ENGINEERING MANUAL

Complex Configurations & Tight Spaces Ideal for Corrosion Resistant Applications Reduces Conveyor Footprint Capable of Curves, Inclines & Declines

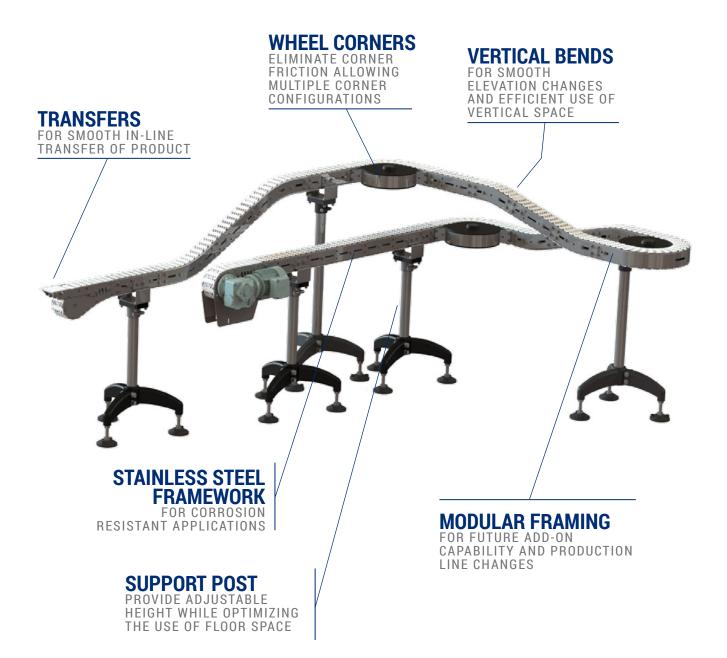


FIEXICY STAINLESS SERIES

High Performance, Stainless Steel, Flexible Chain Conveyors







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Patents

Essential parts of the FlexMove product range are protected by patents and design regulations. Drawings are made to European standards. Juy 2024

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



PRODUCT OVERVIEW

FlexMcve Stainless Series



Basic System Selection

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

Product Dimensions

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

Product Weight

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

Technical Calculation

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

Small Footprint

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

Bends

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

Wheel Bends

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

Horizontal Bends

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

Vertical Bends

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



PRODUCT OVERVIEW



Slide Rail

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

Conveyor Frames

Conveyor frames are made of Stainless Steel provided in cut to length sizes to match the application. The conveyor side frame is provided with mounting locations for guides and support stands.

Guide Rail Assembly System

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

Structural System

Our Stainless Steel structural support system consists of Stainless support stands cut to the height of the application. Each support includes a tripod base for fine height adjustments.

Conveyor Accessories

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

HOW TO PURCHASE

Purchasing a FlexMove Conveyor

Dorner offers three solutions for purchasing a FlexMove Conveyor.

- The first solution is to order all the necessary parts and components to build your FlexMove Conveyor on site. This will require the proper tools for cutting, bending and installing the conveyor. Consult our installation guide for FlexMove Conveyors for more details.
- The second solution is to have a complete conveyor provided through our FlexMove Solutions. With FlexMove Solutions, you can have the conveyor built in our facility, tested, broken down into shippable sections and shipped to the end site for installation.
- The third solution is to work with Dorner to have your FlexMove Conveyor assembled at the final site. The Conveyor will be purchased similar to option 2, but will be shipped as pre-cut and sized components. The Dorner installation team will then assemble and test the equipment at your location. Contact a Dorner representative for a quote on this service.

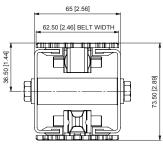


FRAME WIDTHS

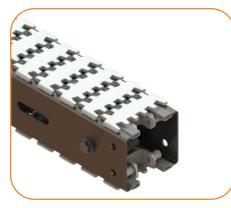


65 mm (2.5 in)

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

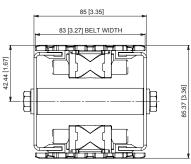


65 MM WIDTH



85 mm (3.4 in)

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

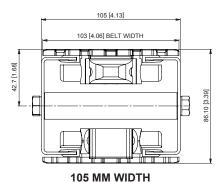


85 MM WIDTH



105 mm (4.1 in)

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



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



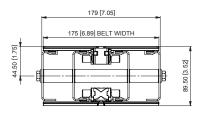
FRAME WIDTHS





180 mm (7.1 in)

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

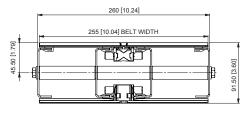


179 MM WIDTH

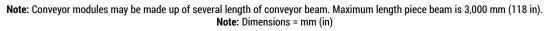


260 mm (10.2 in)

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



260 MM WIDTH





SS SERIES: 65 mm

SS Series

SS Series:

Beam Width: 65 mm

Product Width: Refer to Guide Rail Assembly

Accessories Needed:

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

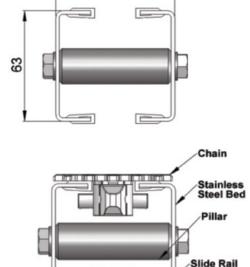
Slide Rail Color: White or Natural Color

Slide Rail Material: HDPE OR UHMW

Slide Rail Rivet: FASLS-M5

Connecting strip is used to connect 2 beams.

Connecting Strip: SACS-50x70

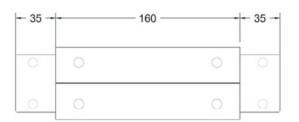


65

Conveyor Beam SSCB-LXXXX

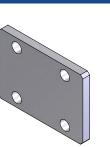


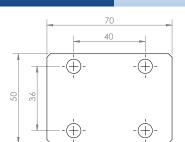
Chain Connecting Module SSCC-160





Connecting Strip – Stainless Steel



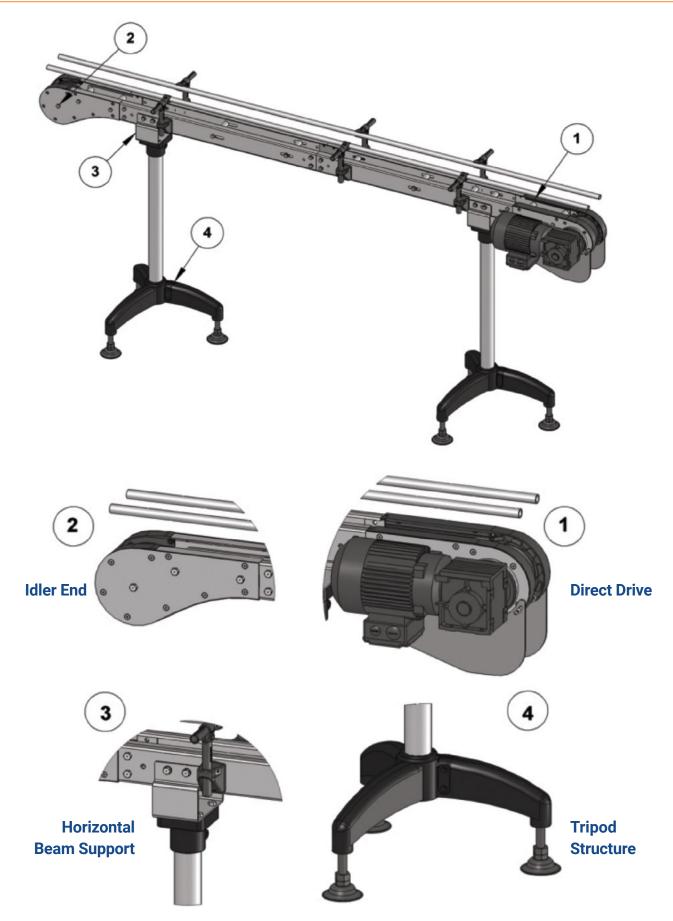


SACS-50x70

UOM: pc

5.70







SS SERIES: 65 mm

Chain Common Data

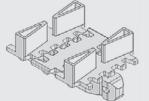
Packaging: 5 m per box Pitch: 25.4 mm Width: 63 mm Tensile Strength at 20°C: 4000N Color: White & Black (Conductive)

Material:

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

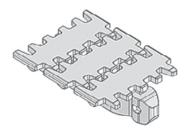
Example for FSCT-5A17-L#

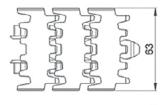
= 1 cleated top chain with alternate
of # link of plain chain

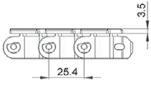


The above chain is FSCT-5A17-L1, 1 link cleated top chain with alternate of 1 link of plain chain. **Note: # = 1, 2, 3, 4, 5....20**

Standard Plain Chain FSPC-5



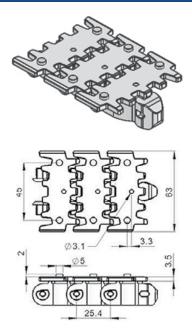




UOM: 5 Meter / box

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

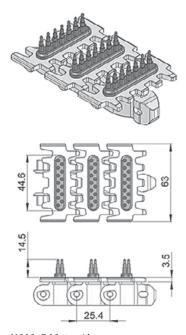
Universal Chain FSUC-5



UOM: 5 Meter / box Application: Universal Link with M3 Nut,

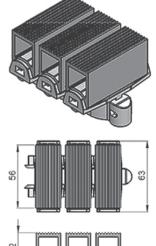
Suitable for attached customer cleat or fixture

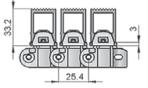
Wedge Top Chain FSWT-5A



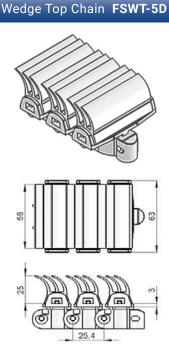
UOM: 5 Meter / box Application: Vertical Wedge transportation of products.

Wedge Top Chain FSWT-5C





UOM: 5 Meter / box Application: Vertical Wedge transportation of products. (Heavy Duty)



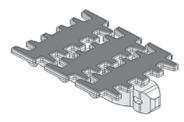
UOM: 5 Meter / box Application: Vertical Wedge transportation of products.

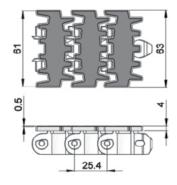


SS SERIES: 65 mm

FlexMcve. Stainless Series

Friction Top Chain **FSFT-5**





UOM: 5 Meter / box Application: Suitable for transport product in

Conductive Chain FSPC-5CD

slope > 5° but \leq 30° without accumulation.

Friction Top Chain FSFT-5C

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UOM: 5 Meter / box

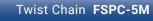
σ

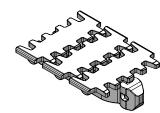
25.4

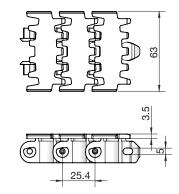
Application: Suitable for transport product in

slope > 5° but \leq 35° without accumulation.

Subject to product weight and packing







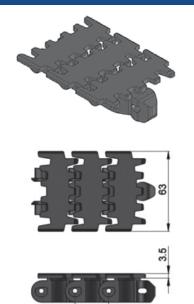
UOM: 5 Meter / box

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

Flocked Chain FSFK-5

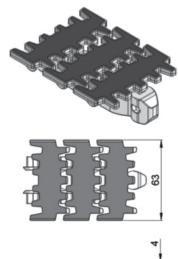
8

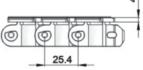
ω



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

25.4





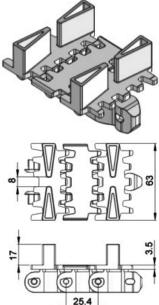
UOM: 5 Meter / box Application: Suitable to transport lightweight, fragile and scratch sensitive product.



SS SERIES: 65 mm

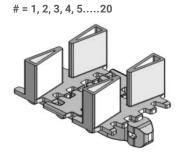
Cleat Top Chain-A FSCT-5A17-L#

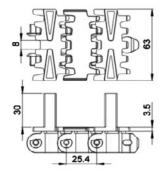




UOM: 5 Meter / box Application: Suitable for vertical transport of product with no accumulation.

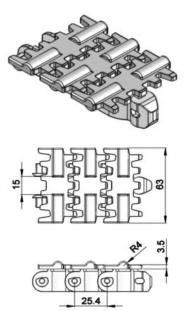
Cleat Top Chain-A FSCT-5A30-L#





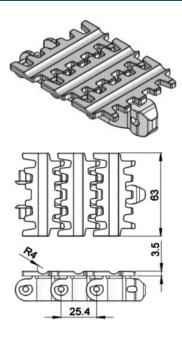
UOM: 5 Meter / box Application: Suitable for vertical transport of product with no accumulation.

Cleat Top Chain-B FSCT-5B



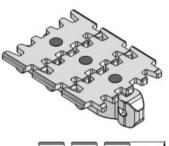
UOM: 5 Meter / box Application: Suitable Cigarette transport.

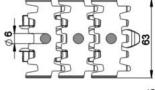
Cleat Top Chain-C FSCT-5C

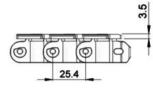


UOM: 5 Meter / box Application: Suitable for Cigarette transport.

Magnet Top Chain FSMT-5

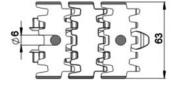


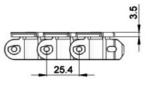




UOM: 5 Meter / box Application: Suitable for conveying ferromagnetic products in slope.

Magnet Top Chain FSMT-5-L# # = 1, 2, 3, 4, 5.....20





UOM: 5 Meter / box Application: Suitable for conveying ferromagnetic products in slope.

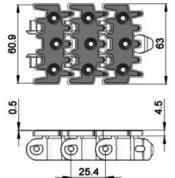


SS SERIES: 65 mm

FlexMove. Stainless Series

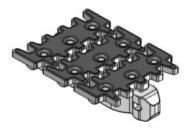
Hardened Steel Top Chain FSST-5

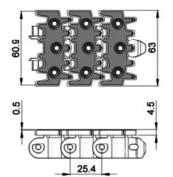




UOM: 5 Meter / box Application: Suitable to transport metal products in accumulation.

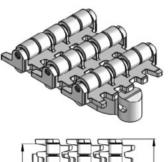
Stainless Steel Top Chain FSST-5S

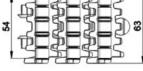


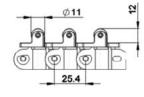


UOM: 5 Meter / box Application: Suitable to transport metal products in accumulation.

Roller Top Chain FSRT-5



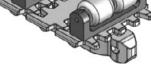


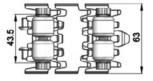


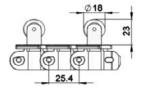
UOM: 5 Meter / box Application: Suitable for accumulation of product with low friction and pressure.



Roller Cleat Chain FSRC-5A-L#







UOM: 5 Meter / box Application: Suitable for vertical transportation, of product in slope with no accumulation.



13)

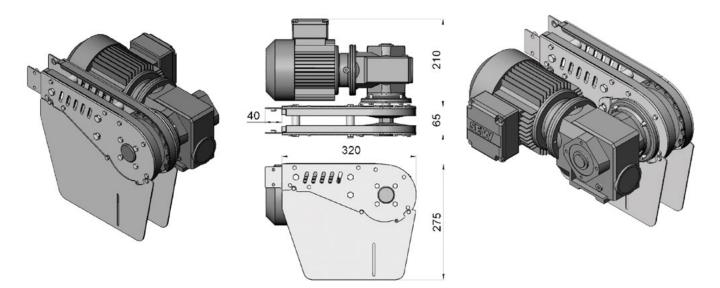
SS SERIES: 65 mm

SS Direct End Drive without Motor (LEFT)

SSDD-A65-0L

SS Direct End Drive without Motor (RIGHT)

SSDD-A65-0R



Max Traction Force: 500N

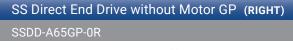
The standard Direct End Drive Unit is without torque limiter. See page 66-67 for Gearmotor options.

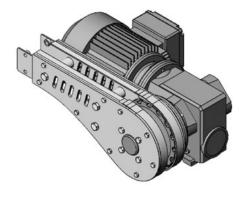
UOM: pc

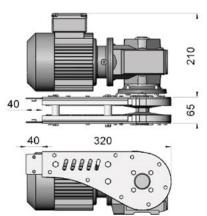
Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter

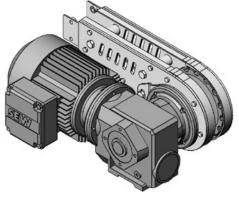
SS Direct End Drive without Motor GP (LEFT)

SSDD-A65GP-0L









Max Traction Force: 500N

The Direct End Drive GP is used for vertical wedge conveyor. See page 66-67 for Gearmotor options.

