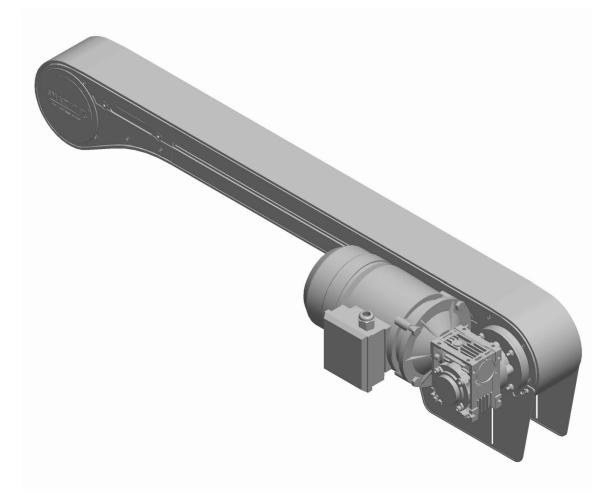




FlexMove FC (105 mm)

Installation, Maintenance & Parts Manual



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A WARNING

The safety alert symbol, black triangle with white exclamation, is used to alert you to potential personal injury hazards.



Climbing, sitting, walking or riding on conveyor will cause severe injury. KEEP OFF CONVEYORS.



DO NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT.

A WARNING



Exposed moving parts can cause severe injury. LOCK OUT POWER before removing guards or performing maintenance.

A WARNING



Gearmotors may be HOT. DO NOT TOUCH Gearmotors.

A WARNING



Dorner cannot control the physical installation and application of conveyors. Taking protective measures is the responsibility of the user.

When conveyors are used in conjunction with other equipment or as part of a multiple conveyor system, CHECK FOR POTENTIAL PINCH POINTS and other mechanical hazards before system start-up.

A WARNING



Loosening stand height or angle adjustment screws may cause conveyor sections to drop down, causing severe injury.

SUPPORT CONVEYOR SECTIONS PRIOR TO LOOSENING STAND HEIGHT OR ANGLE ADJUSTMENT SCREWS.



Introduction

The main purpose of this manual is to help self-building end users, with little or no prior experience, to assemble a FlexMove conveyor system. Each chapter includes detailed instructions and pictures showing how to assemble the different parts. Most pictures in the manual include parts from the FS conveyor system, but all instructions are applicable to the FH, FK, FS, FM, FC and FL.

Document Disposition

The document is divided into the following five main parts:

- Installation site preparations
- Tools and fasteners
- Assembly
- Start-up and testing

Initial Assembly Planning

Systematically working planning is required:

- · Fully understand and studying the assembly drawing.
- · Ensure the necessary tools are required.
- Ensure all the parts and materials well prepared through parts list.
- Enough space for conveyor installation is important.
- · Ensure the floor is even and so the foot can be properly attached on the floor.

Safeguarding

All pinch and shear points as well as other exposed moving parts that present a hazard to users is recommended to safe guarded. Cleat conveyor chain is more susceptible of creating pinch and shear points that plain chain.

When two or more pieces of equipment are interfaced, special attention must be given to the interfaced area to ensure proper safeguarding. For overhead conveyor, guards must be provided if products fall off the conveyor for some reason. The same applies to all incline, decline and vertical conveyors.

Considerations

When correctly applied, the conveyor components are safe to use or maintain. It is however necessary for those responsible to design, installation, operation and maintenance to be aware of certain areas when special caution is required:

End Drive Unit

The chain slack of normal direct drive must be maintained during the system lifetime.

Idler Unit

The opening between links when they turn around idler could be risk. The idler end should not be accessible during conveyor operation.

Catenary Drive Unit

The bridge area where the chain goes down should not be accessible during conveyor operation.



Assembly Order

During the conveyor assembly works the following items can be used as a checklist.

- Cut all beams into desired length.
- Connect all foots and structural beams.
- Mount conveyor beam support brackets.
- Assembly conveyor beams and mounts them onto the support structure.
- Mount drive and idler unit at the end of the conveyor.
- Mount slide rail onto the conveyor beam. .
- Loosen the slip clutch at the drive unit.
- Check any obstruction of the conveyor with short piece chain.
- Assembly and mount necessary chain into the conveyor.
- Mount guide rail and other accessories required onto the conveyor. .
- Tighten the slip clutch with suitable friction. .
- Read the final preparations at the end of this manual.

Tools General

<u>Tools</u>

To assemble a FlexMove Conveyor, you may need most of the tools listed at the following page. Not all are essential but they will make your work easier and efficient.

Hand Tools

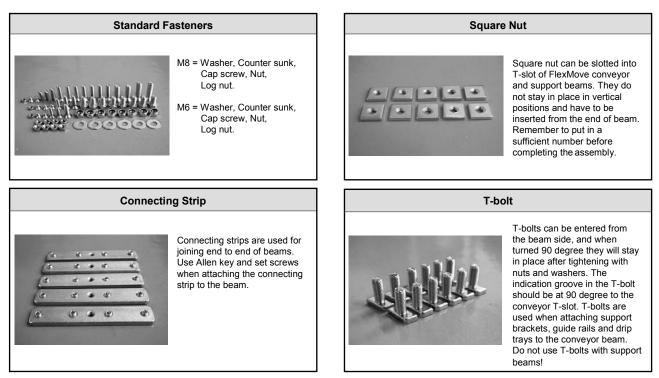
- Wrench
- Slide rail cutter
- Set of metric Allen key
- Counter sunk bit
- Tap measurement
- Roller thread flute less tap and tap wrench.
- Drill fixtures for slide rail **Riveting Tool**
- In addition, the tools listed below can be useful:
- Files
- Socket wrench
- Screw driver
- Pliers
- Knife (cutting off plastic screw head or burr of slide rail)
- Soft head hammer
- Claim tools (for chain installation and dismantle)
- Level

Power Tools

- Hand drill Drill bit (of fixing slide rail)



Fastener



Cutting FlexMove Beam

If you have ordered 3m beams, they will need to be cut into suitable lengths before assembly. Study your drawing to determine the beam lengths required before cutting.

Saw Requirements

The circular cross-cut saw used for aluminum profile cutting must be equipped with carbide tip head saw circulating at high speed for nice and clean cut. The saw should have the ability of cutting the largest profile in one single cutting action.

Working Site

You should use a special area for cutting beams in order to keep the assembly area clean.

Quality of Cut

If burrs are evident, they must be removed prior to assembly. Make sure the cut is straight for proper assembly. All safety precautions issued by the cutting saw manufacturer should be followed at all times.



All safety precautions issued by the cutting saw manufacturer should be follow at all the times.



The basic FlexMove conveyor structure consists of five component groups:

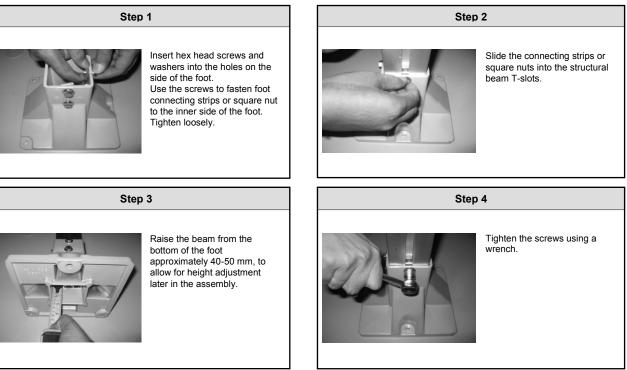
- Support structure
- Conveyor beams, straight sections, and bends
- Drive and idler units
- Chains
- · Guide rail assembly components
- Other accessories

The first step in the assembly process is to assemble the support structure, which consists of feet, support beams and beam support brackets. Most conveyor support designs are based on vertical support beams, combined, if necessary, with horizontal support beams. There are also a number of different feet and beam support brackets, so check which ones are suitable to use in your application.



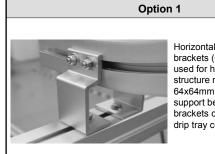


Foot Installation



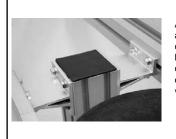
Conveyor Installation

Conveyor beams are mounted on to the support structure by means of support brackets. There are three different types of conveyor beam support brackets. They all serve the same purpose but are connected to the structural beams in different ways.

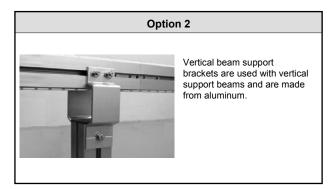


Horizontal beam support brackets (60mm or 80mm) are used for horizontal support structure mounted to 64x64mm or 80x80mm support beams. These brackets can also be used as drip tray connectors.

Option 3



Alpine beam support brackets are used in multi-level alpine conveyor system. This type brackets are used for connecting two parallel conveyor beams to an 80 mm vertical support beam.





Mounting Conveyor Beam Support Bracket



Attach screws, nuts and washers to the support bracket before mounting. (Screws and square nuts are support beam fasteners, T-bolts and nuts are conveyor beam fasteners.) Slide the square nuts of one support bracket into the support beam T-slots. Tighten the screws. Make sure that the support bracket is aligned with the beam cross-section as shown in the drawing.





Use a soft hammer or mallet to mount an end cap on to the support beam.





Insert the square nuts of the second support bracket into the support beam T-slots. Slide the bracket down so that it does not protrude above the cross-section of the beam.

Step 4



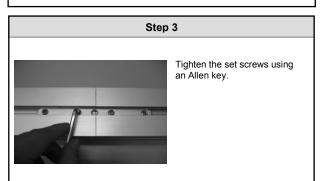
Mount the first support bracket to the conveyor beam. Pull the second bracket up and insert the T-bolts into the conveyor beam T-slot. Tighten the nuts.

Conveyor Beam Installation

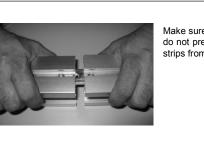
The next step is to connect conveyor beams - straight sections and bends - to each other. Connect all conveyor beams according to the instructions below.



