



MODULAR CONVEYORS FLEX INSTALLATION & MAINTENANCE GUIDE





ELCOM / FABER / TRANSEPT



one move ahead

/ Installation guide

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.

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 tools

To assembly 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)

/ Installation guide fasteners



Connecting Strip



Connecting strips are used for joining end to end of beams. Use Allen key and set screws when attaching the connecting strip to the beam.





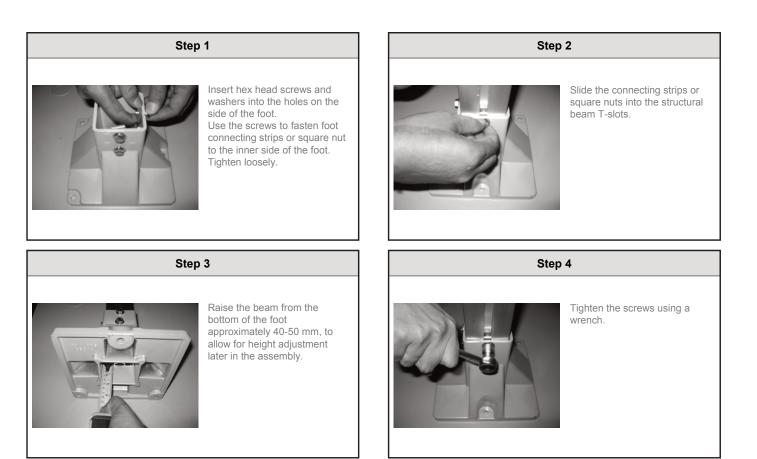
Square nut can be slotted into T-slot of FlexMove conveyor and support beams . They do not stay in place in vertical positions and have to be inserted from the end of beam. Remember to put in a sufficient number before completing the assembly.

T-bolt



T-bolts can be entered from the beam side, and when turned 90 degree they will stay in place after tightening with nuts and washers. The indication groove in the T-bolt should be at 90 degree to the conveyor T-slot. T-bolts are used when attaching support brackets, guide rails and drip trays to the conveyor beam. Do not use T-bolts with support beams!

/ 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 2

Vertical beam support brackets are used with vertical support beams and are made from aluminum.

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



Step 1

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 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.



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

cross-section of the beam.

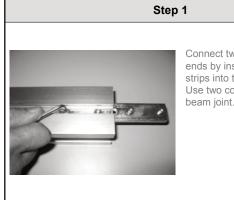
 Step 3

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

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.

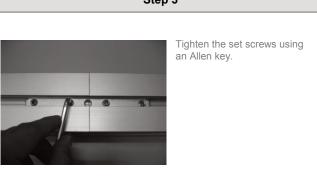
Conveyor Beam Installation

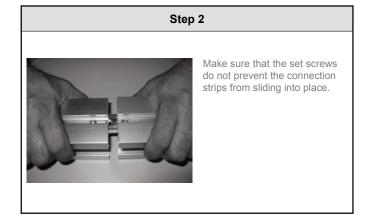
The next step is to connect conveyor beams 🗆 straight sections and bends 🗆 to each other. Connect all conveyor beams according to the instructions below.



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

Step 3



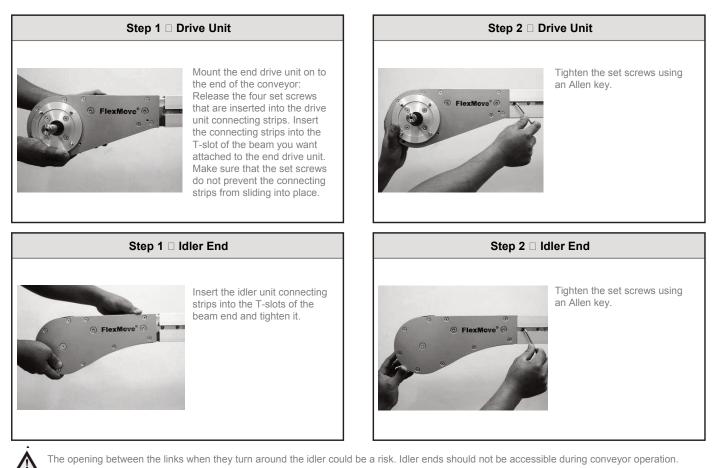


Step 4

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 & idler end unit installation



Attaching Slide Rail In Straight Beam



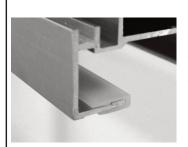
Start the slide rail assembly at an idler end unit. Separate the top and bottom flange of the slide rail at the end of rail and

Step 3



When using articulated beam, the slide rail must be mounted across the entire beam section. Remember to mount slide rails both top and underneath side of the beam. (unless top running chain only)

Step 2



Make sure the slide rail is proper mounted and snaps onto the beam. Please identify the longer flange of the slide rail must always face inner of the beam.

