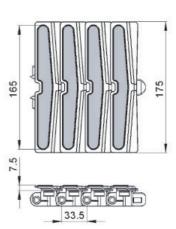




**UOM:5 Meter / box** Application: Suitable for horizontal and slope < 5° transport of products with accumulation.

## Roller Friction Top Chain FUFT-5R





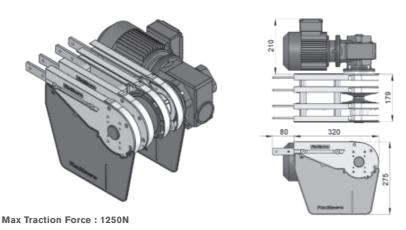
# Friction Reducing Roller Chain PATENT PENDING

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

#### FU Direct End Drive with Motor (LEFT)

FUDD-A180-025R, 0.37L, 0.55L

#### FUDD-A180-0L



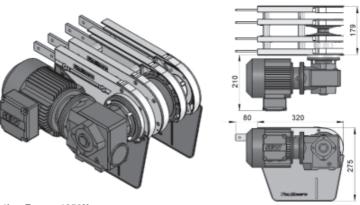
The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FUDD-A180-0L represents direct drive without gear motor. Multi channel drives are available upon request.

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

## FU Direct End Drive with Motor (RIGHT)

FUDD-A180-025R 0.37R 0.55F

#### FUDD-A180-0R



## **Max Traction Force: 1250N**

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FUDD-A180-0R represents direct drive without gear motor. Multi channel drives are available upon request.

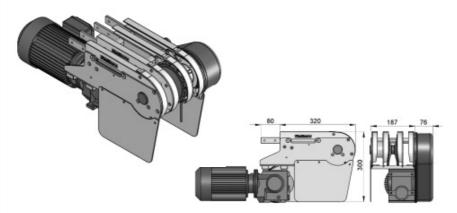
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0 meter

SEW gear motors are products of SEW Eurodrive

## FU Suspended Drive with Motor (LEFT)

FUSD-A180-0.25L, 0.37L, 0.55l

#### FUSD-A180-0L



#### Max Traction Force: 1250N

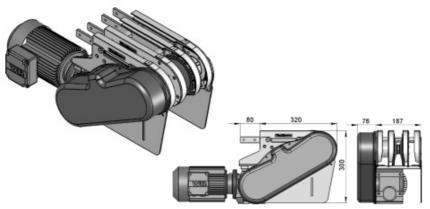
The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FUSD-A180-0L represents direct drive without gear motor. Multi channel drives are available upon request.

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

## FU Suspended Drive with Motor (RIGHT)

FUSD-A180-025R 0.37R 0.55R

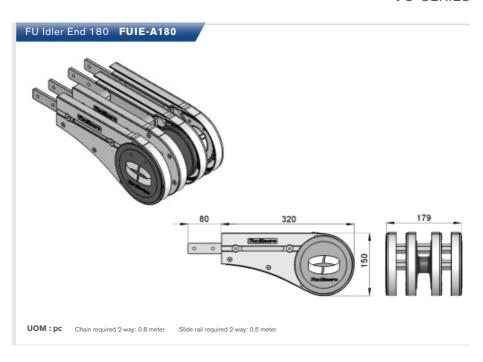
#### FUSD-A180-0R



## **Max Traction Force: 1250N**

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FUSD-A180-0R represents direct drive without gear motor. Multi channel drives are available upon request.

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

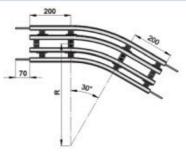


## FU Horizontal Plain Bend 30°



#### UOM:pc

Chain required 2-way (500, 700, 1000): 2.2, 2.4, 2.7 meter Slide rail required 2-way (500, 700, 1000): 5.4, 6.3, 7.5 meter



#### Horizontal plain bend, 30° ± 1°

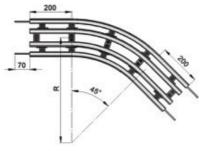
 $R = 500 \pm 10 mm$  FUHB-30R500  $R = 700 \pm 10 mm$  FUHB-30R700  $R = 1000 \pm 10 mm$  FUHB-30R1000

## FU Horizontal Plain Bend 45°



#### UOM:pc

 $\label{eq:Chain required 2-way (500,700,1000): 2.5, 2.8, 3.2 meter} \\$  Slide rail required 2-way( 500, 700, 1000): 6.5, 7.7, 9.6 meter



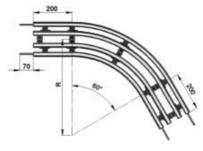
#### Horizontal plain bend, 45° ± 1°

## FU Horizontal Plain Bend 60°



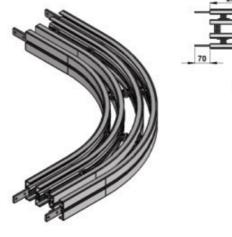
#### UOM: pc

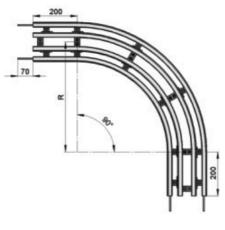
Chain required 2-way (500, 700, 1000): 2.7, 3.1, 3.8 meter Slide rail required 2-way (500, 700, 1000): 7.5, 9.2, 12.0 meter



#### Horizontal plain bend, 60° ± 1°

## FU Horizontal Plain Bend 90°





#### UOM:pc

Chain required 2-way ( 500, 700, 1000) : 3.2 , 3.9, 4.7 meter Slide rail required 2-way( 500, 700, 1000): 9.6, 12.1 , 16.0 meter

## Horizontal plain bend, 90° $\pm$ 1°

 $R = 500 \pm 10 mm$  FUHB-90R500  $R = 700 \pm 10 mm$  FUHB-90R700  $R = 1000 \pm 10 mm$  FUHB-90R1000

## FU Horizontal Plain Bend 5° - 180°

## **Example for FU Horizontal Plain Bend Ordering**

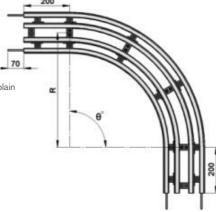
## Horizontal plain bend, $0^{\circ} \pm 1^{\circ}$

If an angle of  $120^{\circ}$  is needed for radius R500 horizontal plain bend, so the ordering part number is

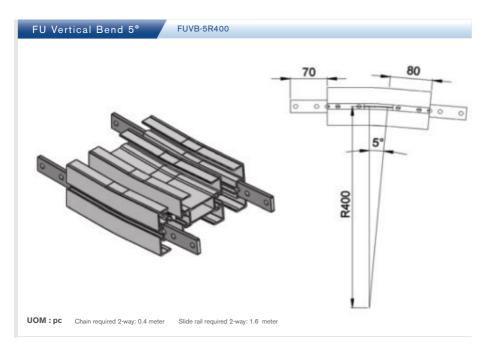
## **FUHB-120R500**

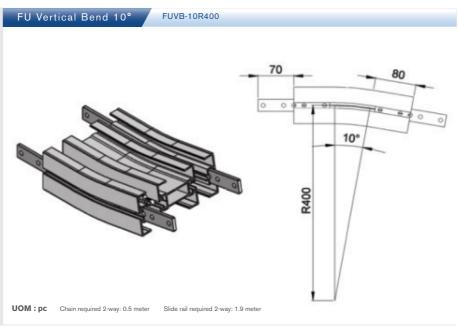
## UOM : pc

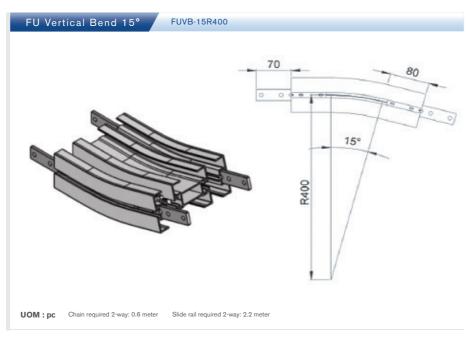
Chain required 2-way (500, 700, 1000): meter (variable to angle)
Slide rail required 2-way(500, 700, 1000): meter (variable to angle)

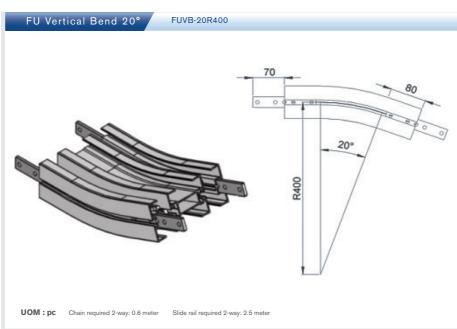


## FU SERIES

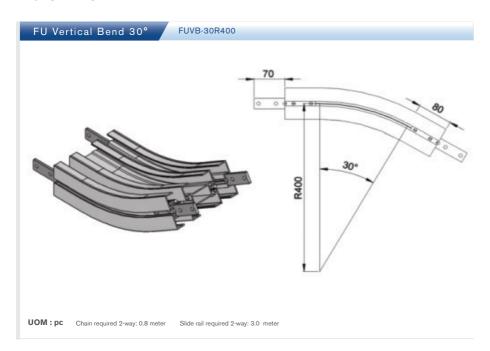


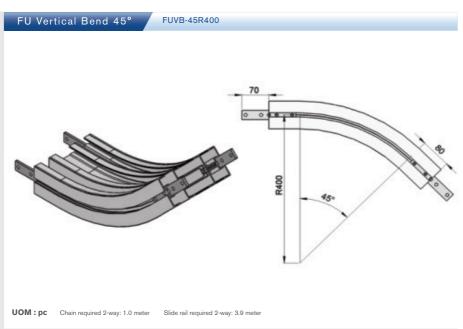


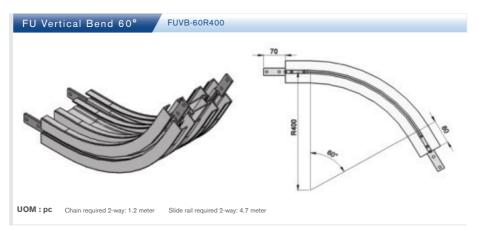


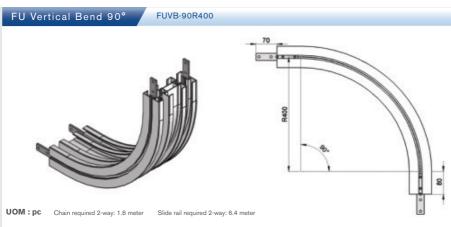


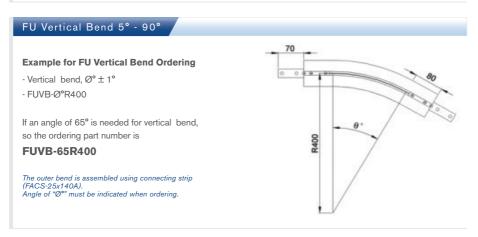
## FU SERIES



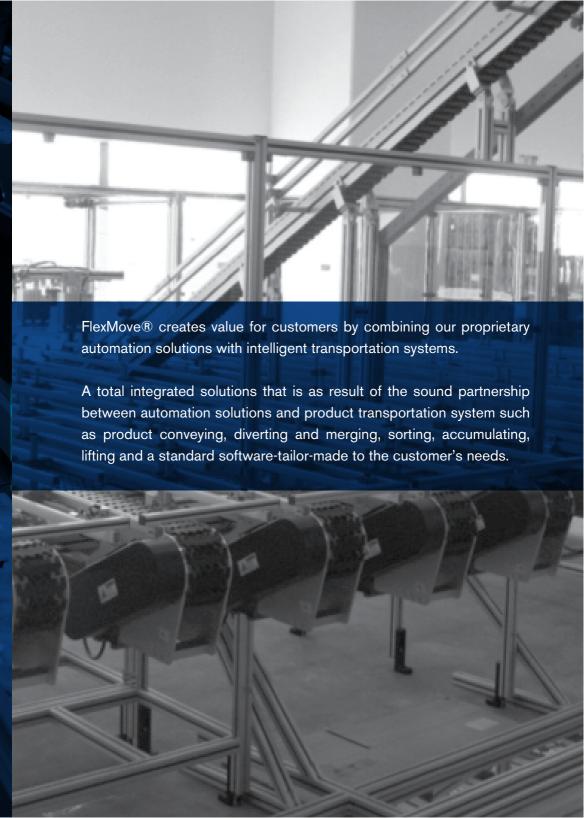






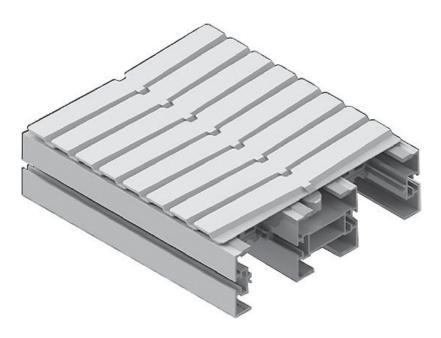












## **FV** SERIES

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

#### **FV Series Characteristic**

Beam Width: 260mm

Product Width: Refer to Guide Rail Assembly

## **Accessories Needed**

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

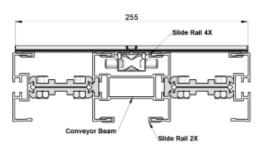
Slide Rail Colour: White Or Natural Colour

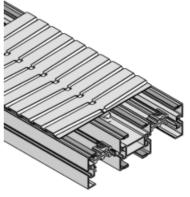
Slide Rail Material: HDPE, UHMW OR SPECIAL PE

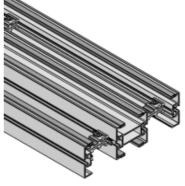
Slide Rail Rivet & Screw: FASLR-4X6 or FASLS-M5

Connecting strip is used to connect 2 beams.

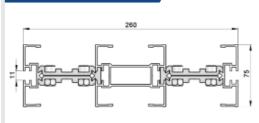
Connecting Strip: FACS-25x140A







## Conveyor Beam FVCB-3



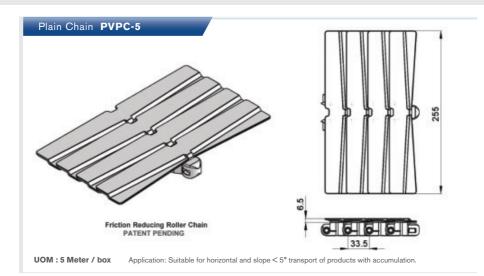
UOM: 3 Meter / Length

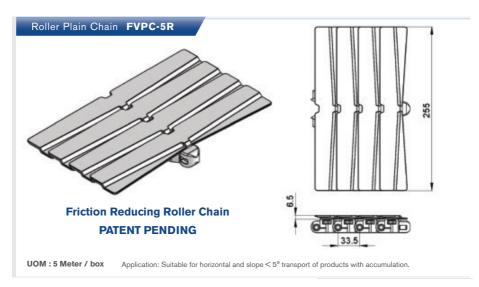
## **Chain Common Date**

Packaging: 5m per box

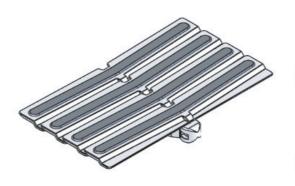
Pitch: 33.5mm Width: 255mm

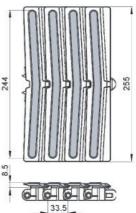
Tensile Strength at 20°C: 6000N **Colour**: White & Black (Conductive)





## Friction Top Chain FVFT-5

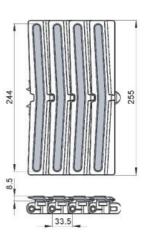




**UOM: 5 Meter / box** Application: Suitable for horizontal and slope < 5° transport of products with accumulation.

## Roller Friction Top Chain FVFT-5R

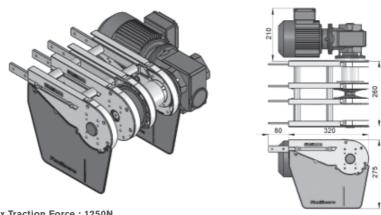




## Friction Reducing Roller Chain PATENT PENDING

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

#### FV Direct End Drive with Motor (LEFT)

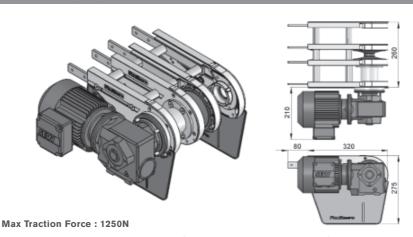


#### **Max Traction Force: 1250N**

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FVDD-A260-0L represents direct drive without gear motor. Multi channel drives are available upon request.

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

## FV Direct End Drive with Motor (RIGHT)



The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FVDD-A260-0R represents direct drive without gear motor. Multi channel drives are available upon request.

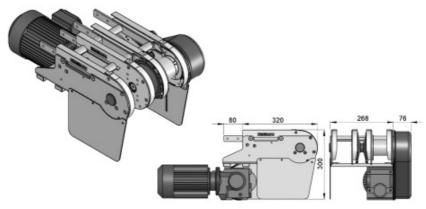
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0 meter

SEW gear motors are products of SEW Eurodrive

#### FV Direct End Drive with Motor (LEFT)

FVSD-A260-0.25L. 0.37L. 0.55L

FVSD-A260-0L



#### Max Traction Force: 1250N

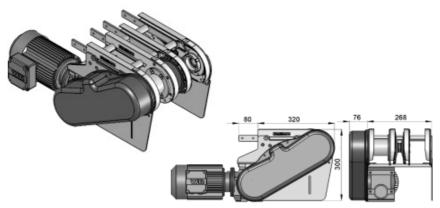
The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FVSD-A260-0L represents direct drive without gear motor. Multi channel drives are available upon request.

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

## FV Direct End Drive with Motor (RIGHT)

EVSD-A260-025R 0.37R 0.55R

FVSD-A260-0R

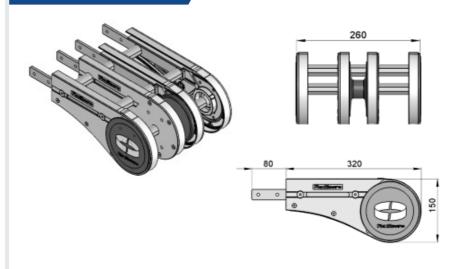


#### Max Traction Force: 1250N

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FVSD-A260-0R represents direct drive without gear motor. Multi channel drives are available upon request.

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

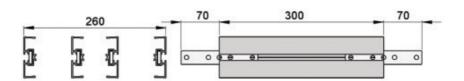
## FV Idler End 260 FVIE-A260



UOM:pc

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

## Chain Connecting Module FVCC-300



Beam section for chain installation.