Connect two conveyor beam ends by inserting connecting strips into the beam T-slots. Use two connecting strips per beam joint.



Step 2



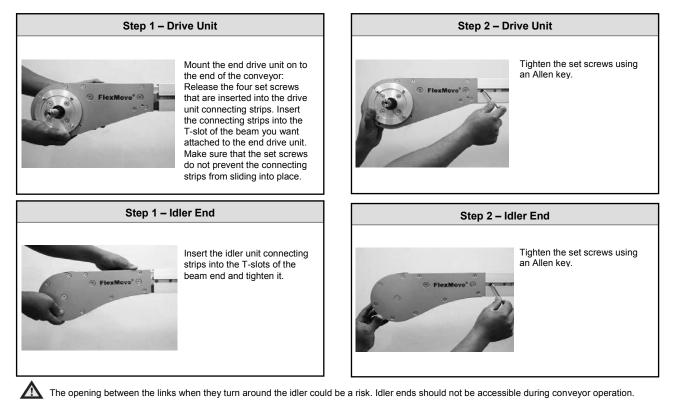
Make sure that the set screws do not prevent the connection strips from sliding into place.

NOTE:

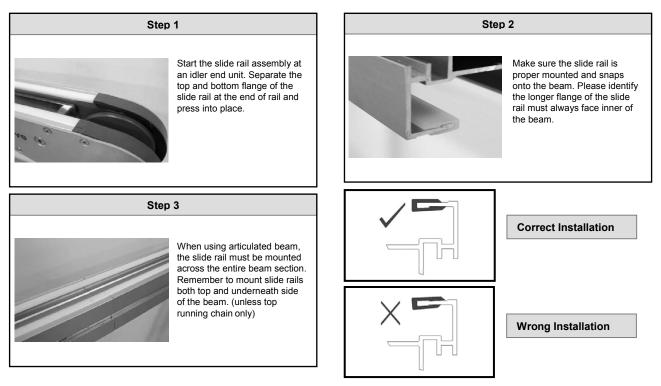
Assemble the entire conveyor beam structure in the same way. If the conveyor beam is too long to mount onto the support structure in one continuous length, assemble shorter lengths and connect them to each other once fastened to the support beams.



Drive Unit and Idler End Unit Installation

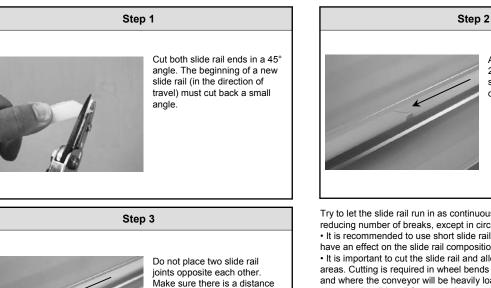


Attaching Slide Rail in Straight Beam



Slide Rail End Installation at Conveyor Beam





Allow a space of approximately 2mm to 5mm between two slide rail ends. The travel direction is indicated by arrow.

Try to let the slide rail run in as continuous lengths as possible by reducing number of breaks, except in circumstances stated below: • It is recommended to use short slide rails (2-3m) where chemicals may have an effect on the slide rail composition.

• It is important to cut the slide rail and allow for elongation in high load areas. Cutting is required in wheel bends (see following page), at idler units and where the conveyor will be heavily loaded, especially at drive unit. This prevents the slide rail from stretching out and entering into the drive unit, which may block the chain movement.

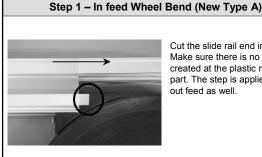
· Never join slide rail in horizontal or vertical bends, since forces are higher on the slide rail in these sections. Instead, place the joint before the bend. · Avoid joining slide rails on top of conveyor beam joints.



of at least 100 mm between them to make the chain run smoother. This does not apply to slide rail

that begins by an idler unit or after a drive unit, where joints are always parallel.

Slide Rail Installation at Wheel Bend



Cut the slide rail end in flat. Make sure there is no gap created at the plastic molding part. The step is applied onto out feed as well.

Step 3

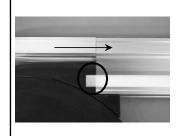


In the outer bend, make sure that the slide rail is properly connected to the conveyor beam profile.

Horizontal Plain Bends and Vertical Bend

In plain bends with small radius and vertical bend, the slide rail for the inner bend should be cut so that it is only 10mm wide in the bend. This is to prevent an uneven slide rail surface. Stretch the rail while mounting.

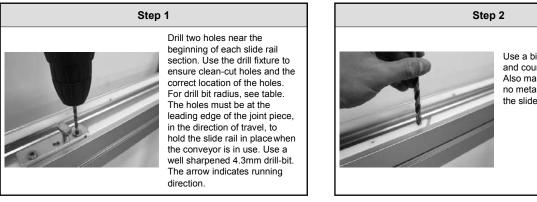
Step 2 - Out feed Wheel Bend (New Type A)



Follow Step 1.

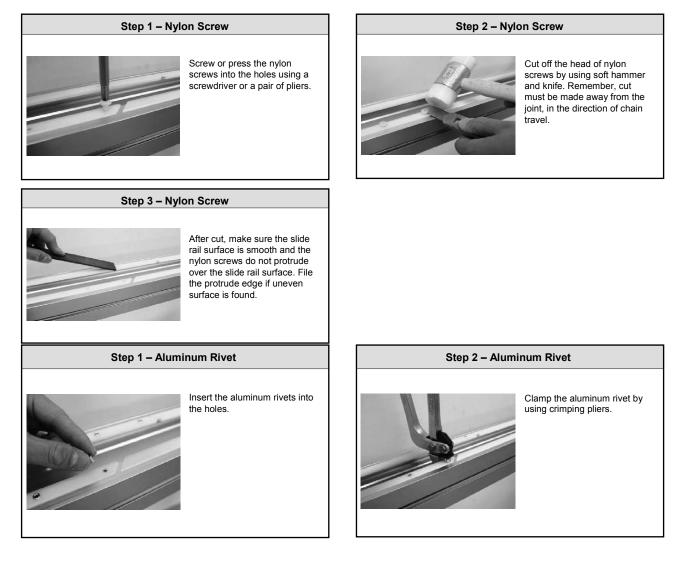


Drilling Slide Rail



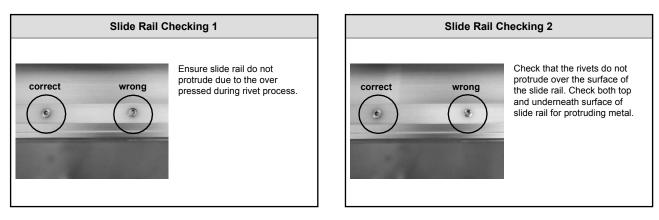
Use a bigger drill bit to deburr and countersink the holes. Also make sure that there are no metal filings left underneath the slide rail.

Fixing Slide Rail The beginning of each slide rail section must be fixed to the beam, since the chain will cause the slide rail to be pushed forward. Slide rail which moves into a wheel bend or a drive unit can block the chain completely. Riveting method is more secure if the conveyor will run with high operational speed or be heavily loaded.



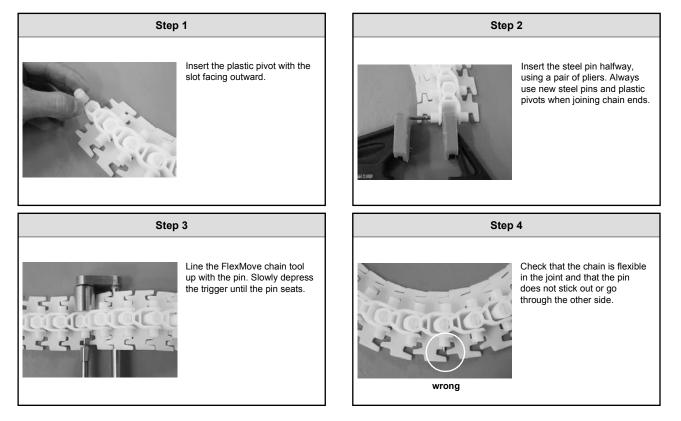


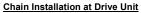
Checking Slide Rail and Rivet Condition After Fixed



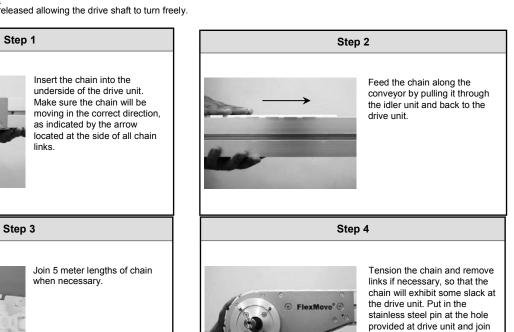
Joining Chain End

Assemble the chain by inserting the steel pin that comes with each chain link, into the opposite end of another link. Do this by using the FlexMove pin insertion tool.





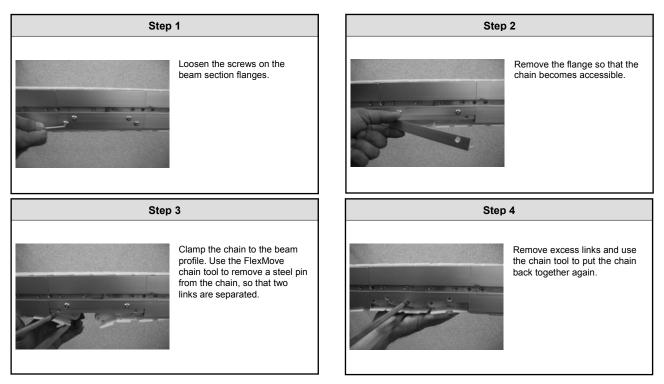
Make sure that the slip clutch is released allowing the drive shaft to turn freely.



FlexMcv

the chain.