UOM: pc

14

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

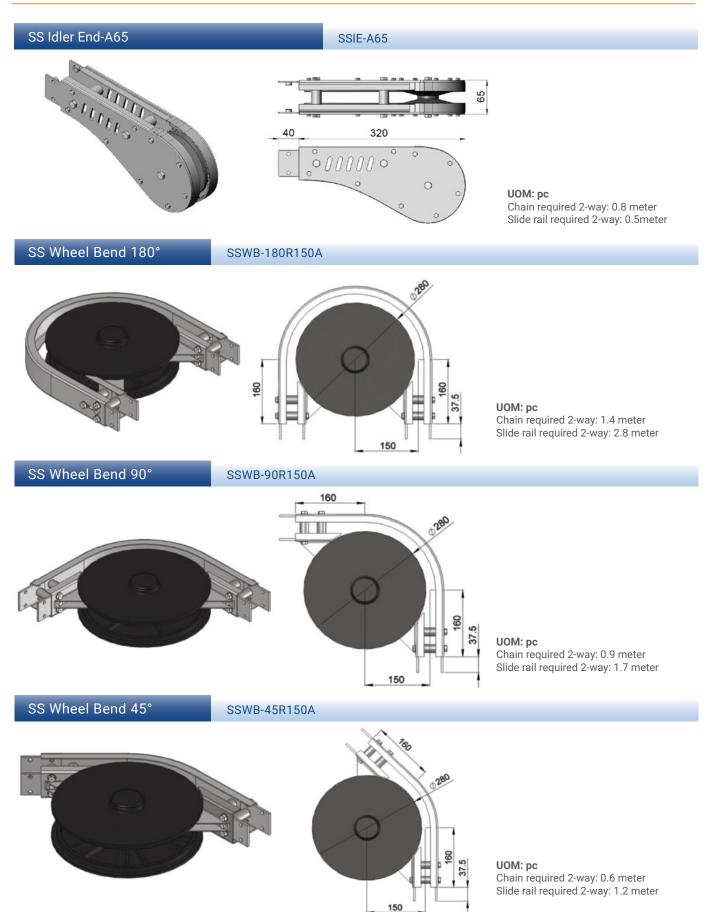
SEW gearmotors are products of SEW Eurodrive



UOM: pc

SS SERIES: 65 mm

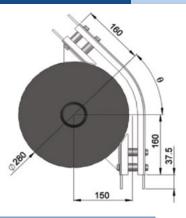




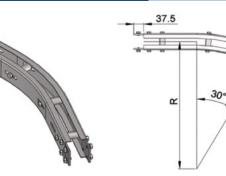
DORNER

SS SERIES: 65 mm

SS Wheel Bend 5° - 180°



SS Horizontal Plain Bend 30°



Example for SS Wheel Bend Ordering

- Wheel bend, ذ ± 1°

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

SSWB-65R150

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

Horizontal plain bend, 30° ± 1°

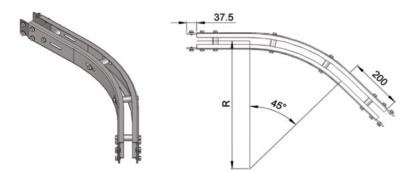
R = 500 ± 10 mm SSH R = 700 ± 10 mm SSH

SSHB-30R500 SSHB-30R700

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

SS Horizontal Plain Bend 45°



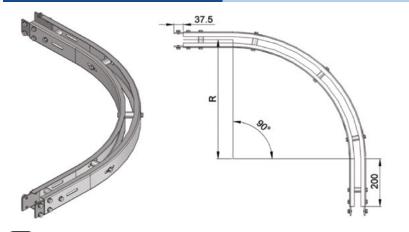
Horizontal plain bend, 45° ± 1°

R = 500 ± 10 mm R = 700 ± 10 mm SSHB-45R500 SSHB-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

SS Horizontal Plain Bend 90°



Horizontal plain bend, 90° ± 1°

R = 500 ± 10 mm R = 700 ± 10 mm SSHB-90R500 SSHB-90R700

UOM: pc

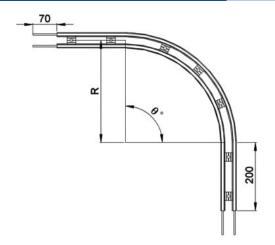
Chain required 2-way (500, 700): 2.4, 3.0 meter Slide rail required 2-way (500, 700): 4.8, 6.0 meter



SS SERIES: 65 mm



SS Horizontal Plain Bend 5-180°



Example for SS Horizontal Plain Bend Ordering

Horizontal plain bend, ذ ± 1°

R = 500 ± 10 mm	SSHB- ذR50
R = 700 ± 10 mm	SSHB- ذR700

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

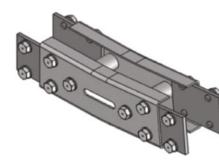
SSHB-120R500

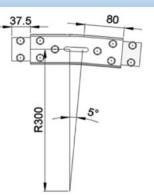
UOM: pc

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

SS Vertical Bend 5°

SSVB-5R300

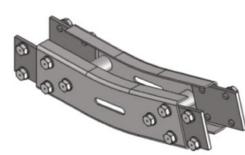


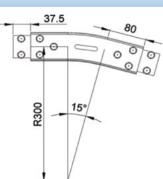


UOM: pc Chain required 2-way: 0.4 meter Slide rail required 2-way: 0.8 meter

SS Vertical Bend 15°

SSVB-15R300

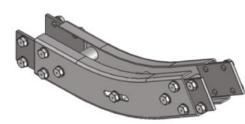




UOM: pc Chain required 2-way: 0.6 meter Slide rail required 2-way: 1.1 meter

SS Vertical Bend 30°

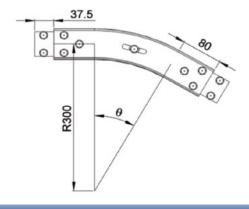
SSVB-30R300





FlexMcve Stainless

SS Vertical Bend 5° - 90°



Example for SS Vertical Bend Ordering

- Vertical bend, ذ ± 1°

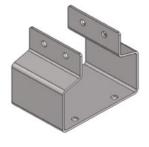
If an angle of 25° is needed for vertical bend, the ordering part number is

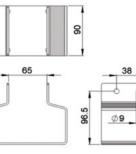
SSVB-25R300

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

> 0 0

SS Horizontal Beam Support Bracket - Stainless Steel





0 6

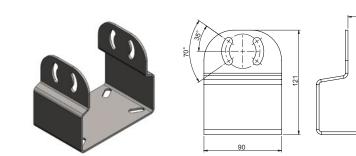
UOM: pc

UOM: pc

SS Adjustable Angle Beam Support Bracket

SAHBS-90S-A35

SAHBS-90S



SBSS-HXXXX, where XXXX = H Height (mm)

SS Adjustable Angle Tripod Support

SS Horizontal Tripod Support

SBSS-A-HXXXX, where XXXX = H Height (mm)

т UOM: pc Includes Beam Support Bracket





SM Series

SM Series:

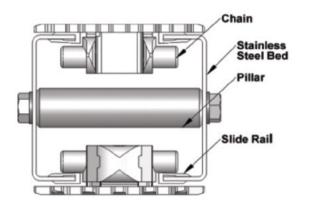
Beam Width: 85 mm

Product Width: Refer to Guide Rail Assembly

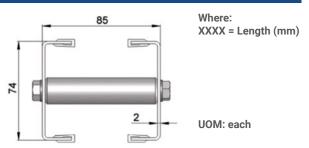
Accessories Needed:

Slide Rail Required: FASR-25 OR FASR-25U Slide Rail Color: White or Natural Color Slide Rail Material: HDPE OR UHMW Slide Rail Rivet & Screw: FASLS-M5 Connecting strip is used to connect two beams.

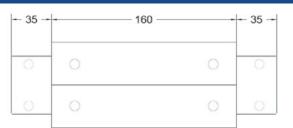
Connecting Strip: SACS-50x70



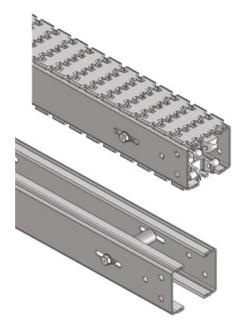
Conveyor Beam SMCB-LXXXX

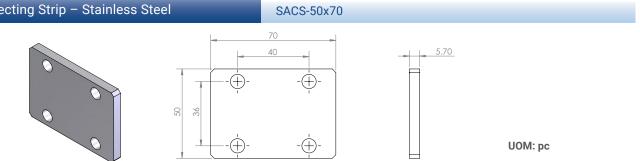


Chain Connecting Module SMCC-160

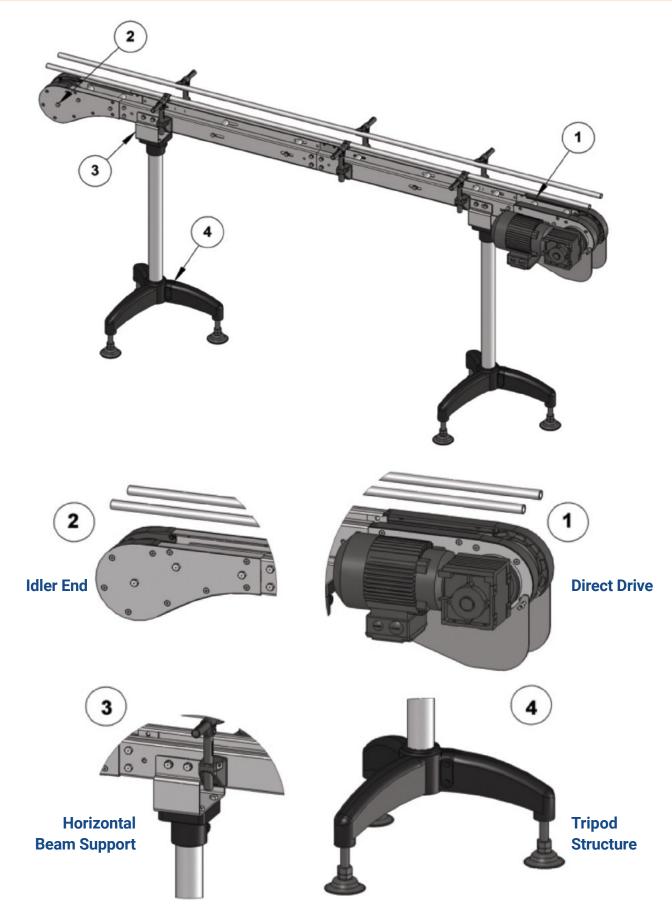


Connecting Strip – Stainless Steel











SM SERIES: 85 mm

FlexMcve. Stainless Series

Chain Common Data

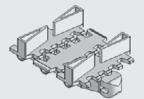
Packaging: 5 m per box Pitch: 33.5 mm Width: 83 mm Tensile Strength at 20°C: 6000N Color: White & Black (Conductive)

Material:

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

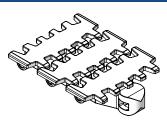
Example for FMCT-5A17-L#

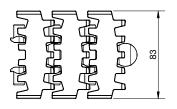
= 1 cleated top chain with alternate
of # link of plain chain

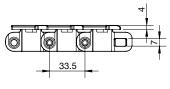


The above chain is FMCT-5A17-L1, 1 link cleated top chain with alternate of 1 link of plain chain. Note: # = 1, 2, 3, 4, 5.....20

Twist Chain FMPC-5M



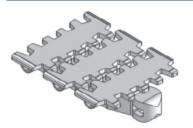


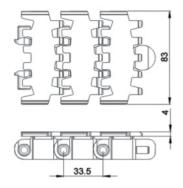


UOM: 5 Meter / box

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

Standard Plain Chain FMPC-5

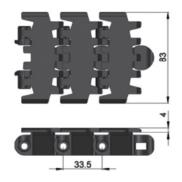




UOM: 5 Meter / box Application: Suitable for horizontal and slope < 5° transport of products with accumulation.

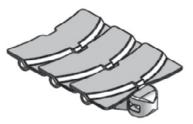
Conductive Chain FMPC-5CD

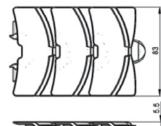


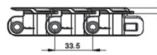


UOM: 5 Meter / box Application: Suitable for transport of static sensitive product.

Safety Chain FMPC-5V





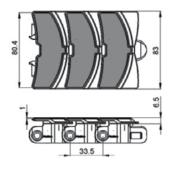


UOM: 5 Meter / box

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

Safety Chain Friction Top FMFT-5V-A





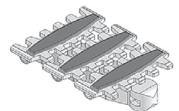
UOM: 5 Meter / box

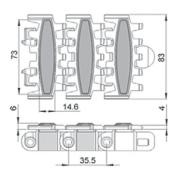
Application: (Safety Chain) Suitable for transport product in slope > 5° but $\leq 30^{\circ}$ without accumulation.



SM SERIES: 85 mm

Friction Top Chain FMFT-5



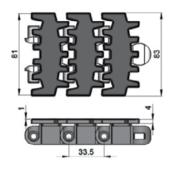


UOM: 5 Meter / box

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

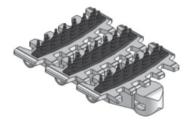
Friction Top Chain FMFT-5A

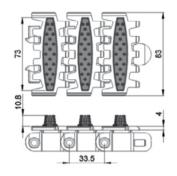




UOM: 5 Meter / box Application: Suitable for transport product in slope > 5° but \leq 30° without accumulation.

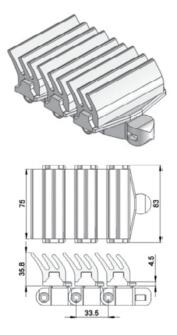
Wedge Top Chain FMWT-5A





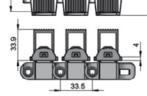
UOM: 5 Meter / box Application: Vertical Wedge transportation of products.

Wedge Top Chain FMWT-5B



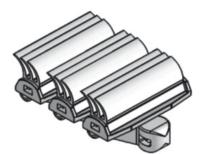
UOM: 5 Meter / box Application: Vertical Wedge transportation of products (Heavy Duty)

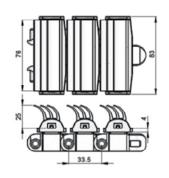
Wedge Top Chain FMWT-5C



UOM: 5 Meter / box Application: Vertical Wedge transportation of products (Heavy Duty)

Wedge Top Chain FMWT-5D





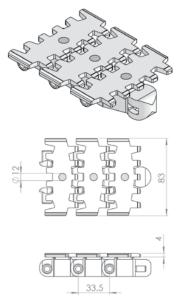
UOM: 5 Meter / box Application: Vertical Wedge transportation of products.



SM SERIES: 85 mm

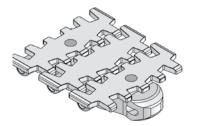
FlexMcve. Stainless Series

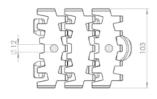
Magnet Top Chain FMMT-5

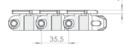


UOM: 5 Meter / box Application: Suitable for conveying of ferromagnetic products in slope.

Magnet Top Chain FMMT-5-L#

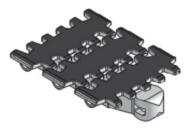


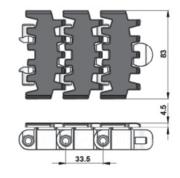




UOM: 5 Meter / box Application: Suitable for conveying of ferromagnetic products in slope.

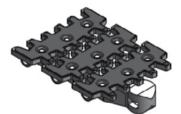
Flocked Chain FMFK-5

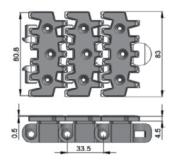




UOM: 5 Meter / box Application: Suitable to transport lightweight, fragile and scratch sensitive product.

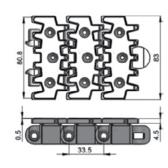
Hardened Steel Top Chain FMST-5





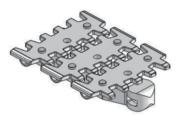
UOM: 5 Meter / box Application: Suitable to transport metal products in accumulation.