UOM:pc

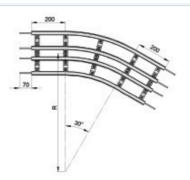
SEW gear motors are products of SEW Eurodrive

## FV Horizontal Plain Bend 30°



#### UOM:pc

Chain required 2-way (700, 1000): 1.6, 1.9 meter Slide rail required 2-way(700, 1000): 6.3, 7.5 meter



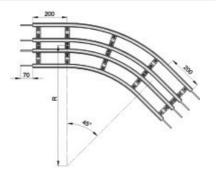
#### Horizontal plain bend, 30° ± 1°

## FV Horizontal Plain Bend 45°



#### UOM:pc

Chain required 2-way (700, 1000): 1.9, 2.4 meter Slide rail required 2-way(700, 1000): 7.7, 9.6 meter



#### Horizontal plain bend, 45° ± 1°

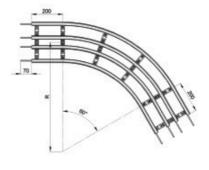
 $R = 700 \pm 10 mm \qquad \mbox{FVHB-45R700} \\ R = 1000 \pm 10 mm \qquad \mbox{FVHB-45R1000}$ 

## FV Horizontal Plain Bend 60°



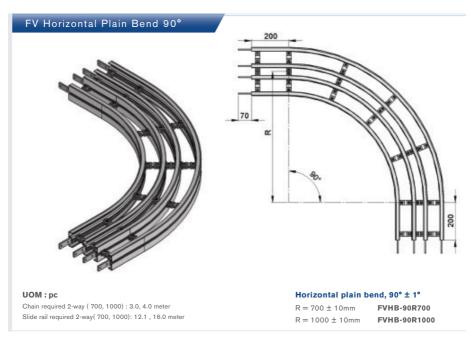
## UOM:pc

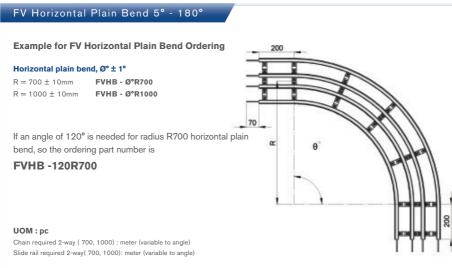
Chain required 2-way (700, 1000): 2.3, 2.9 meter Slide rail required 2-way(700, 1000): 9.2, 12.0 meter



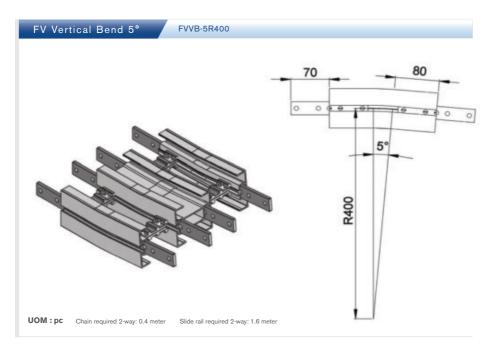
#### Horizontal plain bend, 60° ± 1°

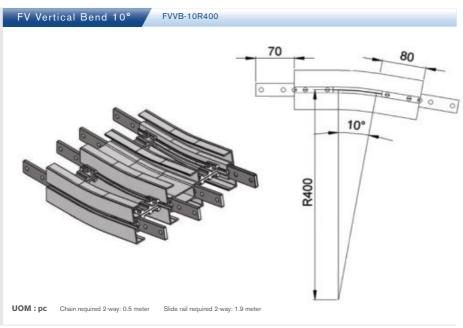
 $R = 700 \pm 10mm$  $R = 1000 \pm 10mm$  FVHB-60R700 FVHB-60R1000

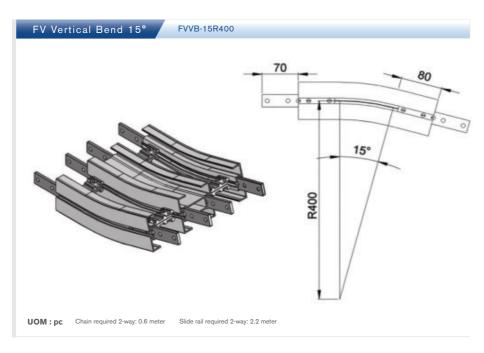


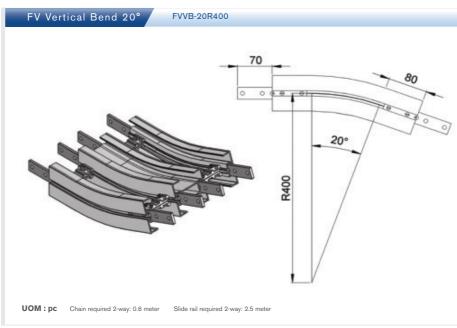


## FV SERIES

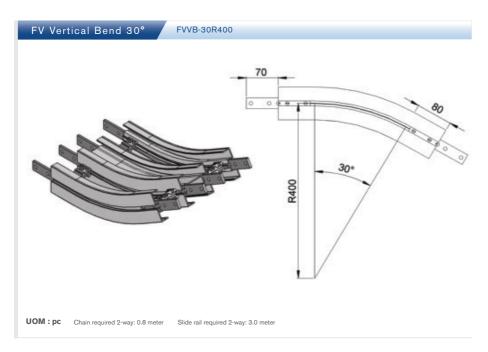


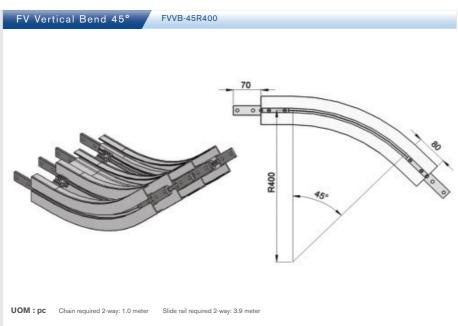




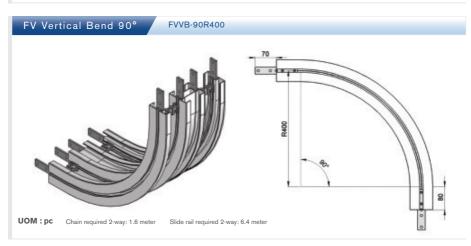


## FV SERIES





# 





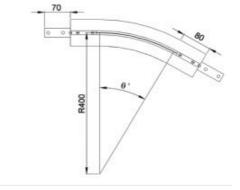
## **Example for FV Vertical Bend Ordering**

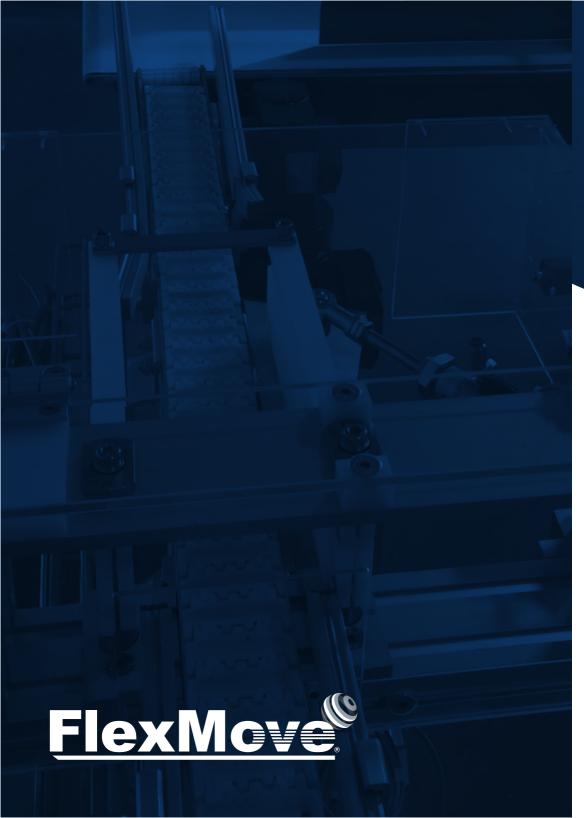
- Vertical bend,  $\varnothing$ °  $\pm$  1°
- FVVB-ذR400

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

## **FVVB-65R400**

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









## FW SERIES

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

#### **FW Series Characteristic**

Beam Width: 320mm

Product Width: Refer to Guide Rail Assembly

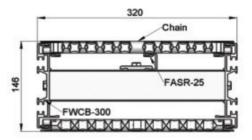
## **Accessories Needed**

Slide Rail Required: FASR-25 OR FASR-25U Slide Rail Colour: White Or Natural Colour Slide Rail Material: HDPE OR UHMW-PE

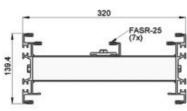
Slide Rail Rivet & Screw: FASLR-4X6 or FASLS-M5

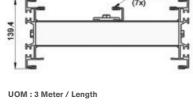
Connecting strip is used to connect 2 beams.

Connecting Strip: FACS-25x140A



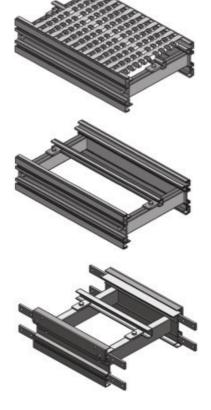
## Conveyor Beam FWCB300-3





Chain Connecting Module FWCC-300

# 300 70 70 UOM: pc



## **Chain Common Date**

Packaging: 3m per box, 1m per box

Pitch: 36.5 mm Width: 300mm

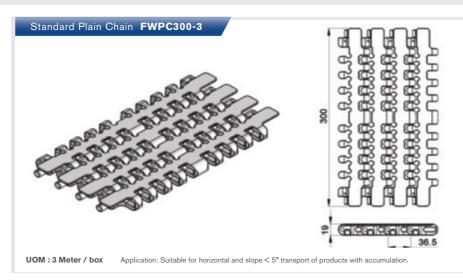
Tensile Strength at 20°C: 18000N

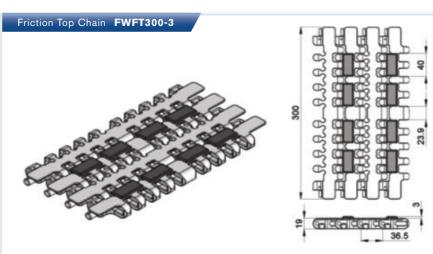
Colour: White

## Material:-

Chain: White Acetal / POM (white colour)

Pin: Nylon



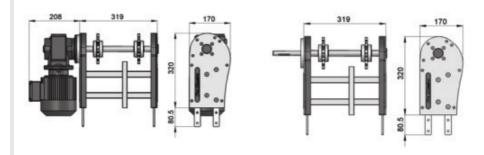


Application: Suitable for transport product in slope > 5 ° but <= 30 ° without accumulation.

UOM: 3 Meter / box

#### FW Direct End Drive with Motor (LEFT)

#### FW Direct End Drive without Motor (LEFT)



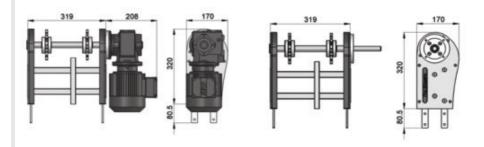
#### **Max Traction Force: 500N**

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FWDD-0L represents direct drive without gear motor. Multi channel drives are available upon request.

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

## FW Direct End Drive with Motor (RIGHT)

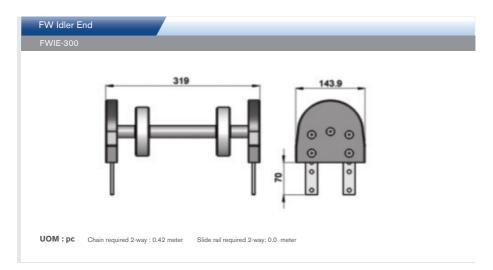
FW Direct End Drive without Motor (RIGHT)

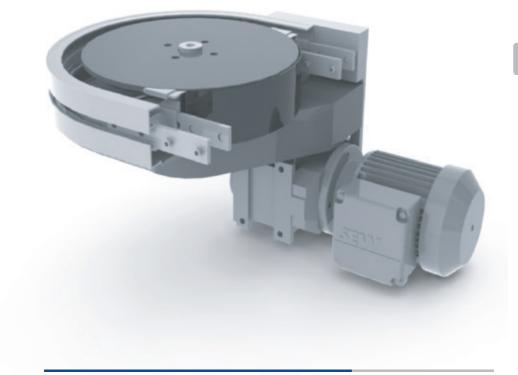


#### **Max Traction Force: 1250N**

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. FWDD-0R represents direct drive without gear motor. Multi channel drives are available upon request.

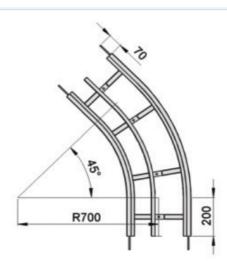
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.4 meter





## FW Horizontal Plain Bend 45°





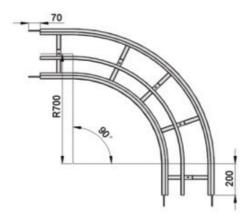
## UOM:pc

Chain required 2-way 1.9 meter Slide rail required 2-way 7.6 meter

## Horizontal plain bend, 45° ± 1°

## FW Horizontal Plain Bend 90°

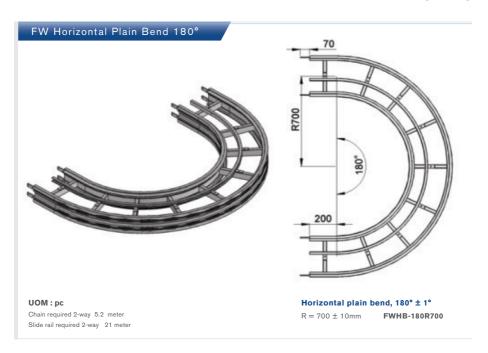




#### UOM:pc

Chain required 2-way 3.0 meter Slide rail required 2-way 12.5 meter

## Horizontal plain bend, 90° ± 1°



## FW Horizontal Plain Bend 5-180°

## **Example for FW Horizontal Plain Bend Ordering**

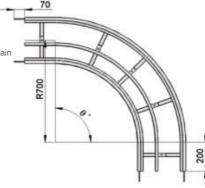
## Horizontal plain bend, $0^{\circ} \pm 1^{\circ}$

 $R = 700 \pm 10 mm$ 

FWHB - ذR700

If an angle of 120° is needed for radius R700 horizontal plain bend, so the ordering part number is

## FWHB -120R700

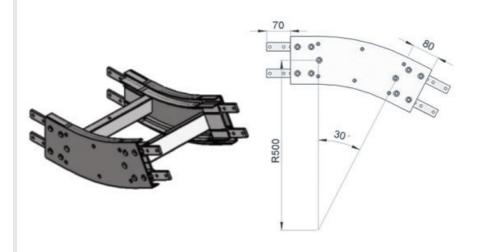


#### UOM: pc

Chain required 2-way R700 : meter (variable to angle)
Slide rail required 2-way R700 : meter (variable to angle)

## FW Vertical Bend 30°

#### FWVB-30R500



**UOM: pc** Chain required 2-way: 0.8 meter Slide rail required 2-way: 4.2 meter

## FW Vertical Bend 5° - 90°

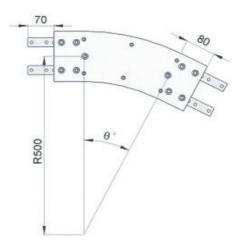
## **Example for FW Vertical Bend Ordering**

- FW Vertical Bend. ذ ± 1°
- FWVB-ذR500

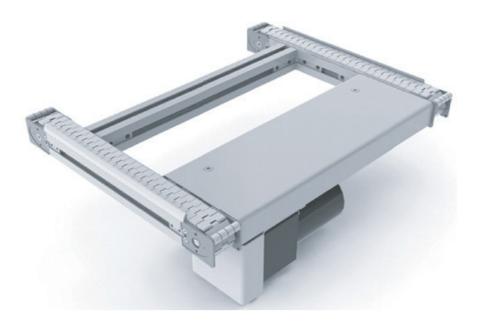
If an angle of 40° is needed for vertical bend, so the ordering part number is

## FWVB-40R500

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







FH Series is a compact and neat design for Twin track application for pallet assembly line.

### **FH Series Characteristic**

Beam Width: 45mm

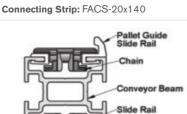
### **Accessories Needed**

Slide Rail Required: FASR-25C OR FASR-25S

Slide Rail Colour: White Slide Rail Material: HDPF

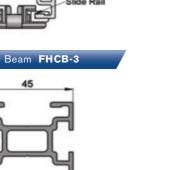
Slide Rail Rivet & Screw: FASLR-3X6

Connecting strip is used to connect 2 beams.

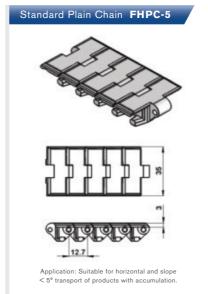


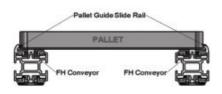
### Conveyor Beam FHCB-3 45

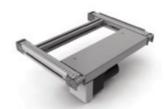
UOM: 3 Meter / Length

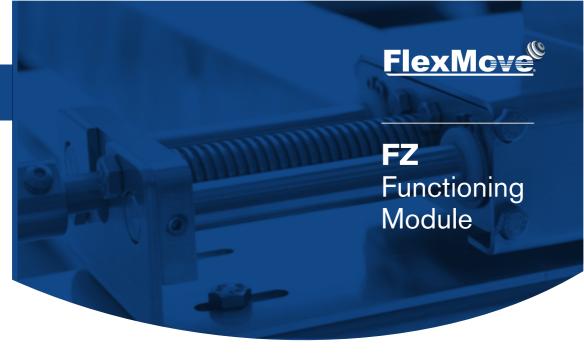


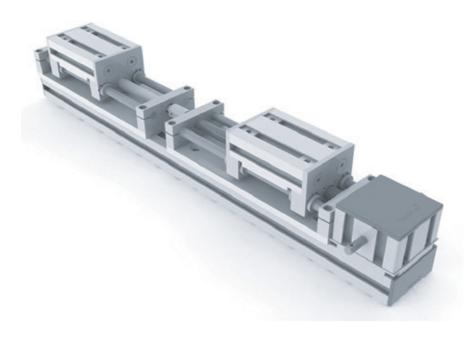




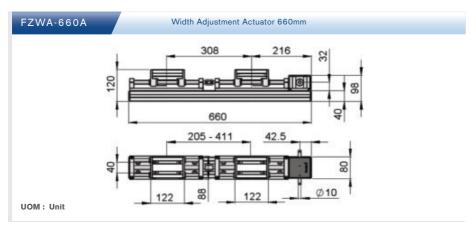


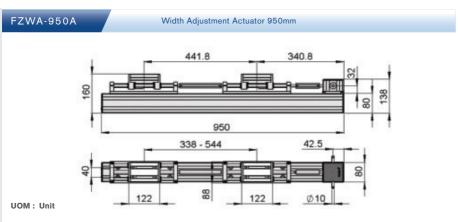


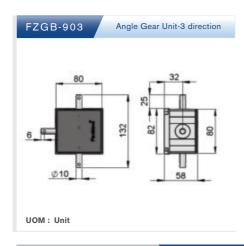


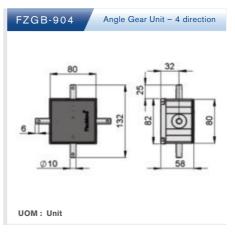


### FZ SERIES



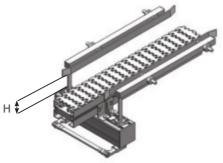


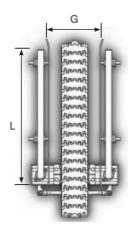




### Centering Device

### FZCD - L x H x G





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

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

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

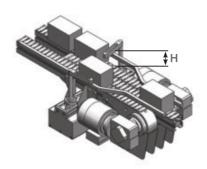
Standard Arm Gap (G): 140 mm (FS) , 160mm (FM) , 180mm (FC) , 225mm (FL) , 255mm (FU) , 374mm (FW) Applicable to all FlexMove chain series.