/ slide rail installation



Cut both slide rail ends in a 45 angle. The beginning of a new slide rail (in the direction of travel) must cut back a small angle.

Step 2



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

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.

L 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.



Do not place two slide rail joints opposite each other. Make sure there is a distance of at least 100 mm between them to make the chain run smoother.

This does not apply to slide rail that begins by an idler unit or after a drive unit, where 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

Step 3



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

Step 2 Out feed Wheel Bend (New Type A)



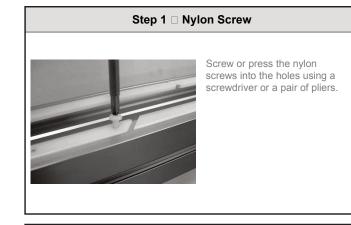
Follow Step 1.

/ drilling slide rail

Step 1 Step 2 Drill two holes near the beginning of each slide rail Use a bigger drill bit to deburr section. Use the drill fixture to and countersink the holes. ensure clean-cut holes and the Also make sure that there are correct location of the holes. no metal filings left underneath For drill bit radius, see table. the slide rail. The holes must be at the leading edge of the joint piece, in the direction of travel, to hold the slide rail in place when the conveyor is in use. Use a well sharpened 4.3mm drill-bit. The arrow indicates running direction.

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.



Step 2 Nylon Screw



Cut off the head of nylon screws by using soft hammer and knife. Remember, cut must be made away from the joint, in the direction of chain travel.

Step 3 Nylon Screw

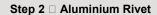


After cut, make sure the slide rail surface is smooth and the nylon screws do not protrude over the slide rail surface. File the protrude edge if uneven surface is found.

Step 1 Aluminium Rivet



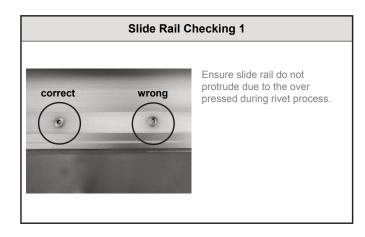
Insert the aluminium rivets into the holes.



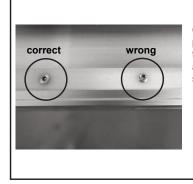


Clamp the aluminium rivet by using crimping pliers.