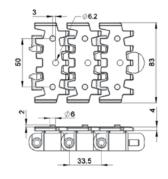
Stainless Steel Top Chain FMST-5S



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

Universal Chain FMUC-5





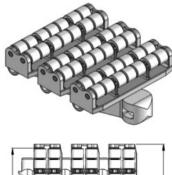
UOM: 5 Meter / box

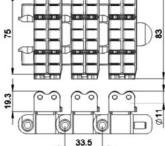
Application: Universal Link with M6 Nut, Suitable for attached customer cleat or fixture.



SM SERIES: 85 mm

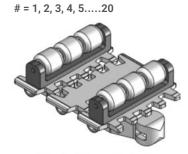
Roller Top Chain FMRT-5

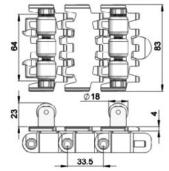




UOM: 5 Meter / box Application: Suitable for accumulation of product with low friction and pressure.

Roller Cleat Chain FMRC-5A-L#

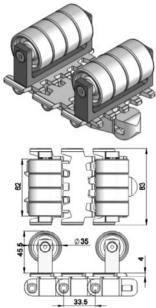




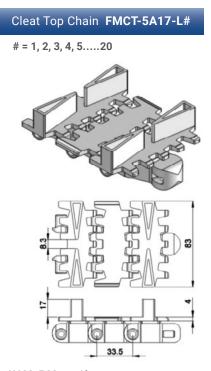
UOM: 5 Meter / box Application: Suitable for vertical transportation of product in slope with no accumulation.

Roller Cleat Chain FMRC-5B-L#

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



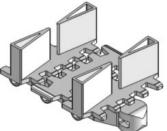
UOM: 5 Meter / box Application: Suitable for vertical transportation of product in slope with no accumulation.

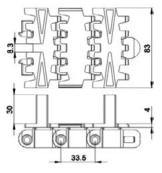


UOM: 5 Meter / box Application: Suitable for vertical transport of product with no accumulation.

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.



SM SERIES: 85 mm

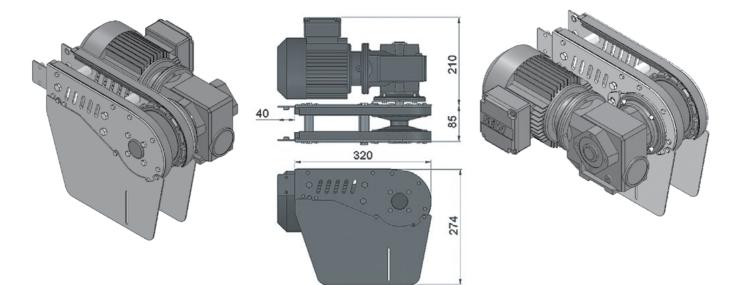
FlexMove Stainless

SM Direct End Drive without Motor (LEFT)

SMDD-A85-0L

SM Direct End Drive without Motor (RIGHT)

SMDD-A85-0R

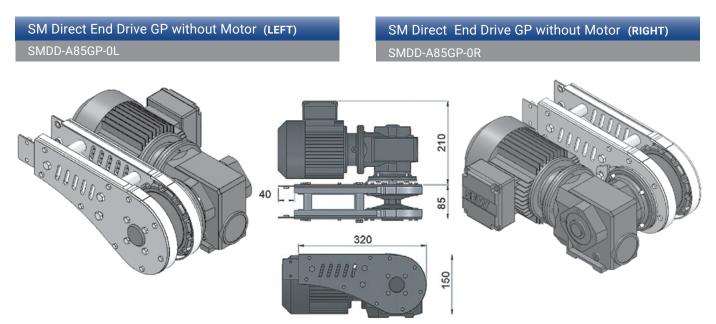


Max Traction Force: 1250N

The Direct End Drive Unit is without torque limiter. See page 66-67 for Gearmotor options.

UOM: pc

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



Max Traction Force: 1250N

The Direct End Drive Unit is without torque limiter. See page 66-67 for Gearmotor options.

UOM: pc Chain required 2-way: 0.8 meter

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

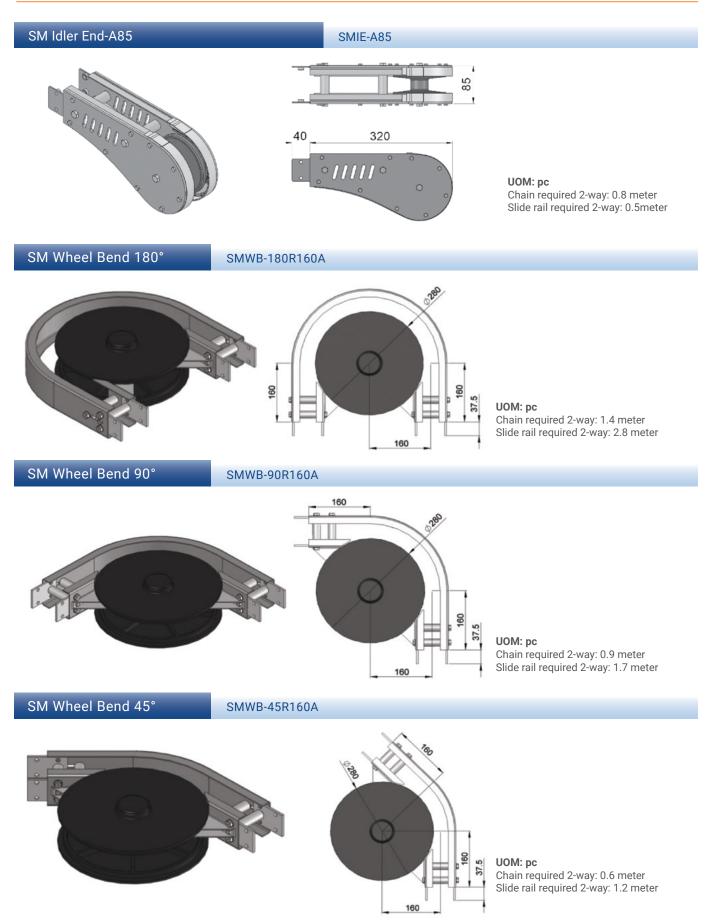


SEW gearmotors are products of SEW Eurodrive



26

SM SERIES: 85 mm

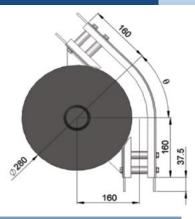


DORNER

SM SERIES: 85 mm



SM Wheel Bend 5° - 180°



Example for SM Wheel Bend Ordering

- Wheel bend, ذ ± 1°

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

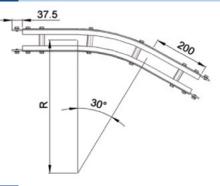
SMWB-65R160

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

R = 700 ± 10 mm

SM Horizontal Plain Bend 30°





Horizontal plain bend, 30° ± 1° R = 500 ± 10 mm **SMHB-30R500**

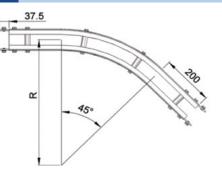
SMHB-30R700

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

SM Horizontal Plain Bend 45°





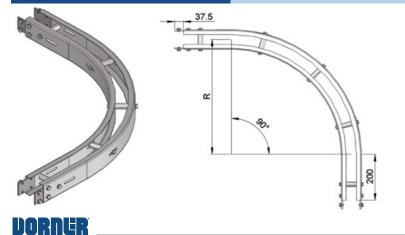
Horizontal plain bend, 45° ± 1°

R = 500 ± 10 mm R = 700 ± 10 mm SMHB-45R500 SMHB-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

SM Horizontal Plain Bend 90°



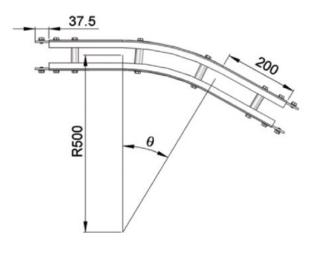
Horizontal plain bend, 90° ± 1°

R = 500 ± 10 mm R = 700 ± 10 mm SMHB-90R500 SMHB-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

SM Horizontal Plain Bend 5-180°



Example for SM Horizontal Plain Bend Ordering

Horizontal plain bend, ذ ± 1°

R = 500 ± 10 mm	SMHB-ØR500
R = 700 ± 10 mm	SMHB-ØR700

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

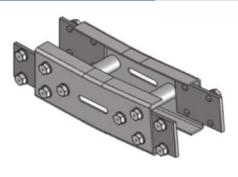
SMHB-70R500

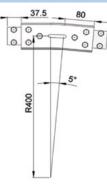
UOM: pc

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

SM Vertical Bend 5°

SMVB-5R400

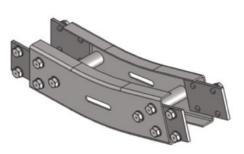


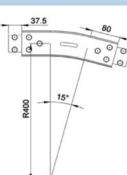


UOM: pc Chain required 2-way: 0.4 meter Slide rail required 2-way: 0.8 meter

SM Vertical Bend 15°

SMVB-15R400





UOM: pc Chain required 2-way: 0.6 meter Slide rail required 2-way: 1.1 meter

SM Vertical Bend 30°

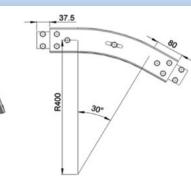
06

SMVB-30R400

3

0

S



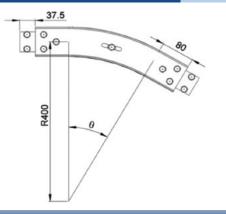
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 1.5 meter



SM SERIES: 85 mm



SM Vertical Bend 5° - 90°



Example for SM Vertical Bend Ordering

- Vertical bend, ذ ± 1°

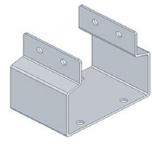
If an angle of 25° is needed for vertical bend, the ordering part number is

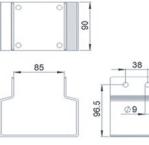
SMVB-25R400

0

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

SM Horizontal beam support bracket – Stainless Steel





2

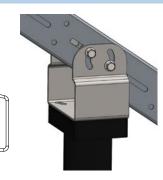
90

UOM: pc

SM Adjustable Angle Beam Support Bracket

SAHBS-90M-A35

SAHBS-90M



UOM: pc

 SM Horizontal Tripod Support
 SBSM-HXXXX, where XXXX = H Height (mm)

 SM Adjustable Angle Tripod Support
 SBSM-A-HXXXX, where XXXX = H Height (mm)

 Image: Constraint of the second secon

UOM: pc Includes Beam Support Bracket



SC SERIES: 105 mm

SC Series

SC Series:

Beam Width: 105 mm

Product Width: Refer to Guide Rail Assembly

Accessories Needed:

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

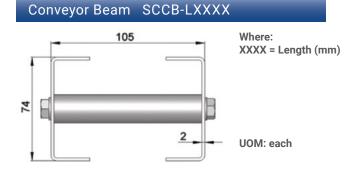
Slide Rail Color: White or Natural Color

Slide Rail Material: HDPE OR UHMW

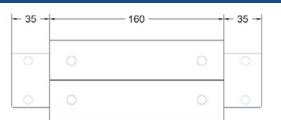
Slide Rail Rivet: FASLS-M5

Connecting strip is used to connect 2 beams.

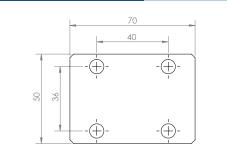
Connecting Strip: SACS-50x70

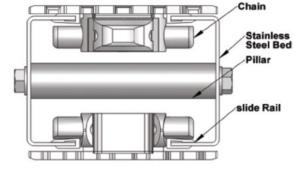


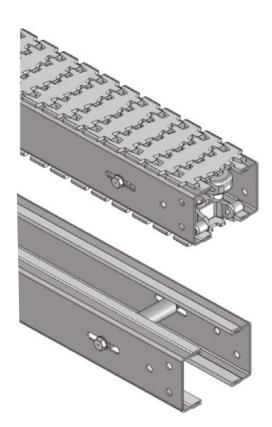
Chain Connecting Module SCCC-160



Connecting Strip - Stainless Steel





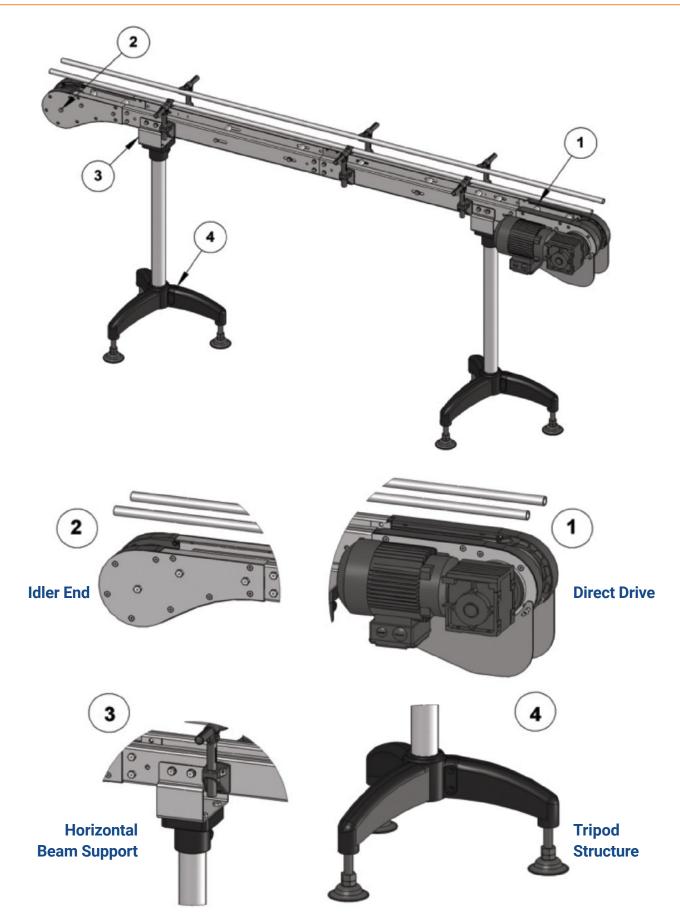


SACS-50x70

UOM: pc

5.70







SC SERIES: 105 mm

Chain Common Data

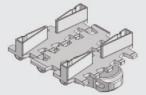
Packaging: 5 m per box Pitch: 35.5 mm Width: 103 mm Tensile Strength at 20°C: 6000N Color: White & Black (Conductive)

Material:

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

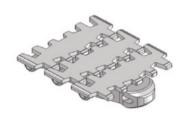
Example for FCCT-5A17-L#

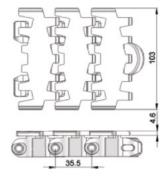
= 1 cleated top chain with alternate
of # link of plain chain



The above chain is FCCT-5A17-L1, 1 link cleated top chain with alternate of 1 link of plain chain. Note: # = 1, 2, 3, 4, 5.....20

Standard Plain Chain FCPC-5

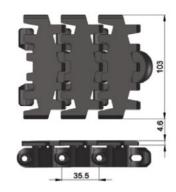




UOM: 5 Meter / box Application: Suitable for horizontal and slope < 5° transport of products with accumulation.

Conductive Chain FCPC-5CD

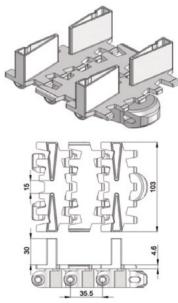




UOM: 5 Meter / box Application: Suitable for transport of static sensitive product.

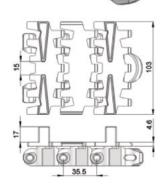
Cleat Top Chain FCCT-5A30-L#

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



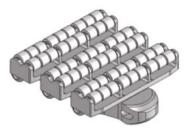
UOM: 5 Meter / box Application: Suitable for vertical transport of product with no accumulation.

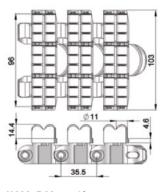
Cleat Top Chain FCCT-5A17-L#
= 1, 2, 3, 4, 520
A STATE OF STATE



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

Roller Top Chain FCRT-5





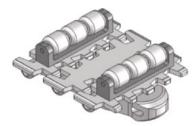
UOM: 5 Meter / box Application: Suitable for accumulation of product with low friction and pressure.