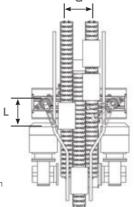
Please specify: 1) Conveyor Series, 2) Product Dimension (L x W x H) during order.

**UOM**: Unit

### Parallel Traffic Cop

### FZPTC - L x H x G





Application: Product flow control / merging.

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

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

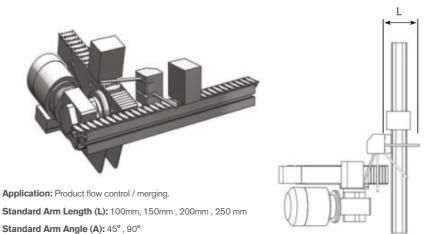
 $\textbf{Standard Arm Gap (G):} \ 360 \text{mm (FS)} \ , \ 420 \text{mm (FM)} \ , \ 480 \text{mm (FC)} \ , \ 615 \text{mm (FL)} \ , \ 705 \text{mm (FU)} \ , \ 1065 \text{mm (FW)} \ , \ 420 \text{mm (FW)} \ , \ 480 \text{mm (FC)} \ , \ 615 \text{mm (FL)} \ , \ 705 \text{mm (FW)} \ , \ 1065 \text{mm (FW)} \ , \ 10$ 

Applicable to all FlexMove chain series.

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

### Angle Traffic Cop

### FZPTC - L x H x G



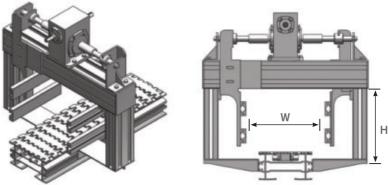
Applicable to all FlexMove chain series.

Please specify: 1) Conveyor Series, 2) Product Dimension (LxWxH), 3) Diverting Angle during order.

**UOM: Unit** 

### Adjustment Side guide

### FZASG - H x W



Application: Manual adjustable guide rail for multiple product size

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

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

Applicable to all FlexMove chain series.

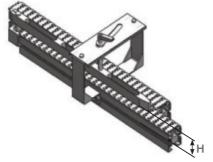
Please specify : 1) Conveyor Series ,  $\,$  2) Product Dimension (L x W x H)



### Manual Diverter

**UOM: Unit** 

### FZMD - L x H x A





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

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

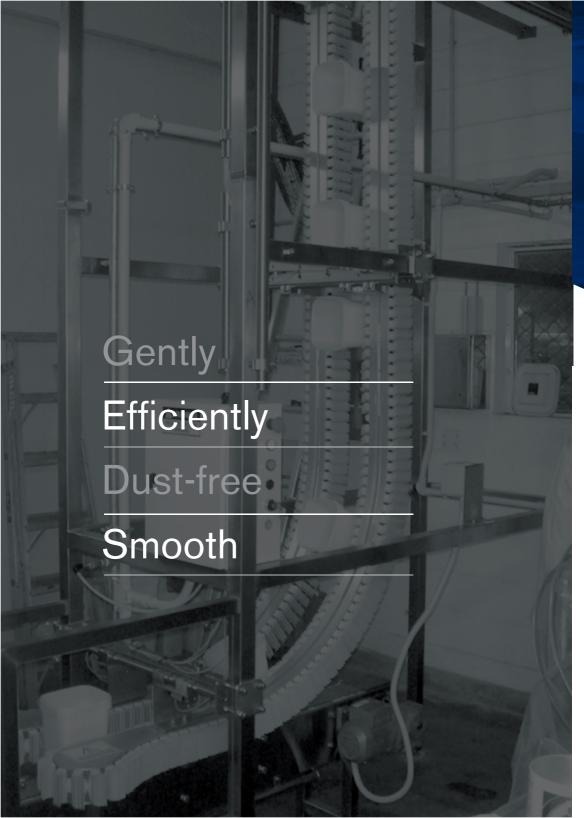
Standard Arm Angle (A): 5° - 60°

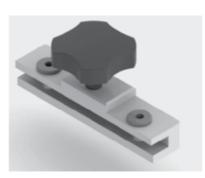
Applicable to all FlexMove chain series.

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

**UOM: Unit** 

CHINO









### FY SERIES

### FY-RCD

Rivet Crimp Die



The head of the rivet tool for pressing the rivet.

UOM : Pair

### FY-MRT

**Riveting Tool** 



Rivet Tools for FASLR-4x6mm.

UOM: Unit

### FY-SRC

Slide Rail Cutter



Ease to cut the slide rail during installation.

UOM: Unit

### FY-DFX

Drill Fixture for Slide rail



Ease to fix the drill point for rivet.

### ₹

### FY-F\_CIT/CRT



Tools for mounting the slide rail towards the beam.

- -FY-FK-CIT/CRT for FK series
- -FY-FS-CIT/CRT for FS series
- -FY-FM-CIT/CRT for FM series
- -FY-FCL-CIT/CRT for FC series/FL series
- -FY-FU-CIT/CRT for FU series
- -FY-FW-CIT/CRT for FW Series

**UOM:** Unit

### FZGB-903

Angle Gear Unit-3 direction



Tools for mounting the slide rail towards the beam.

- -FY-FKMT for FK series
- -FY-FSMT for FS series
- -FY-FMMT for FM series
- -FY-FCMT for FC series/FL series
- -FY-FUMT for FU series
- -FY-FWMT for FW series

**UOM**: Unit

### FY-RT

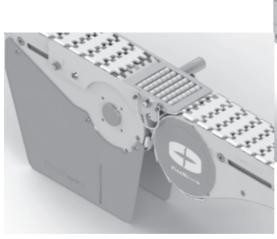
Riveting Tool

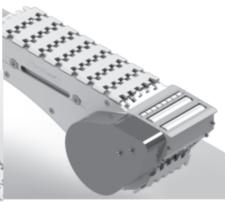


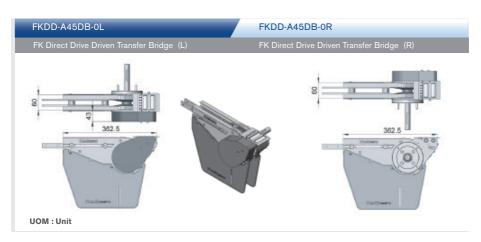
Rivet Tools for slide rail.

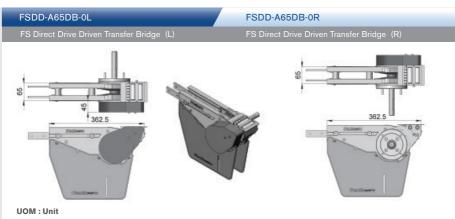




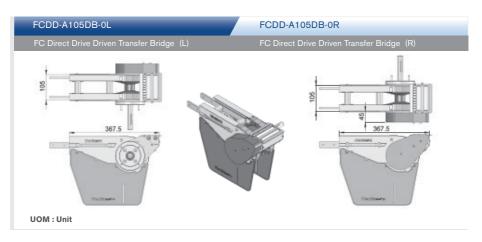


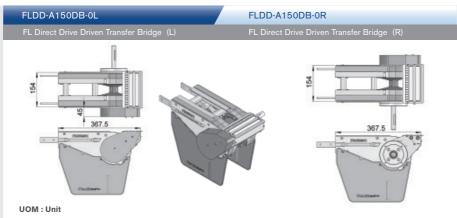






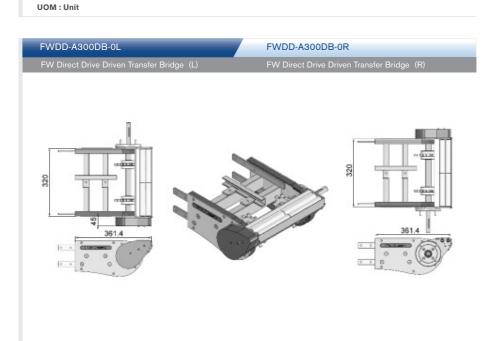








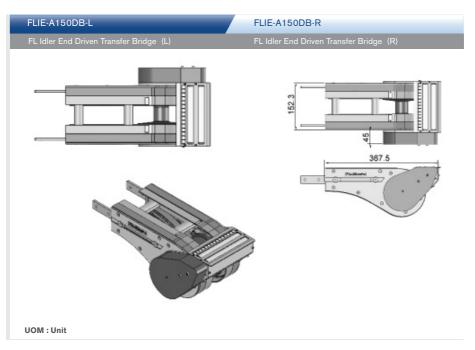
# FVDD-A260-DB-0L FV Direct Drive Driven Transfer Bridge (L) FV Direct Drive Driven Transfer Bridge (R)

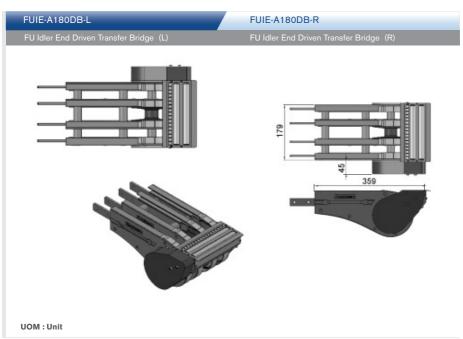


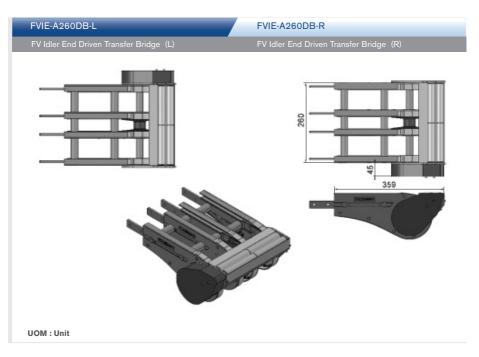


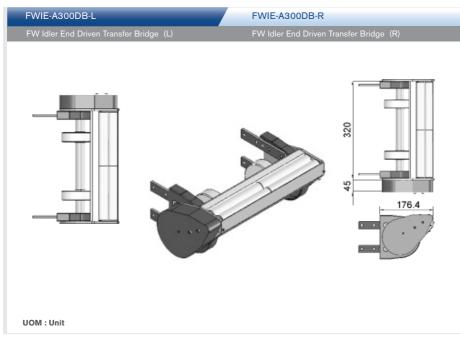








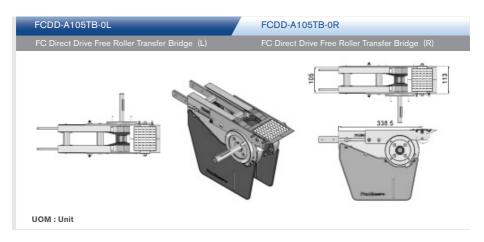


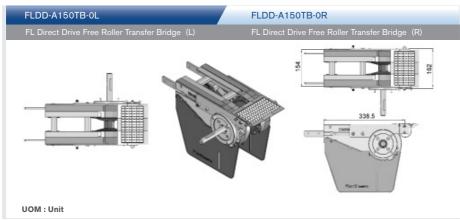






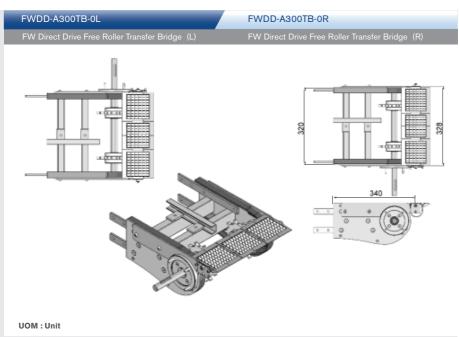










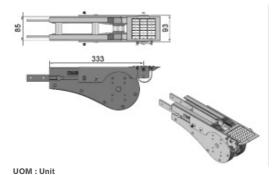


### FSIE-A65TB FSTB-A65 **UOM: Unit UOM: Unit**

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







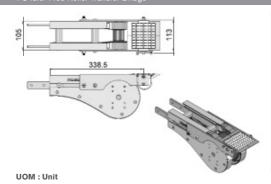
### FMTB-A85

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**: Unit

### FCIE-A105TB



### FCTB-A105

Transfer bridge c/w roller for FCIE-A105 Transfer bridge c/w roller for FCDD-A105-0L Transfer bridge c/w roller for FCDD-A105-0R



## FLIE-A150TB FL Idler Free Roller Transfer Bridge Transfer bridge c/w roller for FLIE-A150 Transfer bridge c/w roller for FLDD-A150-0L Transfer bridge c/w roller for FLDD-A150-0R UOM: Unit



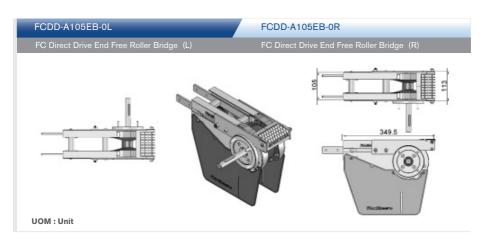


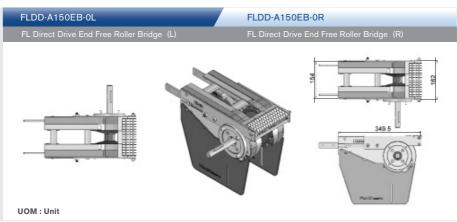




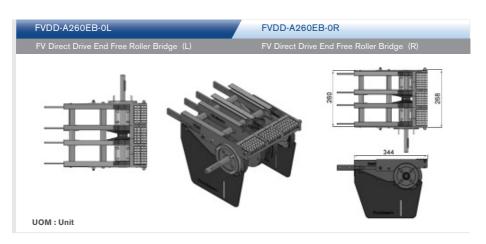


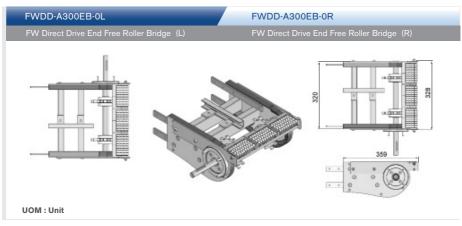










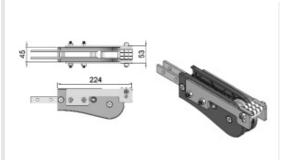


# End transfer bridge c/w roller for FWDD-A300-0L End transfer bridge c/w roller for FWDD-A300-0R UOM: Unit

### FKIE-A45EB-200 FK Idler-200 End Fre

### FKEB-A45-200

End transfer bridge c/w roller for FKIE-200





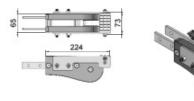
UOM : Unit UOM : Unit

### FSIE-A65EB-200

### ES Idler-200 End Free Roller Bridge

### FSEB-A65-200

End transfer bridge c/w roller for FSIE-200







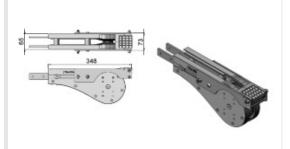
UOM : Unit

### FSIE-A65EB

**UOM: Unit** 

**UOM: Unit** 

### FS Idler End Free Roller Bridge



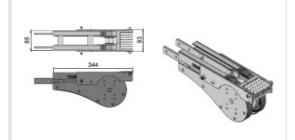
### FSEB-A65

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



### FMIE-A85EB

FM Idler End Free Roller Bridge



UOM : Unit UOM : Unit

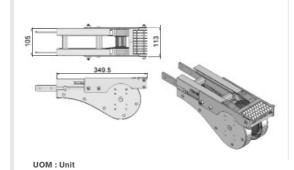
### FMEB-A85

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



### FCIE-A105EB

FC Idler End Free Roller Bridge



### FCEB-A105

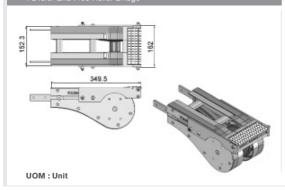
End transfer bridge c/w roller for FCIE-A105 End transfer bridge c/w roller for FCDD-A105-0L End transfer bridge c/w roller for FCDD-A105-0R



**UOM: Unit** 

### FLIE-A150EB

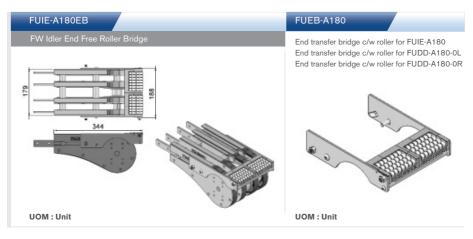
FL Idler End Free Roller Bridge



### FLEB-A150

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

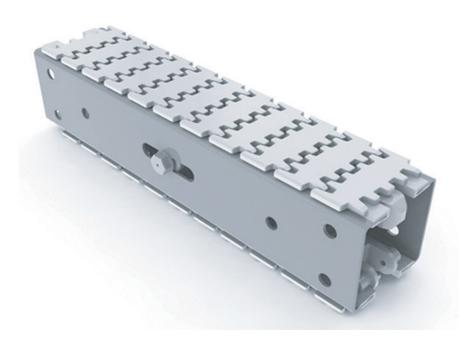












Variety of chain type suitable for wide range of applications either horizontal or vertically product transportation.

### **FV Series Characteristic**

Beam Width: 65mm

Product Width: Refer to Guide Rail Assembly

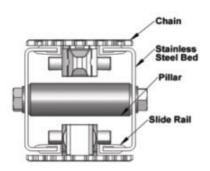
### **Accessories Needed**

Slide Rail Required: FASR-25 OR FASR-25U
Slide Rail Colour: White Or Natural Colour
Slide Rail Material: HDPE OR UHMW

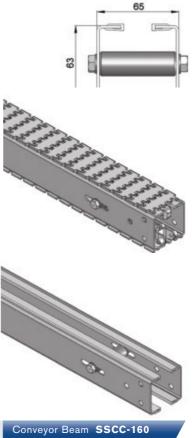
Slide Rail Rivet: FASLS-M5

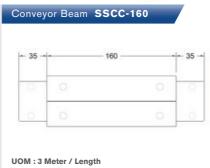
Connecting strip is used to connect 2 beams.

