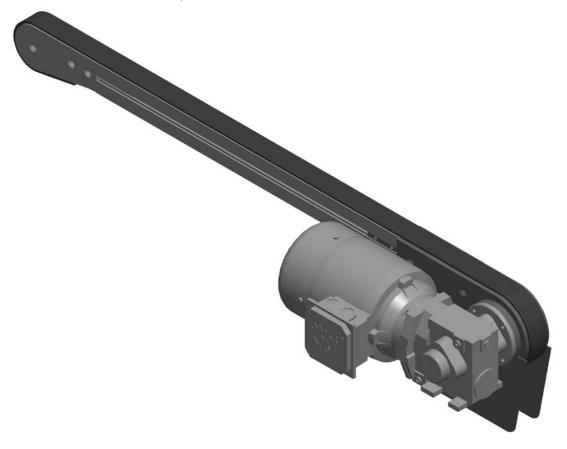




FlexMove FK (45 mm) **Conveyor System**

Installation, Maintenance & Parts Manual



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Record Convevor Serial Number Here

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Introduction

IMPORTANT

Some illustrations may show guards removed. DO NOT operate equipment without guards.

Upon receipt of shipment:

- Compare shipment with packing slip. Contact factory regarding discrepancies.
- Inspect packages for shipping damage. Contact carrier regarding damage.
- Accessories may be shipped loose. See accessory instructions for installation.

Dorner's Limited Warranty applies.

Dorner has convenient, pre-configured kits of Key Service Parts for all conveyor products. These time saving kits are easy to order, designed for fast installation, and guarantee you will have what you need when you need it. Key Parts and Kits are marked in the Service Parts section of this manual with the Performance Parts Kits logo

Dorner reserves the right to make changes at any time without notice or obligation.

Warnings – General Safety

A WARNING

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

A DANGER



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

A DANGER



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.

Product Description

Refer to Figure 1 for typical components.

- 1 Infeed Module
- 2 Curve Module
- 3 Incline Module
- 4 Decline Module
- 5 Intermediate Module
- 6 Drive Module
- 7 Gearmotor
- 8 Stands

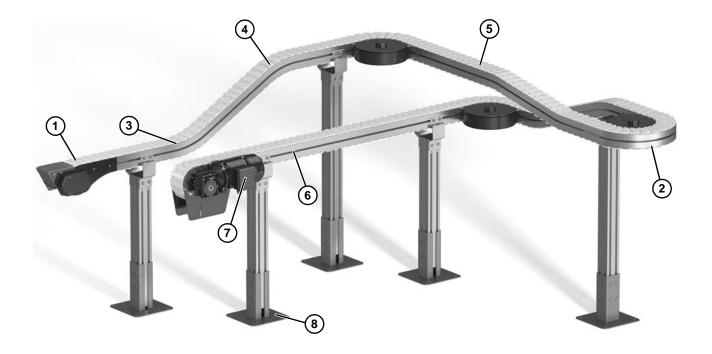


Figure 1

Specifications

Conveyor Supports:

Maximum Distances:

1 = 914 mm (36")

2 = 3000 mm (118")*

3 = 914 mm (36")

* For conveyors longer than 3000 mm (118"), install support at joint.

Note: Additional support required on 180° curve modules.

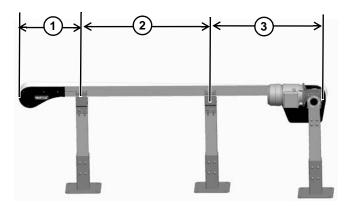


Figure 2

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, FL, FU and FV.

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 are well prepared in advance, following the 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 be safe guarded. Cleat conveyor chain is more susceptible of creating pinch and shear points than plain chain.

When two or more pieces of equipment are interfaced, special attention must be given to the interfaced area to ensure proper safeguarding.

For overhead conveyors, guards must be provided if products fall off the conveyor for some reason. The same applies to all incline, decline and vertical conveyors.

Considerations

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

End Drive Unit

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

Idler Unit

The opening between links (when they turn around idler) could be a potential 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, the following items can be used as a checklist:

- Cut all beams to desired length.
- · Connect all feet and structural beams.
- · Mount conveyor beam support brackets.
- Assembly conveyor beams and mount 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 a short piece chain.
- Assemble and mount necessary chain onto 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 assemble a FlexMove Conveyor, you may need most of the tools listed on the following page. Not all are essential, but they will make your work easier and efficient.

Hand Tools

- Wrench
- · Slide rail cutter
- Set of metric hex keys
- Counter sink bit
- · Drill fixtures for slide rail
- Riveting tool
- In addition, the tools listed below can be useful:
 - Files
 - Socket wrench
 - Screwdriver
 - Pliers
 - Knife (burr of slide rail)
 - Flush cutting pliers
 - Soft head hammer
 - Chain tools (for chain installation and dismantle)
 - Level

Power Tools

- · Hand drill
- Drill bit (for fixing slide rail)

Fasteners

Standard Fasteners

Standard Fasteners (Figure 3):

- M8 = Washer, Countersink Cap Screw, Nut, Lock Nut
- M6 = Washer, Countersink Cap Screw, Nut, Lock Nut



Figure 3

Square Nut

Square nuts (**Figure 4**) can be slid 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.



Figure 4

Spring Nuts

Spring nuts (**Figure 5**) can be inserted into the T-slot of FlexMove conveyors and support beams. They do not stay in place in vertical positions.



Figure 5

Connecting Strip

Connecting strips (**Figure 6**) are used for joining end to end of beams. Use hex key and set screws when attaching the connecting strip to the beam.

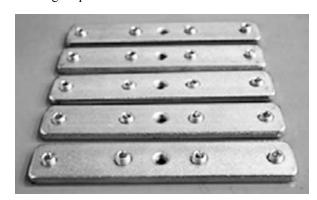


Figure 6

T-Bolt

T-bolts (Figure 7) can be entered from the beam side, and when turned 90 degrees they will stay in place after tightening with lock nuts. Use lock nuts to facilitate T-bolt turning in slot. The indication groove in the T-bolt should be at 90 degrees to the conveyor T-slot. T-bolts are used when attaching support brackets, guide rails and drip trays to the conveyor beam. T-bolts should not be used when fine adjustment for exact positioning is required (use square nuts or spring nuts for this type of application). Do not use T-bolts with support beams.



Figure 7

Pre installation Information

Cutting FlexMove Beam

Cutting is required for all 3m beams, including a precise cut to 3m lengths. 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 saw circulating at high speed for a clean cut. The saw should have the ability of cutting the largest profile in one single cutting action.

A WARNING

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

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.

Assembly

The basic FlexMove conveyor structure consists of five component groups (See (Figure 8) and (Figure 9)):

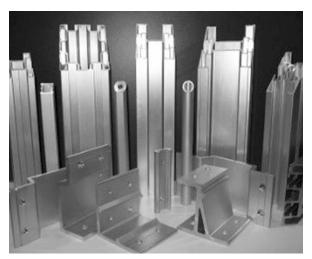


Figure 8



Figure 9

- · 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

1. Insert hex head screws and washers (Figure 10, item 1) into the holes on the side of the foot. Use the screws to fasten foot connecting strips to the inner side of the foot. Leave loose.

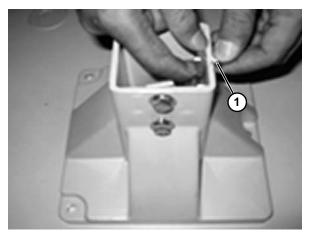


Figure 10

2. Slide the connecting strips (**Figure 11, item 1**) into the structural beam T-slots.

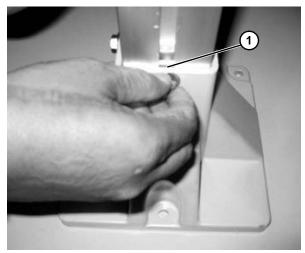


Figure 11

3. Raise the beam from the bottom of the foot approximately 40-50 mm (Figure 12, item 1), to allow for height adjustment later in the assembly.

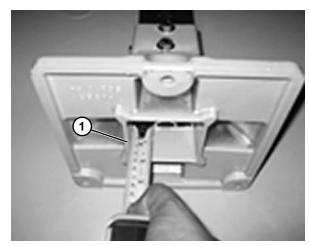


Figure 12

4. Tighten the screws using a wrench (Figure 13, item 1).

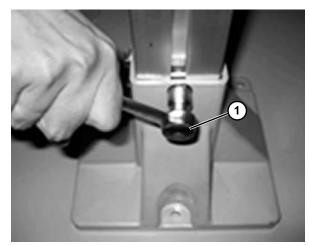


Figure 13

Conveyor Installation

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

Option 1

Horizontal beam support brackets (60mm or 80mm) (**Figure 14, item 1**) are used for horizontal support structure mounted to 64x64mm or 80x80mm support beams.