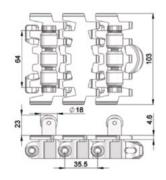


SC SERIES: 105 mm

FlexMcve. Stainless Series

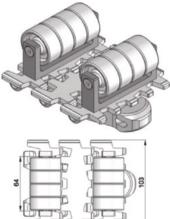
Roller Cleat Chain FCRC-5A-L#

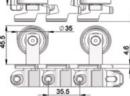




UOM: 5 Meter / box Application: Suitable for vertical transportation of product in slope with no accumulation.

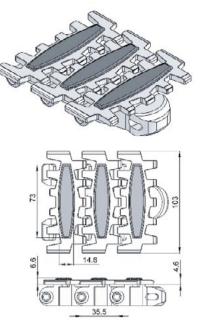
Roller Cleat Chain FCRC-5B-L#





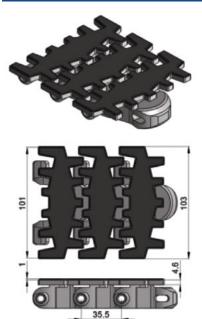
UOM: 5 Meter / box Application: Suitable for vertical transportation of product in slope with no accumulation.

Friction Top Chain FCFT-5



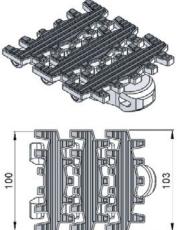
UOM: 5 Meter / box Application: Suitable for transport product in slope > 5 \circ but \leq 30 \circ without accumulation.

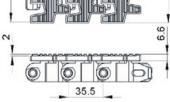
Friction Top Chain FCFT-5A



UOM: 5 Meter / box Application: Suitable for transport product in slope > 5 \circ but < 30 \circ without accumulation.

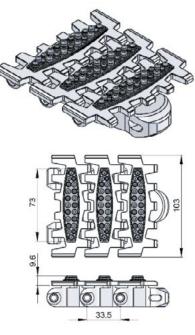
Friction Top Chain FCFT-5B





UOM: 5 Meter / box Application: Suitable for transport product in slope > 5 ° but ≤ 40 ° without accumulation.

Friction Top Chain FCFT-5C

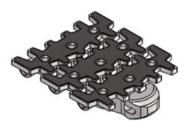


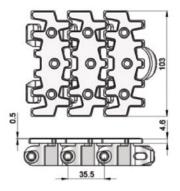
UOM: 5 Meter / box Application: Suitable for transport product in slope > 5 ° but ≤ 35 ° without accumulation.



SC SERIES: 105 mm

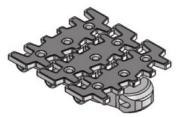
Hardened Steel Top Chain FCST-5

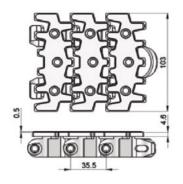




UOM: 5 Meter / box Application: Suitable to transport metal products in accumulation.

Stainless Steel Top Chain FCST-5S



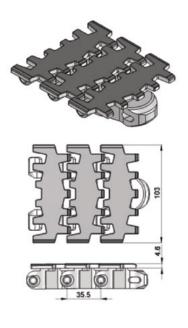


UOM: 5 Meter / box Application: Suitable to transport metal products in accumulation.

Flocked Chain FCFK-5

Safety Chain FCPC-5V

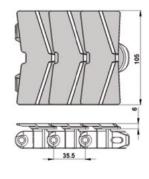
Twist Chain FCPC-5M



UOM: 5 Meter / box

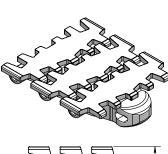
Application: Suitable to transport lightweight, fragile and scratch sensitive product.



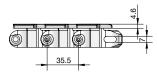


UOM: 5 Meter / box

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







UOM: 5 Meter / box

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



SC SERIES: 105 mm

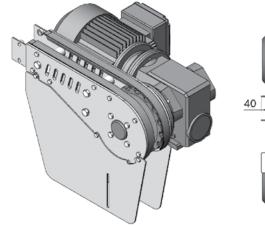
FlexMcve. Stainless Series

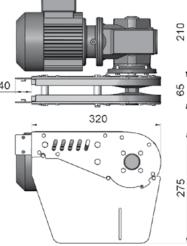
SC Direct End Drive without Motor (LEFT) SCDD-A105-0L

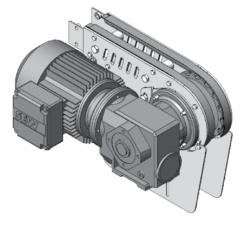
SC Direct End Drive without Motor (LEFT)

SCDD-A105-0R

1





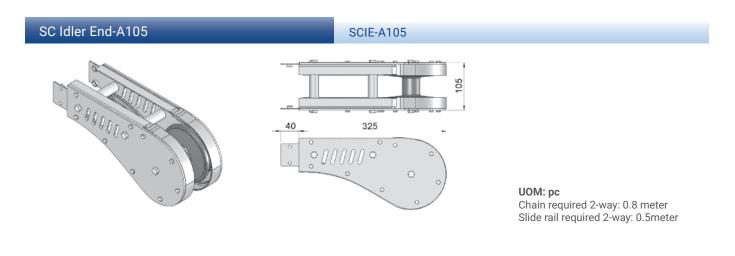


Max Traction Force: 1250N

The Direct End Drive Unit is without torque limiter. See page 66-67 for Gearmotor options.

UOM: pc

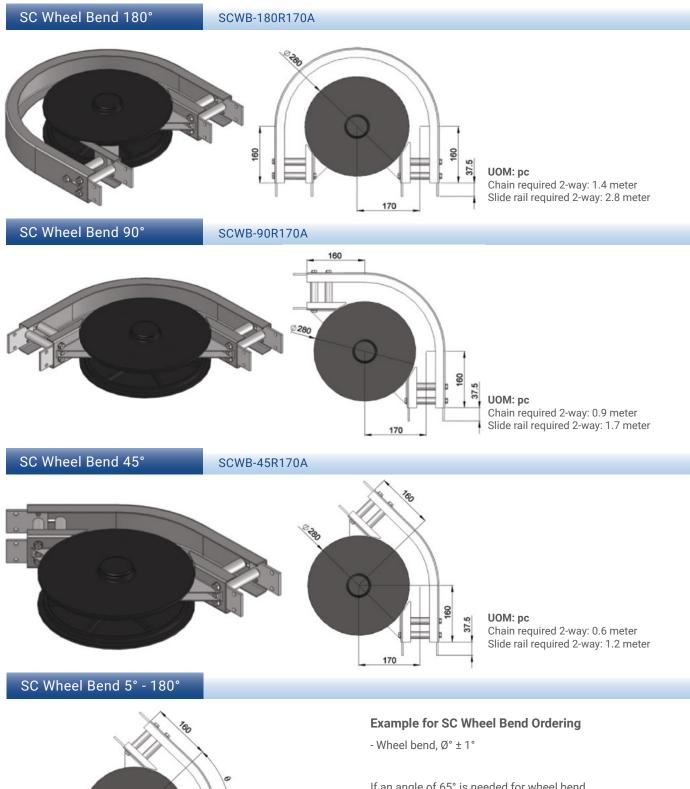
Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.5 meter



SEW gearmotors are products of SEW Eurodrive



SC SERIES: 105 mm



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

SCWB-65R170

8

170

37

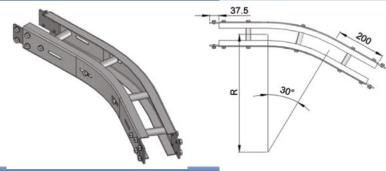
The outer bend is assembled using connecting strip (SACS-50x75). Angle of \emptyset° must be indicated when ordering.



SC SERIES: 105 mm

FlexMcve. Stainless Series

SC Horizontal Plain Bend 30°



Horizontal plain bend, 30° ± 1°

 R = 500 ± 10 mm
 SCHE

 R = 700 ± 10 mm
 SCHE

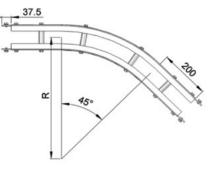
SCHB-30R500 SCHB-30R700

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

SC Horizontal Plain Bend 45°





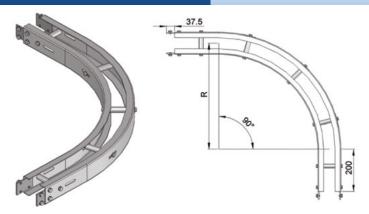
Horizontal plain bend, 45° ± 1°

R = 500 ± 10 mm R = 700 ± 10 mm SCHB-45R500 SCHB-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

SC Horizontal Plain Bend 90°



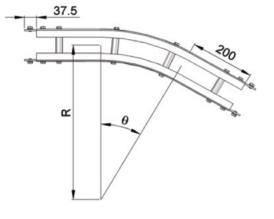
Horizontal plain bend, 90° ± 1°

R = 500 ± 10 mm R = 700 ± 10 mm SCHB-90R500 SCHB-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

SC Horizontal Plain Bend 5-180°



Example for SC Horizontal Plain Bend Ordering

Horizontal plain bend, ذ ± 1°

R = 500 ± 10 mm	SCHB-ØR500
R = 700 ± 10 mm	SCHB-ØR700

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

SCHB-70R500

UOM: pc

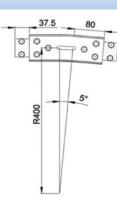
Chain required 2-way (500, 700): meter (Variable to angle) Slide rail required 2-way (500, 700): meter (Variable to angle)



37

SC SERIES: 105 mm



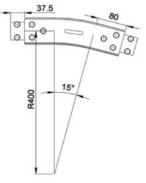


UOM: pc Chain required 2-way: 0.4 meter Slide rail required 2-way: 0.8 meter

SC Vertical Bend 15°

6

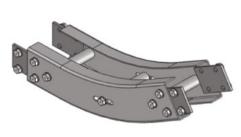
SCVB-15R400



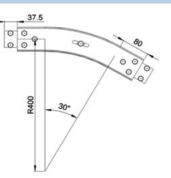
UOM: pc Chain required 2-way: 0.6 meter Slide rail required 2-way: 1.1 meter

SC Vertical Bend 30°

SCVB-30R400

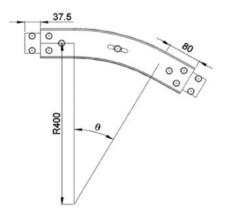


0



UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 1.5 meter

SC Vertical Bend 5° - 90°



Example for SC Vertical Bend Ordering

- Vertical bend, $\emptyset^{\circ} \pm 1^{\circ}$

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

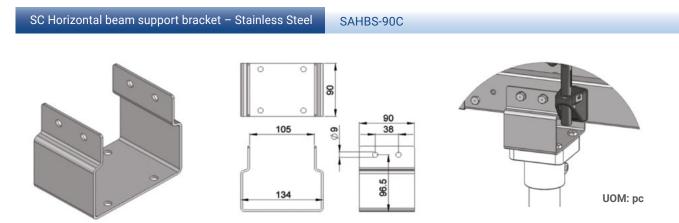
SCVB-25R400

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



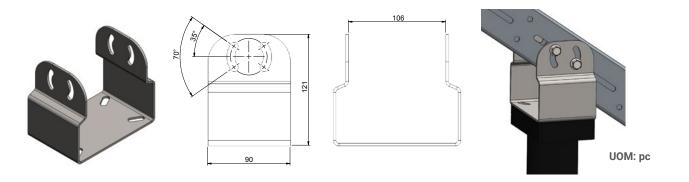
SC SERIES: 105 mm





SC Adjustable Angle Beam Support Bracket





SC Adjustable Angle Tripod Support	SBSC-HXXXX, where XXXX = H Height (mm)
SC Horizontal Tripod Support	SBSC-A-HXXXX, where XXXX = H Height (mm)







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SU Series

SU Series:

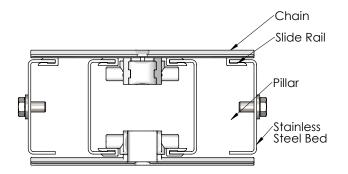
Beam Width: 179 mm

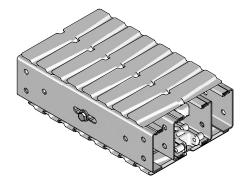
Product Width: Refer to Guide Rail Assembly

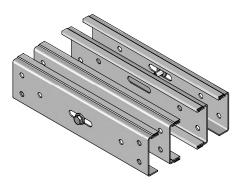
Accessories Needed:

Slide Rail Required: FASR-25, FASR-25U, FASR-25X Slide Rail Color: White or Natural Color Slide Rail Material: HDPE, UHMWPE or Special PE Slide Rail Rivet: FASLS-M5 Connecting strip is used to connect two beams.

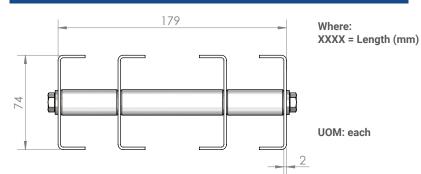
Connecting Strip: SACS-50x70







Conveyor Beam SUCB-LXXXX

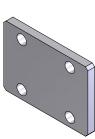


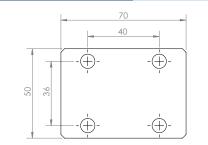
Chain Connecting Module SUCC-300



Connecting Strip – Stainless Steel

SACS-50x70



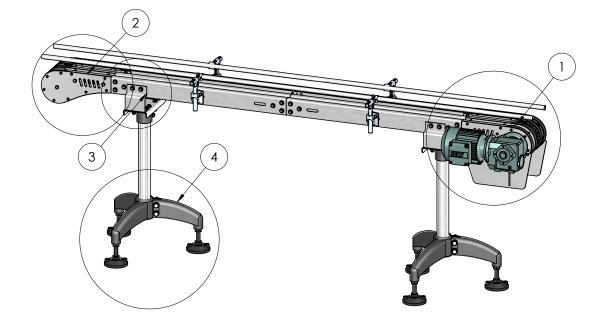


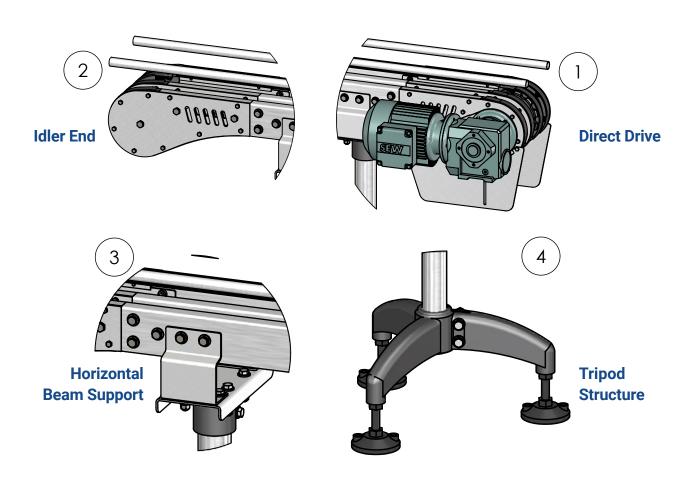
UOM: pc

5.70











SU SERIES: 180 mm

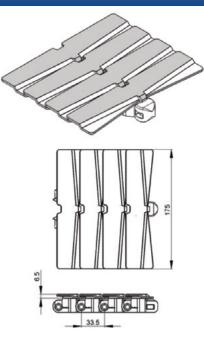
Chain Common Data

Packaging: 5 m per box Pitch: 33.5 mm Width: 175 mm Tensile Strength at 20°C: 6000N Color: White

Material:

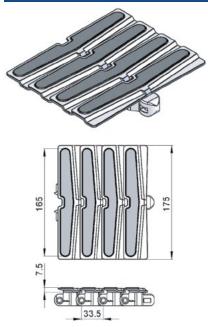
Chain: White Acetal / POM Pivot: Polyamide Pivot Pin: Stainless Steel Insert (Wedge & Friction): TPE Grey

Plain Chain FUPC-5



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

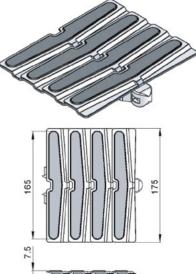
Friction Top Chain FUFT-5



UOM: 5 Meter / box

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

Roller Friction Top Chain FUFT-5R



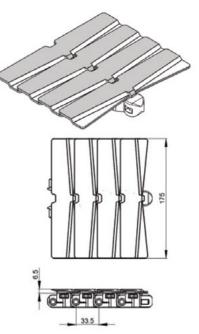


UOM: 5 Meter / box

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

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

Roller Plain Chain FUPC-5R

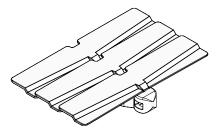


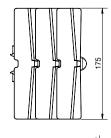
UOM: 5 Meter / box

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

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

Twist Chain FUPC-5M







UOM: 5 Meter / box

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



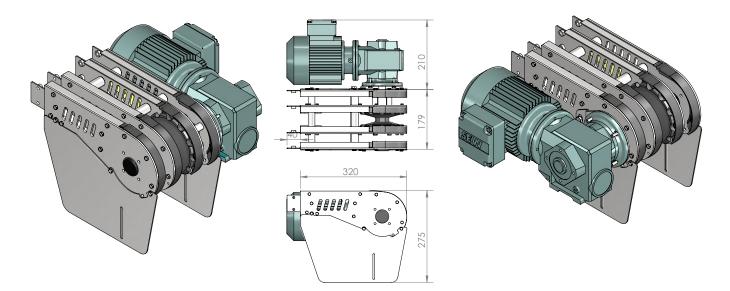
SU SERIES: 180 mm

FlexMcve. Stainless Series

SU Direct End Drive without Motor (LEFT) SUDD-A180-0L

SU Direct End Drive without Motor (RIGHT)

SUDD-A180-0R

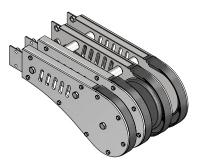


Max Traction Force: 1250N

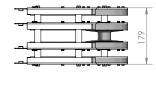
The Direct End Drive Unit is without torque limiter. See page 66-67 for Gearmotor options.