Connecting Strip: SACS-50x75











### **Chain Common Data**

Packaging: 5m per box

Pitch: 25.4mm Width: 63mm

Tensile Strength at 20°C: 4000N

Colour: 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

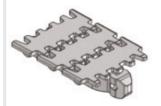
of # link of plain chain

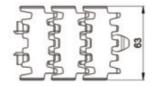


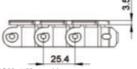
The above chain is FSCT-5A17-L1, 1 link cleated top chain with alternate of 1 link of plain chain.

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

### Standard Plain Chain FSPC-5





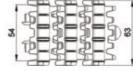


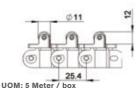
UOM: 5 Meter / box

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

### Roller Top Chain FSRT-5



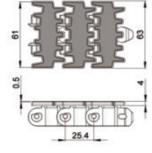




Application: Suitable for accumulation of product with low friction and pressure.

### Friction Top Chain FSFT-5

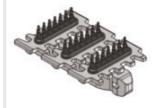


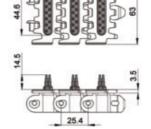


### UOM: 5 Meter / box

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

### Wedge Top Chain FSWT-5A





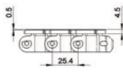
UOM: 5 Meter / box

Application: Vertical Wedge transportation of products.

### S/steel Top Chain FSST-5S





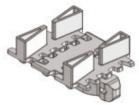


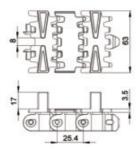
UOM: 5 Meter / box

Application: Suitable to transport metal products in accumulation.

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

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



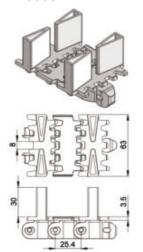


UOM: 5 Meter / box
Application: Suitable for vertical transport of

product with no accumulation.

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

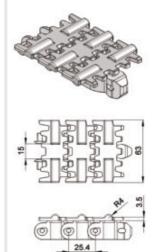
# = 1, 2, 3, 4, 5.....20



UOM: 5 Meter / box

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

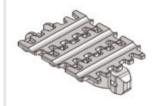
### Cleat Top Chain-B FSCT-5B

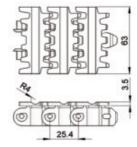


UOM: 5 Meter / box

Application: Suitable Cigarette transport.

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





UOM: 5 Meter / box

Application: Suitable for Cigarette transport.

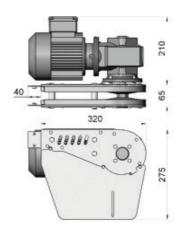
### SS Direct End Drive with Motor (LEFT)

### SS Direct End Drive without Motor (LEFT)

SSDD-465-0.251 0.371 0.551

SSDD-A65-0L





### Max Traction Force: 500N

The standard Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. SSDD-A65-0L represents direct drive without motor. Multi channel drives available upon request.

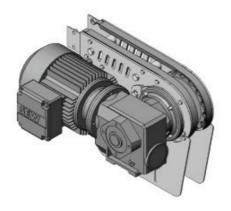
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

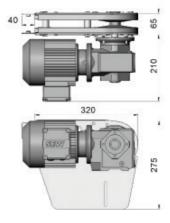
### SS Direct End Drive with Motor (RIGHT)

### SS Direct End Drive without Motor (RIGHT)

SSDD-A65-0.25R, 0.37R, 0.55R

SSDD-A65-0F





### **Max Traction Force: 500N**

The standard Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. SSDD-A65-0R represents direct drive without motor. Multi channel drives available upon request.

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

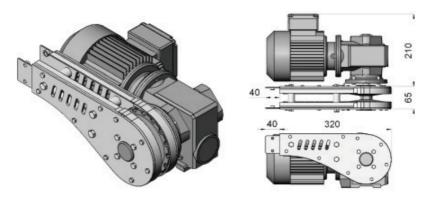
SEW gear motors are products of SEW Eurodrive

## SS Direct End Drive with Motor GP (LEFT)

SS Direct End Drive without Motor GP (LEFT)

SSDD-A65GP-0.25L, 0.37L, 0.55L

SSDD-A65GP-0L



#### Max Traction Force: 500N

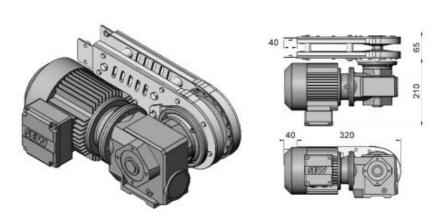
The Direct End Drive GP is used for vertical wedge conveyor. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. SSDD-A65GP-0L represents direct drive without motor.

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

# SS Direct End Drive with Motor GP (RIGHT)

SS Direct End Drive without Motor GP (RIGHT)

SSDD-A65GP-OR

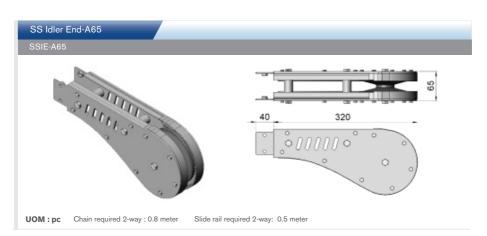


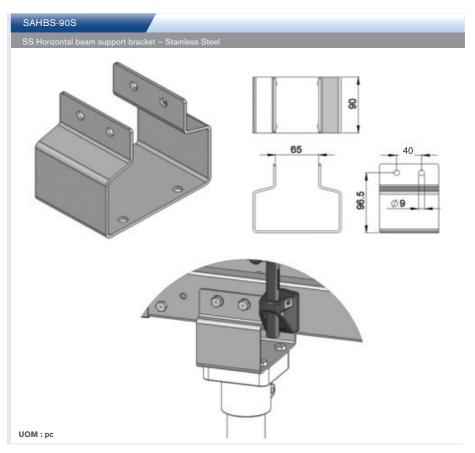
## Max Traction Force: 500N

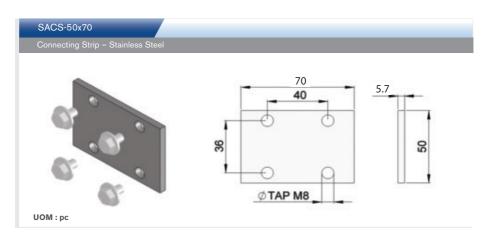
The Direct End Drive GP is used for vertical wedge conveyor Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. SSDD-A65GP-0R represents direct drive without motor.

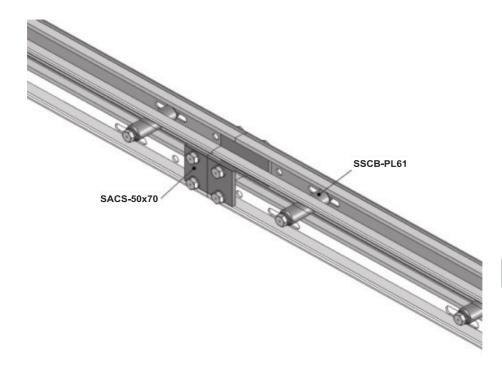
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

SEW gear motors are products of SEW Eurodrive















# SS Wheel Bend 5° - 180°

## **Example for SS Wheel Bend Ordering**

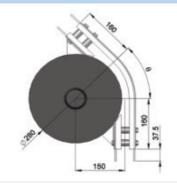
- Wheel bend, ذ ± 1°

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

## SSWB-65R150

The outer bend is assembled using connecting strip (SACS-50x75).

Angle of ذ must be indicated when ordering.

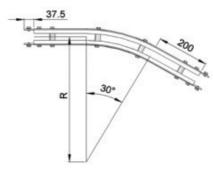


# SS Horizontal Plain Bend 30°



#### UOM: pc

Chain required 2-way (500, 700): 1.4, 1.6 meter Slide rail required 2-way( 500, 700): 2.8, 3.2 meter



#### Horizontal plain bend, 30° ± 1°

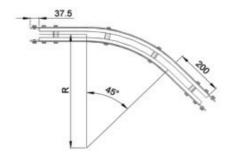
 $R = 500 \pm 10 mm$  SSHB-30R500  $R = 700 \pm 10 mm$  SSHB-30R700

# SS Horizontal Plain Bend 45°



#### UOM:pc

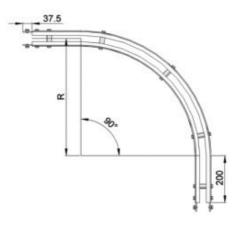
Chain required 2-way (500, 700): 1.6, 1.9 meter Slide rail required 2-way(500, 700): 2.9, 3.3 meter



## Horizontal plain bend, 45° ± 1°

# SS Horizontal Plain Bend 90°





#### UOM: pc

Chain required 2-way (500, 700): 2.4, 3.0 meter Slide rail required 2-way(500, 700): 4.8, 6.0 meter

#### Horizontal plain bend, 30° ± 1°

 $R = 500 \pm 10 mm$  SSHB-90R500  $R = 700 \pm 10 mm$  SSHB-90R700

# SS Horizontal Plain Bend 5° - 90°

## **Example for SS Horizontal Plain Bend Ordering**

## Horizontal plain bend, ذ ± 1°

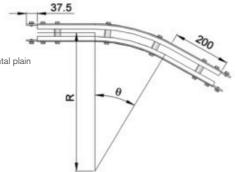
 $R = 500 \pm 10 mm$  SSHB- ذR50  $R = 700 \pm 10 mm$  SSHB- ذR700

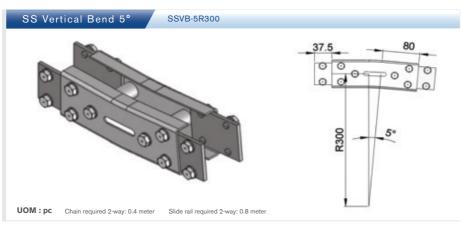
If an angle of 120° is needed for radius R500 horizontal plain bend, so the ordering part number is

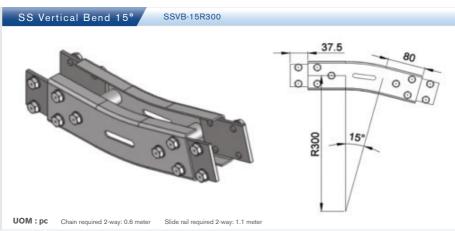
## SSHB-120R500

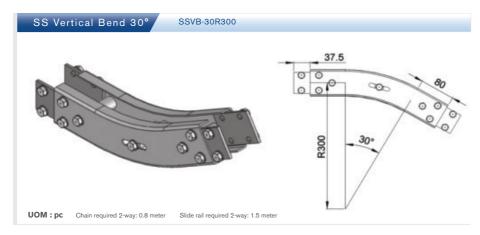
#### UOM:pc

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









# SS Vertical 5° - 90°

# **Example for SS Vertical Bend Ordering**

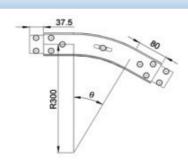
- Vertical bend, ذ ± 1°

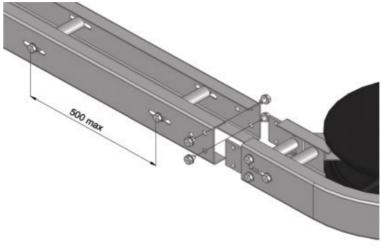
If angle of 25° is needed for vertical bend, so the ordering part number is

## SSVB-25R300

The outer bend is assembled using connecting strip (SACS-50x75).

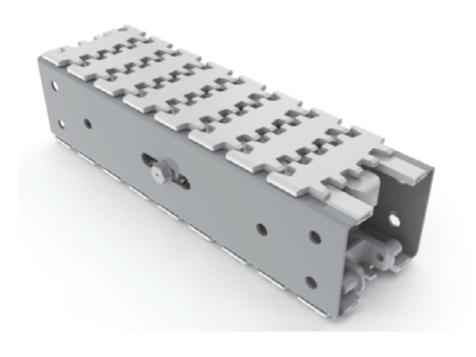
Angle of Ø ° must be indicated when ordering.











Variety of chain type suitable for wide range of applications either horizontal or vertically product transportation.

## **SM Series Characteristic**

Beam Width: 85mm

Product Width: Refer to Guide Rail Assembly

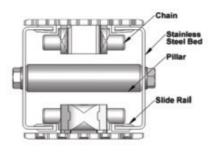
# **Accessories Needed**

Slide Rail Required: FASR-25 OR FASR-25U Slide Rail Colour: White Or Natural Colour Slide Rail Material: HDPE OR UHMW

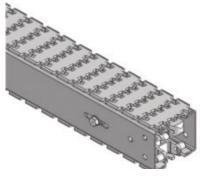
Slide Rail Rivet: FASLS-M5

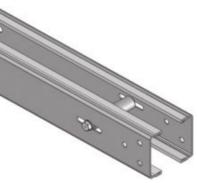
Connecting strip is used to connect 2 beams.

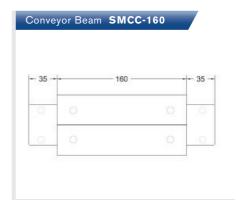
Connecting Strip: SACS-50x75

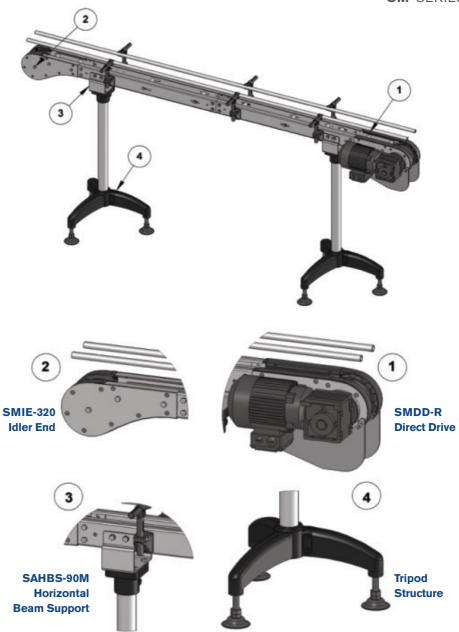












# **SM** SERIES

#### **Chain Common Data**

Packaging: 5m per box

Pitch: 33.5mm Width: 83mm

Tensile Strength at 20°C: 6000N

Colour: 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

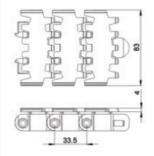


The above chain is FMCT-5A17-L1, 1 link cleated top chain with alternate of 1 link of plain chain.

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

## Standard Plain Chain FMPC-5



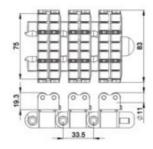


UOM: 5 Meter / box

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

## Roller Top Chain FMRT-5



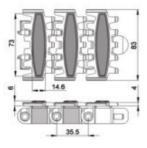


UOM: 5 Meter / box

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

# Friction Top Chain FMFT-5



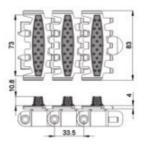


UOM: 5 Meter / box

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

# Wedge Top Chain FSWT-5A

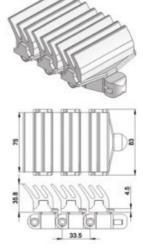




UOM: 5 Meter / box

Application: Vertical Wedge transportation of products.

## S/steel Top Chain FSST-5S

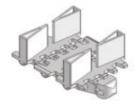


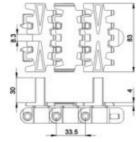
UOM: 5 Meter / box

Application: Vertical Wedge transportation of products (Heavy duty)

# Cleat Top Chain FMCT-5A30-L#

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



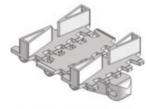


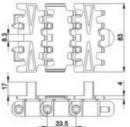
UOM: 5 Meter / box

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

# Cleat Top Chain FMCT-5A17-L#

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





UOM: 5 Meter / box

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

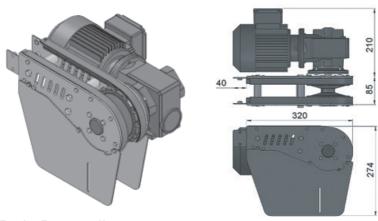


## SM Direct End Drive with Motor (LEFT)

SM Direct End Drive without Motor (LEFT)

SMDD-A85-0.25L, 0.37L, 0.55L

SMDD-V8E-01



## Max Traction Force: 1250N

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. SMDD-A85-0L represents direct drive without motor. Multi channel drives available upon request.

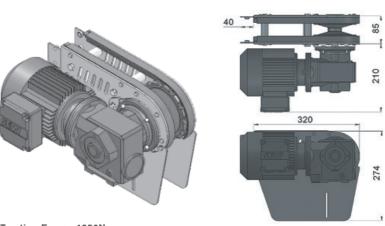
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

# SM Direct End Drive with Motor (RIGHT)

SM Direct End Drive without Motor (RIGHT)

SMDD-A85-0.25R, 0.37R, 0.55R

SMDD-A85-0R



## **Max Traction Force: 1250N**

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. SMDD-A85-0R represents direct drive without motor. Multi channel drives available upon request.

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

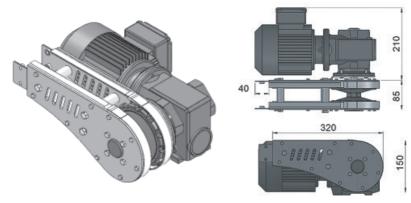
SEW gear motors are products of SEW Eurodrive

## SM Direct End Drive GP with Motor (LEFT)

SM Direct End Drive GP without Motor (LEFT)

SMDD-A85GP-0.25L, 0.37L, 0.55L

SMDD-A85GP-0L



## Max Traction Force: 1250N

The Direct End Drive is used for vertical wedge conveyor. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. SMDD-A85GP-0L represents direct drive without motor.