Chain Assembly at Chain Disconnecting Module F..CC





Length Adjustment of the Conveyor Chain

End drive units, catenary drive units

- 1. of the conveyor chain is carried out at the drive end of the conveyor.
- 2. Adjustment The transmission guard cover must be removed from the drive unit and the slip clutch disengaged or transmission chain removed. The conveyor chain should now be free to travel within the conveyor beam profile.
- 3. Catenary protection plates should also be removed to allow easy access for the conveyor chain pin insertion tool.
- 4. The conveyor chain should be tensioned within the conveyor system by pulling down the conveyor chain at the chain catenary in the underside of the drive unit. Clamp across the conveyor chain to trap the chain on to the beam profile. The clamp should be placed over the edges of the drive unit to reduce the risk of damage to the aluminum profile.
- 5. Remove all slack links from the conveyor chain using the pin insertion tool.
- 6. Rejoin the conveyor chain using a new steel pin and plastic pivot.
- 7. Remove the chain clamp and replace the catenary protection plate and transmission chain. The slip clutch should also be reset.
- 8. Replace the transmission guard cover. The conveyor is now ready for operation.

Intermediate drive units, horizontal bend drive units

- 1. Conveyors which have no conveyor chain slack should be assembled with a special section of conveyor beam (F..CC), which allows for the chain to be easily inserted and adjusted for tension. (See previous page.)
- 2. Remove the lower part of this conveyor beam section by releasing the four screws.
- 3. Lift the chain from this section of the beam and clamp the conveyor chain as described above. Adjust the chain tension as for end and catenary drive units.

In a wheel bend drive, the outer aluminum profile can be removed by loosening the set screws in the beam connecting strips. The slide rail must be fitted to allow the removal of this section.

1. After removal of the outer aluminum profile, the conveyor chain can be pulled out of the wheel bend disc. Lift the chain upwards.

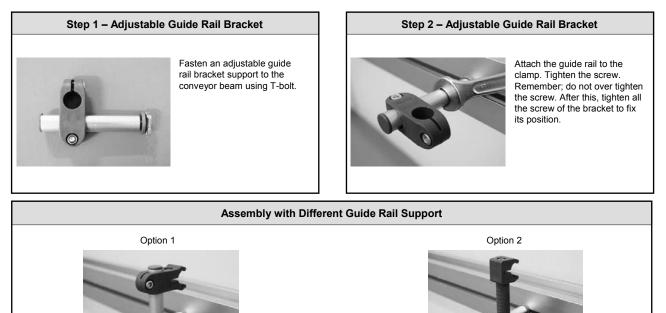
- 2. Remove chain links using the pin insertion tool.
- 3. New steel pins and plastic pivots must be used when rejoining chain ends.
- 4. The tensioned chain can now be pulled back into position on the bend guide disc, and the outer profile put into place.

Guide Rail System Installation

Guide rails are used to guide products being conveyed, but also to prevent them from falling off the conveyor. Guide rails are supported by guide rail brackets attached to the sides of the conveyor beam. Follow the mounting instructions for the type of bracket used in your application.

Brackets should be placed approximately 500 to 1000 mm apart depending on type of product and if accumulation occurs or not. If brackets are spaced at greater distances than 1000 mm, there is a possibility that guide rails will become deformed due to excessive force.

The pictures below show one possible way to assemble guide rail brackets. The examples shown on the following page are assembled in a similar way.

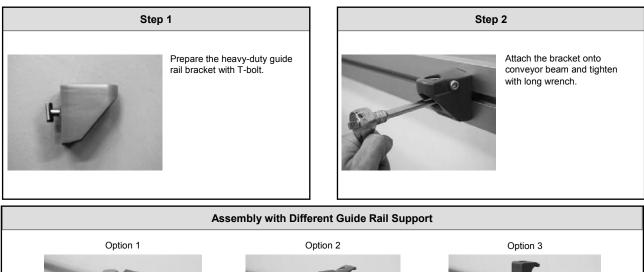


Note: Tighten all the screws when the position is justified.



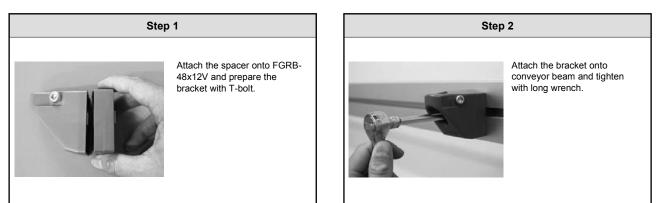


FGRB-48x12V Heavy Duty Guide Rail Bracket Assembly





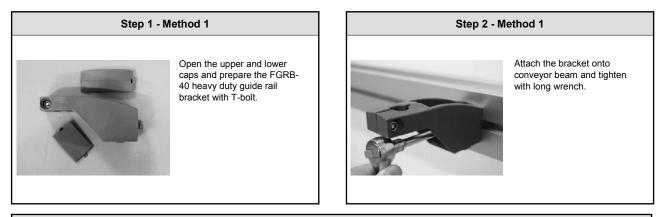
FGRB-48x12V Spacer Assembly



15



FGRB-40x18, FGRB-40x20 and FGRB-40x15x20 Heavy Duty Guide Rail Bracket Assembly



Assembly with Different Guide Rail Support Option 1 Option 2 Image: Colspan="2">Image: Colspan="2">Option 2 Image: Colspan="2">Option 2



Open the upper and lower caps and prepare the FGRB-40 heavy duty guide rail bracket with T-bolt.

Step 2 – Method 2



Attach the bracket onto conveyor beam and tighten with long wrench. After this, close both caps of the bracket.

Fixed Guide Rail Bracket Installation

Step 1 – Fixed Guide Rail Bracket



Fasten a fixed guide rail bracket support to the conveyor beam using T-bolt.

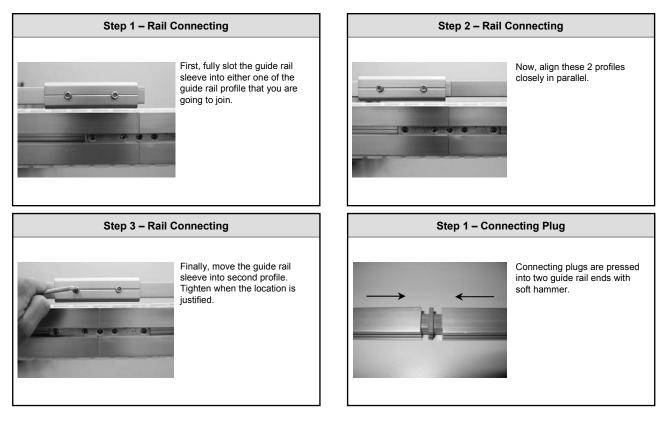
Step 2 – Fixed Guide Rail Bracket



Attach the guide rail to the bracket. Clamp the spring pin into the slot between bracket and guide rail to fixed the position.



Guide Rail Connecting Installation



Guide Rail Cover Installation



To prevent products from being scratched, a plastic guide rail cover can be snapped on to the inside of the guide rail. Step 2

Make sure that all cover joints are smooth, so that products do not get caught or damaged. Do not join covers on top of guide rail joints.



Final Preparations

Plug Beam Ends

Ensure that end caps have been fitted to all aluminium profile ends. The beam profiles should be deburred before fixing end caps. It may be necessary to fix the cap into position using a soft-faced hammer.

Anchor Feet to the Floor

After the assembly of all components it may be necessary to anchor the conveyor support feet to the floor. Use a type of fastener that is right for the kind of floor where the conveyor is installed.

Instability of the conveyor during operation may result in a dangerous operating environment or damage the conveyor components.

Other Preparations

- Adjust the height of the structural beam if necessary.
- · Make sure that the installation is stable and that all screws have been properly tightened.
- Use a plummet and/or water-level to make sure that the construction is not askew.
- Make sure that all electrical equipment and power supply are properly connected.
- Make sure that the conveyor is running in the correct direction before starting the conveyor! Never run the conveyor with tightened slip clutch until you have ensured that the running direction is correct.
- Tighten the slip clutch to a suitable friction.
- Make sure that the transmission cover is attached to the drive unit.
- In pallet installations, make sure that all pneumatic equipment is properly connected.

Remember that conveyor chains should always be pulled, not pushed, by the drive unit.

Start-up and Testing

Safety Considerations

- To eliminate the risk of accidents, it is important to be aware of certain areas of the conveyor where special caution is required, during installation, operation and maintenance. Some areas present a higher danger to personal safety, and because of this various kinds of safety devices need to be installed.
- All pinch and shear points as well as other exposed moving parts that present a hazard to employees at their workstations or their passageways must be safeguarded.
- · Cleated conveyor chains are more susceptible of creating pinch and shear points than plain chain.
- . When two or more pieces of equipment are interfaced, special attention must be given to the interfaced area to ensure proper safeguarding.
- For overhead equipment, guards must be provided if products may fall off the equipment for some reason. The same applies to all incline, decline and vertical conveyors.

Safeguarding can be achieved by:

Location - locate the hazardous area out of reach of the personnel involved.

Guards - mechanical barriers preventing entry into the hazardous area or protecting against falling goods.

Control devices - machine controls preventing or interrupting hazardous conditions.

Warnings - instructions, warning labels, or sound or light signals, alerting on hazardous conditions.

Warnings shall be used when other means of safeguarding will impair the function of the installation.



It must be difficult to bypass or inactivate safeguards during operation! Safety devices should be designed to minimize discomfort or difficulties for operators.



Torque Limiter Adjustment

Introduction

- The slip clutch on the drive unit is a safety device which allows the chain to stop if the load becomes excessive. It has two purposes:
- · Prevent damage to conveyor
- · Prevent damage to the products on the conveyor12345678

Name of parts

- 1. Hub 2. Friction Facing 3. Bushing 4. Pressure Plate 5. Disk Spring 6. Lock Washer
- 7. Pilot Plate 8. Adjustable Bolt

Torque Limiter Manual

- 1.Assembly
- 2. Machining accuracy on center member
- 3.Run-in
- 4. Torque setting5. Tightening method for adjustable nut and bolts
- 6.Replacing the friction facing
- 7. Maintenance and precaution

Assembly of Torque Limiter

Wipe off oil, rust and dirt from each part before assembling your Torque Limiter. Then, assemble as follows. Note that all units are assembled with a single disk spring. An additional disk spring is packed separately for use as necessary.