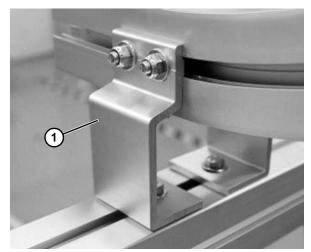


Figure 14

Option 2

Vertical beam support brackets (Figure 15, item 1) are used with vertical support beams and are made from aluminum.

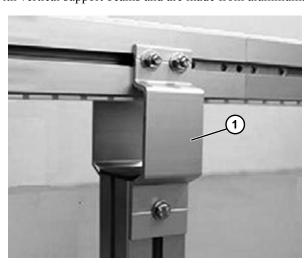


Figure 15

Option 3

Dual side mounting brackets (Figure 16, item 1) are used to support 180° wheel corners.

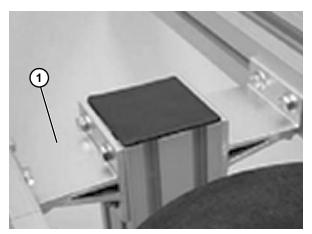


Figure 16

Mounting Conveyor Beam Support Bracket

1. Attach screws, nuts and washers to the support bracket (Figure 17, item 1) 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 (Figure 17, item 2) as shown in the drawing.

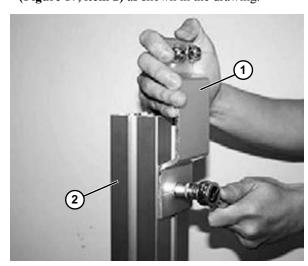


Figure 17

2. Insert the square nuts of the second support bracket (Figure 18, item 1) into the support beam T-slots. Slide the bracket down so that it does not protrude above the cross-section of the beam.

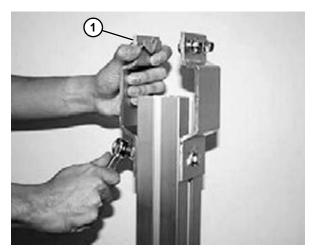


Figure 18

3. Use a soft hammer or mallet to mount an end cap (Figure 19, item 1) on to the support beam.

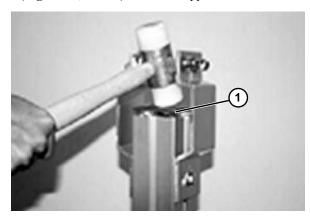


Figure 19

4. Mount the first support bracket (**Figure 20, item 1**) to the conveyor beam (**Figure 20, item 1**). Pull the second bracket up and insert the T-bolts into the conveyor beam T-slot. Tighten the nuts.

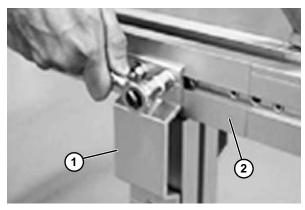


Figure 20

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.

1. Connect two conveyor beam ends by inserting connecting strips (**Figure 21, item 1**) into the beam inner T-slots. Use two connecting strips per beam joint.

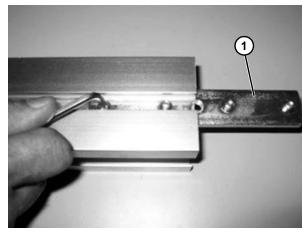


Figure 21

2. Make sure that the set screws (**Figure 22**, **item 1**) do not prevent the connection strips from sliding into place.

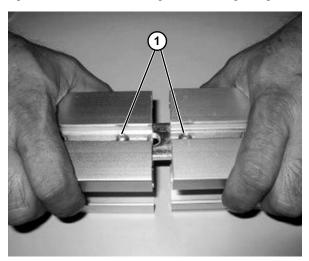


Figure 22

3. Tighten the set screws using a hex key (Figure 23, item 1).

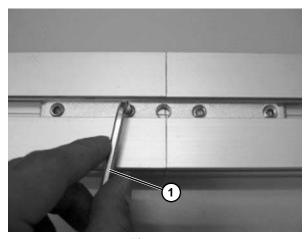


Figure 23

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

Drive End

 Mount the end drive unit (Figure 24, item 1) on to the end of the conveyor: Release the four set screws that are inserted into the drive unit connecting strips. Insert the connecting strips into the T-slot of the beam you want attached to the end drive unit. Make sure that the set screws do not prevent the connecting strips from sliding into place.

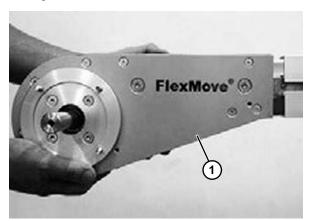


Figure 24

2. Tighten the set screws using a hex key (Figure 25, item 1).



Figure 25

Drive Tail Support Brackets

Attach the drive tail support brackets (Figure 26, item 1) to the slot (Figure 26, item 2) in the drive tail with the T-bolts and hex nuts. The brackets should be located closest to the frame (Figure 26, item 3).

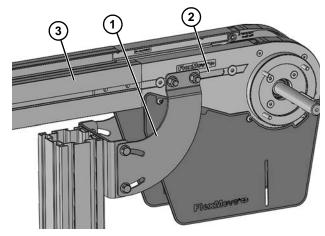


Figure 26

Idler End

1. Insert the idler unit (**Figure 27**, **item 1**) connecting strips into the T-slots of the beam end and tighten it.

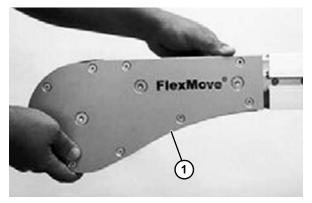


Figure 27

2. Tighten the set screws using a hex key (Figure 28, item 1).



Figure 28

A CAUTION

The opening between the links when they turn around the idler could be a risk. Idler ends should not be accessible during conveyor operation.

Attaching Slide Rail in Straight Beam

1. Start the slide rail assembly at an idler end unit (Figure 29, item 1). Separate the top and bottom flange of the slide rail at the end of rail and press into place.

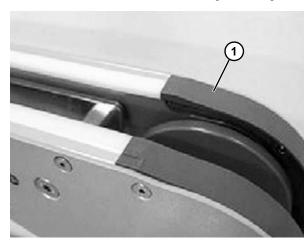


Figure 29

2. Make sure the slide rail (**Figure 30, item 1**) is properly mounted and snaps onto the beam. The longer flange of the slide rail must always face inside of the beam (See **Figure 31**).

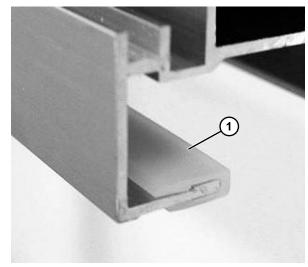
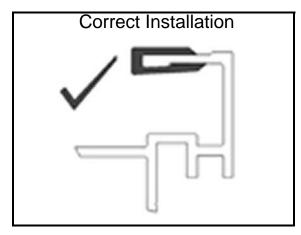


Figure 30



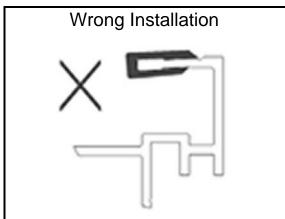


Figure 31

3. The slide rail (**Figure 32**, **item 1**) must be mounted across the entire beam section. Remember to mount slide rails on both top and bottom side of the beam (unless top running chain only).

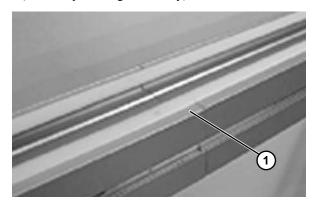


Figure 32

Slide Rail End Installation at Connector Beam

1. Cut both slide rail ends at a 35° angle. The beginning of a new slide rail (in the direction of travel) must cut back at a small angle (Figure 33, item 1).

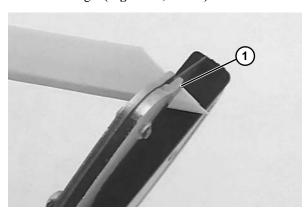


Figure 33

 Allow a space of approximately 10 mm (Figure 34, item 1) between two slide rail ends. The travel direction is indicated by an arrow.

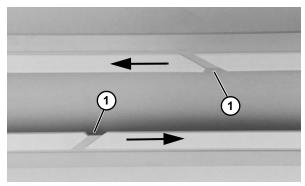


Figure 34

3. Do not place two slide rail joints (Figure 35, item 1) opposite each other. Make sure there is a distance of at least 100 mm (Figure 35, item 2) 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.