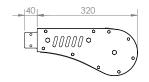
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.9 meter

SU Idler End-A180



SUIE-A180





UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.9 meter



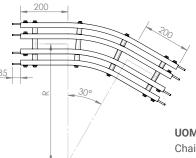
SEW gearmotors are products of SEW Eurodrive



SU SERIES: 180 mm

SU Horizontal Plain Bend 30°





Horizontal plain bend, 30° ± 1°

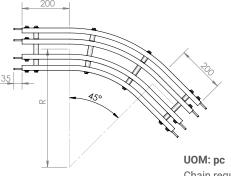
R = 500 ± 10 mm	SUHB-30R500
R = 700 ± 10 mm	SUHB-30R700
R = 1000 ± 10 mm	SUHB-30R1000

UOM: pc

Chain required 2-way (500, 700, 1000): 1.4, 1.6, 1.9 meter Slide rail required 2-way (500, 700, 1000): 4.0, 4.7, 5.6 meter

SU Horizontal Plain Bend 45°



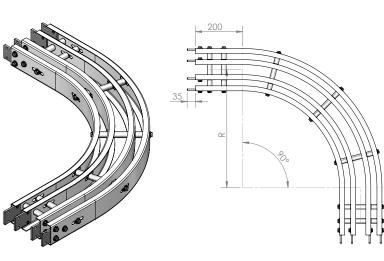


Horizontal plain bend, 45° ± 1°

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

Chain required 2-way (500, 700, 1000): 1.6, 2.0, 2.4 meter Slide rail required 2-way (500, 700, 1000): 4.8, 5.8, 7.2 meter

SU Horizontal Plain Bend 90°



Horizontal plain bend, 90° ± 1°

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

UOM: pc

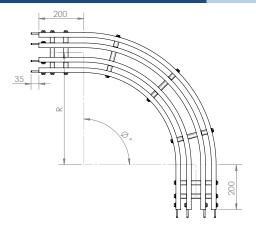
Chain required 2-way (500, 700, 1000): 2.4, 3.1, 4.0 meter Slide rail required 2-way (500, 700, 1000): 7.2, 9.1, 12.0 meter



SU SERIES: 180 mm



SU Horizontal Plain Bend 5-180°



Example for SU Horizontal Plain Bend Ordering

Horizontal plain bend, ذ ± 1°

R = 500 ± 10 mm	SUHB-ØR500
R = 700 ± 10 mm	SUHB-ØR700
R = 1000 ± 10 mm	SUHB-ØR1000

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

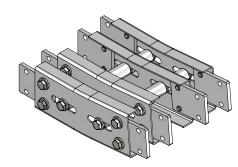
SUHB-70R500

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)

SU Vertical Bend 5°

SUVB-5R400

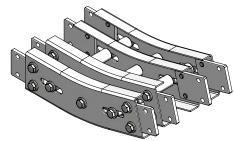


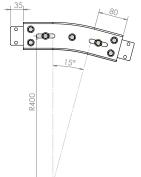
R400

UOM: pc Chain required 2-way: 0.4 meter Slide rail required 2-way: 1.6 meter

SU Vertical Bend 15°

SUVB-15R400

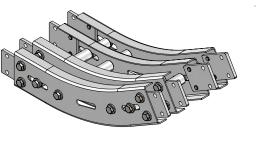


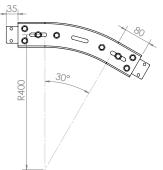


UOM: pc Chain required 2-way: 0.6 meter Slide rail required 2-way: 2.2 meter

SU Vertical Bend 30°

SUVB-30R400

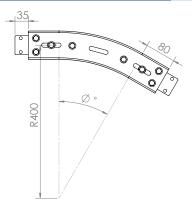




UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 3.0 meter

DORNER

SU Vertical Bend 5° - 90°



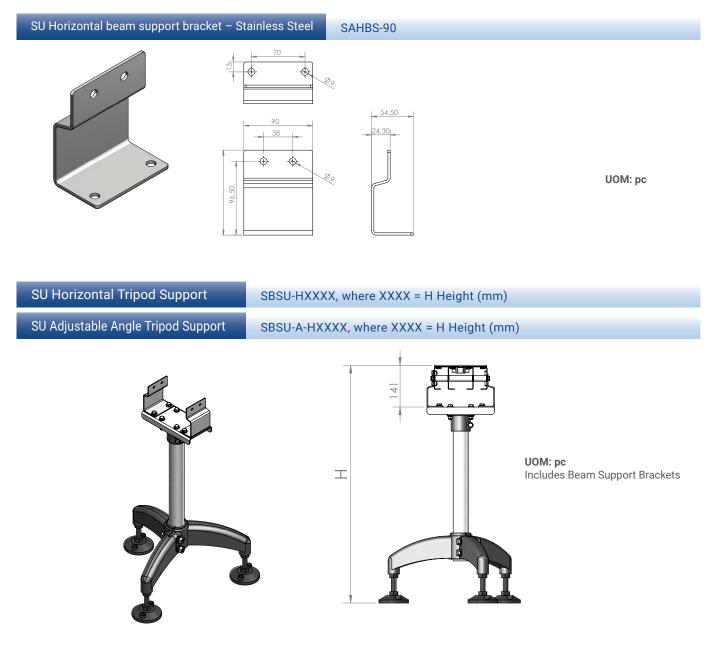
Example for SU Vertical Bend Ordering

- Vertical bend, ذ ± 1°

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

SUVB-25R400

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







SV Series

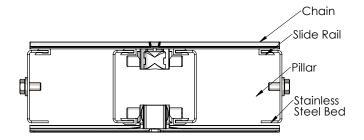
SV Series:

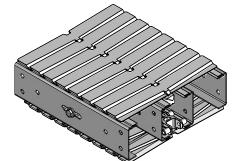
Beam Width: 260 mm

Product Width: Refer to Guide Rail Assembly

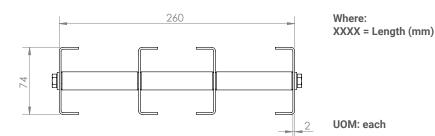
Accessories Needed:

Slide Rail Required: FASR-25, FASR-25U, FASR-25X Slide Rail Color: White or Natural Color Slide Rail Material: HDPE, UHMWPE or Special PE Slide Rail Rivet: FASLS-M5 Connecting strip is used to connect two beams. Connecting Strip: SACS-50x70





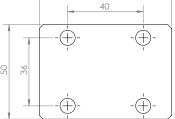
Conveyor Beam SVCB-LXXXX



Chain Connecting Module SVCC-300



Connecting Strip – Stainless Steel



70

SACS-50x70

5.70

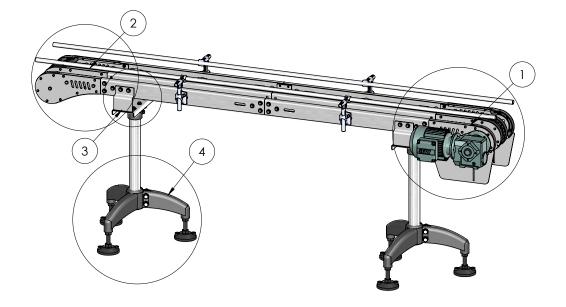
(D)

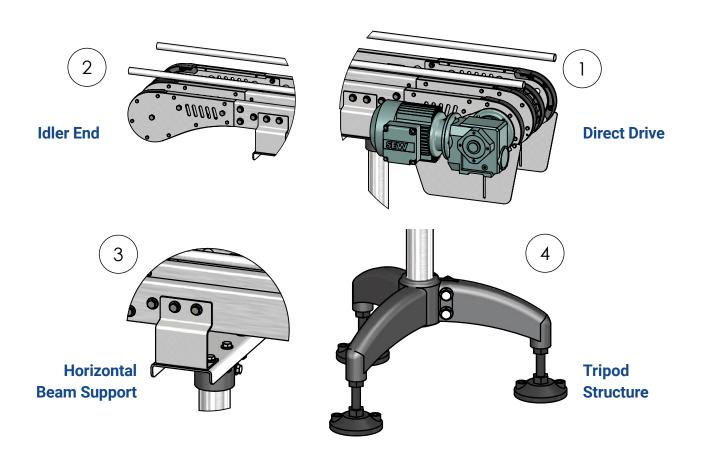


UOM: pc











SV SERIES: 260 mm

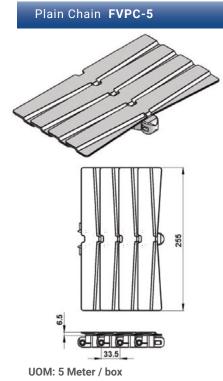
FlexMcve Stainless Series

Chain Common Data

Packaging: 5 m per box Pitch: 33.5 mm Width: 255 mm Tensile Strength at 20°C: 6000N Color: White

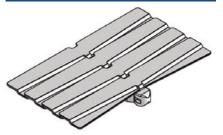
Material:

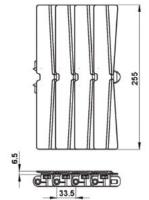
Chain: White Acetal / POM Pivot: Polyamide Pivot Pin: Stainless Steel Insert (Wedge & Friction): TPE Grey



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

Roller Plain Chain FVPC-5R



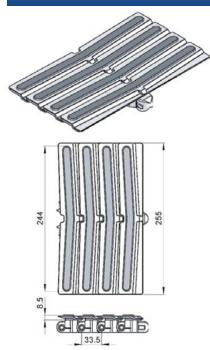


UOM: 5 Meter / box

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

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

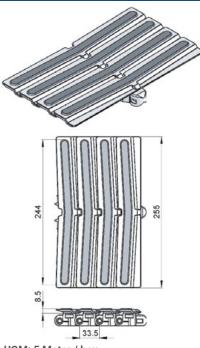
Friction Top Chain FVFT-5



UOM: 5 Meter / box

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

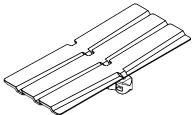
Roller Friction Top Chain FVFT-5R

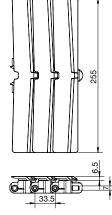


UOM: 5 Meter / box Application: Suitable for horizontal and slope ≤ 30° transport of products without accumulation.

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

Twist Chain FVPC-5M





UOM: 5 Meter / box

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



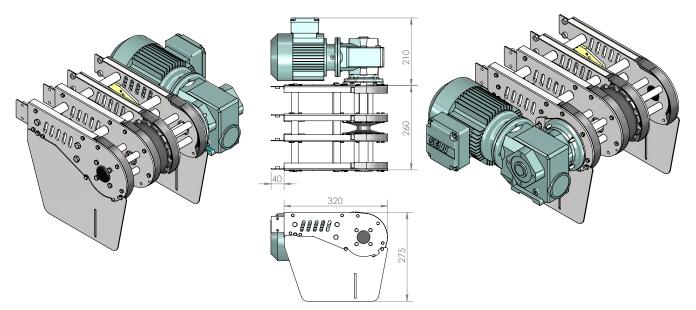
SV SERIES: 260 mm

SV Direct End Drive without Motor (LEFT)

SVDD-A260-0L

SV Direct End Drive without Motor (RIGHT)

SVDD-A260-0R

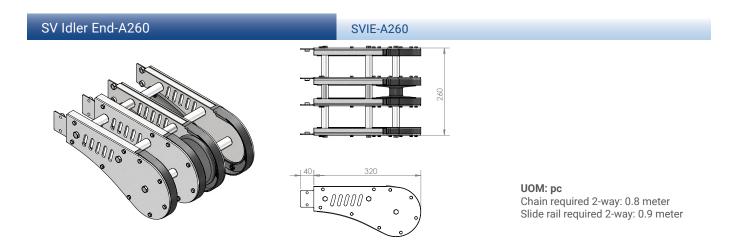


Max Traction Force: 1250N

The Direct End Drive Unit is without torque limiter. See page 66-67 for Gearmotor options.

UOM: pc

Chain required 2-way: 0.8 meter Slide rail required 2-way: 0.9 meter



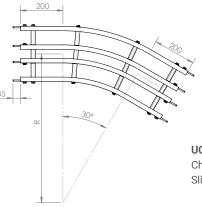


SV SERIES: 260 mm



SV Horizontal Plain Bend 30°





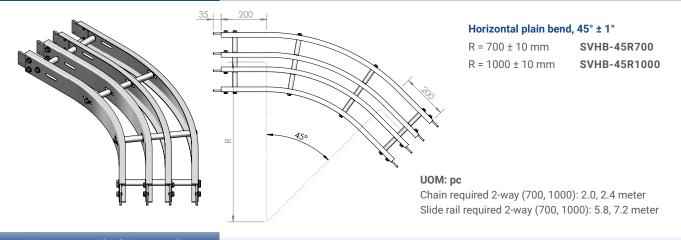
Horizontal plain bend, 30° ± 1°

R = 700 ± 10 mm	SVHB-30R700
R = 1000 ± 10 mm	SVHB-30R1000

UOM: pc

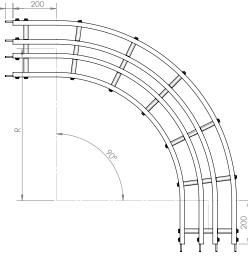
Chain required 2-way (700, 1000): 1.6, 1.9 meter Slide rail required 2-way (500, 700, 1000): 4.7, 5.6 meter

SV Horizontal Plain Bend 45°



SV Horizontal Plain Bend 90°

35



Horizontal plain bend, 90° ± 1°

R = 700 ± 10 mm R = 1000 ± 10 mm SVHB-90R700 SVHB-90R1000

UOM: pc Chain required 2-way (700, 1000): 3.1, 4.0 meter Slide rail required 2-way (700, 1000): 9.1, 12.0 meter