/ Checking slide rail after fixed

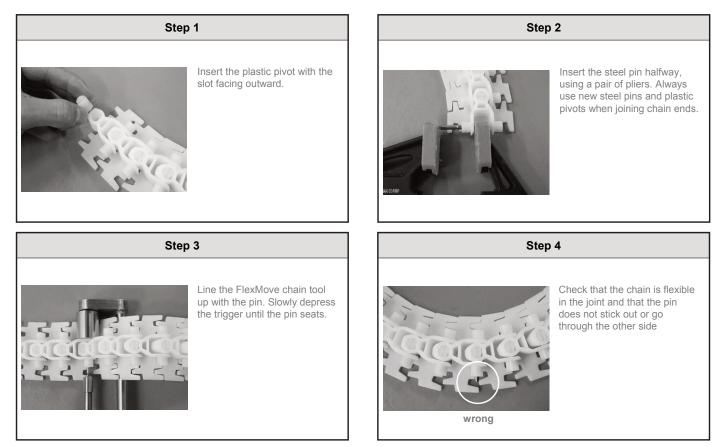


Slide Rail Checking 2

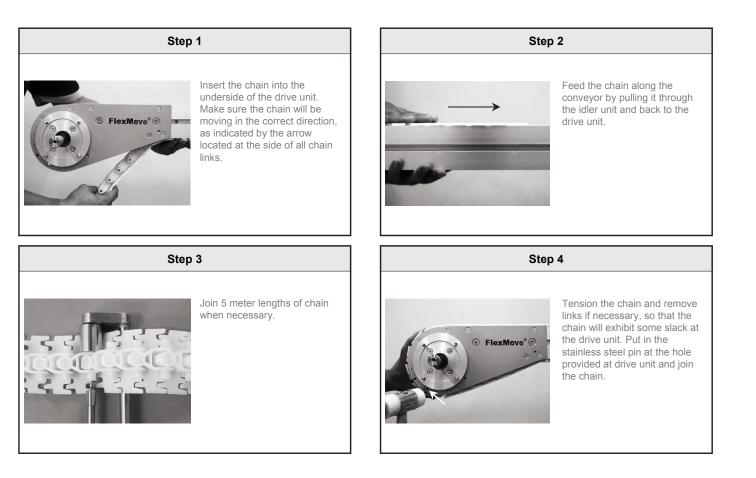


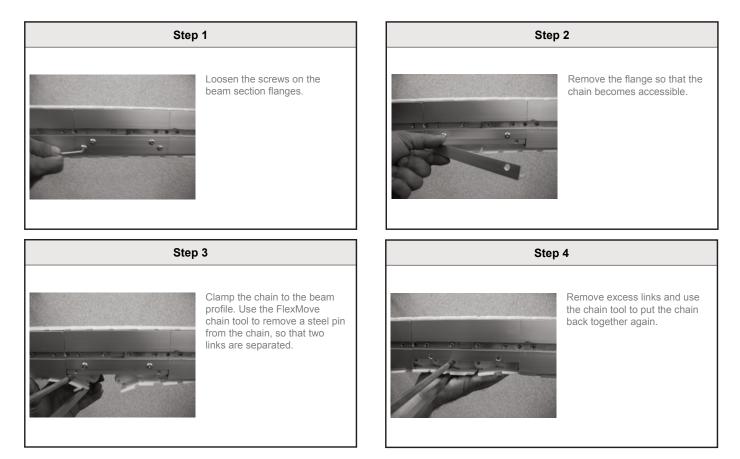
Check that the rivets do not protrude over the surface of the slide rail. Check both top and underneath surface of slide rail for protruding metal.

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



/ Chain installation





/ Length adjustment of the conveyor chain

End drive units, catenary drive units

- 1. Adjustment of the conveyor chain is carried out at the drive end of the conveyor.
- 2. The transmission guard cover must be removed from the drive unit and 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 aluminium profile can be removed by loosening the set screws in the beam connecting strips. The slide rail must be fitted to allow the removal of this section.

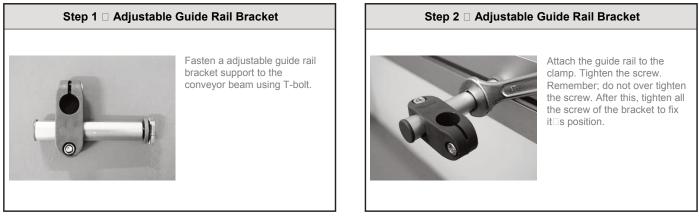
- 1. After removal of the outer aluminium profile, the conveyor chain can be pulled out of the wheel bend disc. Lift the chain upwards.
- 2. Remove chain links using the pin insertion tool.
- 3. New steel pins and plastic pivots must be used when rejoining chain ends.
- 4. The tensioned chain can now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

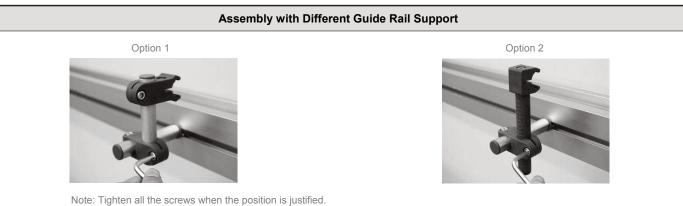
Guide Rail System Installation

Guide rails are used to guide products being conveyed, 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.