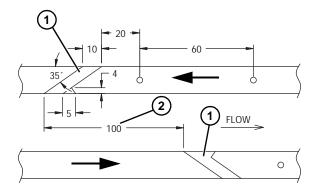


Figure 35

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 (78-3/4"–118") 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 and horizontal bends (see following page), at idler units and where the conveyor will be heavily loaded. This prevents the slide rail from stretching out and entering into the drive unit, which may block the chain movement.
- Never join slide rail in horizontal or vertical bends, since forces are higher on the slide rail in these sections. Instead, place the joint before the bend.
- Avoid joining slide rails on top of conveyor beam joints.

Slide Rail Installation at Wheel Bend

1. **Infeed Wheel Bend:** Cut the slide rail end **(Figure 36, item 1)** in flat. Make sure there is a 5 mm gap created at the plastic molding part. The step is applied onto outfeed as well.

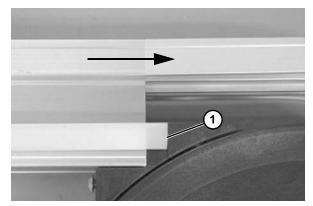


Figure 36

2. **Outfeed Wheel Bend:** Follow step 1.

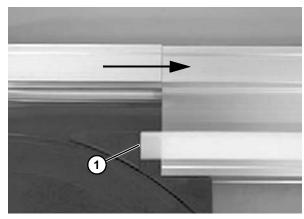


Figure 37

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



Figure 38

Slide Rail Installation at Horizontal Plain Bends and Vertical Bend

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

Drilling Slide Rail

1. Drill two holes near the beginning of each slide rail section. Use the drill fixture (Figure 39, item 1) to ensure clean-cut holes and the correct location of the holes. 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 1/8", #31, or 3.2mm drill bit.

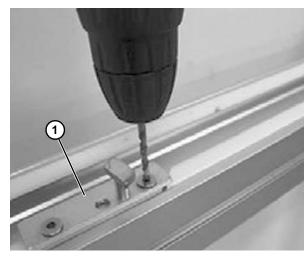


Figure 39

Use a bigger drill bit or countersink bit (Figure 40, item 1) to deburr and countersink the holes. Also make sure that there are no metal filings left underneath the slide rail.

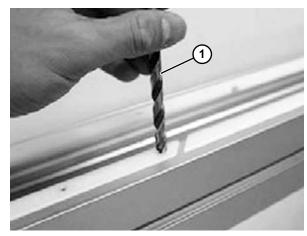


Figure 40

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. A slide rail which moves into a wheel bend or a drive unit can block the chain completely. The riveting method is more secure if the conveyor will run with high operational speed or be heavily loaded.

Nylon Screw

1. Insert the nylon screws (Figure 41, item 1) into the holes using a hex driver until the screw is flush with the bottom of the slide rail.

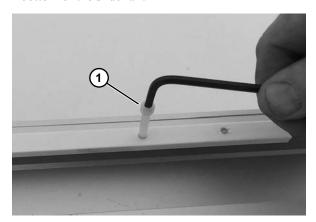


Figure 41

 Cut off the head of nylon screws by using flush cutting pliers (Figure 42, item 1) or soft hammer and knife (Figure 43, item 1). Remember, the cut must be made away from the joint, in the direction of chain travel.

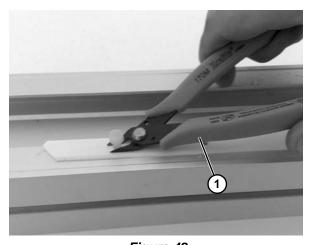


Figure 42



Figure 43

3. After the cut, make sure the slide rail surface is smooth and the nylon screws do not protrude over the slide rail surface. Use a file (**Figure 44**, **item 1**) to file off the protruding edge if uneven surface is found.

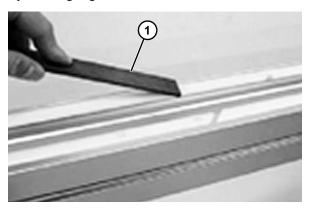


Figure 44

NOTE

Nylon screws can be used multiple times before being discarded. Ensure bottom of screw is cut square before re-using.

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.

1. Insert the plastic pivot (**Figure 45**, **item 1**) with the slot facing outward.

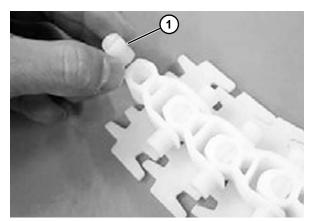


Figure 45

2. Insert the steel pin (**Figure 46, item 1**) halfway, using a pair of pliers. Always use new steel pins and plastic pivots when joining chain ends.

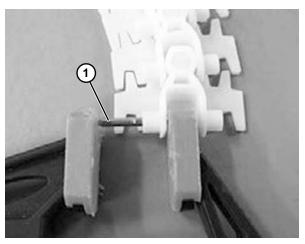


Figure 46

3. Line the FlexMove chain tool (Figure 47, item 1) up with the pin (Figure 47, item 2). Slowly depress the trigger until the pin seats. A slight detent will be felt when pin is seated.

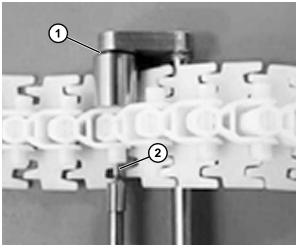


Figure 47

4. Check that the chain is flexible in the joint and that the pin does not stick out or go through the other side (Figure 48, item 1).

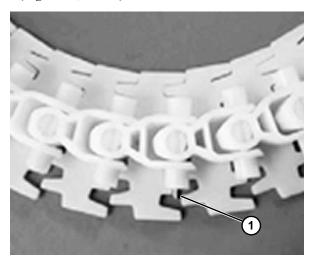


Figure 48

Chain Installation at Drive Unit

1. Insert the chain (Figure 49, item 1) into the underside of the drive unit (Figure 49, item 2). Make sure the chain will be moving in the correct direction, as indicated by the arrow (Figure 50, item 1) located at the side of all chain links.

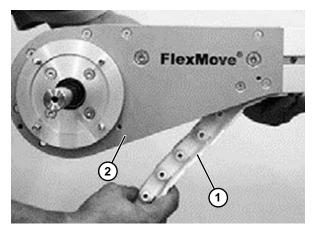


Figure 49

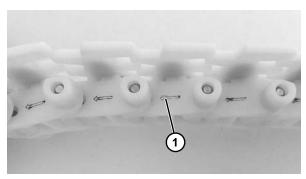


Figure 50

2. Feed the chain along the conveyor (Figure 51, item 1) by pulling it through the idler unit and back to the drive unit.

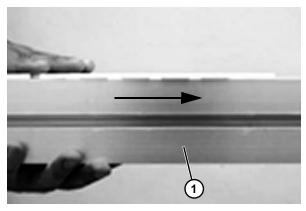


Figure 51

3. Join 5 meter lengths of chain when necessary. (See **Figure 52**.)

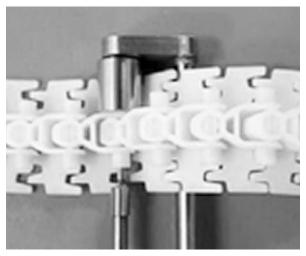


Figure 52

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 (**Figure 53, item 1**) at the hole provided at drive unit and join the chain.

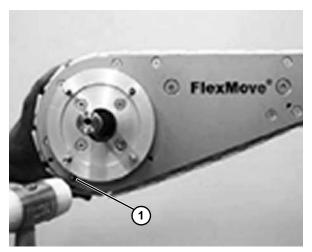


Figure 53

Chain Assembly at Chain Disconnecting Module FKCC

1. Loosen the screws **(Figure 54, item 1)** on the beam section flanges.

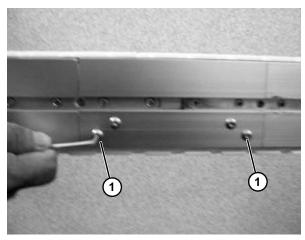


Figure 54

2. Remove the flange (**Figure 55**, **item 1**) so that the chain becomes accessible.

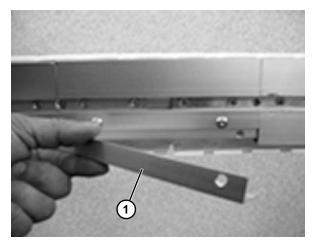


Figure 55

3. Clamp the chain (Figure 56, item 1) to the beam profile. Use the FlexMove chain tool (Figure 56, item 2) to remove a steel pin from the chain, so that two links are separated.