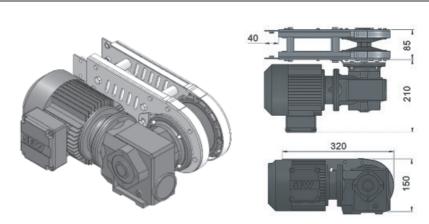
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

# SM Direct End Drive GP with Motor (RIGHT)

SM Direct End Drive GP without Motor (RIGHT)

SMDD-A85GP-0.25R, 0.37R, 0.55R

SMDD-A85GP-0R



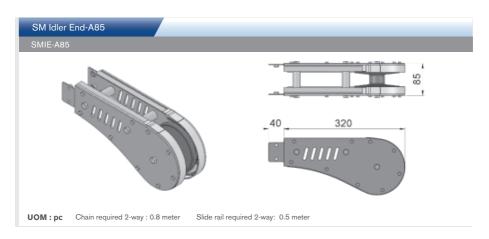
## Max Traction Force: 1250N

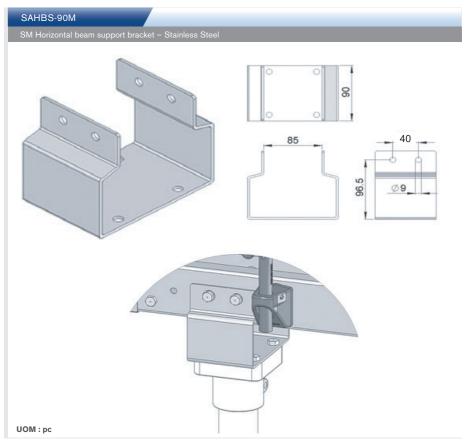
The Direct End Drive GP is used for vertical wedge conveyor Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. SMDD-A85GP-0R represents direct drive without motor.

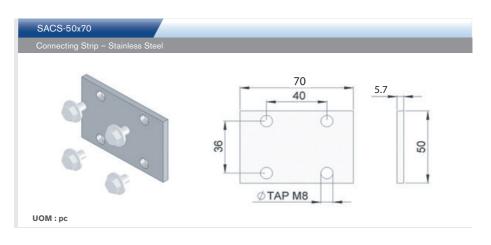
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

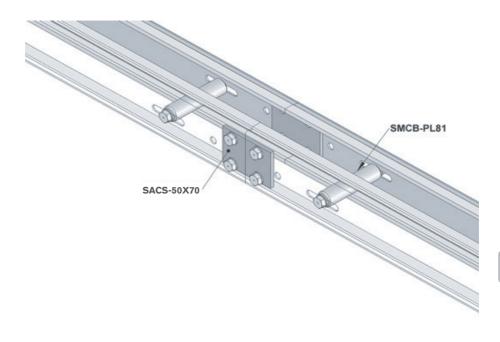
SEW gear motors are products of SEW Eurodrive

# **SM** SERIES















# SM Wheel Bend 5° - 180°

## **Example for SM Wheel Bend Ordering**

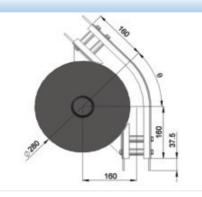
- Wheel bend, ذ ± 1°

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

## SMWB-65R160

The outer bend is assembled using connecting strip (SACS-50x75).

Angle of ذ must be indicated when ordering.

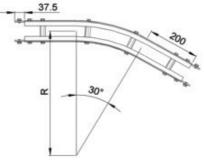






#### UOM:pc

Chain required 2-way (500, 700): 1.4, 1.6 meter Slide rail required 2-way( 500, 700): 2.8, 3.2 meter



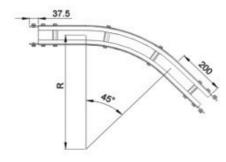
#### Horizontal plain bend, 30° ± 1°

# SM Horizontal Plain Bend 45°



#### UOM:pc

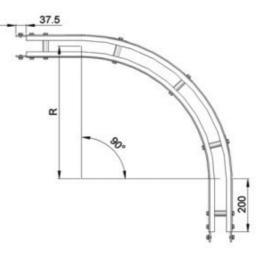
Chain required 2-way (500, 700): 1.6, 1.9 meter Slide rail required 2-way(500, 700): 2.9, 3.3 meter



## Horizontal plain bend, 45° ± 1°

# SM Horizontal Plain Bend 90°





## UOM:pc

Chain required 2-way (500, 700): 2.4, 3.0 meter Slide rail required 2-way(500, 700): 4.8, 6.0 meter

# Horizontal plain bend, 90° ± 1°

 $R = 500 \pm 10 mm$  SMHB-90R500  $R = 700 \pm 10 mm$  SMHB-90R700

# SM Horizontal Plain Bend 5° - 90°

## **Example for SM Horizontal Plain Bend Ordering**

## Horizontal plain bend, ذ ± 1°

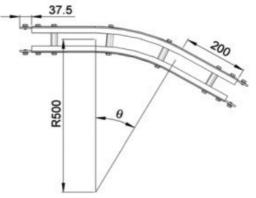
 $R = 500 \pm 10 mm$  SMHB-ØR500  $R = 700 \pm 10 mm$  SMHB-ØR700

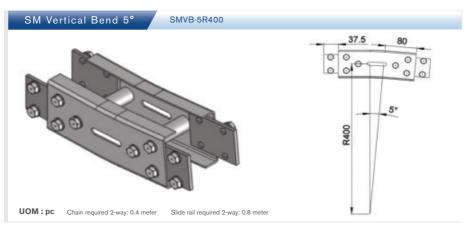
If angle of 70 is needed for radius R500 horizontal plain bend, so the ordering part number is

## **SMHB-70R500**

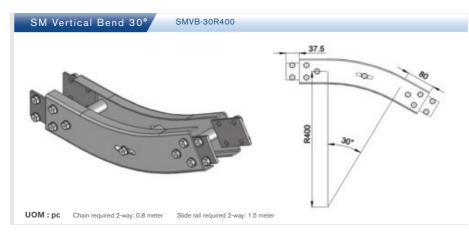
#### UOM:pc

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









# SM Vertical 5° - 90°

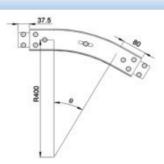
## **Example for SM Vertical Bend Ordering**

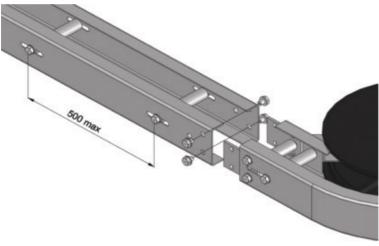
- Vertical bend. ذ ± 1°

If angle of 25° is needed for vertical bend, so the ordering part number is

## SMVB-25R400

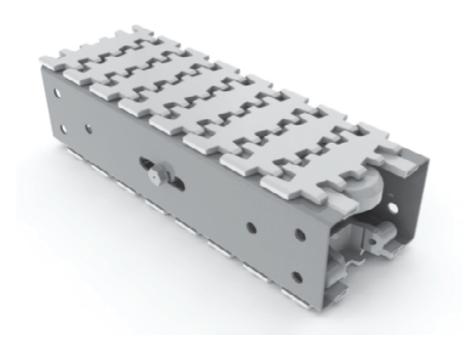
The outer bend is assembled using connecting strip (SACS-50x75). Angle of  $\emptyset$  ° must be indicated when ordering.











Variety of chain type suitable for wide range of applications either horizontal or vertically product transportation.

## SC Series Characteristic

Beam Width: 105mm

Product Width: Refer to Guide Rail Assembly

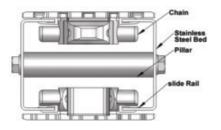
# **Accessories Needed**

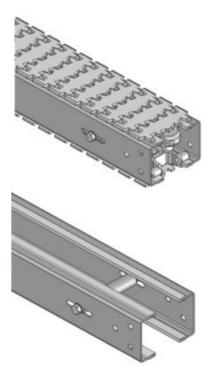
Slide Rail Required: FASR-25 OR FASR-25U
Slide Rail Colour: White Or Natural Colour
Slide Rail Material: HDPE OR UHMW

Slide Rail Rivet: FASLS-M5

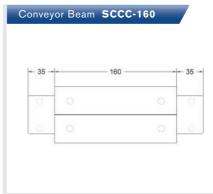
Connecting strip is used to connect 2 beams.

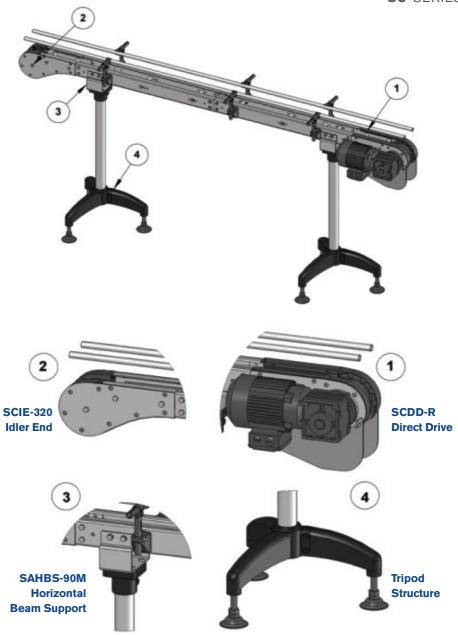
Connecting Strip: SACS-50x75











# **SC** SERIES

#### **Chain Common Data**

Packaging: 5m per box

Pitch: 35.5mm Width: 103mm

Tensile Strength at 20°C: 6000N

Colour: White & Black (Conductive)

### Material :-

Chain: White Acetal / POM

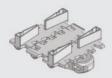
Pivot: Polyamide

Pivot Pin: Stainless Steel

Insert (Wedge & Friction): TPE Grey

## Example for FCCT-5A17-L#

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

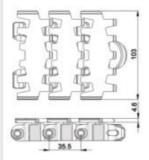


The above chain is FCCT-5A17-L1, 1 link cleated top chain with alternate of 1 link of plain chain.

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

## Standard Plain Chain FCPC-5



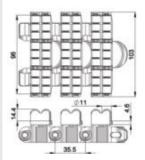


UOM: 5 Meter / box

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

## Roller Top Chain FCRT-5



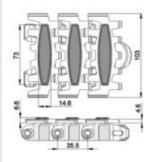


UOM: 5 Meter / box

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

# Friction Top Chain FCFT-5

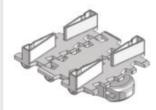


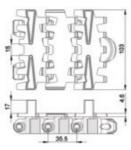


UOM: 5 Meter / box

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

# Cleat Top Chain FCCT-5A17-L#

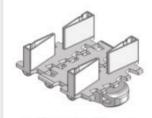


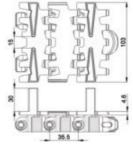


UOM: 5 Meter / box

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

## Cleat Top Chain FCCT-5A30-L



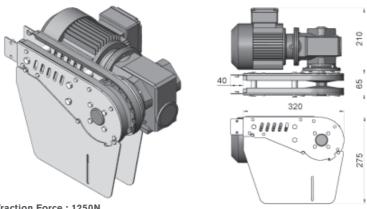


UOM: 5 Meter / box

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

## SC Direct End Drive with Motor (LEFT)

SC Direct End Drive without Motor (LEFT)



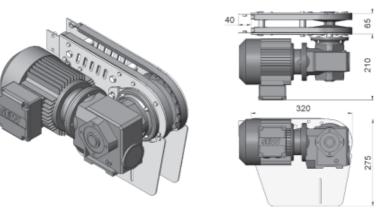
Max Traction Force: 1250N

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. SCDD-A105-0L represents direct drive without motor. Multi channel drives available upon request.

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

# SC Direct End Drive with Motor (RIGHT)

SC Direct End Drive without Motor (RIGHT)

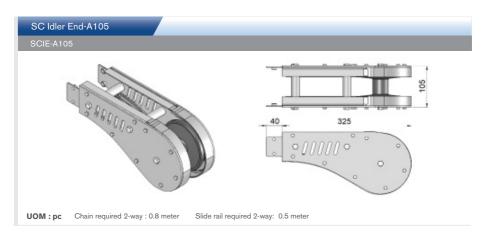


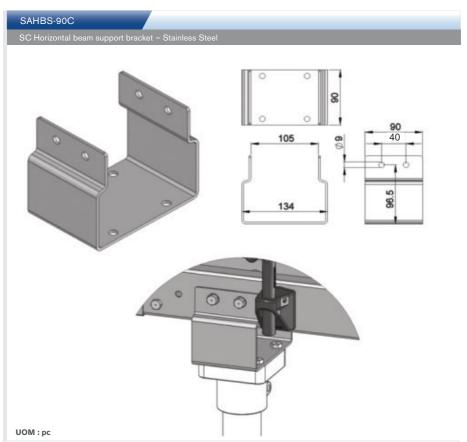
## Max Traction Force: 1250N

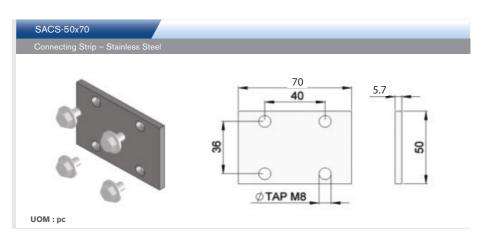
The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. SCDD-A105-0R represents direct drive without motor. Multi channel drives available upon request.

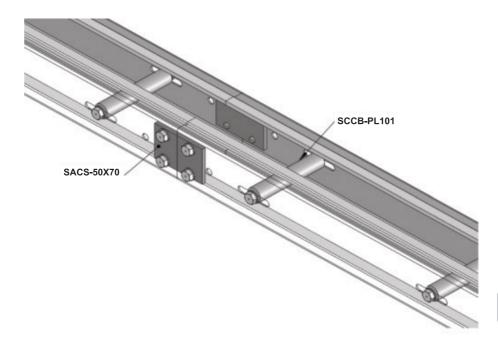
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

# **SC** SERIES















# SC Wheel Bend 5° - 180°

## **Example for SC Wheel Bend Ordering**

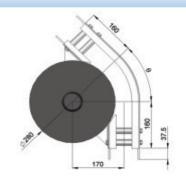
- Wheel bend, ذ ± 1°

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

## SCWB-65R170

The outer bend is assembled using connecting strip (SACS-50x75).

Angle of O° must be indicated when ordering.

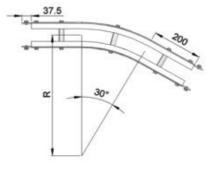


# SC Horizontal Plain Bend 30°



#### UOM: pc

Chain required 2-way (500, 700): 1.4, 1.6 meter Slide rail required 2-way( 500, 700): 2.8, 3.2 meter



#### Horizontal plain bend, 30° ± 1°

 $R = 500 \pm 10 mm$  SCHB-30R500  $R = 700 \pm 10 mm$  SCHB-30R700

# SC Horizontal Plain Bend 45°



#### UOM: pc

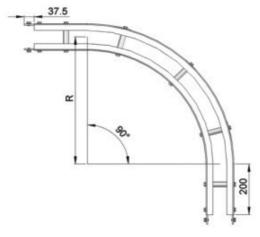
Chain required 2-way (500, 700): 1.6, 1.9 meter Slide rail required 2-way(500, 700): 2.9, 3.3 meter

# 37.5 α 45°

## Horizontal plain bend, 45° ± 1°

# SC Horizontal Plain Bend 90°





## UOM:pc

Chain required 2-way (500, 700): 2.4, 3.0 meter Slide rail required 2-way(500, 700): 4.8, 6.0 meter

## Horizontal plain bend, 90° ± 1°

 $R = 500 \pm 10 mm$  SCHB-90R500  $R = 700 \pm 10 mm$  SCHB-90R700

# SC Horizontal Plain Bend 5° - 90°

## **Example for SC Horizontal Plain Bend Ordering**

## Horizontal plain bend, ذ ± 1°

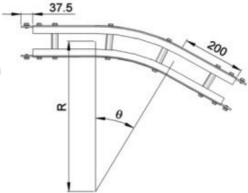
 $R = 500 \pm 10 mm$  SCHB-ØR500  $R = 700 \pm 10 mm$  SCHB-ØR700

If angle of 70 is needed for radius R500 horizontal plain bend, so the ordering part number is

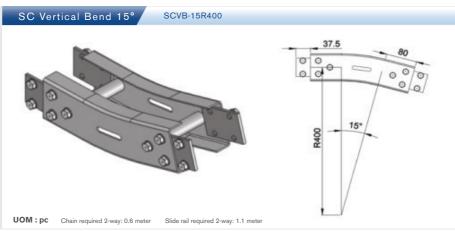
## **SCHB-70R500**

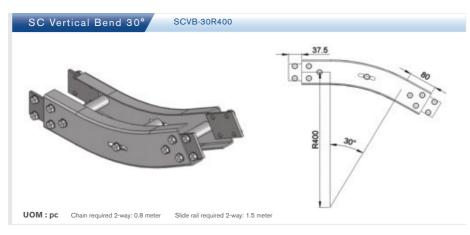
#### UOM:pc

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









# SC Vertical 5° - 90°

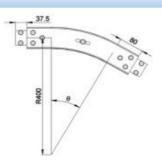
## **Example for SC Vertical Bend Ordering**

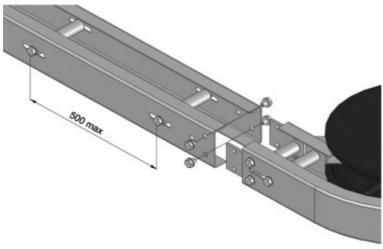
- Vertical bend. ذ ± 1°

If angle of 25° is needed for vertical bend, so the ordering part number is

## SCVB-25R400

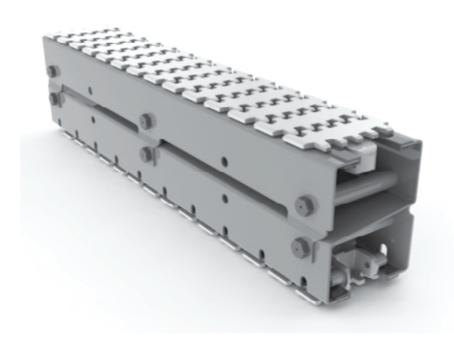
The outer bend is assembled using connecting strip (SACS-50x75). Angle of  $\emptyset$  ° must be indicated when ordering.





# SC Tripod Support Structure SBSC-HXXXX, H=500, 1000, 1500 I





Variety of chain type suitable for wide range of applications either horizontal or vertically product transportation.

## SC Series Characteristic

Beam Width: 85mm

Product Width: Refer to Guide Rail Assembly

## **Accessories Needed**

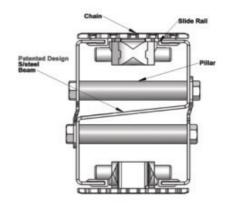
Slide Rail Required: FASR-25, FASR-25U, FASR-25X

Slide Rail Colour: White Or Natural Colour Slide Rail Material: HDPE OR UHMW

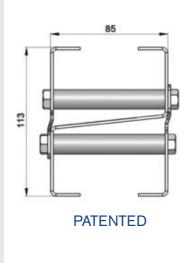
Slide Rail Rivet: FASLS-M5

Connecting strip is used to connect 2 beams.