Machining Accuracy on Center Member

Machine the center member friction surface and bore at 3S~6S

Run-In

Usually, run-in operations for the Torque Limiter are not necessary. Of a stable slip torque is required, however, make sure to completely hand tighten the adjustable nut or bolts. Then tighten 60 degree more and run or rotate the Torque Limiter approximately 500 revolutions. If the rotation speed is high, run-in several times to reach 500 revolutions.

Torque Setting

After installing the Torque Limiter to your machine, tighten the adjustable nut or bolts but not too tight. Then, test several times by gradually tightening the bolts to find the appropriate tightening value. Correlation between the adjustable nut or bolts tightening value and slip torque are illustrated below. Slip torques vary depending on the friction surface. Graphs only show rough figures, so test with a slightly weaker torque first, then gradually tighten to find the appropriate torque suitable for your machine. This is the most practical way.

Tightening Method for Adjustable Nut or Bolts The adjustable nut for Torque Limiter is a hexagon head nut. Tighten it with a spanner wrench to the rated angle then bend the lock washer to prevent the adjustable nut from loosening.

The adjustable nut has 3 pieces. Of adjustable bolts. Place the pilot plate and disk spring in contact with each other, and tighten the adjustable nut manually until there is no backlash between their faces. Then retighten the adjustable bolts to the appropriate angle.

Replace the Friction Facing

Change the friction facing when they reach roughly half the thickness of dimension described above 1.25mm for L250. Before replacing the friction facing, each part must be completely free of oil, rust and dirt. Also, reassemble the Torque Limiter according to the structure drawing.

Maintenance and Precautions after the Replacement Procedure

Periodically inspect the torque setting, for the initial torque setting may be affected by changes in friction, ambient temperature, humidity and other conditions. Replace the friction facing and bushing if they wear. Their replacement parts are in stock.

Keep the Torque Limiter free from water and oil. This will maintain the effectiveness of torque and prevent the equipment or load from falling and causing serious accidents.

<u>Safety</u> WARNING!



- Before carrying out maintenance, make sure there is no load or turning force applied to the machine.
- Inspect operation periodically for overloads.
- Comply with Ordinance on Labor Safety and Hygiene 2-1-1 general standards.
- Comply with this manual when conducting unit installation, removal, maintenance and inspection.



CAUTION!

- Read this manual thoroughly before servicing the unit, and handle the unit correctly.
- Design he equipment so that it can tolerate load and rotational force when overloaded.
- Mechanical parts may wear depending on the rotation speed and slipping time. Check the operation periodically, and for any mechanical failure, contact us.
- This manual is an essential part of the unit, and it should remain with the unit at all times including when redistributed.

MAINTENANCE



Start-up and Maintenance Schedule

The chains are made of acetyl resin which has an excellent combination of strength, wear, chemical resistance, impact strength and temperature range. Chain failures like breakage and high wear might occur if the actual pull is higher than the permissible chain limit. There is also high risk of slip-stick effect if the conveyor is running at high chain tension.

The chain running on the right direction is very important. The chain top and bottom is like and arrow and the conveyor must travel toward the arrow. The chain should run without pre-tension. Pre-tension might result in uncontrolled chain pull and lead to chain failure. For this reason, it is important that there is a visible chain slack at the bottom of the drive unit when the conveyor is running.

The chain has good impact strength a broken link is a sign that something is wrong along the conveyor. Frequent failures are broken cleat link caused jamming at the loading or unloading of the conveyor.

Slide Rail Lubrication

Lubrication of the surface between the slide rail and chain will result in low coefficient of friction, less noise and linger running life. It is especially applicable for plain bend. But, it is not compulsory as the chain and slide rail materials are self-lubricant.

Wear

The degree of wear on a conveyor depends on a number of factors, such as:

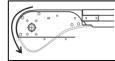
- Running time
- Load, contact pressure
- Speed
- Product accumulationSharp or rough products
- Chemicals
- Foreign particles, e.g. chips, grinding particles, broken
- glass, sand, sugar
- Temperature
- Plain bends

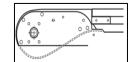
Try to minimize the running time for the conveyor by stopping it when there is no transport. Multiple horizontal and vertical plain bends in a conveyor will often result in increased wear. One reason is that the friction losses are large in plain bends. Also, the contact surface between chain and slide rail is small and the chain pull is acting towards the slide rail in the bends.

Chain Elongation

Acetyl resin is an elastic material. In addition to the elastic elongation, the chain will exhibit elongation because of material creeping. The magnitude of chain elongation will depend on the chain tension. The chain elongation will show up at the bottom of the drive unit. Too much of the chain slack may cause high wear at the drive unit entry point. Chain slack of up to 150 mm is acceptable during normal running but any slack longer than that is not advisable. The chain slack might also hit on any part below it and this depend on the drive unit configuration. For this case, the chain slack should be shortened much earlier. In normal case, chain should be shortened after run-in time of 40 hours. The next inspection should be made only after 200 hours of running and then every 1600 hours. More frequent inspections are recommended if the conveyor is long and on high load.

The chain should therefore be pre – tensioned while the conveyor is stationary, but must never be so tight that there is no slack during the operation. There should be no appreciable slack on the chain when the conveyor is stationary. If there is too much slack, there will be excessive wear on the chain guides and the chain. This could be a risk for injury. If the slack on the conveyor chain is unacceptably high, it must be shortened by splitting the chain and removing the necessary number of links.





The conveyor chain must show some slack during operation The conveyor chain does not need to show any slack when the conveyor chain is stationary.

Inspection

Visual check the slide rail in horizontal and vertical bends after every 200 hours or operation. The chain can stay in place during the inspection. Replace any worn out slide rail. Remove the chain from the conveyor and inspect the slide rail carefully once every 1500 hours or operation. Check for any worn out slide rail and any other unusual condition and make necessary replacement. You must also clean up the dirt accumulation in the conveyor beam especially before all plain bend, wheel bend, drive unit and idler end.

Drive Unit

Each drive unit can be equipped with different gear motor brands. Please follow the maintenance recommendations from the manufacturers.

Proposal Schedule

Maintenance is recommended to carry out every 3rd, 6th and 12th month and subsequently every 6th month considering the running condition. Following are the recommended actions to be carried out:

First 3rd month:

- Shortened the chain.
- Visual inspection on the running wear of the slide rail, sprocket, wheel and chain guides.
- Checking on any high wear part on the conveyor and rectify it when necessary.
- · Clean up any foreign accumulation that might block the smooth flow of the conveyor.
- Checking on the gearbox oil level and top up when necessary.
- Checking all parts joint for support structure, slide guide and conveyor for loosen joint, rectify when necessary.

MAINTENANCE



First 6th month:

- Shortened the chain.
- Visual inspection on the running wear of the slide rail, sprocket, wheel and chain guides.
- Checking on any high wear part on the conveyor and rectify it when necessary.
- Clean up any foreign accumulation that might block the smooth flow of the conveyor.
- Checking on the gearbox oil level and top up when necessary.
- Checking all parts joint for support structure, side guide and conveyor for loosen joint, rectify when necessary.

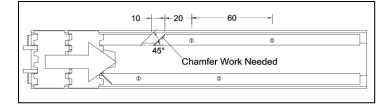
First 12th month:

- Shortened the chain.
- Visual inspection on the running wear of the slide rail, sprocket, wheel and chain guides.
- Checking on any high wear part on the conveyor and rectify it when necessary. Clean up any foreign accumulation that might block the smooth flow of the conveyor.
- Checking on the gearbox oil level and top up when necessary.
- Checking all parts joint for support structure, side guide and conveyor for loosen joint, rectify when necessary.

Checking Slide rail with the conveyor chain in place

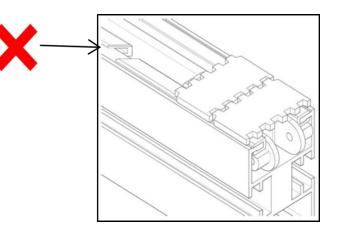
The slide rail needs to be checked after every 200 hours' operation. Carry on the checking on a stationary condition with the chain in place.

- Check the screwing points on the slide rail
- Check the joints section on the slide rail.



Correct Configuration of joints

- Check that the gap between the slide rails and the joints are fit correctly.
- Check that the nylon screw is fit and do not protrude over the surface of the slide rail.
- Check that the joint sections are not deformed.



MAINTENANCE



Deformed Joints

Checking the slide rail, conveyor chain has been removed

The slide rail needs to check once in years or after 1500 hours' operation. The chain should be removed from the conveyor beam for checking the slide rail carefully on the condition of wear and the screwing.

Horizontal bends need to be checked carefully after every 400 hours' operation, since these are the place where are subjected to more friction loads.

- Carry out the same checks as the "checking slide rails with the conveyor chains in place".
- Check the wear and tear condition for the slide rail.

Remarks

Check the inner slide rail in horizontal bends obviously, since the frictions here are particularly high. The conveyor chain interface more on the inner slide rail compared to the outer slide rail.

- Check the slide rail for the scratches and notches.
- Replace the slide rail and the screwing parts if necessary. Clean the conveyor chain and check the condition of the chains as well.
- Tidy the conveyor beam.

Protective and safety device

Safety devices should be checked at regular intervals.

- Check the motor cover for the chain transmission.
- This motor cover must always be in place when the conveyor is operating.
- Check the drive cover always be in place when the chain is moving on the drive unit.
- Drive unit always have a chain cover to protect the safety of the users. The chain slack always could be seen during the conveyor is running at the drive unit. Check that the chain cover plates are in place, and that the chain does not slacken enough to hang below the plates.
- Check that the chain cover for the conveyor chain on the intermediate drive units and the catenary drive units.