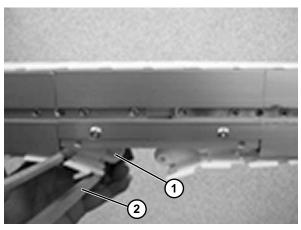


Figure 56

4. Remove excess links and use the chain tool (Figure 57, item 1) to put the chain back together again.

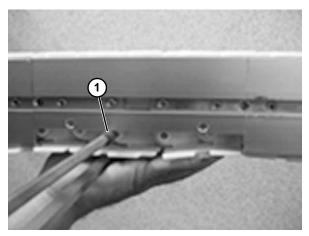


Figure 57

Install Guiding

All guiding must be located and installed by the end user.

Length Adjustment of the Conveyor Chain

End Drive Units and Catenary Drive Units

- 1. The conveyor chain is carried out at the drive end of the conveyor.
- 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.
- 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 on 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.
- 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 and Horizontal Bend Drive Unit

- 1. Conveyors which have no conveyor chain slack should be assembled with a special section of conveyor beam (FKCC), which allows for the chain to be easily inserted and adjusted for tension. (See "Chain Assembly at Chain Disconnecting Module FKCC" on page 21.)
- 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.

- 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.

High Side Guiding

1. Install stud (Figure 58, item 1) onto retaining clip (Figure 58, item 2) with nut (Figure 58, item 3).

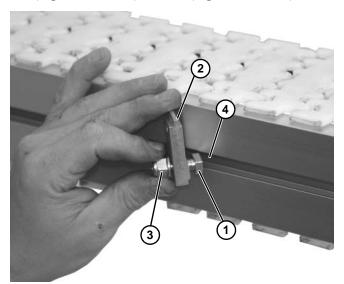


Figure 58

2. Install stud (**Figure 58, item 1**) into side rail channel (**Figure 58, item 4**). The end clips should be no greater than 12" from end of the conveyor.

3. Fasten retaining clip (Figure 59, item 1) to conveyor with nut (Figure 59, item 2) on stud.

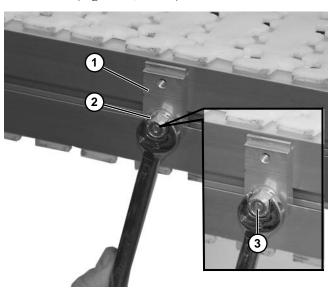


Figure 59

NOTE

Be certain that slot (Figure 59, item 3) is close to vertical when finished tightening nut.

- 4. Tighten nuts (Figure 59, item 2).
- 5. Install guide (Figure 60, item 1) and retaining clip (Figure 60, item 2) to conveyor side rail with socket head screw (Figure 60, item 3).

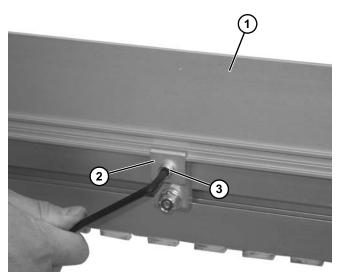


Figure 60

Heavy Duty Fully Adjustable Guiding

1. Install guide bracket assembly (Figure 61, item 1) into the conveyor T-slot (Figure 61, item 2).

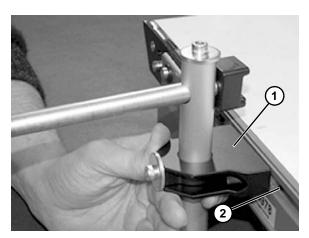


Figure 61

2. Tighten screws (Figure 62, item 1) making sure T-nut (Figure 62, item 2) rotates and engages inside of the T-slot.

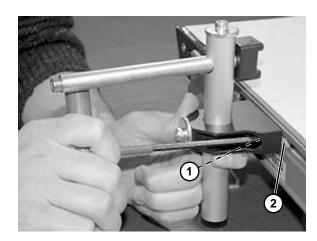


Figure 62

3. Loosen screw (Figure 63, item 1) on end of shaft (Figure 63, item 2) to remove clip (Figure 64, item 1).

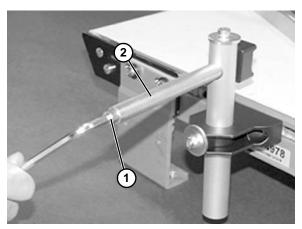


Figure 63

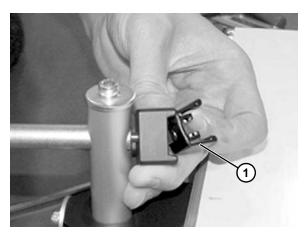


Figure 64

4. Snap clip (Figure 65, item 1) onto guide rail (Figure 65, item 2).

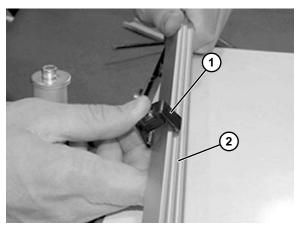


Figure 65

 Reassemble clip (Figure 66, item 1) and attach to shaft (Figure 66, item 2). Tighten screw (Figure 63, item 1) on end of shaft.

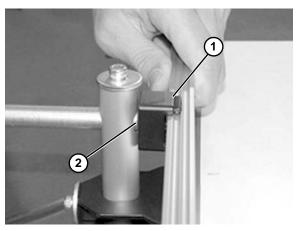


Figure 66

6. Adjust rail width with top screw (Figure 67, item 1).

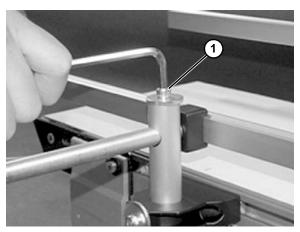


Figure 67

7. Adjust rail height with lower screw (Figure 68, item 1).

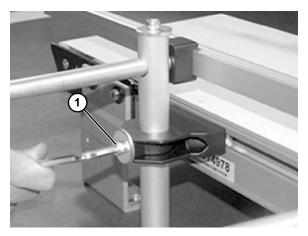


Figure 68

Puck/Pallet Guiding

1. Install clip assembly (Figure 69, item 1) into side rail channel (Figure 69, item 2). The end clips should be no greater than 12" from the end of the conveyor.

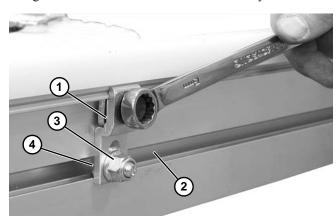


Figure 69

NOTE

Make sure that the studs (Figure 69, item 4) rotate inside the channel and engage with the conveyor.

- 2. Fasten clip (Figure 69, item 1) to conveyor with nut (Figure 69, item 3) on stud.
- 3. Tighten nuts (Figure 70, item 1).

NOTE

Be certain that slot (Figure 70, item 2) is close to vertical when finished tightening nut.

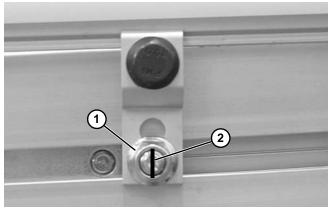


Figure 70

4. Attach slide rail (**Figure 71**, **item 1**) to guiding (**Figure 71**, **item 2**).

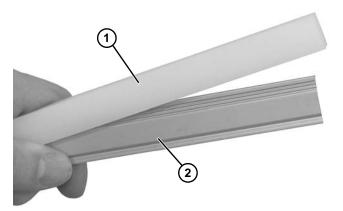


Figure 71

NOTE

If guide length is less than 250 mm (10"), pin plastic guide to rail using slide rail screw and cutting flush.

5. Attach guiding (Figure 72, item 1) to clip (Figure 72, item 2) and tighten screw (Figure 72, item 3).

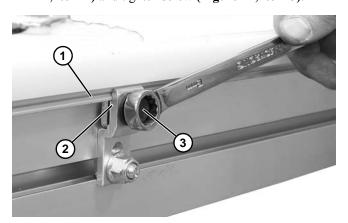


Figure 72

Adjustable Guide Rail Bracket

1. Fasten an adjustable guide rail bracket support (Figure 73, item 1) to the conveyor beam using T-bolt (Figure 73, item 2).

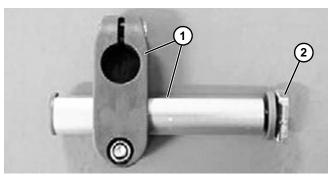


Figure 73

2. Attach the guide rail (Figure 74, item 1) to the clamp (Figure 74, item 2). Tighten the screw (Figure 74, item 3). Remember, do not over tighten the screw.

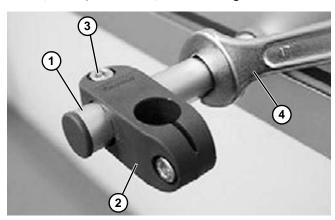


Figure 74

3. Use a wrench (**Figure 74**, **item 4**) to tighten the guide rail to the frame. Remember, do not over tighten the screw. Install remaining brackets.