Connecting Strip: SACS-50x75



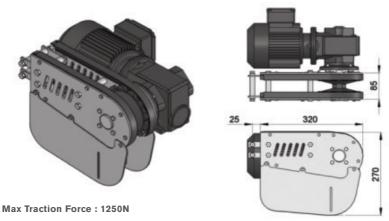






### SMZ 85 Direct End Drive with Motor (LEFT)

SMZ 85 Direct End Drive without Motor (LEFT)

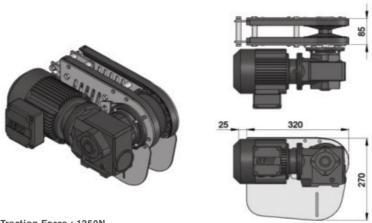


The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. SMZDD-85-0L represents direct drive without motor. Multi channel drives available upon request.

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

### SMZ 85 Direct End Drive with Motor (RIGHT)

SMZ 85 Direct End Drive without Motor (RIGHT)



#### Max Traction Force: 1250N

The Direct End Drive Unit is without torque limiter. Standard attached gear motors are with SEW motor size 0.25kW, 0.37kW & 0.55kW. SMZDD-85-0R represents direct drive without motor. Multi channel drives available upon request.

UOM: pc Chain required 2-way: 0.8 meter

Slide rail required 2-way: 0 meter

SEW gear motors are products of SEW Eurodrive

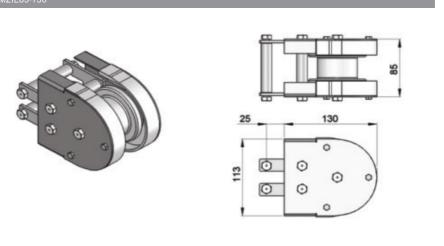
# **SMZ** SERIES

# SMZ 85 Idler End-130

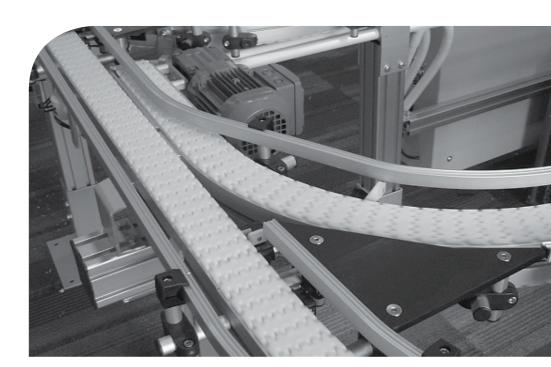
SMZIE85-130

UOM:pc

Chain required 2-way: 0.8 meter

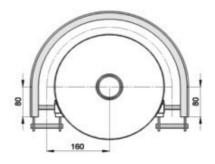


Slide rail required 2-way: 0.5 meter



# SMZ Wheel Bend 180°

#### SMZWB-180R160

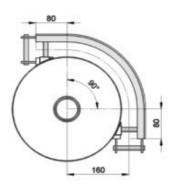


UOM: pc Chain required 2-way: 1.4 meter

Slide rail required 2-way: 2.8 meter

# SMZ Wheel Bend 90°

### SMZWB-90R160

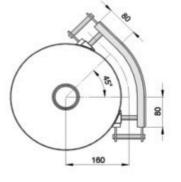


**UOM: pc** Chain required 2-way: 0.9 meter

Slide rail required 2-way: 1.7 meter

# SMZ Wheel Bend 45°

### SMZWB-45R160



UOM:pc

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

### SMZ Horizontal Bend 45°

#### Horizontal plain bend, 45° ± 1°

 $R = 500 \pm 10 mm$  SMZHB-45R500  $R = 700 \pm 10 mm$  SMZHB-45R700

#### UOM:pc

Chain required 2-way (500, 700): 1.6, 1.9 meter Slide rail required 2-way(500, 700): 2.9, 3.3 meter



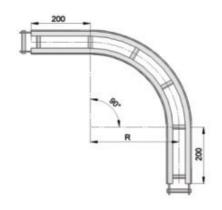
# SMZ Horizontal Bend 90°

### Horizontal plain bend, 90° ± 1°

 $R = 500 \pm 10 mm$  SMZHB-90R500  $R = 700 \pm 10 mm$  SMZHB-90R700

#### UOM:pc

Chain required 2-way (500, 700): 2.4, 3.0 meter Slide rail required 2-way(500, 700): 4.8, 6.0 meter



### SMZ Horizontal Bend 5° - 90°

#### **Example for SMZ Horizontal Plain Bend Ordering**

#### Horizontal plain bend, ذ ± 1°

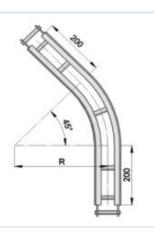
 $R = 500 \pm 10 mm$  SMZHB-ØR500  $R = 700 \pm 10 mm$  SMZHB-ØR700

If angle of 70 is needed for radius R500 horizontal plain bend, so the ordering part number is

### **SMZHB-70R500**

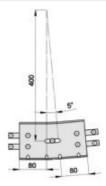
### UOM:pc

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



# SMZ Vertical Bend 5°

#### SMZVB-5R400



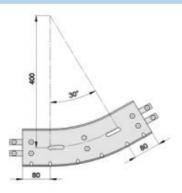
UOM:pc

Chain required 2-way: 0.4 meter

Slide rail required 2-way: 0.8 meter

# SMZ Verticall Bend 30°

#### SMZVB-30R400



UOM:pc

Chain required 2-way : 0.8 meter

Slide rail required 2-way: 1.5 meter

# SMZ Verticall Bend 5° - 90°

### **Example for SMZ Vertical Bend Ordering**

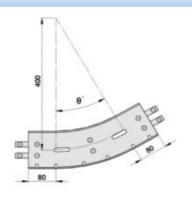
- Vertical bend, ذ ± 1°

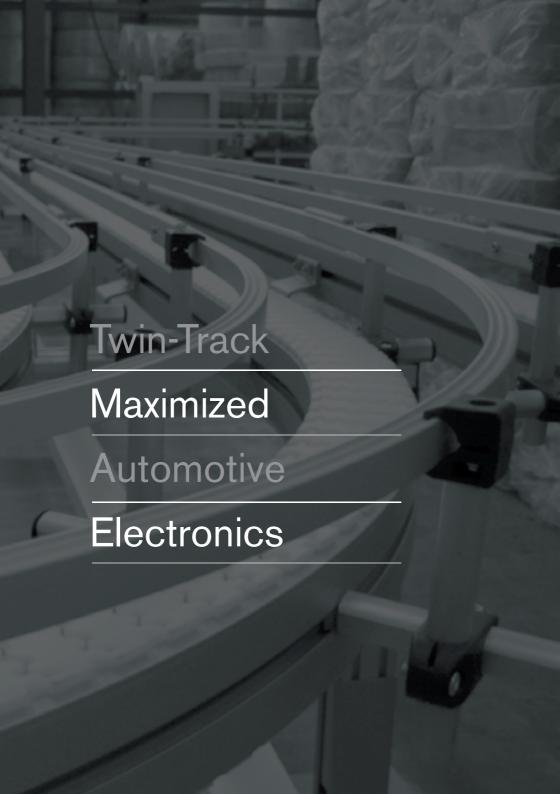
If angle of 25° is needed for vertical bend, so the ordering part number is

### SMZVB-25R400

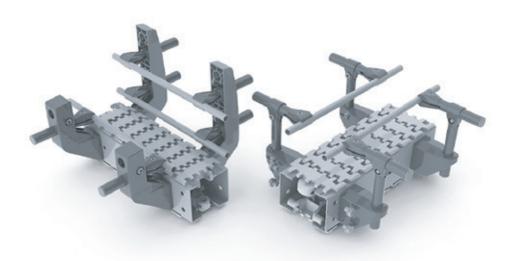
The outer bend is assembled using connecting strip (SAZCS-50x76).

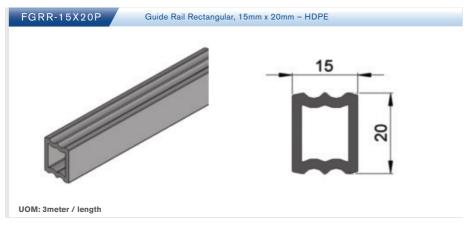
Angle of ذ must be indicated when ordering.





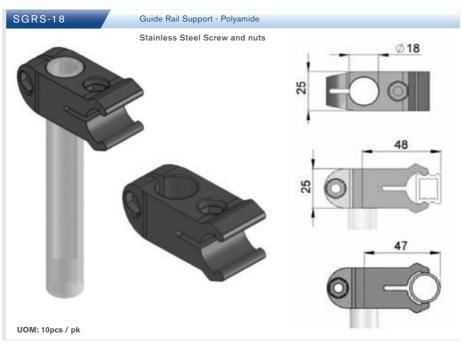
FlexMcve<sup>®</sup>





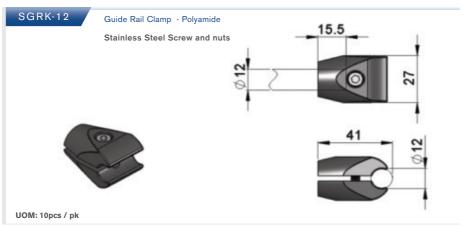




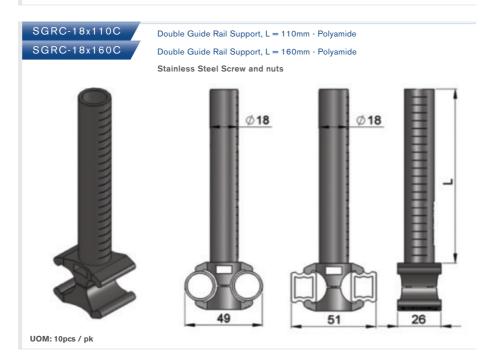








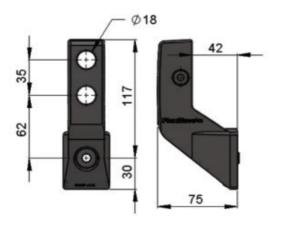




# SGRF-A35

Guide Rail Bracket Support A35 - Polyamide

Stainless Steel Screw and nuts



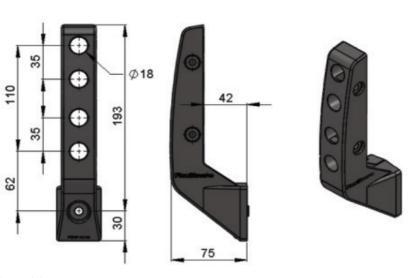


UOM: 10pcs / pk

# SGRF-A110

Guide Rail Bracket Support A110 - Polyamide

Stainless Steel Screw and nuts



UOM: 10pcs / pk

SGRL-18x110CA SGRL-18x160CA

Guide Rail Support, L = 110 mm - Polyamide

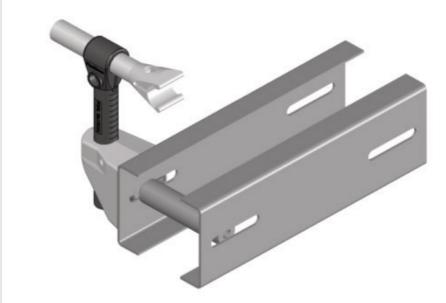
Guide Rail Support, L = 160mm - Polyamide

Stainless Steel Screw and nuts



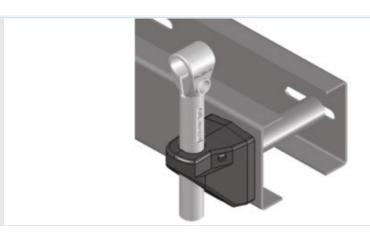


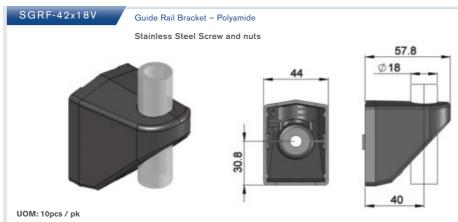
UOM: 10pcs / pk

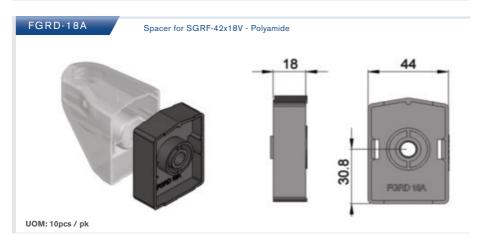


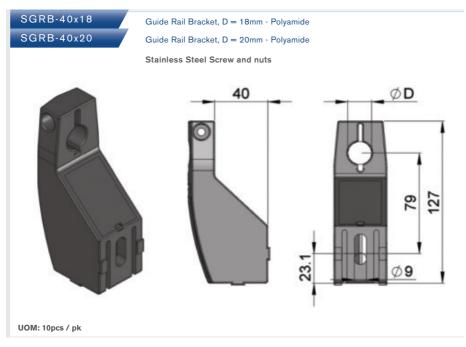
UOM: 10pcs / pk

# SG SERIES









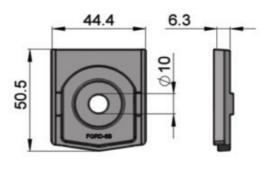
# SG SERIES



# FGRD-6B

Spacer for SGRB-40x18 , SGRB-40x20 - Polyamide

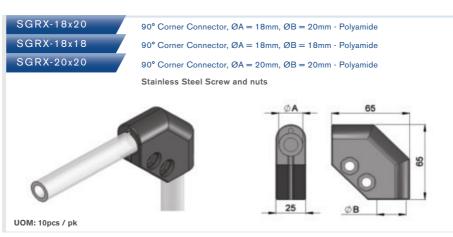




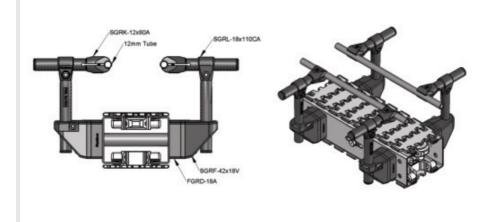
UOM: 10pcs / pk



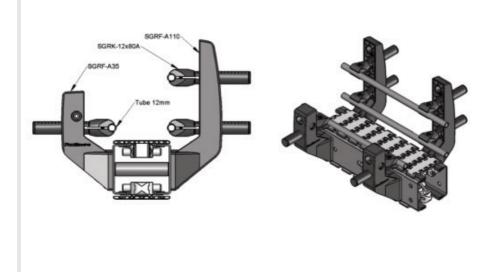




# SG Guide Rail Assembly



# SG Guide Rail Assembly







#### INTRODUCTION

The main purpose of this manual is to help self-building end users, with little or no prior experience, to assemble a FlexMove conveyor system. Each chapter includes detailed instructions and pictures showing how to assemble the different parts. Most pictures in the manual include parts from the FS conveyor system, but all instructions are applicable to the FH, FK, FS, FM, FC and FL.

### **Document Disposition**

The document is divided into the following five main parts:

- Installation site preparations
- . .
- Assembly

- · Tools and fasteners
- · Start-up and testing

#### **Initial Assembly Planning**

Systematic working planning is required:

- · IFully understand and study the assembly drawing.
- Ensure the necessary tools are ready.
- Ensure all the parts and materials are well prepared according to parts list.
- · Enough space for conveyor installation is important.
- Ensure the floor is even and so the foot can be properly attached on the floor.

#### **Assembly Order**

During the conveyor assembly work, feet the following items can be used as a checklist.

- · Cut all beams into desired length.
- Connect all feet and structural beams.
- Mount conveyor beam support brackets.
- · Tighten the slip clutch with suitable friction.
- · Mount slide rail onto the conveyor beam
- · Loosen the slip clutch at the drive unit.
- Assemble conveyor beams and mount them onto the support structure.

- Mount drive and idler unit at the end of the conveyor.
- Check any obstruction of the conveyor with a short piece of chain.
- Assemble and mount necessary chain into the conveyor.
- Mount guide rail and other accessories required onto the conveyor.
- Read the final preparations at the end of this manual.

### **General tools**

To assemble a FlexMove ® conveyor, you may need most of the tools listed on the following page. Not all are essential, but they will make your work easier and efficient.



### **Hand Tools**

- Wrench
- Slide rail cutter
- · Set of metric Allen keys
- Counter sunk bit
- Measuring Tape
- · Chain inserting / Removing Tools
- Drill fixtures for slide rail
- Riveting Tool
- In addition, the tools listed below can be useful:
- Files
- · M8 Ratcheting Socket wrench
- Screw driver
- Pliers
- Knife (cutting off plastic screw head or burr of slide rail)
- Soft head hammer
- · Clamping tools (for chain installation and dismantling)
- Level

#### **Power Tools**

- Hand drill
- Drill bit (of fixing slide rail)

#### **Fastener**

#### Standard Fasteners



M8 = Washer, Counter sunk, Cap screw, Nut, Log nut.

M6 = Washer, Counter sunk, Cap screw, Nut, Log nut.

## Square Nut



Square nut can be slotted into T-slot of FlexMove conveyor and support beams.

They do not stay in place in vertical positions and have to be inserted from the end of beam. Remember to put in a sufficient number before completing the assembly.

### Connecting Strip



Connecting strips are used for joining end to end of beams. Use Allen key and set screws when attaching the connecting strip to the beam.

#### T-bolt



T-bolts can be entered from the beam side, and when turned 90 degree they will stay in place after tightening with nuts and washers. The indication groove in the T-bolt should be at 90 degree to the conveyor T-slot. T-bolts are used when attaching support brackets, guide rails and drip trays to the conveyor beam. Do not use T-bolts with support beams!

#### **Cutting FlexMove® Beam**

If you have ordered 3m beams, they will need to be cut into suitable lengths before assembly. Study your drawing to determine the beam lengths required before cutting.

### · Saw requirements

The circular cross-cut saw used for aluminum profile cutting must be equipped with a carbide tip head saw circulating at a high speed for nice and clean cuts. The saw should have the ability of cutting the largest profile in one single cutting action.

### · Working site

You should use a special area for cutting beams in order to keep the assembly area clean.

### · Quality of cut

If burrs are evident, they must be removed prior to assembly. Make sure the cut is straight for proper assembly. All safety precautions issued by the cutting saw manufacturer should be followed at all times.

### ! All safety precautions issued by the cutting saw manufacturer should be follow at all the times.

The basic FlexMove® conveyor structure consists of five component groups:

- Support structure
- Conveyor beams, straight sections and bends
- Drive and idler units
- Chains
- · Guide rail assembly components
- Other accessories





The first step in the assembly process is to assemble the support structure, which consists of feet, sup port beams and beam support brackets. Most conveyor support designs are based on vertical support beams, combined, if necessary, with horizontal support beams. There are also a number of different feet and beam support brackets, so check which ones are suitable to use in your application.

#### **Foot Installation**

### Step 1



Insert hex head screws and washers into the holes on the side of the foot.

Use the screws to fasten foot connecting strips or square nut to the inner side of the foot.

### Step 2



Slide the connecting strips or square nuts into the structural beam T-slots.

### Step 3



Raise the beam from the bottom of the foot approximately 40-50 mm, to allow for height adjustment later in the assembly.

### Step 4



Tighten the screws using a wrench.