Motor cover for the bicycle chain transmission



Drive Cover to cover the chain slag for suspended drive unit

TROUBLESHOOTING



Troubleshooting

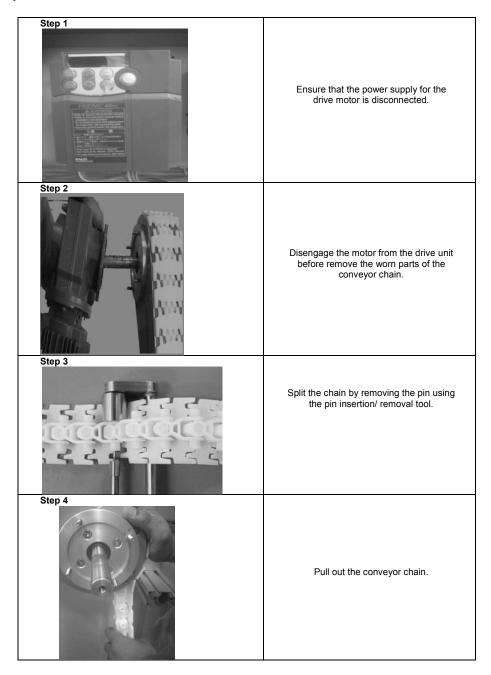
Symptom	Cause	Corrective action
Jerky running	 Damage or badly fitted slide rail. Wrongly adjusted slip clutch. Worn transmission parts. Conveyor chain is too tight or loose. Dirty conveyor 	 Inspect and replace as necessary. Check and adjust slip clutch. Check/replace transmission chain, chain drive sprocket. Tension conveyor chain correctly. Clean conveyor chain/slide rail.
Drive unit is running; conveyor chain is not running	 Wrongly adjusted slip clutch. Friction discs in slip clutch are worn or contaminated. Damage/badly fitted slide rail. Transmission products are not fitted. 	 Check adjustment of slip clutch. Check and replace if necessary. Check the free running of the conveyor chain. Check and fit.
Motor overheating on drive unit	 Overload conveyor. Gearbox leaking oil. Dirty conveyor. 	 Remove products from conveyor and test run. Check actual conveyor load against recommended loading. If possible, break to more drives. Check output shaft seal and area around motor/gearbox interface. Clean the conveyor chain with warm water 50 degree.
Noise	 Worn or damaged bearings in drive unit. Damage/badly fitted slide rail. Excessive conveyor speed. Incorrect conveyor chain tension. 	 Check/replace drive unit. Check the free running of the conveyor chain, especially in slide rail joints. Check actual load against recommended loading. Lengthen/shorten conveyor chain
Abnormal wear of plastic parts	 Overloaded conveyor. Ambient temperature too high. Foreign object dropped on the conveyor chain. 	 Remove products from conveyor and test run. Check the free running of the conveyor chain. Check actual conveyor load against recommended loading. If possible, break the conveyor into more drives. Check against recommended temperature for conveyor. Replace the broken section of chain.
Clutch Ratcheting or slipping	 Excessive or accumulated load. Improper ratchet clutch tensioning. Damaged or missing chain assembly parts. Accumulation of conveyed material or foreign objects inside of casing. 	 Avoid load buildup by running conveyor continuously. Do not manually surge load conveyor. Refer to ratchet clutch adjustment in Maintenance. Review belt and repair or replace as required. Reverse conveyor placing ball of newspaper or a rag on belt to act as wipeout for accumulated material.



Replacement of worn part -conveyor chain

Removal of Conveyor Chain

Remove the worn part of the conveyor chain by using the FlexMove pin insertion/removal tool. Make sure that the slip clutch is released allowing the drive shaft to turn freely.





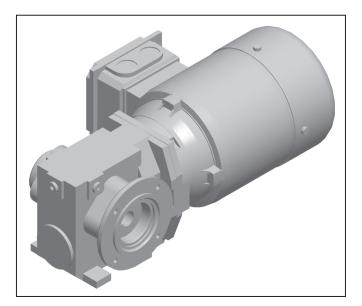
Checking the condition of the slide rail

Run a sample chain (approx. 0.3m) of the conveyor chain through the conveyor. Make sure that the side rails on the conveyor beam are in good condition.

Step 1	The sample chain is install on the conveyor beam to make sure that it can moves easily and correctly through the bends and idler ends.
Step 2	Make sure that the chain direction is corresponding to the conveyor direction.
Step 3	Feed the chain along the conveyor by pulling it through the idler unit and back to the drive unit.
Step 4	Tension the chain and remove links if necessary, so that the chain will exhibit some slack at the drive unit. Put in the stainless steel pin at the hole provided at drive unit and join the chain.
Step 5	After install the conveyor chain, it is possible to test the chain by the hand without the motor.
Step 6	The motor will be installed for test run after the final checking for the chain.



For Direct Drive Tails:



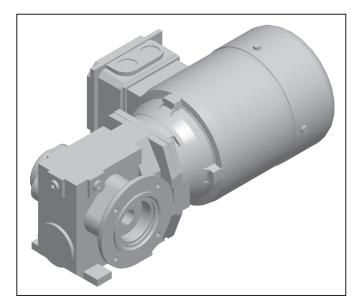
Product Line		FK,FS,FM,FU,FV	FC,FL	FS	FM
Radius (M)		0.064	0.0675	0.044	0.049
Drive Type		Direct	Direct	Intermediate	Intermediate
Part Number					
Right Hand	Left Hand	Speed	Speed	Speed	Speed
FMM129RDS423EN	FMM129LDS423EN	5.2 m/min	5.5 m/min	3.6 m/min	4 m/min
FMM067RDS423EN	FMM067LDS423EN	10 m/min	10.6 m/min	6.9 m/min	7.7 m/min
FMM032RDS423EN	FMM032LDS423EN	21.3 m/min	22.5 m/min	14.6 m/min	16.3 m/min
FMM015RDS423EN	FMM015LDS423EN	45.8 m/min	48.3 m/min	31.5 m/min	35.1 m/min
FMM013RDS423EN	FMM013LDS423EN	52.2 m/min	55.1 m/min	35.9 m/min	40 m/min
FMM010RDS423EN	FMM010LDS423EN	68.7 m/min	72.5 m/min	47.3 m/min	52.6 m/min

Part Number	Volts	Phase	Hz	Power	Power	Speed	Torque	Torque	Ratio	Force
FMM129(X)DS423EN	230/460	3	60	0.18 kW	0.25 Hp	13 rpm	95 Nm	837 in-lb.	129 i	1484 N
FMM067(X)DS423EN	230/460	3	60	0.37 kW	0.50 Hp	25 rpm	79 Nm	699 in-lb.	67.5 i	1234 N
FMM032(X)DS423EN	230/460	3	60	0.55 kW	0.75 Hp	53 rpm	74 Nm	653 in-lb.	32.3 i	1156 N
FMM015(X)DS423EN	230/460	3	60	0.55 kW	0.75 Hp	114 rpm	39 Nm	341 in-lb.	15 i	609 N
FMM013(X)DS423EN	230/460	3	60	0.75 kW	1.00 Hp	130 rpm	48 Nm	425 in-lb.	13.3 i	750 N
FMM010(X)DS423EN	230/460	3	60	1.1 kW	1.50 Hp	171 rpm	56 Nm	490 in-lb.	10.2 i	875 N

(X) = L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive Note: speed range for 60 Hz gearmotors is 10 to 60 Hz or 6:1.



For Suspended Drive Tails:

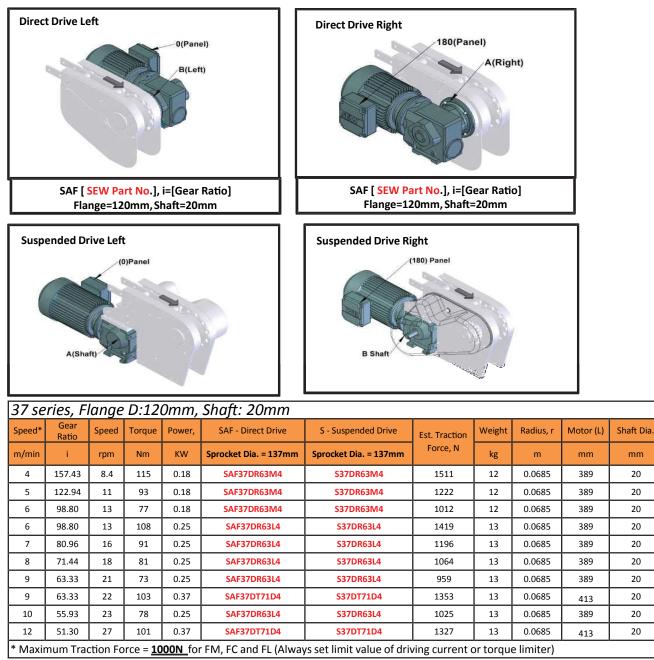


Product Line		FK,FS,FM,FU,FV	FC,FL
Radius (M)		0.064	0.0675
Drive Type		Suspended	Suspended
Part Number			
Right Hand	Left Hand	Speed	Speed
FMM129RSS423EN	FMM129LSS423EN	5.2 m/min	5.5 m/min
FMM067RSS423EN	FMM067LSS423EN	10 m/min	10.6 m/min
FMM032RSS423EN	FMM032LSS423EN	21.3 m/min	22.5 m/min
FMM015RSS423EN	FMM015LSS423EN	45.8 m/min	48.3 m/min
FMM013RSS423EN	FMM013LSS423EN	52.2 m/min	55.1 m/min
FMM010RSS423EN	FMM010LSS423EN	68.7 m/min	72.5 m/min

Part Number	Volts	Phase	Hz	Power	Power	Speed	Torque	Torque	Ratio	Force
FMM129(X)SS423EN	230/460	3	60	0.18 kW	0.25 Hp	13 rpm	95 Nm	837 in-lb.	129 i	1484 N
FMM067(X)SS423EN	230/460	3	60	0.37 kW	0.50 Hp	25 rpm	79 Nm	699 in-lb.	67.5 i	1234 N
FMM032(X)SS423EN	230/460	3	60	0.55 kW	0.75 Hp	53 rpm	74 Nm	653 in-lb.	32.3 i	1156 N
FMM015(X)SS423EN	230/460	3	60	0.55 kW	0.75 Hp	114 rpm	39 Nm	341 in-lb.	15 i	609 N
FMM013(X)SS423EN	230/460	3	60	0.75 kW	1.00 Hp	130 rpm	48 Nm	425 in-lb.	13.3 i	750 N
FMM010(X)SS423EN	230/460	3	60	1.1 kW	1.50 Hp	171 rpm	56 Nm	490 in-lb.	10.2 i	875 N

(X) = L or R for Right Hand or Left Hand Gearmotor matching RH or LH Drive Note: speed range for 60Hz gearmotors is 10 to 60 Hz or 6:1.