Example for SV Horizontal Plain Bend Ordering

SVHB-ØR700

SVHB-ØR1000

If an angle of 120° is needed for radius R700 horizontal plain

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

Horizontal plain bend, ذ ± 1°

bend, the ordering part number is

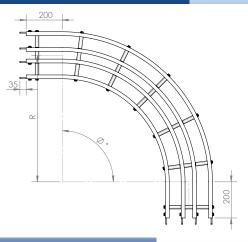
R = 700 ± 10 mm

R = 1000 ± 10 mm

SVHB-120R500

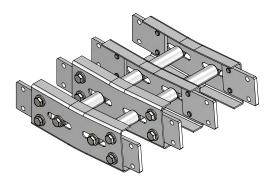
UOM: pc

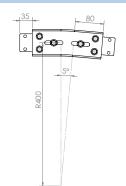
SV Horizontal Plain Bend 5-180°



SV Vertical Bend 5°

SVVB-5R400



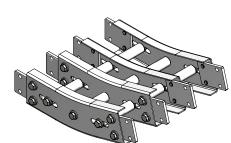


UOM: pc Chain required 2-way: 0.4 meter Slide rail required 2-way: 1.6 meter

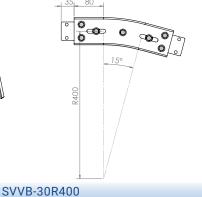
SV Vertical Bend 15°

SVVB-15R400

R400



SV Vertical Bend 30°



 \bigcirc

0 000

UOM: pc Chain required 2-way: 0.6 meter Slide rail required 2-way: 2.2 meter

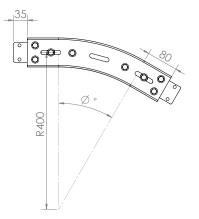
UOM: pc Chain required 2-way: 0.8 meter Slide rail required 2-way: 3.0 meter



SV SERIES: 260 mm



SU Vertical Bend 5° - 90°



Example for SV Vertical Bend Ordering

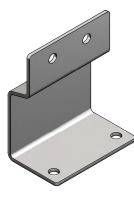
- Vertical bend, ذ ± 1°

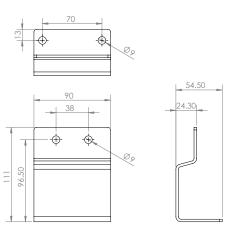
If an angle of 25° is needed for vertical bend, the ordering part number is

SVVB-25R400

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

SV Horizontal beam support bracket – Stainless Steel





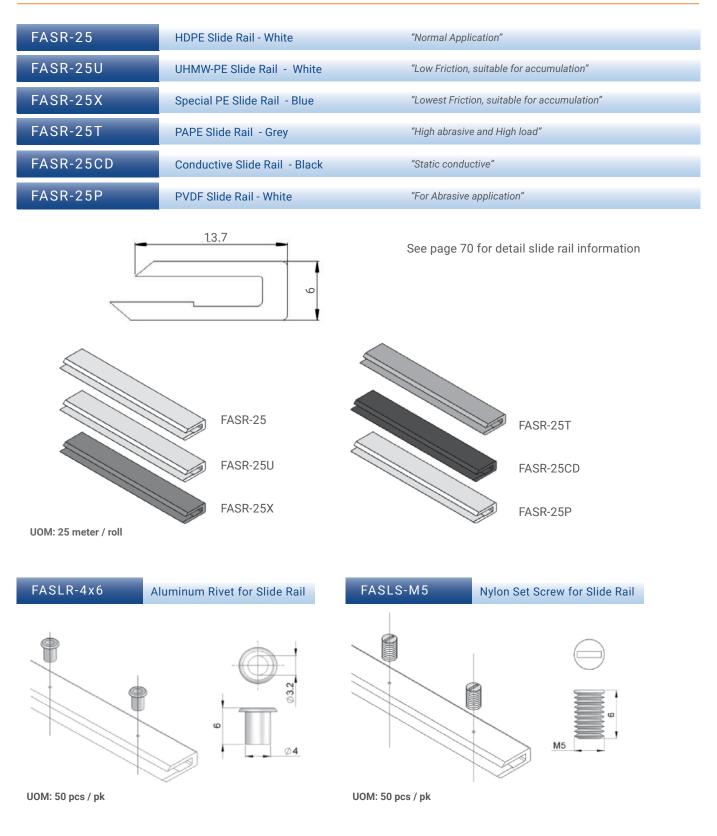
SAHBS-90

UOM: pc

SV Horizontal Tripod Support	SBSV-HXXXX, where XXXX = H Height (mm)
SV Adjustable Angle Tripod Support	SBSV-A-HXXXX, where XXXX = H Height (mm)
	UOM: pc Includes Beam Support Brackets



SA SERIES: CONVEYOR ACCESSORIES





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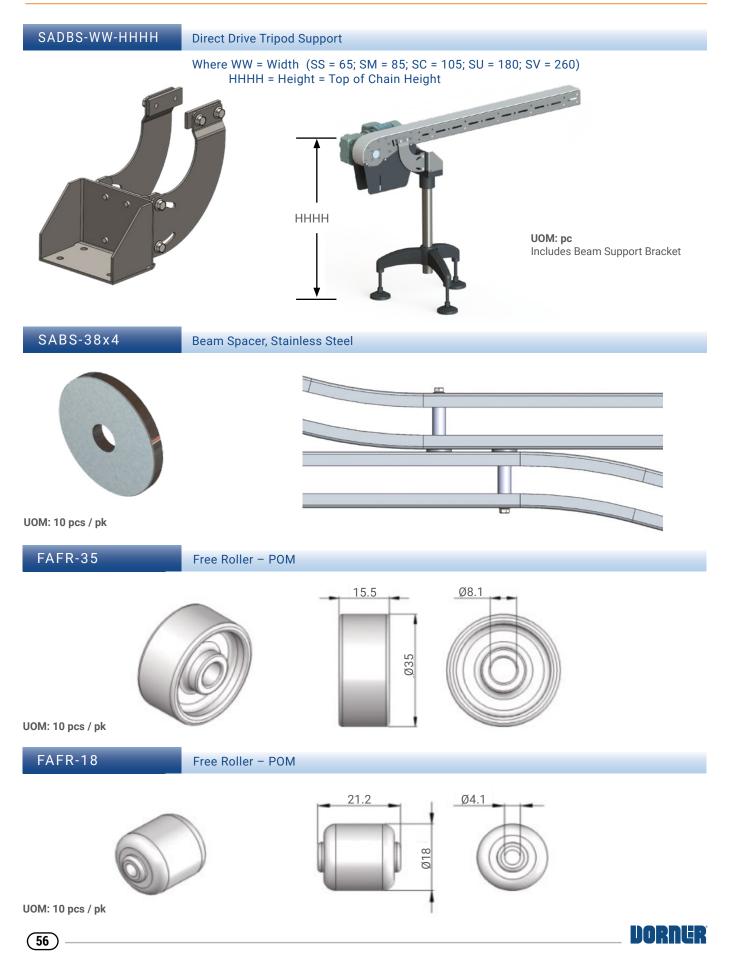
SA SERIES: CONVEYOR ACCESSORIES





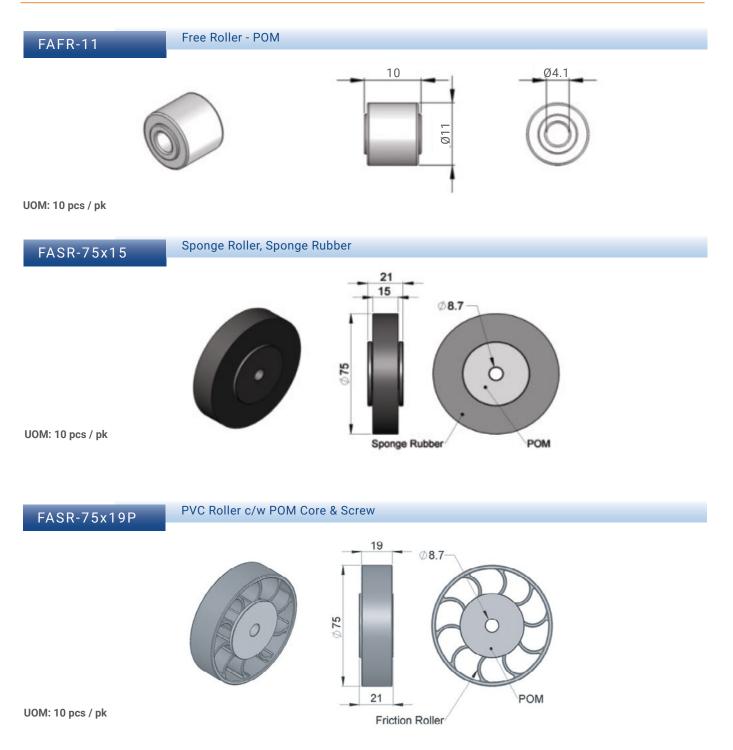
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SA SERIES: CONVEYOR ACCESSORIES



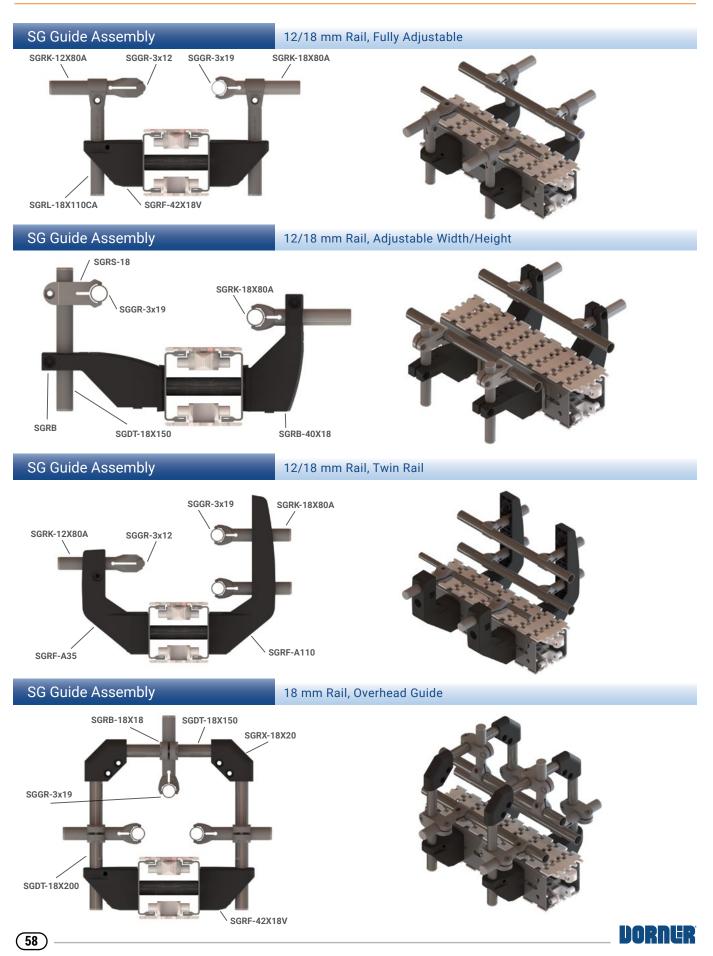
SA SERIES: CONVEYOR ACCESSORIES



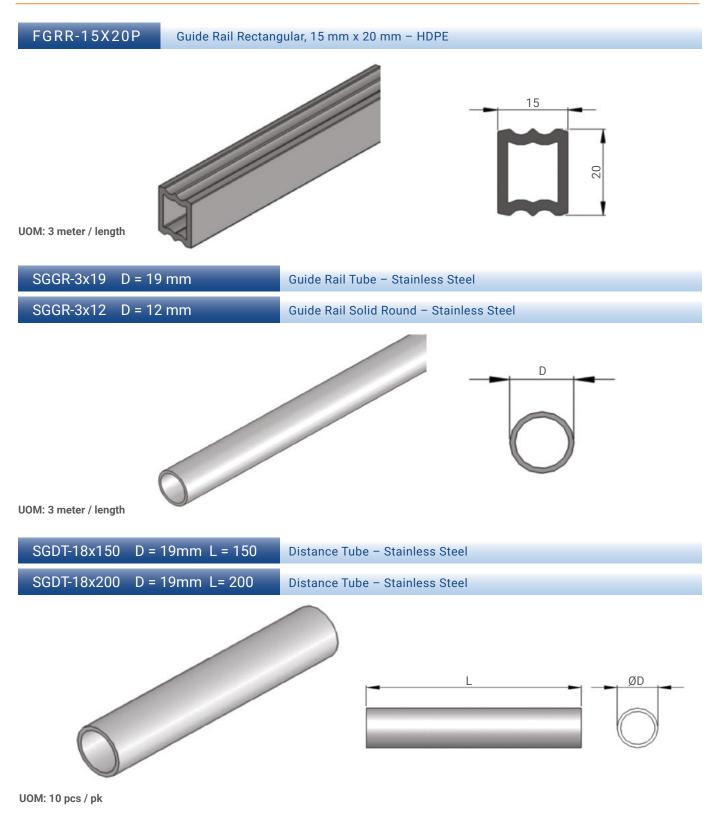




SG SERIES: CONVEYOR GUIDE EXAMPLES

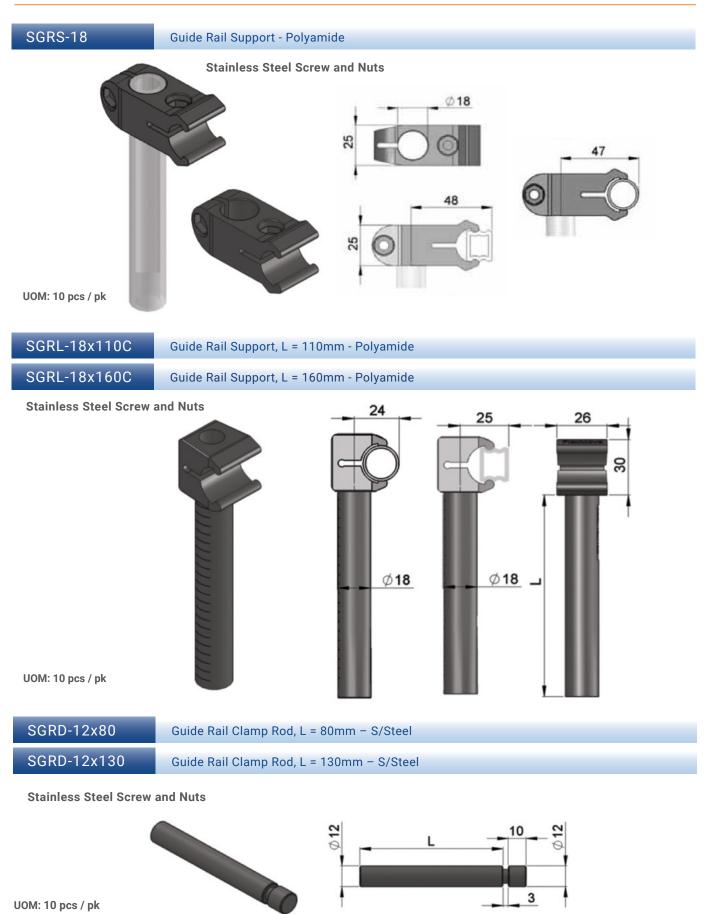


SG SERIES: CONVEYOR GUIDE COMPONENTS FlexMove Stainless Series





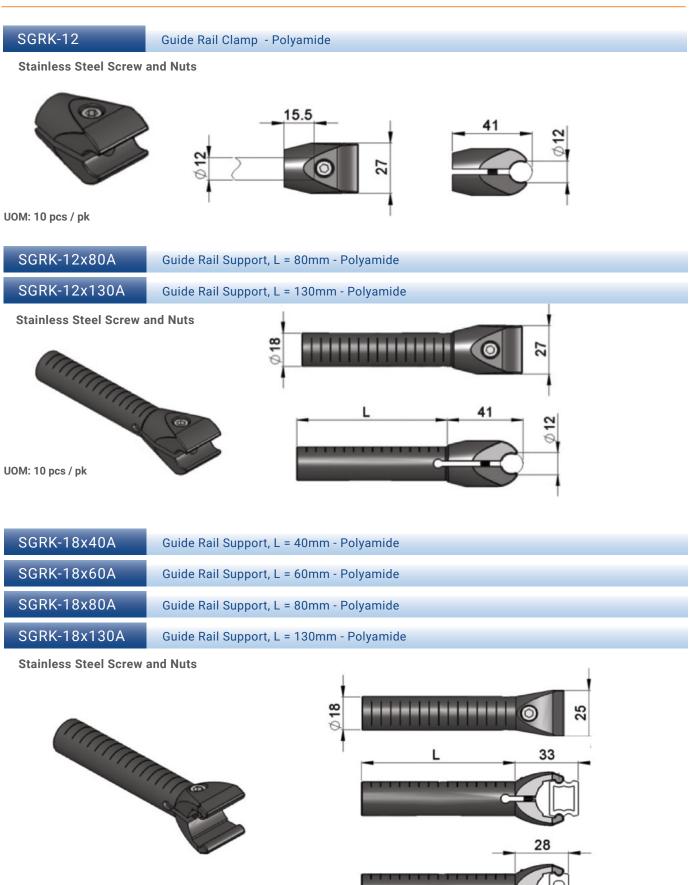
FlexMove Stainless Series Series: CONVEYOR GUIDE COMPONENTS