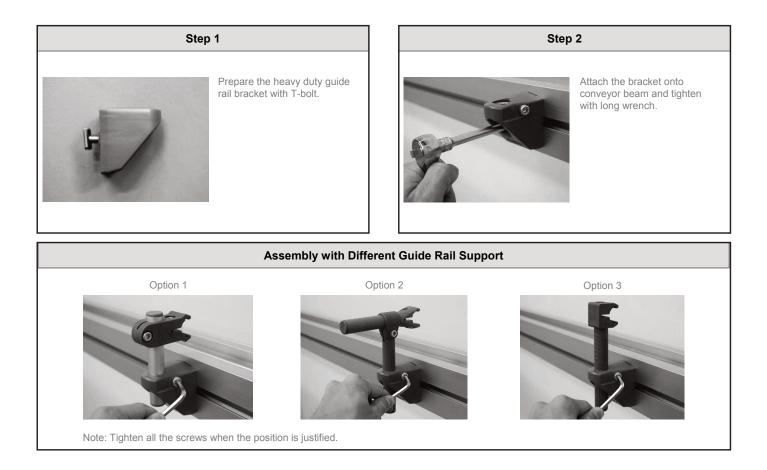
Brackets should be placed approximately 500 to 1000 mm apart depending on type of product and if accumulation occurs or not. If brackets are spaced at greater distances than 1000 mm, there is a possibility that guide rails will become deformed due to excessive force.

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.





/ FGRB-48x12V heavy duty guide rail bracket assembly



FGRB-48x12V Spacer Assembly



Attach the spacer onto FGRB-48x12V and prepare the bracket with T-bolt.



Step 2

Attach the bracket onto conveyor beam and tighten with long wrench.

/ FGRB supports



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

Step 2 - Method 1



Attach the bracket onto conveyor beam and tighten with long wrench.

Option 1

Note: Tighten all the screws when the position is justified. Remember to assemble the upper and lower caps onto the bracket



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

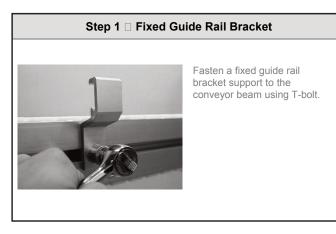
Step 2 Method 2

Option 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





/ Guide rail connecting installation

Step 3
Rail Connecting



First, fully slot the guide rail sleeve into either one of the guide rail profile that you are going to join.

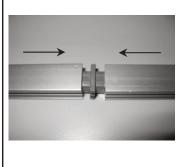


Now, align these 2 profiles closely in parallel.

Step 1 Connecting Plug

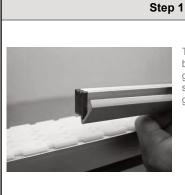


Finally, move the guide rail sleeve into second profile. Tighten when the location is justified.



Connecting plugs are pressed into two guide rail ends with soft hammer.

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.
- A 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.
- U When two or more pieces of equipment are interfaced, special attention must be given to the interfaced area to ensure proper afeguarding.
- □ For overhead equipment, guards must be provided if products may fall off the equipment for some reason. The same applies to al 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

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

8

Name of parts

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

Torque Limiter Manual

- 1.Assembly
- 2.Machining accuracy on center member 3.Run-in
- 4. Torque setting

5. Tightening method for adjustable nut and bolts

- 6.Replacing the friction facing
- 7. Maintenance and precaution

Assembly of Torque Limiter

Wipe off oil, rust and dirt from each part before assembling your Torque Limiter. Then, assemble as follows. Note that all units are assembled with a sint 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 th 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 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 th 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 manu 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 facin 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, cor US.
- This manual is an essential part of the unit, and it should remain with the unit at all times including when redistributed.

Start-up and Maintenance Schedule

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

The chain running on the right direction is very important. The chain top and bottom is like 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 accumulation
- Sharp or rough products
- Chemicals
- Foreign particles, e.g. chips, grinding particles, broken
- glass, sand, sugar
- Temperature
- Plain bends

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

Chain Elongation

Acetal resin is an elastic material. In addition to the elastic elongation, the chain will exhibit elongation because of material creeping. The magnitude of chain elongation will depend on the chain tension. The chain elongation will show up at the bottom of the drive unit. Too much of the chain slack may cause high wear at the drive unit entry point. Chain slack of up to 150mm is a 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 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.

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.

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.

 $\hfill\square$ 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.

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.

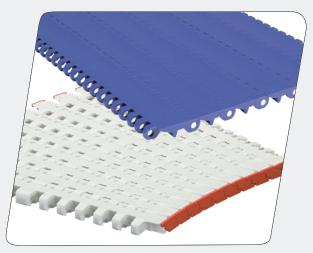
Troubleshooting

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.

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