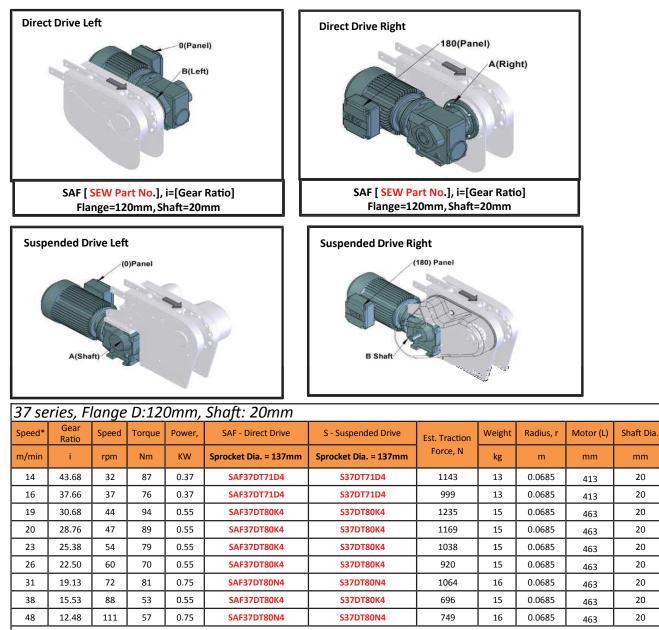


FlexMove[®] standard drive shaft is 20mm and Flange is 120mm diameter mounting.

* Note: Chain Speeds shown are for 50Hz gearmotors. For 60HZ gearmotor multiply by 1.2x.

SEW Helical-Worm Geared Motors are products of SEW-Eurodrive®





* Maximum Traction Force = 1000N_for FM, FC and FL (Always set limit value of driving current or torque limiter)

FlexMove® standard drive shaft is 20mm and Flange is 120mm diameter mounting.

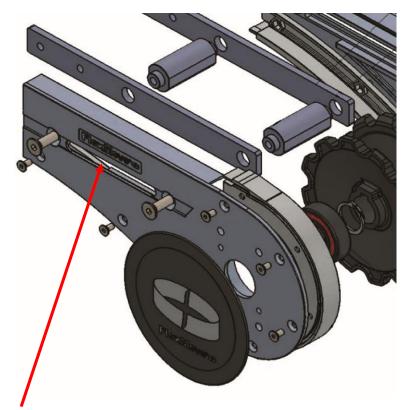
* Note: Chain Speeds shown are for 50Hz gearmotors. For 60HZ gearmotor multiply by 1.2x.

SEW Helical-Worm Geared Motors are products of SEW-Eurodrive®



(2) versions of Drive Modules have been produced. You need to determine which module version you have before ordering service parts.

To determine if you have a Standard Tail or a Cast Tail look for a slot on the tail plate.



No slot = Standard Tail: See page 31 - 35 for Standard Tail Versions Slot = Cast Tail: See page 36 - 38 for Cast Tail Versions

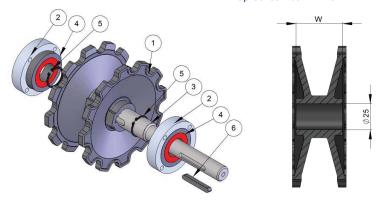


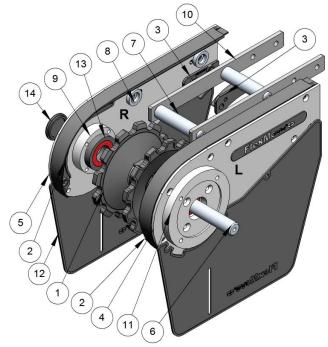
FCD103100-2 Sprocket width W = 64mm

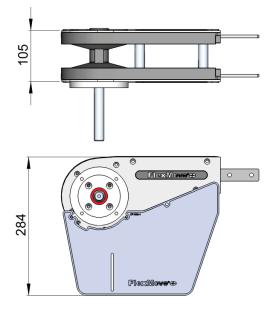
Part No : FC105DL-25

FCDD105-0L1 /0R1 Drive Kits

ITEM	DESCRIPTION	DWG. NO	QTY
1	FCD DRIVE SPROCKET	FCD103100-2	1
2	6205 BEARING HOUSING	B6205-C70-T15	2
3	FCD DRIVE SHAFT	FC103106	1
4	NTN BEARING	6205LLU	2
5	CIRCLIP D-1400 A25		2
6	M6X39 KEYWAY		1







ITEM	DESCRIPTION	DWG. NO	QTY	Recommended Spare parts
1	FCD DRIVE SPROCKET	FCD103100-2	1	х
2	FCD STEERING GUIDE RIGHT/LEFT	FCD103101-1	1 Set	х
3	FCD RETURN STEERING GUIDE R/L	FCD103102-1	1 Set	х
4	FCDD SIDE PLATE LEFT	FC103101-1	1	
5	FCDD SIDE PLATE RIGHT	FC103101-1	1	
6	FCD DRIVE SHAFT-105	FC103106	1	
7	FCD PILLAR-105	FC103104	2	
8	DRIVE SPACER	FASP-22X5.8	4	
9	6205 BEARING HOUSING	B6205-C70-T15	2	
10	DRIVE CONNECTING STRIP	FACS25-L259	2	
11	WA120MM FLANGE PLATE	FLGWA30-120-2	1	
12	SAFETY COVER	CP1005-1	2	
13	NTN BEARING	6205LLU	2	
14	END CAP	FAEC-DH	1	

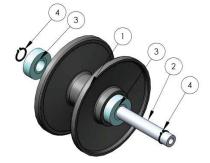


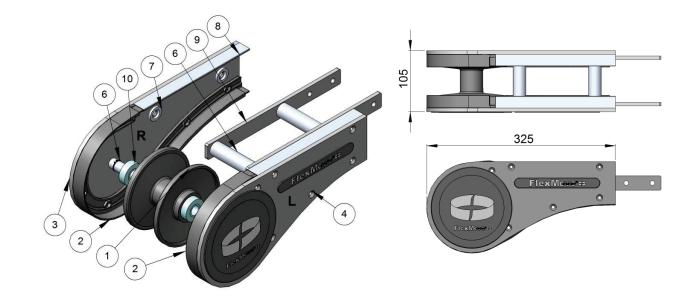


Part No : FCIM-15

FCIE-105 Idler Kits

ITEM	DESCRIPTION	DWG. NO	QTY
1	FCE IDLER WHEEL	FCE103000	1
2	FCE WHEEL SHAFT	FCE103202-2	1
3	NTN BEARING	6202 ZZ	2
4	CIRCLIP D-1400 A15		2





ITEM	DESCRIPTION	DWG. NO	QTY	Recommended Spare parts
1	FCE IDLER WHEEL	FCE103000	1	х
2	FCE STEERING GUIDE	FCE103001-1	1Set	х
3	FCE SIDE PLATE RIGHT	FCE105201-2R	1	
4	FCE SIDE PLATE LEFT	FCE105201-2L	1	
5	FCE WHEEL SHAFT	FCE105202-2	1	
6	FCE PILLAR	FCE105203-2	2	
7	FCE PILLAR SPACER	FCE105204-2	4	
8	FCE TRACK	FCE105205-2	2	
9	DRIVE CONNECTING STRIP	FACS25-L259	2	
10	NTN BEARING	6202 ZZ	2	

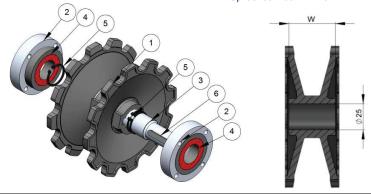


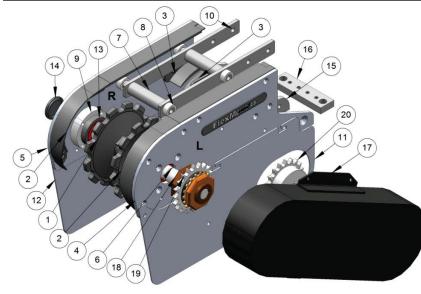
FCD103100-2 Sprocket width W = 64mm

Part No : FCDS1-25

FCSD-0L1 /0R1 Drive Kits

ITEM	DESCRIPTION	DWG. NO	QTY
1	FCD DRIVE SPROCKET	FCD103100-2	1
2	6205 BEARING HOUSING	B6205-C70-T15	2
3	FCSD DRIVE SHAFT	FC103306	1
4	NTN BEARING	6205LLU	2
5	CIRCLIP D-1400 A25		4
6	M6X39 KEYWAY		1







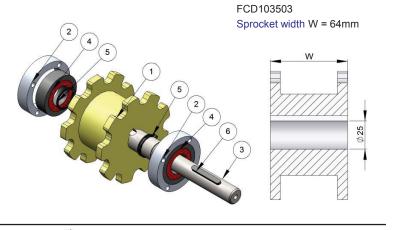
ITEM	DESCRIPTION	DWG. NO	QTY	Recommended Spare parts
1	FCD DRIVE SPROCKET	FCD103100-2	1	x
2	FCD STEERING GUIDE RIGHT/LEFT	FCD103101	1 Set	x
3	FCD RETURN STEERING GUIDE R/L	FCD103102	1 Set	x
4	FCSD SIDE PLATE LEFT	FC103301-1	1	
5	FCSD SIDE PLATE RIGHT	FC103301-1	1	
6	FCSD DRIVE SHAFT	FC103306	1	
7	FCSD PILLAR	FC103302	2	
8	FCSD SPACER	FGDS-20x10	4	
9	6205 BEARING HOUSING	B6205-C70-T15	2	
10	DRIVE CONNECTING STRIP	FACS25-L259	2	
11	DRIVE SAFETY COVER	CP1010	1	
12	SLACK PROTECTION COVER	CP1011	1	
13	NTN BEARING	6205LLU	2	
14	END CAP	FAEC-DH	1	
15	LR BRACKET	CP1002-3	2	
16	GEAR MOTOR MOUNTING BRACKET	CP1003-S37-3	2	
17	TRANSMISSION CHAIN COVER	CP1004-300L-1	1	
18	TORQUE LIMITER	TL-250-2	1	х
19	TRANSMISSION SPROCKET-TL-250	RS08BX19T-41F	1	х
20	TRANSMISSION SPROCKET	RS08BX19T-20	1	х