(60)

SG SERIES: CONVEYOR GUIDE COMPONENTS FlexMove Stainless Series



UOM: 10 pcs / pk

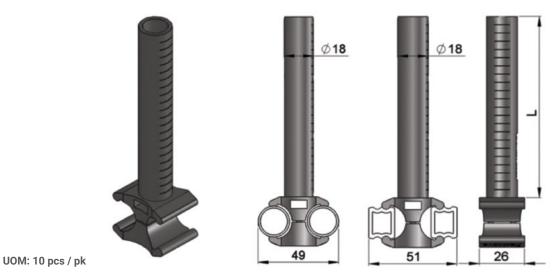


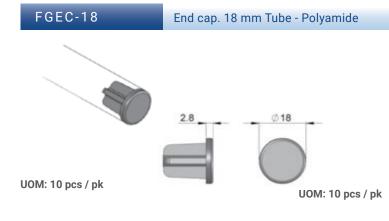
FlexMove Stainless SG SERIES: CONVEYOR GUIDE COMPONENTS

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

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

Stainless Steel Screw and Nuts

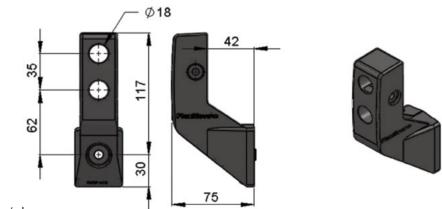




SGRF-A35

Guide Rail Bracket Support A35 - Polyamide

Stainless Steel Screw and Nuts



UOM: 10 pcs / pk

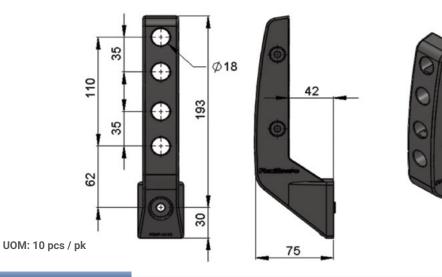


SG SERIES: CONVEYOR GUIDE COMPONENTS FlexMove Stainless Series



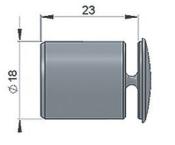
Guide Rail Bracket Support A110 – Polyamide

Stainless Steel Screw and Nuts

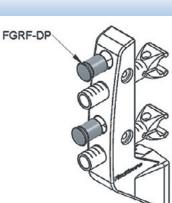




FGRF Dummy Plug







UOM: 10 pcs / pk

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

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

 Stainless Steel Screw and Nuts



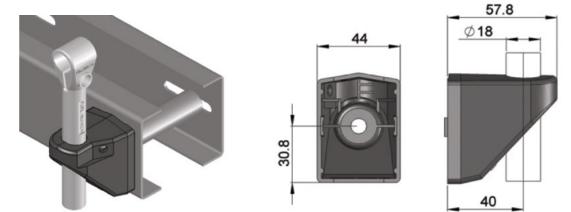
63

SG SERIES: CONVEYOR GUIDE COMPONENTS

SGRF-42x18V

Guide Rail Bracket - Polyamide

Stainless Steel Screw and Nuts

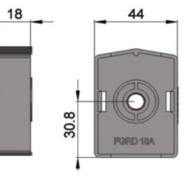


UOM: 10 pcs / pk

FGRD-18A

Spacer for SGRF-42x18V - Polyamide



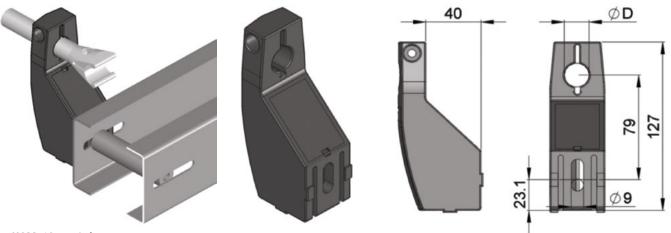


UOM: 10 pcs / pk

SGRB-40x18

Guide Rail Bracket, D = 18mm - Polyamide

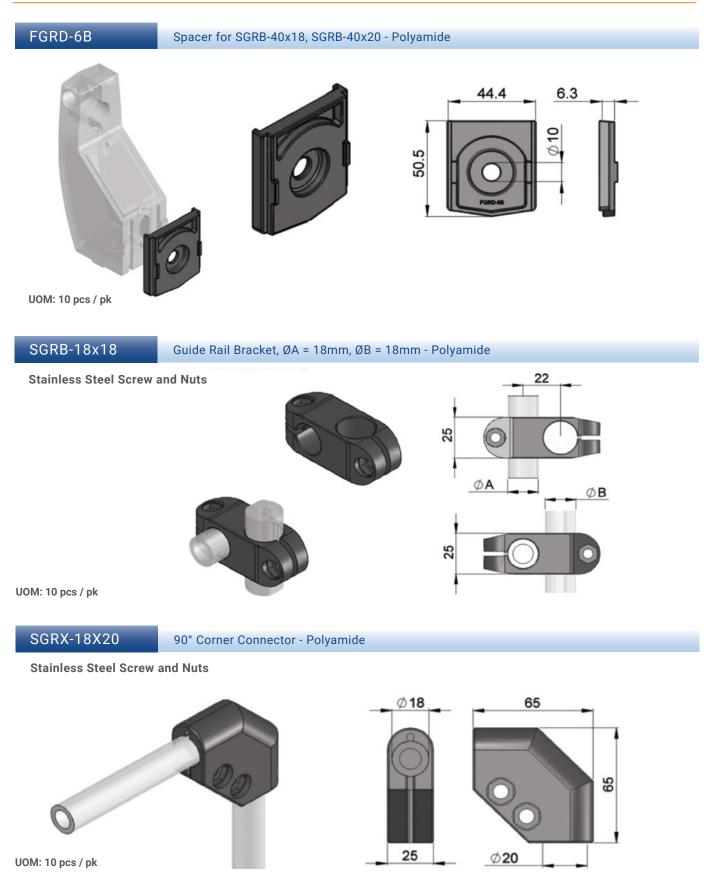
Stainless Steel Screw and Nuts



UOM: 10 pcs / pk

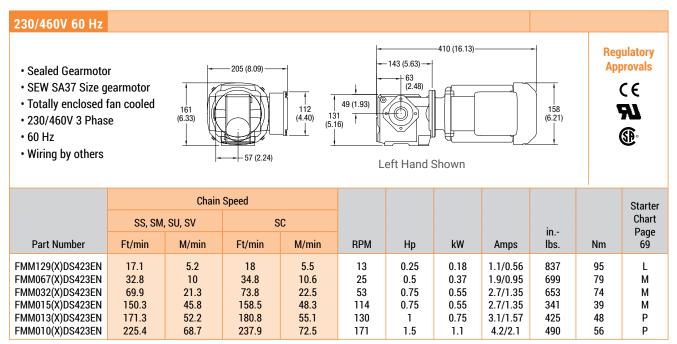


SG SERIES: CONVEYOR GUIDE COMPONENTS FlexMove Stainless Series

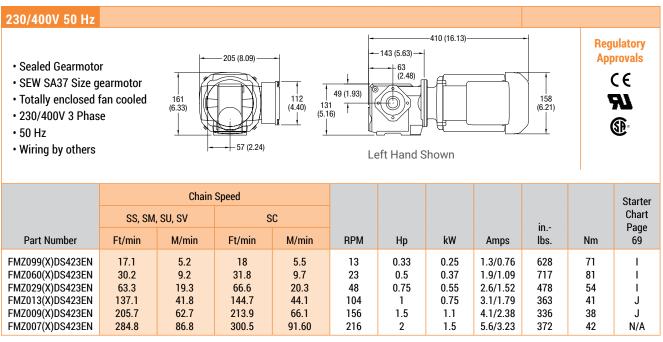




Direct Mount, SEW Equivalent, Fixed Speed - 20 mm Shaft



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



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

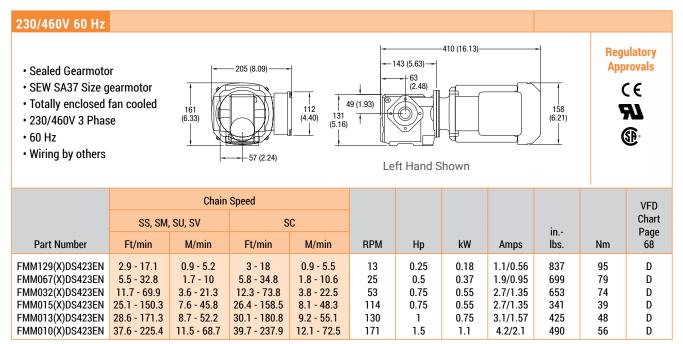
SEW gearmotors are products of SEW Eurodrive

C E Note: When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

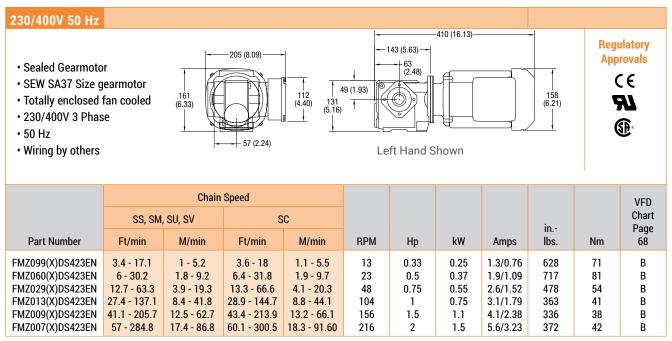
FLA = Full Load Amperes Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = mm (in)



Direct Mount, SEW Equivalent, Variable Speed - 20 mm Shaft



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



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

SEW gearmotors are products of SEW Eurodrive

C € Note: When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.



FLA = Full Load Amperes Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = mm (in)



Variable Speed Controllers

Chart B	Chart B VFD Controller, Full CE Compliance, 50 Hz							
 VFD control IP 65 enclosure EMC filter Variable speed Mounting hardware Line cord and motor co Motor cord only on 460 	or cord		D control 55 enclosure C filter iable speed unting hardware e cord and motor cord				Regulatory Approvals C E c U us	
Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Output Phase	Max Kw*	Max Amps	Reversing
62UV2121 62UV4341 62UV2127 62UV4347	230 400 230 400	1 3 1 3	50 50 50 50	230 400 230 400	3 3 3 3	0.75 0.75 1.50 1.50	4.2 2.1 6.8 3.4	Yes Yes Yes Yes
Chart D VFD Controller, 60 Hz								
 Full feature VFD contro NEMA 4 enclosure Digital display Keypad with Start/Stop Forward/Reverse and s Includes cord to motor Power to controller by c 62MV1122 includes line Mounting hardware 	, peed variations others						- A	egulatory pprovals C E U us
Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Output Phase	Max Hp	Output Amps*	Reversin
32MV1122 32MV1121 32MV1121 32MV2121 32MV2127 32MV2322 32MV2327 32MV4341	115 230 115 230 230 230 230 230 460	1 1 1 1 3 3 3 3	60 60 60 60 60 60 60 60	230 230 230 230 230 230 230 230 230 460	3 3 3 3 3 3 3 3 3 3 3	0.5 0.5 1.0 2.0 0.5 2.0 1.0	2.2 2.2 4.0 6.8 2.2 6.8 2.0	Yes Yes Yes Yes Yes Yes Yes Yes

C C Note: When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with the CE Safety Directive.

SEW gearmotors are products of SEW Eurodrive

FLA = Full Load Amperes Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. **Note**: Dimensions = mm (in)



Manual Motor Starters

Manual motor starts are manual electronic disconnects that provide motor overload protection and are required by the National Electric Code (NEC) for safe motor operation.

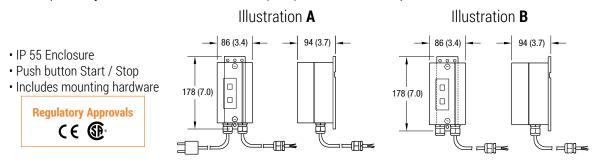


Chart I 230/400V 50Hz to 2.5 amp

• 230 Volts, 1 phase includes cord, plug and starter

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

Part Number	In Volts	In Phase	Amp Range	Illustration
62(c)M21T	230	1	1.6 - 2.5	A
62(c)M23T	230	3	1.0 - 1.6	B
62(c)M43T	400	3	0.63 - 1.0	B

Chart L 230/460V 60 Hz to 1.6 amp

• 230/460 Volts, 3 phase wiring to starter by others

• Wiring between motor and starter provided when ordered together

• 60 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62MM23L	230	3	1.0 - 1.6	B
62MM43L	460	3	0.463	B

Chart P 230/460V 60Hz to 4 amp

230/460 Volts, 3 phase wiring to starter by others

· Wiring between motor and starter provided when ordered together

• 60 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62MM23U	208-230	3	2.5 - 4.0	B
62MM43P	460	3	1.6 - 2.5	B

Chart J 230/400V 50 Hz to 4 amp

• 230 Volts, 1 phase includes cord, plug and starter

• 230/400V, 3 phase wiring to starter by others

• Wiring between motor and starter provided when ordered together • 50 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62(c)M21J	230	1	2.5 - 4.0	A
62(c)M23J	230	3	1.6 - 2.5	B
62(c)M43J	400	3	1.0 - 1.6	B

Chart M 230/460V 60Hz to 2.5 amp

230/460 Volts, 3 phase wiring to starter by others

• Wiring between motor and starter provided when ordered together • 60 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62MM23M 62MM43M	208-230 460	3 3	1.6 - 2.5 1.0 - 1.6	B B

Chart Q 230/460V 60Hz to 6.3 amp

• 230/460 Volts, 3 phase wiring to starter by others

• Wiring between motor and starter provided when ordered together • 60 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62MM23Q	208-230	3	4.0 - 6.3	B
62MM43Q	460	3	2.5 - 4.0	B

C E Note: When buying a gearmotor only without the starter, the customer must supply their own on/off switch and motor overload protection to comply with NEC and CE safety directive.

$\label{eq:G} \begin{array}{ll} \textbf{(c)} = \mbox{Electrical Configuration} & \textbf{G} = \mbox{CE German} \\ \textbf{F} = \mbox{CE French} & \textbf{U} = \mbox{CE Great Britain} & \textbf{Note: Dimensions} = \mbox{mm} (in) \end{array}$

DORNUR

Regulatory Approvals:

Conveyors:

All Dorner FlexMove Series standard conveyors (not including gearmotors and controllers) are CE approved. CE approval follows the provisions of the following directives; Machine Directive 2006/42/EC, EU Low Voltage Directive 2006/95/EC, and EMC Directive 2004/108/EC. All conveyors are marked with the CE symbol on the Dorner serial number tag located on the conveyor frame. Contact the factory for the CE Declaration of Conformity.

All Dorner FlexMove Series standard conveyors (not including gearmotors and controllers) are designed and manufactured in accordance with the restrictions defined in the "Restriction of Hazardous Substances" directive, citation 2011/65/EU, commonly known as RoHS. All conveyors are marked with the RoHS symbols on the Dorner serial number tag located on the conveyor frame.

Gearmotors and Controllers:

All Dorner FlexMove Series gearmotors and controllers carry one or more of the following approvals. Products are not covered by each approval. Please see the appropriate part number on the Gearmotor and controller charts located in this manual. In addition, regulatory symbols are located on the product information tags located on the product.

CE	CE Marking on a product is a manufacturer's declaration that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation, in practice by the Product Directives. CE Marking on a product ensures the free movement of the product within the European Union (EU).
RoHS	This directive restricts (with exceptions) the use of six hazardous materials in the manufacture of various types of electronic and electrical equipment. It is closely linked with the Waste Electrical and Electronic Equipment Directive (WEEE) 2002/96/EC which sets collection, recycling and recovery targets for electrical goods and is part of a legislative initiative to solve the problem of huge amounts of toxic e-waste.
9 1	The UL Recognized Component mark is for products intended to be installed in another device, system or end product. This Recognized Component Mark is for the United States only. When a complete product or system containing UL Recognized Components is evaluated, the end-product evaluation process can be streamlined.
c FN [®] us	The UL Recognized Component mark is for products intended to be installed in another device, system or end product. This Recognized Component Mark is for the United States and Canada. When a complete product or system containing UL Recognized Components is evaluated, the end-product evaluation process can be streamlined.
S ₽®	CSA International (Canadian Standards Association), is a provider of product testing and certification services for electrical, mechanical, plumbing, gas and a variety of other products. Recognized in the U.S., Canada and around the world, CSA certification marks indicate that a product, process or service has been tested to a Canadian or U.S. standard and it meets the requirements of an applicable CSA standard or another recognized document used as a basis for certification.
cUUus	The UL Listing Mark means UL found that representative product samples met UL's safety requirements. These requirements are primarily based on UL's own published standards for safety. The C-UL-US Mark indicates compliance with both Canadian and U.S. requirements. The products with this type of Mark have been evaluated to Canadian safety requirements and U.S. safety requirements.