#### **Conveyor Installation**

Conveyor beams are mounted on to the support structure by means of support brackets. There are three different types of conveyor beam support brackets. They all serve the same purpose but are connected to the structural beams in different ways.

### Option 1



Horizontal beam support brackets (60mm or 80mm) are used for horizontal support structure mounted to 64x64mm or 80x80mm support beams.

These brackets can also be used as drip tray connectors.

### Option 2



Vertical beam support brackets are used with vertical support beams and are made from aluminum.

### Option 3



Alpine beam support brack ets are used in multi-level alpine conveyor system. This type brackets are used for connecting two parallel conveyor beams to an 80 mm vertical support beam.

#### **Mounting Conveyor Beam Support Bracket**

### Step 1



Attach screws, nuts and wash ers to the support bracket before mounting. (Screws and square nuts are support beam fasteners, T-bolts and nuts are conveyor beam fasteners.)

Slide the square nuts of one support bracket into the sup port beam T-slots. Tighten the screws. Make sure that the sup port bracket is aligned with the beam cross-section as shown in the drawing.

### Step 2



Insert the square nuts of the second support bracket into the support beam T-slots. Slide the bracket down so that it does not protrude above the cross-section of the beam.

### Step 3



Use a soft hammer or mallet to mount an end cap on to the support beam.

### Step 4



Mount the first support bracket to the conveyor beam. Pull the second bracket up and insert the T-bolts into the conveyor beam T-slot. Tighten the nuts.

#### **Conveyor Beam Installation**

The next step is to connect conveyor beams – straight sections and bends – to each other. Connect all conveyor beams according to the instructions below.

### Step 1



Connect two conveyor beam ends by inserting connecting strips into the beam T-slots. Use two con necting strips per beam j oint.

### Step 2



Make sure that the set screws do not prevent the connection strips from sliding into place.

### Step 3



Tighten the set screws using an Allen key.

#### NOTE:

Assemble the entire conveyor beam structure in the same way. If the conveyor beam is too long to mount onto the support structure in one continuous length, assemble shorter lengths and connect them to each other once fastened to the support beams.

#### **Drive Unit and Idler End Unit Installation**

# Step 1 - Drive Unit



Mount the end drive unit on to the end of the conveyor: Release the four set screws that are inserted into the drive unit connecting strips. Insert the connecting strips into the T-slot of the beam you want attached to the end drive unit. Make sure that the set screws do not prevent the connecting strips from sliding into place.

# Step 2 - Drive Unit



Tighten the set screws using an Allen key.

# Step 1 - Idler End



Insert the idler unit connecting strips into the T- slots of the beam end and tighten it.

# Step 2 - Idler End



Tighten the set screws using an Allen key

All safety precautions issued by the cutting saw manufacturer should be follow at all the times.

#### Attaching Slide Rail In Straight Beam

### Step 1



Start the slide rail as sembly at an idler end unit. Separate the top and bottom flange of the slide rail at the end of rail and press into place.

# Step 2



Make sure the slide rail is proper mounted and snaps onto the beam.

Please identify the longer flange of the slide rail must always face inner of the beam.

### Step 3



When using articulated beam, the slide rail must be mounted across the entire beam section.

Remember to mount slide rails both top and underneath side of the beam. (unless top running chain only)

### **Correct Installation**



**Wrong Installation** 

#### Slide Rail End Installation at Conveyor Beam

### Step 1



Cut both slide rail ends in a 45° angle. The beginning of a new slide rail (in the direction of travel) must cut back a small angle.

### Step 2



Allow a space of approximately 2mm to 5mm between two slide rail ends. The travel direction is indicated by arrow.

### Step 3



Do not place two slide rail joints opposite each other. Make sure there is a distance of at least 100 mm between them to make the chain run smoother.

This does not apply to slide rail that begins by an idler unit or after a drive unit, where joins are always parallel. Try to let the slide rail run in as continuous lengths as possible by reducing number of breaks, except in circumstances stated below:

- It is recommended to use short slide rails (2-3m) where chemicals may have an effect on the slide rail composition.
- It is important to cut the slide rail and allow for elongation in high load areas. Cutting is required in wheel bends (see following page), at idler units and where the conveyor will be heavily loaded, especially at drive unit. This prevents the slide rail from stretching out and entering into the drive unit, which may block the chain movement.
- Never join slide rail in horizontal or vertical bends, since forces are higher on the slide rail in these sections. Instead, place the joint before the bend.
- · Avoid joining slide rails on top of conveyor beam joints.

#### Slide Rail Installation At Wheel Bend

### Step 1 - In feed Wheel Bend (New Type A)



Cut the slide rail end in flat. Make sure there is no gap created at the plastic molding part. The step is applied onto out feed as well.

### Step 2 - Out feed Wheel Bend (New Type A)



Follow Step 1.

#### Step 3



In the outer bend, make sure that the slide rail is properly connected to the conveyor beam profile.

#### Horizontal Plain Bends and Vertical Bend

In plain bends with small radius and vertical bend, the slide rail for the inner bend should be cut so that it is only 10mm wide in the bend. This is to prevent an uneven slide rail surface. Stretch the rail while mounting

### **Drilling Slide Rail**





Drill two holes near the beginning of each side rail section.

The drill fixture will ensure clean – cut holes and the correct location of the holes and the holes. Use a well sharpened 2.7 mm drill – bit. Drill holes should not more than 3mm.

### Step 2



Make sure no metal fillings left underneath of the slide rail.

#### **Fixing Slide Rail**

The beginning of each slide rail section must be fixed to the beam or the chain will cause the slide rail to be pushed forward into a wheel bend or a drive unit and block the chain completely. The riveting method is more secure if the conveyor will run with high operational speed or be heavily loaded.

### Step 1



Fitted the slide rail and conveyor beam with nylon screw M3.

### Step 2



Screw or press the nylon screws into the holes using a screwdriver.

### Step 3



After tighten the screws, make sure the nylon screw is flush with the slide rail surface.

### Step 4



Check that the nylon screw do protrude over the surface of the slide rail. Check both top and bottom surface of the slide rail for protruding metal.

### Step 1 - Aluminium Rivet



Insert the aluminium rivets into the holes.

### Step 2 - Aluminium Rivet



Clamp the aluminium rivet by using crimping pliers.

#### **Checking Slide Rail and Rivet Condition After Fixed**

# Slide Rail Checking 1



Ensure does not protrude due to moving over pressed during rivet crimpling

# Slide Rail Checking 2



Check that the rivets do not protrude over the sur face of the slide rail. Check both top and underneath surface of slide rail for protruding metal.

### **Joining Chain End**

Assemble the chain by inserting the steel pin that comes with each chain link, into the opposite end of another link. Do this by using the FlexMove® pin insertion tool.

# Step 1



Insert the plastic pivot with the slot facing outward.

# Step 2



Insert the steel pin half way, using a pair of pliers. Always use new steel pins and plastic pivots when joining chain ends.

### Step 3



Line the FlexMove® chain tool up with the pin. Slowly depress the trigger until the pin seats.

## Step 4



Check that the chain is flexible in the joint and that the pin does not stick out or go through the other side

#### **Chain Installation at Drive Unit**

Make sure that the slip clutch is released allowing the drive shaft to turn freely.

### Step 1



Insert the chain into the underside of the drive unit. Make sure the chain will be moving in the correct direction, as indicated by the arrow located at the side of all chain links.

### Step 2



Feed the chain along the conveyor by pulling it through the idler unit and back to the drive unit.

### Step 3



Join 5 meter lengths of chain when necessary.

### Step 4



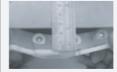
Tension the chain and remove links if neces sary, so that the chain will exhibit some slack at the drive unit. Put in the stain less steel pin at the hole provided at drive unit and join the chain.

### Step 5



Make sure the chain can be pulled are visible 2 chain pins.

### Step 6



After removing the neces sary chain, pull the chain and make sure that there is 1 inch of gaps is available.

### Chain Assembly at Chain Connecting Module F..CC

### Step 1



Loosen the screws on the beam section flanges.

# Step 2



Remove the flange so that the chain becomes accessible.

### Step 3



Clamp the chain to the beam profile. Use the FlexMove® chain tool to remove a steel pin from the chain, so that two links are separated.

### Step 4



Remove excess links and use the chain tool to put the chain back together again.

### 

- Adjustment of the conveyor chain is carried out at the drive end of the conveyor.
- 2 The transmission guard cover must be removed from the drive unit and to disengaged the slip cluth or remove the transmission chain. The conveyor chain should now be free to travel within the conveyor beam profile.
- 3 Catenary protection plates should also be removed to allow easy access for the conveyor chain pin insertion tool.
- 4 The conveyor chain should be tensioned within the conveyor system by pulling down the conveyor chain at the chain catenary in the underside of the drive unit. Clamp across the conveyor chain to trap the

- chain on to the beam profile. The clamp should be placed over the edges of the drive unit to reduce the risk of damage to the aluminum profile.
- 5 Remove all slack links from the conveyor chain using the pin insertion tool.
- 6 Rejoin the conveyor chain using a new steel pin and plastic pivot.
- 7 Remove the chain clamp and replace the catenary protection plate and transmission chain. The slip clutch should also be reset.
- 8 Replace the transmission guard cover. The conveyor is now ready for operation.

#### Intermediate drive units, horizontal bend drive units

- 1 Conveyors which have no conveyor chain slack should be assembled with a special section of conveyor beam (F..CC), which allows the chain to be easily inserted and adjusted for tension. (See previous page.)
- 2 Remove the lower part of this conveyor beam section by releasing the four screws.
- 3 Lift the chain from this section of the beam and clamp the conveyor chain as described above. Adjust the chain tension as for end and catenary drive units.

In a wheel bend drive, the outer aluminium profile can be removed by loosening the set screws in the beam connecting strips. The slide rail must be fitted to allow the removal of this section.

- After removal of the outer aluminium profile, the conveyor chain can be pulled out of the wheel bend disc.
  Lift the chain upwards.
- 2 Remove chain links using the pin insertion tool.
- 3 New steel pins and plastic pivots must be used when rejoining chain ends.
- 4 The tensioned chain can now be pulled back into position on the bend guide disc, and the outer profile put into place.

#### **Guide Rail System Installation**

Guide rails are used to guide products being conveyed, and also to prevent them from falling off the conveyor. Guide rails are supported by guide rail brackets attached to the sides of the conveyor beam. Follow the mounting instructions for the type of bracket used in your application.

Brackets should be placed approximately 500 to 1000 mm apart depending on the type of product and wheter the product be accumulated.

If brackets are spaced at further distances than 1000 mm, there is a possibility that guide rails will become deformed due to excessive force.

The pictures below show one possible way to assemble guide rail brackets. The examples shown on the following page are assembled in a similar way.

### Step 1 - Adjustable Guide Rail Bracket



Fasten an adjustable guide rail bracket support to the conveyor beam using T-bolt.

### Step 2 - Adjustable Guide Rail Bracket



Attach the guide rail to the clamp. Tighten the screw. Remember; do not over tighten the screw.

### Assembly with Different Guide Rail Support



Option 1



Option 2

Note: Only tighten all the screws when the position is justified.

### FGRB-48x12V Heavy Duty Guide Rail Bracket Assembly

### Step 1



Prepare the heavy duty guide rail bracket with T-bolt.

### Step 2



Attach the bracket onto conveyor beam and tighten with long wrench.

# Assembly with Different Guide Rail Support

Option 1



Option 2



Option 3



Note: Only tighten all the screws when the position is justified.

### FGRB-48x12V Spacer Assembly

### Step 1



Attach the spacer onto FGRB-48x12V and prepare the bracket with T-bolt.

### Step 2



Attach the bracket onto conveyor beam and tighten with long wrench.

### FGRB-40x18, FGRB-40x20 and FGRB-40x15x20 Heavy Duty Guide Rail Bracket Assembly

### Step 1 - Method 1



Open the upper and lower caps and prepare the FGRB-40 heavy duty guide rail bracket with T-bolt.

### Step 2 - Method 1



Attach the bracket onto conveyor beam and tighten with long wrench.

# Assembly with Different Guide Rail Support

Option 1



Option 2



Note: Tighten all the screws when the position is justified. Remember to assemble the upper and lower caps onto the bracket

### Step 1 - Method 2



Open the upper and lower caps and prepare the FGRB-40 heavy duty guide rail bracket with T-bolt.

# Step 2 - Method 2



Attach the bracket onto conveyor beam and tighten with long wrench. After this, close both caps of the bracket.

#### **Fixed Guide Rail Bracket Installation**

### Step 1 - Fixed Guide Rail Bracket



Fasten a fixed guide rail bracket support to the conveyor beam using T-bolt.

### Step 2 - Fixed Guide Rail Bracket



Attach the guide rail to the bracket. Clamp the spring pin into the slot between bracket and guide rail to fixed the position

### **Guide Rail Connecting Installation**

# Step 1 - Rail Connecting



First, fully slot the guide rail sleeve into either one of the guide rail profile that you are going to join.

# Step 2 - Rail Connecting



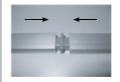
Now, align these 2 profiles closely in parallel.

# Step 3 - Rail Connecting



Finally, move the guide rail sleeve into second profile. Tighten when the location is justified.

# Step 4 - Connecting Plug



Connecting plugs are pressed into two guide rail ends with soft hammer.

### **Guide Rail Cover Installation**

### Step 1



To prevent products from being scratched, a plastic guide rail cover can be snapped on to the inside of the guide rail.

# Step 2



Make sure that all cover joints are smooth, so that products do not get caught or damaged. Do not join covers on top of guide rail joints.

### **FK SLIDE RAIL INSTALLATION GUIDE**

### **Drilling Slide Rail**

The holes must be drilled at the leading edges of the joint pieces, in the direction of the travel, to hold the slide rail in place when the conveyor is in use.

### Step 1



Identify the. direction of chain travel and the cutting slope of the slide rail. This is the correct way to set up the drill point

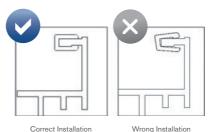


This is wrong way to set up the drill point. The cutting angle of the slide rail is less than 90 degree.

## Step 2



Make sure the slide rail is proper mounted and snaps onto the beam. Please identify that the longer flange of the slide rail must always face inner of the beam.



Wrong Installation

### Step 3



Please make sure the drill fixture is fully attached to the conveyor beam.



This is the incorrect position if there is a gap between the conveyor beam with the drill fixture.



#### **Plug Beam Ends**

Ensure that end caps have been fitted to all aluminium profile ends. The beam profiles should be deburred before fixing end caps. It may be necessary to fix the cap into position using a soft-faced hammer.

### Anchor feet to the floor

After the assembly of all components it may be necessary to anchor the conveyor support feet to the floor. Use a type of fastener that is right for the kind of floor where the conveyor is installed.

Instability of the conveyor during operation may result in a dangerous operating environment or damage the conveyor components.

### Other preparations

- · Adjust the height of the structural beam if necessary.
- Make sure that the installation is stable and that all screws have been properly tightened.
- Use a plummet and/or water-level to make sure that the construction is not askew.
- Make sure that all electrical equipment and power supply are properly connected.
- Make sure that the conveyor is running in the correct direction before starting the conveyor!
   Never run the conveyor with tightened slip clutch until you have ensured that the running direction is correct.
- · Tighten the slip clutch to a suitable friction.
- · Make sure that the transmission cover is attached to the drive unit.
- In pallet installations, make sure that all pneumatic equipment is properly connected.

Remember that conveyor chains should always be pulled, not pushed, by the drive unit.



### **Safety considerations**

To eliminate the risk of accidents, it is important to be aware of certain areas of the conveyor where special caution is required, during installation, operation and maintenance. Some areas present a higher danger to personal safety, and because of this various kinds of safety devices need to be installed.

- All pinch and shear points as well as other exposed moving parts that present a hazard to employees at their workstations or their passageways must be safeguarded.
- Cleated conveyor chains are more susceptible of creating pinch and shear points than plain chain.
- When two or more pieces of equipment are interfaced, special attention must be given to the interfaced area to ensure proper safeguarding.
- For overhead equipment, guards must be provided if products may fall off the equipment for some reason. The same applies to all incline, decline and vertical conveyors.

### Safeguarding can be achieved by:

**Location** - locate the hazardous area out of reach of the personnel involved.

**Guards** - mechanical barriers preventing entry into the hazardous area or protecting against falling goods.

Control devices - machine controls preventing or interrupting hazardous conditions.

Warnings - instructions, warning labels, or sound or light signals, alerting on hazardous conditions.

Warnings shall be used when other means of safeguarding will impair the function of the installation.

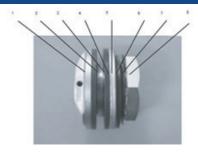
### Introduction

The slip clutch on the drive unit is a safety device which allows the chain to stop if the load becomes excessive. It has two purposes:

- Prevent damage to conveyor
- Prevent damage to the products on the conveyor

## Name of parts

- 1 Hub
- 2 Friction Facing
- 3 Bushing
- 4 Pressure Plate
- 5 Disk Spring
- 6 Lock Washer
- 7 Pilot Plate
- 8 Adjustable Bolt



## **Torque Limiter Manual**

- 1 Assembly
- 2 Machining accuracy on center member
- 3 Run-in
- 4 Torque setting

- 5 Tightening method for adjustable nut and bolts
- 6 Replacing the friction facing
- 7 Maintenance and precaution

#### **Assembly of Torque Limiter**

Wipe off oil, rust and dirt from each part before assembling your Torque Limiter. Then, assemble as follows. Note that all units are assembled with a single disk spring. An additional disk spring is packed separately for use as necessary.

## Machining accuracy on center member

Machine the center member friction surface and bore at 3S~6S

#### Run-in

Usually, run-in operations for the Torque Limiter are not necessary. If a stable slip torque is required, however, make sure to completely hand tighten the adjustable nut or bolts. Then tighten 60 degrees more and run or rotate the Torque Limiter approximately 500 revolutions. If the rotation speed is high, run-in several times to reach 500 revolutions.

### **Torque setting**

After installing the Torque Limiter to your machine, tighten the adjustable nut or bolts but not too tightly. Then, test several times by gradually tightening the bolts to find the appropriate tightening value. Correlation between the adjustable nut or bolts tightening value and slip torque are illustrated below. Slip torques vary depending on the friction surface. Graphs only show rough figures, so test with a slightly weaker torque first, then gradually tighten to find the appropriate torque suitable for your machine. This is the most practical way.

#### **INSTALLATION** GUIDE

## Tightening method for adjustable nut or bolts

The adjustable nut for Torque Limiter is a hexagon head nut. Tighten it with a spanner wrench to the rated angle then bend the lock washer to prevent the adjustable nut from loosening.

The adjustable nut has 3 adjustable bolts. Place the pilot plate and disk spring in contact with each other, and tighten the adjustable nut manually until there is no backlash between their faces. Then retighten the adjustable bolts to the appropriate angle.