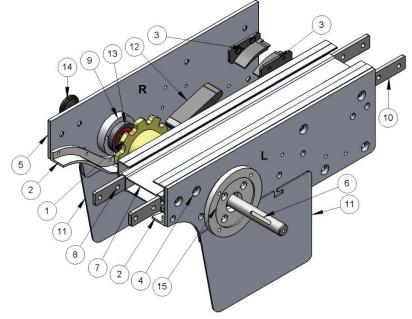


Part No : FCIDL1-25

FCID-DD-0L1 /0R1 Drive Kits

ITEM	DESCRIPTION	DWG. NO	QTY
1	FCID DRIVE SPROCKET	FCD103503	1
2	6205 BEARING HOUSING	B6205-C70-T15	2
3	FCID DRIVE SHAFT	FC103506	1
4	NTN BEARING	6205LLU	2
5	CIRCLIP D-1400 A25		2
6	M6X39 KEYWAY		1





ITEM	DESCRIPTION	DWG. NO	QTY	Recommended Spare parts
1	FCID DRIVE SPROCKET	FCD103503	1	x
2	FCD STEERING GUIDE RIGHT/LEFT	FCD103504-1	1 Set	х
3	FCD RETURN STEERING GUIDE R/L	FCD103102	1 Set	x
4	FCID SIDE PLATE LEFT	FC103501	1	
5	FCID SIDE PLATE RIGHT	FC103501	1	
6	FCID DRIVE SHAFT	FC103506	1	
7	FCID BED	FC103502	1	
8	CONNECTING STRIP	FACS-25x140A	2	
9	6205 BEARING HOUSING	B6205-C70-T15	2	
10	DRIVE CONNECTING STRIP	FACS25-L259xM8	2	
11	SLACK PROTECTION COVER	CP1011	2	
12	RETURN CHAIN PROTECTOR	CP1012-C	2	
13	NTN BEARING	6205LLU	2	
14	END CAP	FAEC-DH	1	
15	WA120MM FLANGE PLATE	FLGWA30-120-2	1	

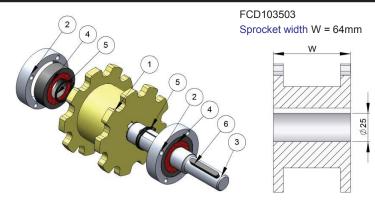


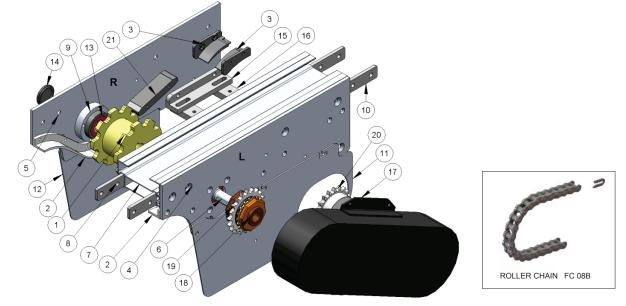
FCID-SD-0L1 /0R1 Intermediate Suspended Drive

Part No : FCIDS1-25

FCID-SD-0L1 /0R1 Drive Kits

ITEM	DESCRIPTION	DWG. NO	QTY
1	FCID DRIVE SPROCKET	FCD103503	1
2	6205 BEARING HOUSING	B6205-C70-T15	2
3	FCSD DRIVE SHAFT	FC103306	1
4	NTN BEARING	6205LLU	2
5	CIRCLIP D-1400 A25		4
6	M6X39 KEYWAY		1





ITEM	DESCRIPTION	DWG. NO	QTY	Recommended Spare parts
1	FCID DRIVE SPROCKET	FCD103503	1	x
2	FCD STEERING GUIDE RIGHT/LEFT	FCD103504-1	1 Set	x
3	FCD RETURN STEERING GUIDE R/L	FCD103102	1 Set	x
4	FCID SIDE PLATE LEFT	FC103501	1	
5	FCID SIDE PLATE RIGHT	FC103501	1	
6	FCSD DRIVE SHAFT	FC103306	1	
7	FCID BED	FC103502	1	
8	CONNECTING STRIP	FACS-25x140A	2	
9	6205 BEARING HOUSING	B6205-C70-T15	2	
10	DRIVE CONNECTING STRIP	FACS25-L259xM8	2	
11	DRIVE SAFETY COVER	CP1010	1	
12	SLACK PROTECTION COVER	CP1011	1	
13	NTN BEARING	6205LLU	2	
14	END CAP	FAEC-DH	1	
15	LR BRACKET	CP1002-3	2	
16	GEAR MOTOR MOUNTING BRACKET	CP1003-S37-3	2	
17	TRANSMISSION CHAIN COVER	CP1004-300L-1	1	
18	TORQUE LIMITER	TL-250-2	1	x
19	TRANSMISSION SPROCKET-TL-250	RS08BX19T-41F	1	х
20	TRANSMISSION SPROCKET	RS08BX19T-20	1	х
21	RETURN CHAIN PROTECTOR	CP1012-C	2	