Assembly with Different Guide Rail Support

Option 1



Figure 75

Option 2



Figure 76

NOTE

Tighten the screws when the position is justified.

FGRF- 42x18V Guide Rail Bracket Assembly

1. Prepare the heavy-duty guide rail bracket (Figure 77, item 1) with T-bolt (Figure 77, item 2).

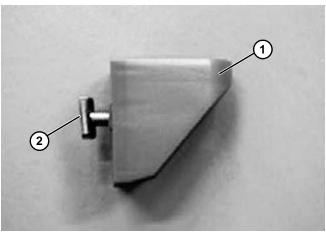


Figure 77

2. Attach the bracket onto conveyor beam and tighten with a socket wrench (Figure 78, item 1).

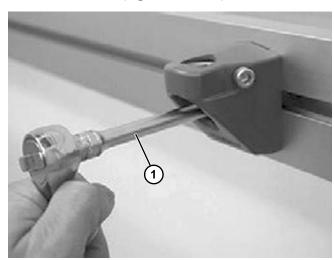


Figure 78

Assembly with Different Guide Rail Support

Option 1



Figure 79

Option 2



Figure 80

Option 3

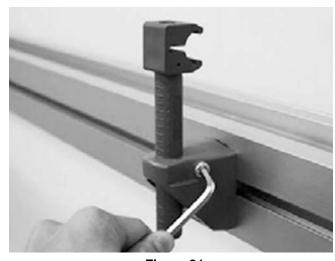


Figure 81

FGRF- 42x18V Spacer Assembly

1. Attach the spacer (Figure 82, item 1) onto FGRF- 42x18V (Figure 82, item 2) and install correct length T-bolt (Figure 82, item 3).

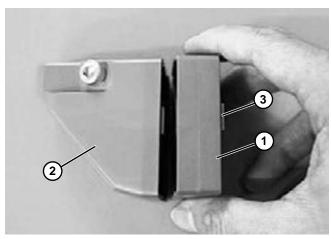


Figure 82

2. Attach the bracket onto conveyor beam and tighten with a socket wrench (Figure 83, item 1).

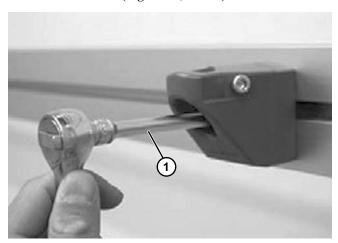


Figure 83

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

Method 1

1. Open the upper and lower caps (Figure 84, item 1) on FGRB - 40 guide rail bracket (Figure 84, item 2), and install T-bolt.

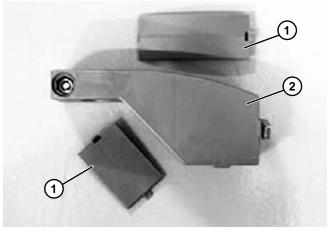


Figure 84

2. Attach the bracket onto conveyor beam and tighten with a socket wrench (**Figure 85**, **item 1**). Install upper and lower caps.

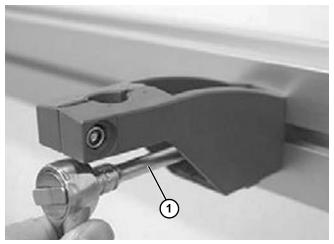


Figure 85

Assembly with Different Guide Rail Support

Option 1

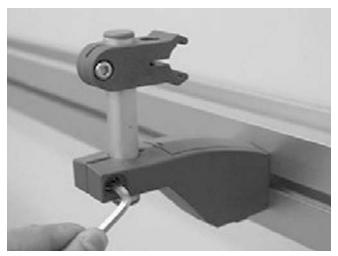


Figure 86

Option 2



Figure 87

NOTE

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

Method 2

Open the upper and lower caps (Figure 88, item 1) and prepare the FGRB - 40 guide rail bracket (Figure 88, item 2) with T-bolt.

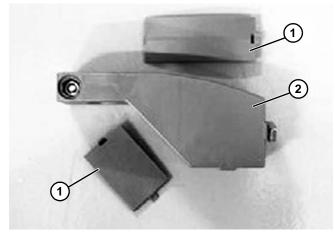


Figure 88

2. Attach the bracket onto conveyor beam and tighten with a socket wrench. Install both caps of the bracket.



Figure 89

Fixed Guide Rail Bracket Installation

1. Fasten a fixed guide rail bracket support (Figure 90, item 1) to the conveyor beam using T-bolt.

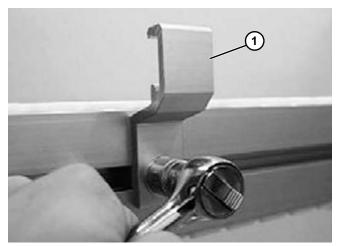


Figure 90

2. Attach the guide rail (Figure 91, item 1) to the bracket (Figure 91, item 2). Clamp the spring pin into the slot between bracket and guide rail to the fixed position.

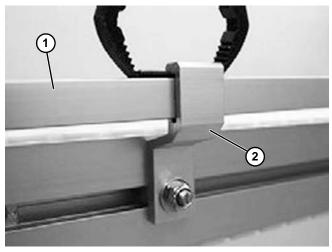


Figure 91

Guide Rail Connecting Installation

Rail Connecting

1. Slide the guide rail sleeve (**Figure 92**, **item 1**) into either one of the guide rail profile that you are going to join.



Figure 92

2. Move the guide rail sleeve into second profile. Tighten set screws.

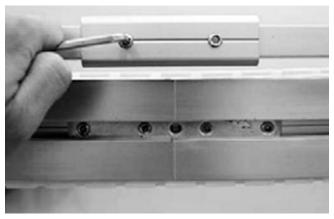


Figure 93

Connecting Plug

1. Connecting plugs (Figure 94, item 1) are pressed into two guide rail ends with soft hammer.

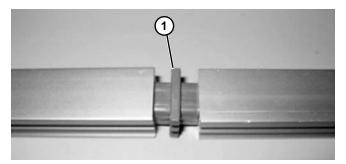


Figure 94

Guide Rail Cover Installation

1. To prevent products from being scratched, a plastic guide rail cover (**Figure 95, item 1**) can be snapped on to the inside of the guide rail.

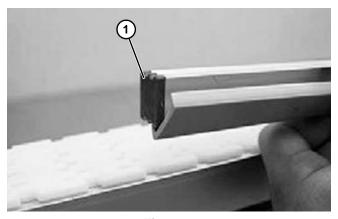


Figure 95

2. Make sure that all cover joints (**Figure 96**, **item 1**) are smooth, so that products do not get caught or damaged. Covers are not required on guide rail joints.

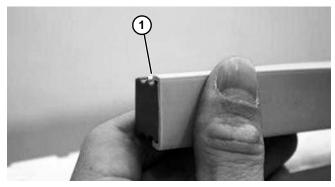


Figure 96

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 is recommended 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.
- 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!
- Tighten the slip clutch to a suitable friction.
- Make sure that all chain and belt covers are attached correctly.
- In pallet installations, make sure that all pneumatic equipment is properly connected.

NOTE

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 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.

A WARNING

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 for Suspended Drive Units

Introduction

The slip clutch on the drive unit is a safety device which allows the chain to stop if the load becomes excessive. It has two purposes:

- Prevent damage to conveyor
- Prevent damage to the products on the conveyor (See Figure 97.)

Name of Parts

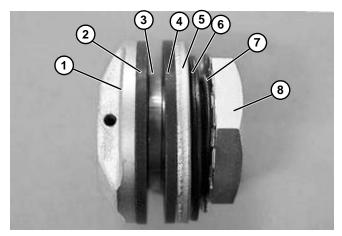


Figure 97

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

Torque Setting

NOTE

It may be easier to adjust torque limiter off of conveyor to adequately secure inner race with shaft locked in a vise while turning adjusting nut.

Tighten adjusting nut hand tight (approximately ½ turn after first making contact). Mark nut flat closest to keyway. Continue to tighten to specified rotation to achieve desired torque:

Rotation Angle	Slip Torque	Chain Pull
30 Degrees	13 Nm	203 N
60 Degrees	21 Nm	328 N
90 Degrees	29 Nm	453 N
110 Degrees	33 Nm	500 N

Once adjusted nut is tightened to desired rotation, bend locking tabs down against nut flats in at least 2 locations.

Replace the Friction Facing

Change the friction facing when they reach roughly half the thickness of 1.6 mm (0.063 in.). Before replacing the friction facing, each part must be completely free of oil, rust and dirt.

Maintenance and Precautions after the Replacement Procedure

Replace the friction facing and bushing if they wear.

Keep the torque limiter free from water and oil. If torque limiter slips, re-adjust as necessary.