#### Replace the friction facing

Change the friction facing when they reach roughly half the thickness of dimension described above.1.25mm for L250. Before replacing the friction facing, each part must be completely free of oil, rust and dirt. Also, reassemble the Torque Limiter according to the structure drawing.

### Maintenance and precautions after the replacement procedure

Periodically inspect the torque setting, for the initial torque setting may be affected by changes in friction, ambient temperature, humidity and other conditions.

Replace the friction facing and bushing if they wear. Their replacement parts are in stock.

Keep the Torque Limiter free from water and oil. This will maintain the effectiveness of torque and prevent the equipment or load from falling and causing serious accidents.

### Safety

#### ! WARNING!

- · Before carrying out maintenance, make sure there is no load or turning force applied to the machine.
- · Inspect operation periodically for overloads.
- Comply with Ordinance on Labor Safety and Hygiene 2-1-1 general standards.
- Comply with this manual when conducting unit installation, removal, maintenance and inspection.

#### CAUTION!

- Read this manual thoroughly before servicing the unit, and handle the unit correctly.
- Design the equipment so that it can tolerate load and rotational force when overloaded.
- Mechanical parts may wear depending on the rotation speed and slipping time. Check the operation
  periodically, and contact us for any mechanical failure.
- This manual is an essential part of the unit, and it should remain with the unit at all times including when redistributed.

## Start-up and Maintenance Schedule

The chains are made of acetal resin which has an excellent combination of strength, wear, chemical resistance, impact strength and temperature range.

Chain failures like breakage and high wear might occur if the actual pull is higher than the permissible chain limit. There is also high risk of slip-stick effect if the conveyor is running at high chain tension.

The chain running on the right direction is very important. The chain top and bottom is like an arrow and the conveyor must travel toward the arrow. The chain should run without pre-tension. Pre-tension might result in uncontrolled chain pull and lead to chain failure.

For this reason, it is important that there is a visible chain slack at the bottom of the drive unit when the conveyor is running. The chain has good impact strength a broken link is a sign that something is wrong along the conveyor. Frequent failures are broken cleat link caused jamming at the loading or unloading of the conveyor.

#### Slide rail lubrication

Lubrication of the surface between the slide rail and chain will result in low coefficient of friction, less noise and linger running life. It is especially applicable for plain bend. But, it is not compulsory as the chain and slide rail materials are self-lubricant.

#### Wear

The degree of wear on a conveyor depends on a number of factors, such as:

- Running time
- · Load, contact pressure
- Speed
- Product accumulation
- · Sharp or rough products

- Chemicals
- Foreign particles, e.g. chips, grinding particles, broken glass, sand, sugar
- Temperature
- Plain bends

Try to minimize the running time for the conveyor by stopping it when there is no transport. Multiple horizontal and vertical plain bends in a conveyor will often result in increased wear. One reason is that the friction losses are large in plain bends. Also, the contact surface between chain and slide rail is small and the chain pull is acting towards the slide rail in the bends.

#### **Chain Elongation**

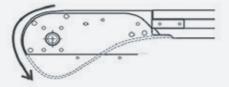
Acetal resin is an elastic material. In addition to the elastic elongation, the chain will exhibit elongation because of material creeping. The magnitude of chain elongation will depend on the chain tension.

The chain elongation will show up at the bottom of the drive unit. Too much of the chain slack may cause high wear at the drive unit entry point. Chain slack of up to 150mm is acceptable during normal running but any slack longer than that is not advisable.

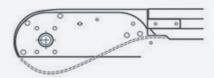
The chain slack might also hit on any part below it and this depend on the drive unit configuration.

For this case, the chain slack should be shortened much earlier. In normal case, the chain should be shortened after run-in time of 40 hours. The next inspection should be made only after 200 hours of running and then every 1600 hours. More frequent inspections are recommended if the conveyor is long and has high load.

The chain should therefore be pre – tensioned while the conveyor is stationary, but must never be so tight that there is no slack during the operation. There should be no appreciable slack on the chain when the conveyor is stationary. If there is too much slack, there will be excessive wear on the chain guides and the chain. This could be a risk for injury. If the slack on the conveyor chain is unacceptably high, it must be shortened by splitting the chain and removing the necessary number of links.



The conveyor chain must show some slack during operation



The conveyor chain does not need to show any slack when the conveyor chain is stationary.

## Inspection

Visually check the slide rail in horizontal and vertical bends after every 200 hours or operation. The chain can stay in place during the inspection. Replace any worn out slide rail. Remove the chain from the conveyor and inspect the slide rail carefully once every 1500 hours or operation.

Check for any worn out slide rail and any other unusual condition and make necessary replacement. You must also clean up the dirt accumulation in the conveyor beam especially before all plain bend, wheel bend, drive unit and idler end.

#### **Drive unit**

Each drive unit can be equipped with different gear motor brands. Please follow the maintenance recommendations from the manufacturers.

#### **Proposal Schedule**

Maintenance is recommended to carry out every 3rd, 6th and 12th month and subsequently every 6th month considering the running condition. Following are the recommended actions to be carried out:

#### First 3rd month:

- Shorten the chain.
- · Visual inspection on the running wear of the slide rail, sprocket, wheel and chain guides.
- Check on any high wear part on the conveyor and rectify it when necessary.
- Clean up any foreign accumulation that might block the smooth flow of the conveyor.
- Check on the gearbox oil level and top off when necessary.
- Check all support structure, slide guide and conveyor for loosen joint, rectify when necessary.

#### First 6th month:

- · Shorten the chain.
- · Visual inspection on the running wear of the slide rail, sprocket, wheel and chain guides.
- Clean up any foreign accumulation that might block the smooth flow of the conveyor.
- Check on the gearbox oil level and top off when necessary.
- · Check all support structure, side guide and conveyor for loosen joint, rectify when necessary.

#### First 12th month:

- Shorten the chain.
- Visual inspection on the running wear of the slide rail, sprocket, wheel and chain guides.
- Clean up any foreign accumulation that might block the smooth flow of the conveyor.
- Check on the gearbox oil level and top off when necessary.
- · Check all support structure, side guide and conveyor for loosen joint, rectify when necessary.

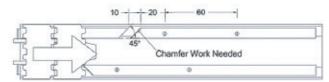
### **Checking Slide rail**

The condition of the slide rails is fundamental to the functioning of the installation. It is essential that these are in good condition. The function of the slide rails is to reduce the friction between the chains and the conveyor beam during operation.

## Checking Slide rail with the conveyor chain in place

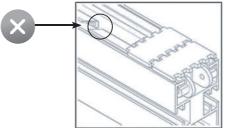
The slide rail needs to be checked after every 200 hours' operation. Carry on the check while on a stationary condition with the chain in place.

- Check the screwing points on the slide rail
- Check the joints section on the slide rail.



Correct Configuration of joints

- · Check that the nylon screw is fit and does not protrude over the surface of the slide rails.
- Check that the nylon screw is fit and do not protrude over the surface of the slide rail.
- · Check that the joint sections are not deformed.



#### **Deformed Joints**

#### Checking the slide rail, conveyor chain has been removed

The slide rail need to be checked once in a year or after 1500 hours' operation. The chain should be re moved from the conveyor beam in order to check the slide rail carefully for the condition of wear and the screwing.

Horizontal bends need to be checked carefully after every 400 hours' operation, since these are the places subjected to more friction loads.

- Carry out the same checks as the "checking slide rails with the conveyor chains in place".
- · Check the wear and tier condition for the slide rail.

#### Remarks

Check the inner slide rail in horizontal bends carefully, since the frictions here are particularly high. The conveyor chain interfaces more on the inner slide rail compared to the outer slide rail.

- · Check the slide rail for scratches and notches.
- · Replace the slide rail and the the fastening parts if necessary.
- · Clean the conveyor chain and check the condition of the chains as well.
- · Tidy the conveyor beam.

#### Protective and safety devices

Safety devices should be checked at regular intervals.

- · Check the motor cover for the chain transmission.
- · This motor cover must always be in place when the conveyor is operating.
- · Check that the drive cover is always in place when the chain is moving on the drive unit.
- Drive unit should always have a chain cover to protect the safety of the users. Checked that the chain cover plates are in place, and the chain does not slacken enough to hang below the plates.
- Check that the chain cover for the conveyor chain on the intermediate drive units and the catenary drive units.
- There may be others types of cover and protective plates in your installation, and these must also be checked.



Motor cover for the bicycle chain transmission



Drive Cover to cover the chain slag for suspended drive unit



## **Safeguarding**

All pinch and shear points as well as other exposed moving parts that present a hazard to users are recommended to be safe guarded. Cleat conveyor chain is more susceptible of creating pinch and shear points than plain chain.

When two or more pieces of equipment are interfaced, special attention must be given to the interfaced area to ensure proper safeguarding.

For overhead conveyor, guards must be provided if products fall off the conveyor for some reason. The same applies to all incline, decline and vertical conveyors.

#### **Considerations**

When correctly applied, the conveyor components are safe to use or maintain. It is however necessary for those responsible to design, installation, operation and maintenance to be aware of certain areas when special caution is required:

#### End drive unit

The chain slack of a normal direct drive must be maintained during the system lifetime.

#### **Idler unit**

The opening between links when they turn around idler could be a risk. The idler end should not be accessible during conveyor operation.

### Catenary drive unit

The bridge area where the chain goes down should not be accessible during conveyor operation.

Symptom	Cause	Corrective action	
Jerky running	<ul> <li>Damage or badly fitted slide rail.</li> <li>Wrongly adjusted slip clutch.</li> <li>Worn transmission parts.</li> <li>Conveyor chain is too tight or loose.</li> <li>Dirty conveyor</li> </ul>	- Inspect and replace as necessary.  - Check and adjust slip clutch.  - Check/replace transmission chain, chain drive sprocket.  - Tension conveyor chain correctly.  - Clean conveyor chain/slide rail.	
Drive unit is running, conveyor chain is not running  - Wrongly adjusted slip clutch Friction discs in slip clutch are worn or contaminated Damage/badly fitted slide rail Transmission products are not fitted.		- Check adjustment of slip clutch Check and replace if necessary Check the free running of the conveyor chain Check and fit.	
Motor overheat- ing on drive unit	- Conveyor overloaded. - Gearbox oil leaking. Dirty conveyor.	Remove products from conveyor and test run.  Check actual conveyor load against recommended loading. If possible break to more drives.  Check output shaft seal and area around motor/gearbox interface.  Clean the conveyor chain with warm water 50 degree.	
- Worn or damaged bearings in drive unit.  Noise  Damage/badly fitted slide rail Excessive conveyor speed Incorrect conveyor chain tension.		- Check/replace drive unit.  - Check the free running of the conveyor chain, especially in slide rail joints.  - Check actual load against recommended loading.  - Lengthen/shorten conveyor chain	
Abnormal wear of plastic parts	- Conveyor overloaded.  Ambient temperature too high Foreign object dropped on the con veyor chain.	Remove products from conveyor and test run. Check the free running of the conveyor chain. Check actual conveyor load against recommended loading. If possible break the conveyor into more drives. Check against recommended temperature for conveyor. Replace the broken section of chain.	
Clutch Ratchet- ing or slipping	- Excessive or accumulated load Improper ratchet clutch tensioning Damaged or missing chain assembly parts Accumulation of conveyed material or foreign objects inside of casing.	- Avoid load buildup by running conveyor continuously.  - Do not manually surge load conveyor.  - Refer to ratchet clutch adjustment in Maintenance.  - Review belt and repair or replace as required.  - Reverse conveyor placing ball of newspaper or a rag on belt to act as wipe out for accumulated material.	



### **Removal of Conveyor Chain**

Removing the worn part of the conveyor chain by using the FlexMove® pin insertion/removal tool. Make sure that the slip clutch is released allowing the drive shaft to turn freely.





Ensure that the power supply for the drive motor is disconnected.

## Step 2



Disengage the motor from the drive unit before removing the worn parts of the conveyor chain.

## Step 3

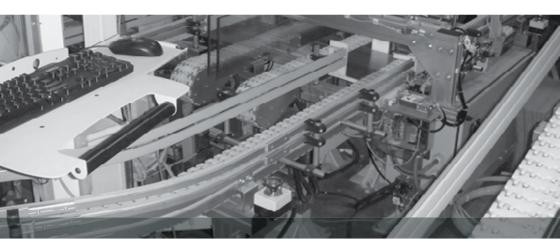


Split the chain by removing the pin using the pin insertion/ removal tool.

## Step 4



Pull out the conveyor chain.



## Checking the condition of the slide rail

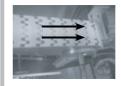
Run a sample chain (approx 0.3m) of the conveyor chain through the conveyor. Make sure that the side rails on the conveyor beam is in good condition.

## Step 1



The sample chain is installed on the conveyor beam to make sure that it can moves easily and correctly through the bends and idler ends.

## Step 2



Make sure that the chain direction is corresponding to the conveyor direction.

## Step 3



Feed the chain along the conveyor by pulling it through the idler unit and back to the drive unit.

## Step 4



Tension the chain and remove links if necessary, so that the chain will exhibit some slack at the drive unit net stainless steel pin at the hole provided at drive unit and join the chain.

## Step 5



After installing the conveyor chain, it is possible to test the chain by the hand without the motor.

## Step 6



The motor will be installed for test run after the final checking for the chain.

ı	FA Conveyor Accessories	s /		FBFT-64xM12S		6
ı	FAHBS-40 / 60 / 80		34	FBFT-170 / 170S		6
ı	FAVBS-60K / 60S / 80S		35	FBFT-80A / 80B		6
ı	FAVBS-60M / 80M / 60C		36	FBFT-80C / 80D		6
ı	FAVBS-80C / 80L		37	FBCP-40T / 40L		6'
ı	FAVBS-60KV / 60SV		38	FBCP-64T / 64L		6
ı	FAVBS-80SV		38	FBCP-80T / 80L		6
ı	FAVBS-60MV / 80MV		39	FBCP-40V / 64V / 80V		70
ı	FAVBS-60CV			FBRX-20A / 20B / 20C		7
ı			40	FBAB-32x40 / 32x60		7
ı	FAVBS-80LV			FBAB-32x80		7:
ı	FAHBS-40 x 135		40	FBAB-40L / 60L		7:
ı	FAHBS-62 x135		40	FBAB-80L / 40x80A		74
ı	FAHBS-80 x 135		40	FBAB-40x40A		7
ı	FAAL-64 / 80		41	FBAB-64x64A		7
ı	FASR-25 / 25U / 25T / 250		42	FBAB-80x80A		7
ı	FASR-25X / 25A / 25P		42	FBEC-40x40A		70
ı	FASLR-4x6 , FASLR-M5		42	FBEC-64x64A		70
ı	FASR-25KA / 25KU / 25K		43	FBEC-80x80A		70
ı	FASLS-M3		43	T DEO GOXOOM		
ı	FACS-20x140 / 25x140A		44			
ı	FACS-25x160		45	FG Conveyor Guide Rail		
ı	FASC-25 / FASC-3P		45	FGDT-70 / 80		8
ı	FASN-M6 / M8		46	FGDT-100 / 150		8.
ı	FATB-20 / 35 / 53 / 71		46	FGDT-200 / 250		8
ı	FASL-M8		47	FGGR-18X100 / 18X150		8
ı	FACW-M8		47	FGGR-18X200 / 18X250		8
ı	FAFW-M8		47	FGGR-18X300		8
ı	FALN-M8		47	FGEC-18 / 20		8.
ı	FAHB-M8x16 / M8x20		47	FGAP-25		8!
ı	FAFR-35 / 18 / 11		48	FGRA-26x39x45A		8!
ı	FASR-75x15 / 75x19P		49	FGRA-8x39x45		8!
ı	FAFR-75		49	FGRA-8x9x45		8!
ļ	FAEC-DH / WH		50	FGRA-6x9x45 FGRA-26x39x45		8
				FGRA-26x9x45		8
i	FB Cturetural Contains					
ı	FB Structural System			FGRB-16x54		8 8'
ı	FBSB-40x40 / 64x64		54	FGRB-16x42 / 28x42		
ı	FBSB-64x64C / 80x80		55	FGRB-40x42		8'
ı	FBSB-40x80 / 40x80C		56	FGRB-49x42		8
ı	FBEC-40x80 / 40		57	FGRB-53x42 / 90x42		8
ı	FBEC-64 / FBEC-80		58	FGRD-6		8
ı	FBFT-64 / 64A		59	FGRC-20 / 20A		8
ı	FBFT-64B		60	FGRB-16x42C		9
	FBCS-20x76		60	FGRB-16x52C		9
1	FBCS-20x96		61	FGCS-13x50		9
1	FBFT-64TP / 64BP		62	FGRR-12x20		9
				FGRR-15x20		9:
1	FBFT-80TP / 80BP FBFT-64xM8		63 64	FGRR-10x20 / 10x20F		9:
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1	FBFT-64xM8S / 64xM10S		64			

FGRT-3x33		93	FGRK-18 x 80A	118
FGRT-3x50 / FGRR-15x4	.0	94	FGRF-42 x 18V	119
FGEC-15x40		94	FGRK-18 x 80A	119
FGVG-3		95	FGRL-18 X 110CA/160C	A 119
FGEC-15x20		95	FGRF-42 x 18V FGRS-18	120
FGRC-100 / 60		95	FGDT-150	120
FGRJ-15x20 / 10x20		96	FGRF-42 x 18V	120
FGEC-10x20		96	FGRS-18 & FGDT-200	120
FGEC-30D & FGRS-18 /	15x20	97	FGRB-40 x 18	121
FGRS-18F		98	FGRK-18x80	121
FGRL-18x110C/ 18x160	C	98		
FGRC-18x110C		99	FK 44mm Conveyor Syst	tem
FGRC-18x160C		99	FKCB-3 / 3H	
FGRK-18x40A / 18x60A		99	FKCC-160	133
FGRK-18x80A / 18x130A		99	FKWT-5PR / 5PL	133
FGRL-18x110CA		100	FKPC-5 / 5CD	134
FGRL-18x160CA		100	FKFT-5 / FKWT-5C / 5D	134
FGRF-42x18V		101	FKFK-5 / FKST-5 / FKST-5	
FGRD-18A / 6A / 6C	101 /			
FGRF-A35 / A110 / DP			FKCT-5G-h-L# FKDD	135 136 - 138
FGRB-40x18 / 40x20			FKSD	136 - 138
FGRB-40x15x20			FKID	140 - 141
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FGRB-18x18 / 18x20			FKWD	143
FGRB-20x20 / 18x20T				
FGRB-20x20T			FKIE-200	144
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			FKWB	145 - 146
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FGRX-18X20 / 18x18 FGRX-20x20 / 15x20 FGSP-DT		107 107 108	FKHB FKVB	147 - 149 150 - 152
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