Clean Room Certifications:

FlexMove Conveyors are often used in clean room applications where the generation of particulates from the conveyor are a concern. In these applications the correct installation and application of the conveyor is critical to the proper running of the conveyor and minimizing the dust generated by the conveyor belt or modular belt. The end user must ensure that the conveyor belts are properly tracked and product accumulation is minimized to providing minimal dust generation.

All of the FlexMove products are designed and constructed to be used in clean room environments. The following FlexMove Series products have gone through third party testing and certification and are certified for use in ISO Standard 14644-1 Class 5 and Federal Standard 209 Class 100 Clean Room applications.

1100 Series Belted Conveyor FlexMove Series Flexible Chain Conveyor FlexMove Stainless Series Conveyor 2200 Series Modular Belted Conveyor 2200 Series Belted Conveyor 2200 Series Precision Move Conveyor 3200 Series Belted Conveyor 3200 Series Modular Belted Conveyor 3200 Series Precision Move Conveyor

Contact the factory for copy of the certification.



FlexMcve Stainless



TECHNICAL DATA AND CALCULATIONS

Slide Rail Specifications / Application Data

		· · · · · · · ·				
Part No.	FASR-25 FASR-25K	FASR-25U	FASR-25CD	FASR-25T	FASR-25P	FASR-25X
Material	HDPE	UHMW	Antistatic HDPE	PAPE	PVDF	Impregnated UHMW
Color	white	white	black	Grey	White	Blue
FDA approved	Yes	Yes	No	No	No	Yes
Coefficient of Friction	0.25	0.25	0.25	0.3	0.35	0.25
Temp Range	-20 to 60 C	-20 to 60 C	-20 to 60 C	-20 to 80 C	-20 to 100 C	-20 to 60 C
Maximum Speed	50 M/min	60 M/min	50 M/min	60 M/min	60 M/min	60 M/min
Heavy Loads	poor	good	poor	excellent	excellent	good
Elongation / wear resistance	poor	good	poor	excellent	excellent	good
Chemical Resistance	Good, poor to petroleum based solvents	Good	Good, poor to petroleum based solvents	Good, not used with wet solvents	Excellent	Good
Application	General conveyance, lowest cost	High speed, moderate loads, low dust generation	Environments sensitive to static electricity	High speed, high load, dry applications only, abrasive particles	High speed, high Ioad, abrasive particles	High speed, moderate loads, low dust generation



TECHNICAL DATA AND CALCULATIONS

FlexMeve Stainless Series

Chains

Series	SS	SM	SC	SU	sv
Chain width (mm)	63 mm	83 mm	103 mm	175 mm	255 mm
Chain width (inch)	2.48"	3.27"	4.06"	6.890"	10.039"
Tensile strength at 20°C (N)	3400 N	4800 N	4800 N	4800 N	4800 N
Tensile strength at 68°F (lbf)	764 lbf	1079 lbf	1079 lbf	1079 lbf	1079 lbf
Max. working tensile at 20°C (N)	500 N	1250 N	1250 N	1250 N	1250 N
Max. working tensile at 68°F (lbf)	112 lbf	281 lbf	281 lbf	281 lbf	281 lbf
Working temperature (°C)	-20 - 60°C	-20 - 60°C	-20 - 60°C	-20 - 60°C	-20 - 60°C
Working temperature (°F)	-4 – 140°F	-4 – 140°F	-4 - 140°F	-4 - 140°F	-4 - 140°F
Maximum conveyor speed (m/min)	58 m/min	58 m/min	58 m/min	58 m/min	58 m/min
Maximum conveyor speed (ft/min)	190 ft/min	190 ft/min	190 ft/min	190 ft/min	190 ft/min
Max. conveyor length (m)	30 m	30 m	30 m	30 m	30 m
Max. conveyor length (ft)	100 ft	100 ft	100 ft	100 ft	100 ft
Min. turning radius (mm)	150 mm	160 mm	170 mm	500 mm	700 mm
Min. turning radius (inch)	5.91"	6.30"	6.70"	19.7"	27.6"
Link spacing (mm)	25.4 mm	33.5 mm	35.5 mm	33.5 mm	33.5 mm
Link spacing (inch)	1.0"	1.32"	1.40"	1.32"	1.32"
Chain weight (plain) (kg/m)	0.75 kg/m	1.20 kg/m	1.67 kg/m	2.0 kg/m	2.43 kg/m
Chain weight (plain) (lb/ft)	0.50 lb/ft	0.81 lb/ft	1.12 lb/ft	1.344 lb/ft	1.633 lb/ft
Max. weight on conveyor (kg/m)	30 kg/m	60 kg/m	60 kg/m	65 kg/m	65 kg/m
Max. weight on conveyor (lb/ft)	20 lb/ft	40 lb/ft	40 lb/ft	44 lb/ft	44 lb/ft
Item width (mm)	15-140 mm	20-200 mm	25-300 mm	50-400 mm	80 – 500 mm
Item width (inch)	0.6 - 5.5"	0.8-7.9"	1.0-11.8"	2.0 - 15.4"	3.2 - 19.7"

Drive Unit Specifications

Direct Drive unit

	SS	SM	SC	SU	sv
Number of Teeth on sprocket	16	12	12	12	12
Chain Pitch (mm)	25.4	33.5	35.5	33.5	33.5
Max. Traction force (N)	500	1250	1250	1250	1250
Sprocket Diameter (mm)	128	128	135	128	128





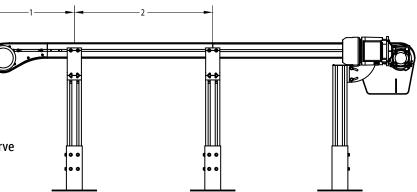
Stand Location

Maximum Distances:

- 1 = 914 mm (36 in)
- 2 = Should be between 1800-2400 mm (6-7.8 ft)*

* For conveyors longer than 3000 mm (10 ft), install support at joint.

Note: Additional support required on 180° curve modules.

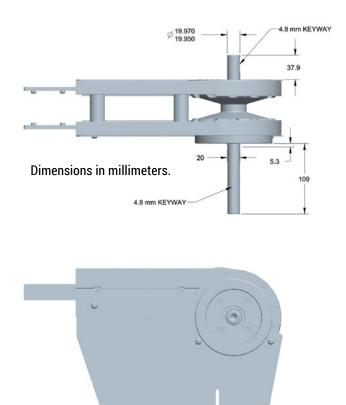


Support must be provided directly at drive end. See accessories for Direct Mount and Suspended Mount support options.

Conveyor Drive Shaft Tolerances:

Optional Auxiliary Shaft

20 mm Shaft





Conveyor Load Capacity

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

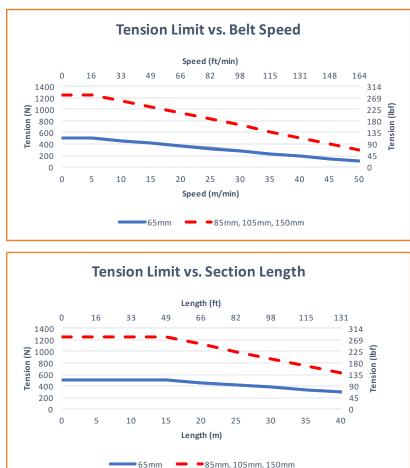
- Conveyor size and configuration
- · Conveyor speed
- Application temperature
- Product accumulation
 Number of starts and stops per hour
- Maximum Drive Unit Output

Located online at <u>www.dornerconveyors.com</u> is the Dorner conveyor configuration tool, DTools. This tool allows you to configure your conveyor layout and determine the maximum load capacity for the conveyor. It is suggested that this program be used to calculate the conveyor load as the calculation is quite complicated. This configuration program however does not take into account temperature, dirty conditions, and conveyor starts and stops. If these conditions are part of your application, please use the load reducing factors as shown below.

Maximum Load = (Load from DTools) (Temperature Factor) (Start/Stop Factor) See following pages for factors.

Nominal Maximum Load

A Nominal Maximum Load may be calculated without the use of DTools to determine if the conveyor can generally carry the application load. The following process can be used to calculate Nominal Maximum Load. It <u>does not</u> take into account the conveyor configuration. Please confirm your maximum load per application with the Dorner DTools program at <u>www.dornerconveyors.com</u>.



To calculate the Nominal Maximum Load:

FlexMove Stainless

Note: This does not include conveyor configuration. Please confirm load with Dorner online DTools configurator.

- 1. Determine your Basic Tension Limit from the above two graphs. The Basic Tension Limit is the lesser number of the two. Compare your tension limit to drive unit output. Your tension limit is the smaller.
- 2. Tension Limit = (Basic Tension Limit) (Temperature Factor) (Start/ Stop Factor) (Accumulation Factor) (0.7)
 - See following pages for factors.
- 3. Nominal Maximum Load (kg) = (Tension Limit / Chain Coefficient of Friction) - (Conveyor length) (2) (Chain weight)

Nominal Maximum Load (lbs) = (Nominal Maximum Load (kg)) (2.2)

See following pages for Chain Coefficient of Friction. Nominal Maximum load may also be limited by available gearmotors. Conformation of gearmotor torque is required. See pages 66-67 for gearmotors available. Nominal Maximum load cannot exceed overall conveyor load limit of 300 lbs (136kg) for 65 mm wide and 600 lbs (273kg) for 105 mm and 150 mm wide.



Nominal Maximum Load (continued)

Example:

105 mm FlexMove by 20 meters total length running at 15 Meters/min. Accumulated load with dry metal parts running in a 40°C environment. Continuous running.

- Basic Tension Limit Tension vs. Speed = 1050N
- Basic Tension Limit Tension vs. Length = 1100N
- Therefore Basic Tension Limit = 1050N
- Tension Limit = (Basic Tension Limit) (Temperature Factor) (Start/Stop Factor) (Accumulation Factor) (0.7)
- Tension Limit = (1050) (0.9) (1.0) (0.5) (0.7) = 330N
- Nominal Maximum Load (kg) = (Tension Limit / Chain Coefficient of Friction) (Conveyor length) (2) (Chain weight)
- Nominal Maximum Load (kg) = (330 / 0.3) (20) (2) (16.4) = 1100 984 = 116 kg
- Nominal Maximum Load (lbs) = 116*2.2 = 256 lbs

Temperature Factor

Ambient temperature can negatively affect the tension capacity of the conveyor chain.					
Temperature (°C)	Temperature Factor				
-20	1.0				
0	1.0				
20	1.0				
40	0.9				
60	0.8				
	acity of the conveyor ch Temperature (°C) -20 0 20 40				

Start / Stop Factor

Frequent Start / Stops of the conveyor can negatively affect the tension capacity of the conveyor chain. All start / stop applications must use a soft start mechanism such as a Frequency Inverter with a 1 second acceleration cycle.

Application Condition	Start / Stop Factor
Continuous Run or 1 start/stop per hour	1.00
Maximum 10 starts/stop per hour	0.83
Maximum 30 starts/stop per hour	0.70
Greater than 30 starts/stop per hour	0.62

Accumulation Factor

Product accumulation greatly reduces the conveyor load capacity. Product accumulation may only be done with the plain chain. Based on the product being accumulated apply the below Accumulation Factor in determining your Nominal Maximum Load. All factors below are assuming dry conditions.

Product Being Accumulated	Typical Coefficient of Friction	Accumulation Factor
Steel	0.25	0.50
Glass	0.20	0.60
Aluminum	0.25	0.50
Plastic	0.25	0.50
Wood	0.30	0.40
Paper and Cardboard	0.30	0.40

Chain Coefficient of Friction

The following table provides the coefficient of friction between the standard UHMW wearstrips and the Acetal chain. Coefficient of friction as shown may be reduced by addition of a lubricant.

Application Condition	Coefficient of Friction
Dry	0.30
Water Lubrication	0.27
Coolant Lubrication	0.20
Oil Lubrication	0.20

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

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

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

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

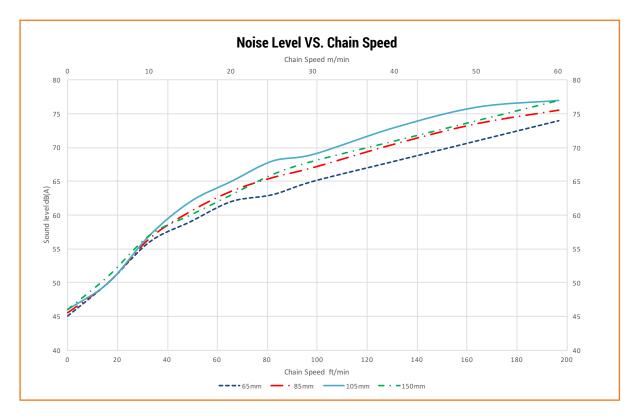
		Newton (N)			
Drive unit type	SS	SM	SC	SU	SV
End	500	1250	1250	1250	1250



Conveyor Noise Level

The actual noise level generated by the conveyor depends on several factors; the installation configuration, the product running on the conveyor, the surrounding equipment, the conveyor options and chain speed. The noise level generated by the conveyor is typically less than the general noise level of factory equipment.

Generally, a higher speed chain will result in a higher noise level. In addition, 65 mm conveyors will run slightly quieter, and power transfer tails will add a few decibel points as well. The following charts provide basic decibel ratings for typical conveyor arrangements, such as wheeled and plain bend corners, and power transfers.



Decibel ratings are taken approximately 3 feet away from the conveyor modules.



Bend Factors

Bend factors must be considered and calculated at every plain chain. It depends on the angle of the bend α in radians and friction coefficient μ between chain and slide rails. In application when conveyor is dry and clean, the friction coefficient μ 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 α
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°

Material

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



Resistance to Chemical

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

FlexMcve Stainless Series

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

3 = Moderate resistance

Legend

- 1 = Very good 2 = Good
- 4 = Not recommended 5 = No data available

Material	Acetal POM	Polyamide PA	High-density Polyethylene HDPE	Thermoplastic Elastomer TPE	Aluminum 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
	2	4	2		1
Potassium permanganate 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		_
incutial Salt		<u>~</u>			

TECHNICAL DATA AND CALCULATIONS

Chains

Material	Acetal POM	Polyamide PA	High-density Polyethylene HDPE	Thermoplastic Elastomer TPE	Aluminum 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.

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.



PRODUCT SUMMARY

FlexMcve Stainless Series

FlexMove® Stainless Steel Conveyors are best for:

- Part Handling
- Tight Spaces
- Buffering

Widths: 65 mm, 85 mm, 105 mm, 180 mm and 260 mm

- Elevation Changes
- Accumulation
- Long Lengths
- Complex Configurations Caustic & Corrosive Environments
- Curves, Jogs, Inclines, Declines
- Loads & Speeds
 - Loads up to 65 kg/m (44 lbs/ft)
 - Speeds: up to 58 mpm (190 fpm)

Plastic Chain Types Standard: Low Friction &

Sizes & Measurements

Lengths: up to 30 m (98 ft)

- **Friction Top Inserts**
- Specialty
 - Conductive
 - Cleated
 - Hardened Steel Top
 - Roller Top
 - Magnet Top
 - And Many More



Flat





Modules





Drive Tail



Curves from 15° to 180°



Inclines/Declines from 5° to 90°

Guiding

- Fully Adjustable
- Adjustable Width/Height
- Twin Rail
- Overhead Guide







Cleated

- **Friction Top**

- **Roller Top**





Pallet Systems



Flexible Chain



Sanitary Stainless Steel



Engineered Solutions Group

Custom engineered solutions for almost any application.



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TRANSFORMING CONVEYOR AUTOMATION

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CONVEYANCE SOLUTIONS

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