Safety

▲ WARNING

- Before carrying out maintenance, make sure there is no load or turning force applied to the machine.
- Inspect operation periodically for overloads.

A CAUTION

 Mechanical parts may wear depending on the rotation speed and slipping time. Check the operation periodically.

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, pin bending, 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.

It is important for the chain to run in the correct direction. The chain is marked with direction of travel by an arrow on the side of the chain. Over tensioning the chain can cause chain failure. Signs of over tensioning and overloading are broken links or bent link pins. On catenary drive units it is important that there is visible chain slack on the bottom of the drive units when running.

Chain Lubrication

Lubrication of the chain where it meets the slide rails and inside by the pin and pivot location can reduce friction - allowing the chain to run more smoothly, quietly, and last longer. Spray silicon with TeflonTM is the recommended lubrication, and can be applied at the drive tail to the inside of the chain through the slot in the catenary drive tails or gravity take-up units.

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.

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. Unless a weighted take-up is used, 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 (5.9 in.) 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. For this case, the chain slack should be shortened much earlier. In a normal case, chain should be shortened after run-in time of 40 hours. The next inspection should be made after 200 hours of running and then every 1600 hours. More frequent inspections are recommended if the conveyor is long and has high load.

The chain should never be so tight that there is no slack during the operation. 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 (See Figure 98).

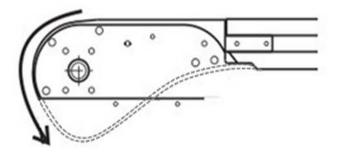


Figure 98

 The conveyor chain does not need to show any slack when the conveyor chain is stationary or when a weighted takeup is used.

Inspection

Visually check the slide rail in horizontal and vertical bends after every 200 hours of 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 of operation. Check for any worn out slide rail and any other unusual conditions and make necessary replacement. Clean up any dirt accumulation in the conveyor beam, especially before any plain bends, wheel bends, drive unit, and idler end.

Drive Unit

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

Maintenance Schedule

Maintenance is recommended to be carried 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, 6th Month, and Every 6th Month Following

- Shorten the chain, if required.
- Visually inspect the condition of the slide rail, sprocket, wheel, and chain guides.
- Check any high wear part on the conveyor, and replace when necessary.
- Clean up any foreign accumulation that might block the smooth flow of the conveyor.
- Check the gearbox oil level and top off when necessary.
- Check all support structures, slide guides, and conveyor ioints for looseness. Replace when necessary.

Checking Slide Rail with the Conveyor Chain in Place

The slide rail needs to be checked after every 200 hours of operation. Check on a stationary state with the chain in place. **Figure 99** shows the correct configuration of joints.

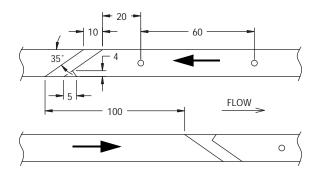


Figure 99

- Check the screwing points on the slide rail.
- Check the joints section on the slide rail.
- Check that the gap (Figure 100, item 1) between the slide rails and that the joints fit correctly.

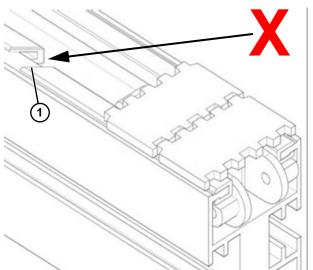


Figure 100

- Check that the nylon screw is in place and does not protrude over the surface of the slide rail.
- Check that the joint sections are not deformed.

Checks When the Chain is Removed

The slide rail needs to be checked once a year or after 1500 hours of operation. The chain should be removed from the conveyor beam for checking the slide rail. Check carefully on the condition of wear and the screws.

Horizontal Bends

Horizontal bends need to be checked carefully after every 200 hours of operation.

Check the inner slide rail in horizontal bends carefully, since the friction here is particularly high. The conveyor chain develops more pressure on the inner slide rail compared to the outer slide rail.

- Check the slide rail for scratches and notches.
- Replace the slide rail and the screws, if necessary.
- Clean the conveyor chain and check the condition of the chains.
- · Clean the conveyor beam.

Safety Devices

Safety devices should be checked at regular intervals.

• Check the motor cover for the suspended drive (See **Figure 101**).



Figure 101

- This motor cover must always be in place when the conveyor is operating.
- The drive unit should always have a chain cover to protect the safety of the users. The chain slack can be seen when 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 (Figure 102).



Figure 102

 Check that the chain cover is in place for the conveyor chain on the intermediate drive units and the catenary drive units.

Troubleshooting

Symptom	Cause	Corrective Action
Jerky running	Damage or badly fitted slide rail.	Inspect and replace as necessary.
	Incorrectly adjusted slip clutch.	Adjust slip clutch.
	Worn transmission parts.	Check/replace transmission chain, chain drive sprocket.
	Conveyor chain is too tight or	 Lubricate chain with silicone spray with Teflon[™].
	loose. • Dirty conveyor.	Tension conveyor chain correctly.
		Clean conveyor chain/slide rail.
		Add weighted take-up.
Drive unit is running; conveyor	Incorrectly adjusted slip clutch.	Check adjustment of slip clutch.
chain is not running	Friction discs in slip clutch are	Check and replace if necessary.
	worn or contaminated.	Check the free running of the conveyor chain.
	Damage/badly fitted slide rail.	Check and fit.
	 Transmission products are not fit- ted. 	
Motor overheating on drive unit	Overloaded conveyor.	Remove products from conveyor and test run.
	Gearbox leaking oil.Dirty conveyor.	Check actual conveyor load against recommended loading. If possible, add breaks to add more drives.
		Check output shaft seal and area around motor/gearbox interface.
		Clean the conveyor chain with warm water.
Noise	Noise • Worn or damaged bearings in drive	Check/replace drive unit.
unit. • Damage/badly fitted slide rail.	Check the free running of the conveyor chain, especially in slide rail joints.	
	Excessive conveyor speed.	Check actual load against recommended loading.
	Incorrect conveyor chain tension.	 Lubricate chain with silicone spray with Teflon[™].
		Lengthen or shorten conveyor chain.
Abnormal wear of plastic parts	Overloaded conveyor.	Remove products from conveyor and test run.
	Ambient temperature too high.	Check the free running of the conveyor chain.
Foreign object dropped or veyor chain.	Foreign object dropped on the conveyor chain.	Check actual conveyor load against recommended loading. If possible, add breaks the conveyor and add more drives.
		Check against recommended temperature for conveyor.
		Replace the broken section of chain.
Clutch Ratcheting or slipping	Excessive or accumulated load.	Avoid load buildup by running conveyor continuously.
	Improper ratchet clutch tensioning.	Do not manually surge load conveyor.
	Damaged or missing chain assem-	Refer to ratchet clutch adjustment in Maintenance.
	bly parts.	Review belt and repair or replace as required.
	 Accumulation of conveyed material or foreign objects inside of casing. 	Remove chain and clean out.

Required Tools

- 3/32" hex wrench
- 3 mm hex wrench
- 4 mm hex wrench
- 5 mm hex wrench
- 6 mm hex wrench
- 8 mm hex wrench
- 10 mm wrench
- 13 mm wrench
- 16 mm wrench
- · Chain Removal Tool
- · Slide Rail Cutter
- · Drill Fixtures for Slide Rails
- · Riveting Tool

Conveyor Chain Replacement



SEVERE HAZARD!

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

Replacing a Section or Entire Chain

1. Use chain removal tool or a punch and hammer to push the chain rod (Figure 103, item 1) out.

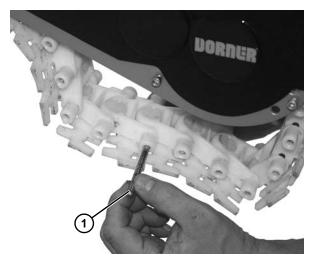


Figure 103

A WARNING



SEVERE HAZARD!

If conveyor chain is damaged or worn, replace chain section.

2. Replace old section of chain.

A CAUTION

DO NOT reuse chain rods that are damaged, bent, or show signs of wear.

NOTE

Drive spindle shaft assembly replacement is recommended with belt replacement (see "Drive Spindle Shaft Replacement" on page 39).

Conveyor Chain Tensioning

WARNING



SEVERE HAZARD!

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

NOTE

Belt should not be stretched during installation. A proper length of belt can be installed by interlocking the ends by hand without excess links.

 Remove one or more chain links to take up tension. Refer to "Replacing a Section or Entire Chain" on page 37.

NOTE

After shortening chain, ensure there is visible slack in chain (while running) at catenary drive tails. If chain is not visible in cover slot (Figure 104, item 1) inspect from end.