	Part No #	FCDD-A105			FI	<u>exMove</u>
Dire	ct end drive unit with	nout motor, 105mm (Casting)	Doc No		Rev	1
(19 a 18 a 14 22 12 5 3		325	20
	Contraction of the state of the	9 16 21 20 11 15 2	13 17 4 1		Flexida vets	
			17			exMove
Item	Part No #	FCDD-A105	4 1	UOM		exMove [®]
Item 1			17	UOM		exMove
	Part No #	FCDD-A105 Description	4 1 QOM			exMove
1	Part No # Dwg No FCD103100-2	FCDD-A105 Description FCD Sprocket width 64mm	4 1 QOM 1	unit		exMove
1 2	Part No #	FCDD-A105 Description FCD Sprocket width 64mm Drive side plate A105 (Right)	4 1 QOM 1 1	unit unit		exMove [®]
1 2 3	Part No # Dwg No FCD103100-2 FCD105201-AR FCD105201-AL	FCDD-A105 Description FCD Sprocket width 64mm Drive side plate A105 (Right) Drive side plate A105 (Left)	4 1 QOM 1 1 1 1	unit unit unit		exMove [®]
1 2 3 4	Part No # Dwg No FCD103100-2 FCD105201-AR FCD105201-AL FCD105201-AL FCD103101-A (Right)	FCDD-A105 Description FCD Sprocket width 64mm Drive side plate A105 (Right) Drive side plate A105 (Left) FCD Steering Guide (Right)	4 1 QOM 1 1 1 1 1 1	unit unit unit unit		exMove
1 2 3 4 5	Part No # Dwg No FCD103100-2 FCD105201-AR FCD105201-AL FCD103101-A (Right) FCD103101-A (Left)	FCDD-A105 Description FCD Sprocket width 64mm Drive side plate A105 (Right) Drive side plate A105 (Left) FCD Steering Guide (Right) FCD Steering Guide (Left)	4 1 QOM 1 1 1 1 1 1 1	unit unit unit unit unit		exMove
1 2 3 4 5 6	Part No # Dwg No FCD103100-2 FCD105201-AR FCD105201-AL FCD103101-A (Right) FCD103101-A (Left) FCD103102-A (Right)	FCDD-A105 Description FCD Sprocket width 64mm Drive side plate A105 (Right) Drive side plate A105 (Left) FCD Steering Guide (Right) FCD Steering Guide (Left) FCD Return Steering Guide (Right)	4 1 QOM 1 1 1 1 1 1 1 1 1	unit unit unit unit unit unit		exMove
1 2 3 4 5 6 7	Part No # Dwg No FCD103100-2 FCD105201-AR FCD105201-AL FCD103101-A (Right) FCD103101-A (Left) FCD103102-A (Right) FCD103102-A (Left)	FCDD-A105 Description FCD Sprocket width 64mm Drive side plate A105 (Right) Drive side plate A105 (Left) FCD Steering Guide (Right) FCD Steering Guide (Left) FCD Return Steering Guide (Right) FCD Return Steering Guide (Left)	4 1 QOM 1 1 1 1 1 1 1 1 1 1 1	unit unit unit unit unit unit unit		exMove
1 2 3 4 5 6 7 8 9 10	Part No # Dwg No FCD103100-2 FCD105201-AR FCD105201-AL FCD103101-A (Right) FCD103101-A (Left) FCD103102-A (Right) FCD103102-A (Left) FC-A2004 FC-A2006 FACS-25xL259	FCDD-A105 Description FCD Sprocket width 64mm Drive side plate A105 (Right) Drive side plate A105 (Left) FCD Steering Guide (Right) FCD Steering Guide (Left) FCD Return Steering Guide (Left) FCD Return Steering Guide (Left) Pillar FC Direct Drive Shaft Drive Connecting Strip	17 4 1 2	unit unit unit unit unit unit unit unit		exMove
1 2 3 4 5 6 7 8 9 10 11	Part No # Dwg No FCD103100-2 FCD105201-AR FCD105201-AL FCD103101-A (Right) FCD103101-A (Left) FCD103102-A (Right) FCD103102-A (Left) FC-A2004 FC-A2006 FACS-25xL259 FLG120	FCDD-A105 Description FCD Sprocket width 64mm Drive side plate A105 (Right) Drive side plate A105 (Left) FCD Steering Guide (Right) FCD Steering Guide (Left) FCD Return Steering Guide (Left) FCD Return Steering Guide (Left) Pillar FC Direct Drive Shaft Drive Connecting Strip Flange Plate 120mm	17 4 1 2 1 2 1	unit unit unit unit unit unit unit unit		exMove
1 2 3 4 5 6 7 8 9 10 11 12	Part No # Dwg No FCD103100-2 FCD105201-AR FCD105201-AL FCD103101-A (Right) FCD103101-A (Left) FCD103102-A (Right) FCD103102-A (Left) FC-A2004 FC-A2006 FACS-25xL259 FLG120 6205 LLU	FCDD-A105 Description FCD Sprocket width 64mm Drive side plate A105 (Right) Drive side plate A105 (Left) FCD Steering Guide (Right) FCD Steering Guide (Left) FCD Return Steering Guide (Left) FCD Return Steering Guide (Left) Pillar FC Direct Drive Shaft Drive Connecting Strip Flange Plate 120mm NTN Bearing	17 4 1 2 1 2 1 2	unit unit unit unit unit unit unit unit		exMove
1 2 3 4 5 6 7 8 9 10 11 12 13	Part No # Dwg No FCD103100-2 FCD105201-AR FCD105201-AL FCD103101-A (Right) FCD103101-A (Left) FCD103102-A (Right) FCD103102-A (Left) FC-A2004 FC-A2006 FACS-25xL259 FLG120 6205 LLU CP1005-1	FCDD-A105 Description FCD Sprocket width 64mm Drive side plate A105 (Right) Drive side plate A105 (Left) FCD Steering Guide (Right) FCD Steering Guide (Left) FCD Return Steering Guide (Left) FCD Return Steering Guide (Left) Pillar FC Direct Drive Shaft Drive Connecting Strip Flange Plate 120mm NTN Bearing Drive Safety Cover	17 4 1 QOM 1 1 1 1 1 1 1 1 2 1 2 1 2 2	unit unit unit unit unit unit unit unit		exMove
1 2 3 4 5 6 7 8 9 10 11 12 13	Part No # Dwg No FCD103100-2 FCD105201-AR FCD105201-AL FCD103101-A (Right) FCD103101-A (Left) FCD103102-A (Right) FCD103102-A (Left) FC-A2004 FC-A2006 FACS-25xL259 FLG120 6205 LLU CP1005-1 FAEC-DS	FCDD-A105 Description FCD Sprocket width 64mm Drive side plate A105 (Right) Drive side plate A105 (Left) FCD Steering Guide (Right) FCD Steering Guide (Left) FCD Return Steering Guide (Left) FCD Return Steering Guide (Left) Pillar FC Direct Drive Shaft Drive Connecting Strip Flange Plate 120mm NTN Bearing Drive Safety Cover Drive End Cap	17 4 1 2 1 2 1 2	unit unit unit unit unit unit unit unit		exMove
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Part No # Dwg No FCD103100-2 FCD105201-AR FCD105201-AL FCD103101-A (Right) FCD103101-A (Left) FCD103102-A (Right) FC-A2004 FC-A2006 FACS-25xL259 FLG120 6205 LLU CP1005-1 FAEC-DS M8x54 Keyway	FCDD-A105 Description FCD Sprocket width 64mm Drive side plate A105 (Right) Drive side plate A105 (Left) FCD Steering Guide (Right) FCD Steering Guide (Left) FCD Return Steering Guide (Left) FCD Return Steering Guide (Left) Pillar FC Direct Drive Shaft Drive Connecting Strip Flange Plate 120mm NTN Bearing Drive Safety Cover Drive End Cap Keyway Steel	17 4 1 QOM 1 1 1 1 1 1 1 1 2 1 2 1 2 2	unit unit unit unit unit unit unit unit		exMove
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Part No # Dwg No FCD103100-2 FCD105201-AR FCD105201-AL FCD103101-A (Right) FCD103101-A (Left) FCD103102-A (Right) FCD103102-A (Left) FC-A2004 FC-A2006 FACS-25xL259 FLG120 6205 LLU CP1005-1 FAEC-DS	FCDD-A105 Description FCD Sprocket width 64mm Drive side plate A105 (Right) Drive side plate A105 (Left) FCD Steering Guide (Right) FCD Steering Guide (Left) FCD Return Steering Guide (Left) FCD Return Steering Guide (Left) Pillar FC Direct Drive Shaft Drive Connecting Strip Flange Plate 120mm NTN Bearing Drive Safety Cover Drive End Cap	17 4 1 QOM 1 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	unit unit unit unit unit unit unit unit		exMove



	Part No #	FCIE-A105			E	lexMove®
Idler	end unit (Casting)		Doc No		Rev	1
			12 11 7 3 9		325	
	Part No #	FCIE-A105			E	<u>lexMove®</u>
Item	Dwg No	Description	QOM	UOM		
1	FCE103000	FC Idler Wheel	1	unit		
2	FCE105201-AR	Idler Side Plate A105 (Right)	1	unit		
3	FCE105201-AL	Idler Side Plate A105 (Left)	1	unit		
4	FCE103001-A (Right)	FCE Steering Guide (Right)	1	unit		
5	FCE103001-A (Left)	FCE Steering Guide (Left)	1	unit		
6	FC-A2004	Pillar	2	unit		
7	FC-A2005	Idler Wheel Shaft	1	unit		
8	FACS-25xL259	Drive Connecting Strip	2	unit		
9	6202ZZ	NTN Bearing	2	unit		
10	FAEC-IE	Idler End Cap	2	unit		



	Part No #	FCSD-A105					E	<u>lexMove®</u>
Susp	ended Drive		Doe	c No			Rev	1
	325							26 25 12 3 28 16 14 5 3 11 24
		(21)	(17)(19)(20) (15)	(23)(9)(2		2 (4) (1)
14	Part No #	FCSD-A105						lexMove
Item 1	Dwg No FCD103100-2	Description FCD Sprocket width 64mm	QOM 1	Qty	UOM unit	U/Price	Amount	Supplier
2	FCD105100-2	Drive side plate A105 (Right)			unit			
3	FCD105201-AL	Drive side plate A105 (Left)	1		unit			
	FCD103101-A (Right)	FCD Steering Guide (Right)	1		unit			
5	FCD103101-A (Left)	FCD Steering Guide (Left)	1		unit			
6	FCD103102-A (Right)	FCD Return Steering Guide (Right)	1		unit			
7	FCD103102-A (Left)	FCD Return Steering Guide (Left)	1		unit			
8	FC-A2004	Pillar	2		unit			
9	FC-A2007	Suspended drive shaft	1		unit			
10	FACS-25xL259	Drive Connecting Strip	2		unit			
	6205 LLU	NTN Bearing	2		unit			
	FAEC-DH	Drive End Cap	1		unit			
	FC-A2003R	Suspended drive side plate R	1		unit			
	FC-A2003L CP-A2001	Suspended drive side plate L Drive Safety Cover	1		unit unit			
	CP-A2001 CP-A2002	Slack Cover			unit			
	CP-A2002	Transmission Chain Cover			unit			
	CP1003-S37-3	Suspended Drive Motor Plate	2		unit			
	TL250-2	Torque Limiter	1		unit			
	RS08BX19T-41F	Transmission Sprocket-TL-250	1		unit			
21	RS08BX19T-20	Transmission Sprocket	1		unit			
	M8x54 Keyway	Keyway Steel	1		unit			
	M6x39 Keyway	Keyway Steel	1		unit			
24	MS EXT CIRCLIP-A25	External Circlip M.Steel	2		unit			
	FRS008B	RS08B FUJI CHAIN PP#R008B 10FT	1		unit			
<u> </u>								



Return Policy

Returns must have prior written factory authorization or they will not be accepted. Items that are returned to Dorner without authorization will not be credited nor returned to the original sender. When calling for authorization, please have the following information ready for the Dorner factory representative or your local distributor:

- 1. Name and address of customer.
- 2. Dorner part number(s) of item(s) being returned.
- 3. Reason for return.
- 4. Customer's original order number used when ordering the item(s).
- 5. Dorner or distributor invoice number (if available, part serial number).

A representative will discuss action to be taken on the returned items and provide a Returned Goods Authorization (RMA) number for reference. RMA will automatically close 30 days after being issued. To get credit, items must be new and undamaged. There will be a return charge on all items returned for credit, where Dorner was not at fault. It is the customer's responsibility to prevent damage during return shipping. Damaged or modified items will not be accepted. The customer is responsible for return freight.

					Product	Туре				
				Stand	ard Products	6			Engineered to order parts	
Product Line	Conveyors	Gearmotors & Mounting Packages	Support Stands	Accessories	Spare Parts (non-belt)	Spare Belts - Standard Flat Fabric	Spare Belts - Cleated & Specialty Fabric	Spare Belts - Plastic Chain	All equipment and parts	
1100						•				
2200										
2200 Modular Belt										
2200 Precision Move										
2300										
2300 Modular Belt										
3200		30% re	turn fee fo	or all products nveyors with r or specialty b	except:				case-by-case	
3200 LPZ		cle	ated belt	or specialty b	elts		non-ret	urnable		
3200 Precision Move										
4100										
5200										
5300										
6200										
Controls										
7200 / 7300		50%	6 return f	ee for all prod	ucts					
7350							•		•	
7360	1				non-retu	rnabla				
7400	1				non-retu	ITTADIE				
7600										

Returns will not be accepted after 60 days from original invoice date. The return charge covers inspection, cleaning, disassembly, disposal and reissuing of components to inventory. If a replacement is needed prior to evaluation of returned item, a purchase order must be issued. Credit (if any) is issued only after return and evaluation is complete.

Dorner has representatives throughout the world. Contact Dorner for the name of your local representative. Our Customer Service Team will gladly help with your questions on Dorner products.

For a copy of Dorner's Warranty, contact factory, distributor, service center or visit our website at www.dorner.com.

For replacement parts, contact an authorized Dorner Service Center or the factory.



Dorner Mfg. Corp. reserves the right to change or discontinue products without notice. All products and services are covered in accordance with our standard warranty. All rights reserved. © Dorner Mfg. Corp. 2015 DORNER MFG. CORP.

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