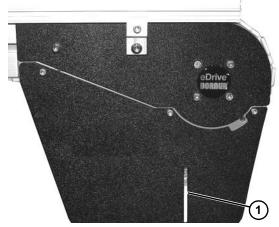


Figure 104

Slide Rail Replacement

Replace the slide rails if they become worn.

NOTE

Top and bottom slide rails are shipped pinned/attached at various places on conveyor.

- Remove belt. See "Conveyor Chain Replacement" on page 37.
- 2. Drill out or push out drilled pinned screws or rivets (Figure 105, item 1).
- 3. Remove slide rail (**Figure 105**, **item 2**) from top of frame assembly.



Figure 105

- 4. Cut and remove worn slide rail section and replace with new slide rail. See "Installation" section, starting on page 15.
- 5. Remove lower slide rails, as needed, repeat procedure used for upper slide rails.
- 6. Install new slide rails. See "Installation" section, starting on page 15.

Idler Pulley Replacement



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

1. Remove chain. See "Conveyor Chain Replacement" on page 37.

2. Remove three flat head screws (Figure 106, item 1).

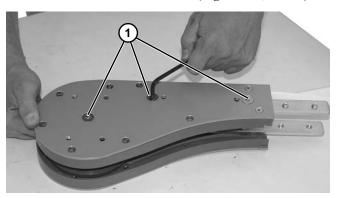


Figure 106

3. Remove the head plate (**Figure 107, item 1**) from the idler end

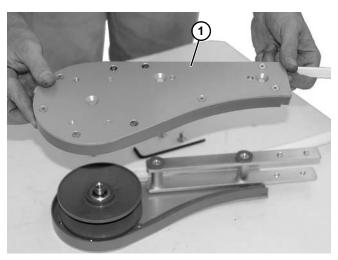


Figure 107

4. Remove flat head screw (Figure 108, item 1) and remove idler pulley (Figure 108, item 2) from idler head plate assembly.

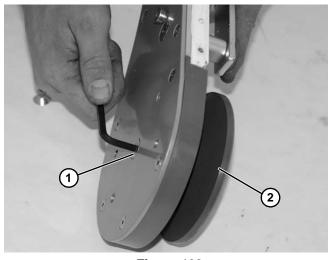


Figure 108

5. Install components reverse of removal.

Drive Spindle Shaft Replacement

A WARNING



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

- 1. Remove chain. See "Conveyor Chain Replacement" on page 37.
- 2. Remove the gearmotor.
- Loosen two screws (Figure 109, item 1) on each side of conveyor, and remove the drive tail assembly (Figure 109, item 2) from the conveyor frame (Figure 109, item 3).

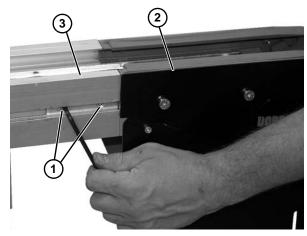


Figure 109

4. Remove four screws (**Figure 110, item 1**) on side of drive spindle.

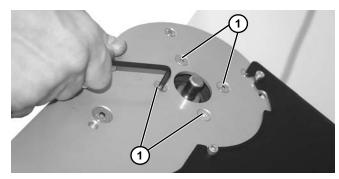


Figure 110

5. Remove two screws (Figure 111, item 1) on side of drive spindle.

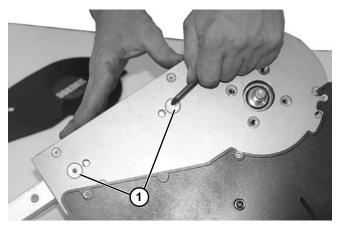


Figure 111

6. Use the bearing tool (Figure 112, item 1) to unseat bearings by inserting the four screws and turning the threaded rod (Figure 112, item 2) to push bearing out. NOTE: Insert the longer screws (Figure 112, item 3) on the drive shaft side and the shorter screws (Figure 113, item 1) on the non-shaft side.

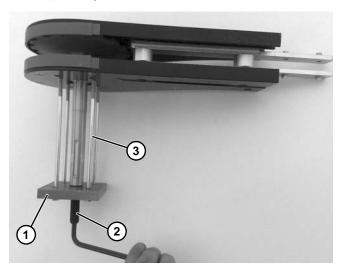


Figure 112

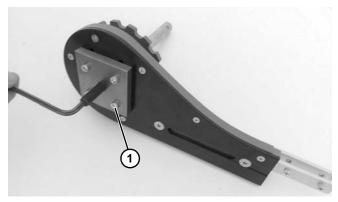


Figure 113

7. Remove the head plates (**Figure 114, item 1**) from the drive tail.

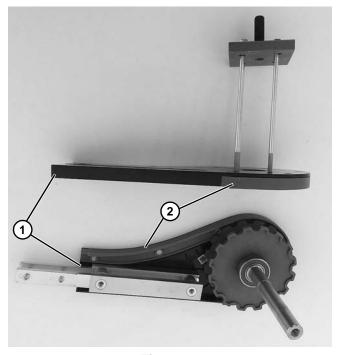


Figure 114

8. Install components reverse of removal.

Retaining Guide Replacement

Cantenary Drive End

1. Remove three socket head screws (Figure 115, item 1) and remove drive plate guard (Figure 115, item 2) from drive plate (Figure 115, item 3).

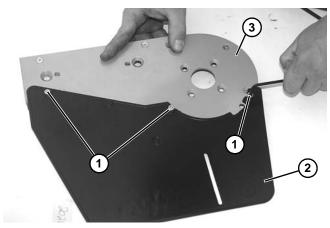


Figure 115

2. Remove two socket head screws (Figure 116, item 1).

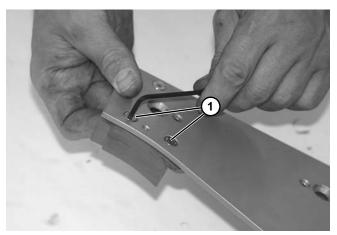


Figure 116

3. Remove lower retaining guide (Figure 117, item 1) from drive plate (Figure 117, item 2).

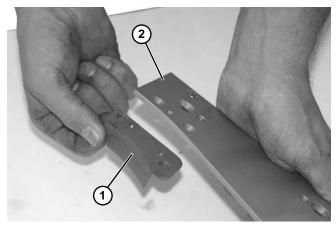


Figure 117

4. Remove three socket head screws (Figure 118, item 1).

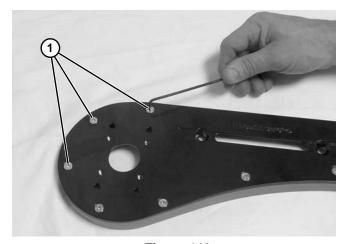


Figure 118

5. Remove upper retaining guide (Figure 119, item 1) from drive plate (Figure 119, item 2).



Figure 119

6. Install components reverse of removal.

Idler End and GP Drive Tail

1. Remove seven (7) socket head screws (Figure 120, item 1) from idler head plate assembly.

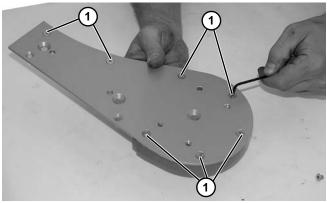


Figure 120

 Remove retaining guide (Figure 121, item 1) from idler head plate assembly (Figure 121, item 2). Replace components, as needed.

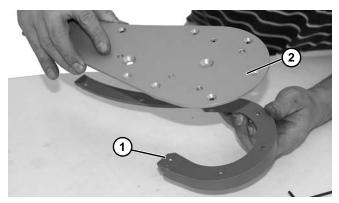


Figure 121

3. Install components reverse of removal.

Wheel Bend Servicing

A WARNING



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

1. Remove screw (Figure 123, item 1) on both sides of guard cover (Figure 123, item 2). Remove guard cover.

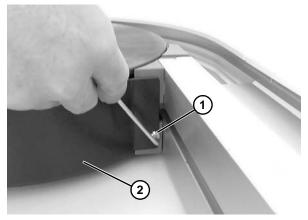


Figure 122

2. Remove screws (Figure 123, item 1) from wheel guide (Figure 123, item 2).

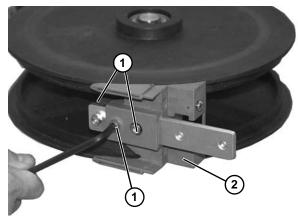


Figure 123

- 3. Replace wheel guide.
- 4. Install components reverse of removal.

Power Transfer

Removal

 Remove two socket head screws (Figure 124, item 1) and cover (Figure 124, item 2) from power transfer assembly.

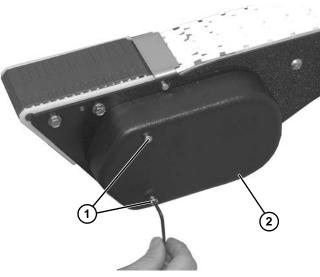


Figure 124

2. Loosen two socket head screws (Figure 125, item 1) holding tensioning pulley (Figure 125, item 2) onto timing belt (Figure 125, item 3).

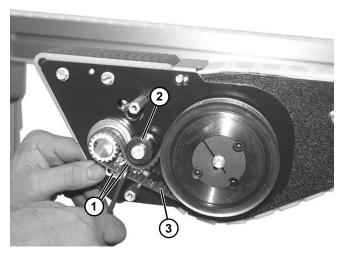


Figure 125

3. Remove timing belt (**Figure 125, item 3**) from assembly.

4. Loosen idler socket head screw (Figure 126, item 1) on both sides of the conveyor.

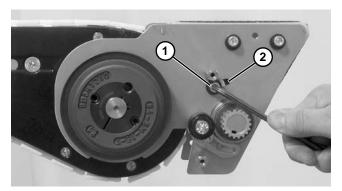


Figure 126

- 5. Slide idler assembly within slot (**Figure 126, item 2**) to remove tension on belt.
- 6. Remove two socket head screws (Figure 127, item 1) and pinch guard (Figure 127, item 2).

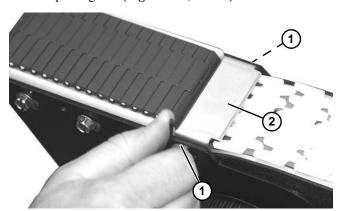


Figure 127

7. Lift slightly on belt (Figure 128, item 1) and push pin (Figure 128, item 2) out of belt.

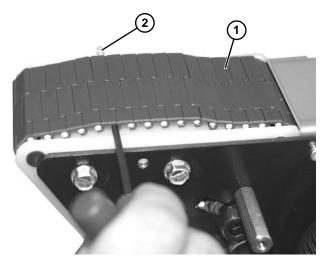


Figure 128

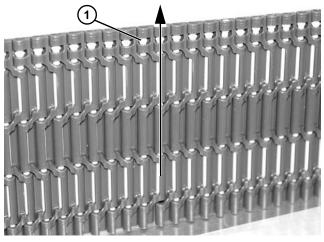


Figure 129

NOTE

Note that head of pin (Figure 129, item 1) should be removed in direction shown.

- 8. Remove belt.
- 9. Remove four socket head screws (Figure 130, item 1) holding wear bar assembly (Figure 130, item 2) onto power transfer.

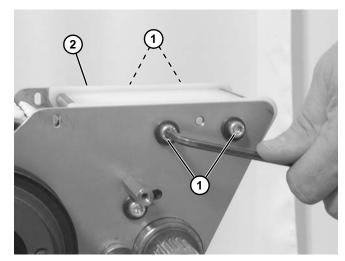


Figure 130

10. Remove wear bar assembly **(Figure 131, item 1)** from power transfer.

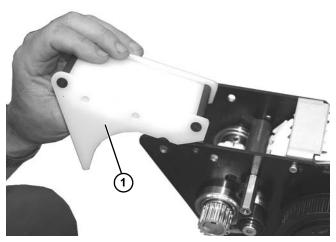


Figure 131

11. Disassemble side guide plates (Figure 132, item 1), wear rods (Figure 132, item 2), and wear bar (Figure 132, item 3). Replace worn components.

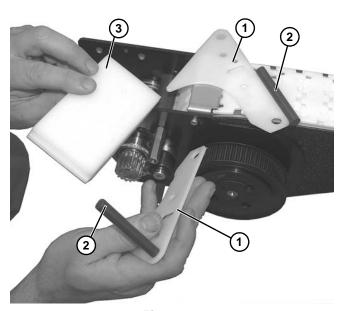


Figure 132

12. Remove socket head screw (Figure 133, item 1) on both sides of the conveyor and remove idler assembly.

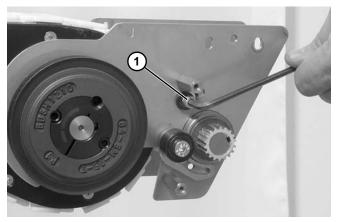


Figure 133

- 13. Replace idler assembly (if worn), and install socket head screws to secure.
- 14. Loosen two set screws (Figure 134, item 1) on two bearings (Figure 134, item 2).

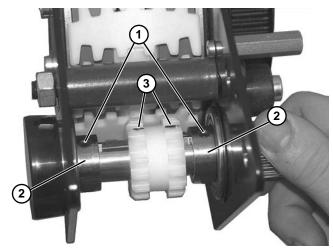


Figure 134

- 15. Loosen sprocket set screws (Figure 134, item 3).
- 16. Remove drive shaft (Figure 135, item 1), making certain not to loose key (Figure 135, item 2) when removing gear (Figure 135, item 3).

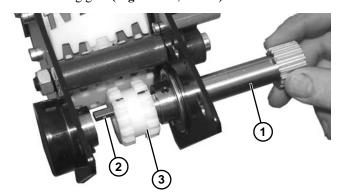


Figure 135

17. Remove key (Figure 136, item 1) from sprocket (Figure 136, item 2).

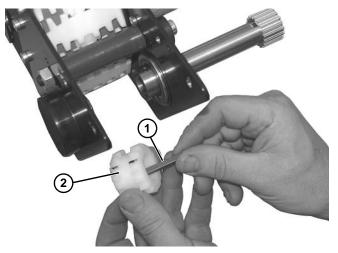


Figure 136

18. Replace worn drive sprockets and bearings.

Installation

1. Install drive shaft (**Figure 137, item 1**) on two bearings (**Figure 137, item 2**) and press outward as shown.

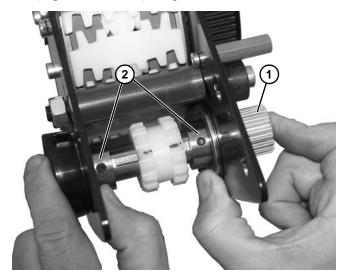


Figure 137

2. Secure drive shaft onto bearings with two set screws (Figure 138, item 1).

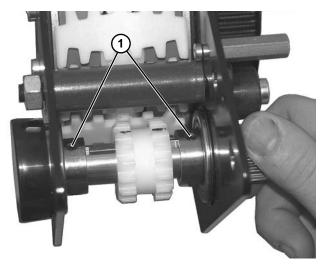


Figure 138

3. Raise belt (Figure 139, item 1) into position, and move gear (Figure 139, item 2) so that cogs line up with belt, as shown.



Figure 139

Dorner Mfg. Corp.

4. Tighten sprocket with set screws (Figure 139, item 3) in proper alignment with belt (Figure 139, item 1).

5. Install wear bar assembly (Figure 140, item 1) with four socket head screws (Figure 140, item 2).

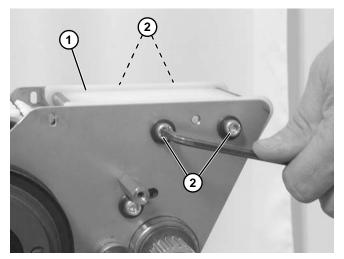


Figure 140

6. Guide belt (Figure 141, item 1) through idler assembly with belt routing under gear (Figure 141, item 2) and over wear tube (Figure 141, item 3).

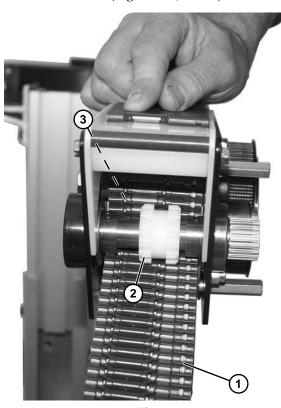


Figure 141

7. Bring ends of belt together and install pin (Figure 142, item 1).

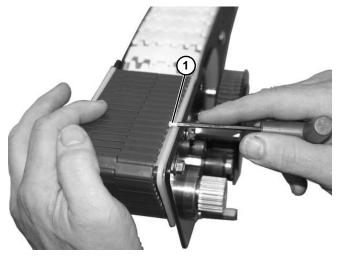


Figure 142

8. Install pinch guard (Figure 143, item 1) with two socket head screws (Figure 143, item 2).

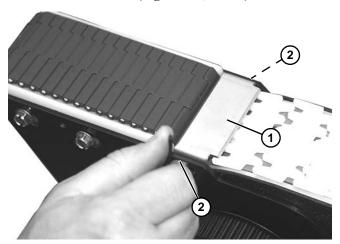


Figure 143

Slide idler assembly within slot (Figure 144, item 1) only enough to remove excess slack from belt (Figure 144, item 2). Tighten socket head screws (Figure 144, item 3).

A CAUTION

DO NOT overtighten belt or excessive wear will occur.

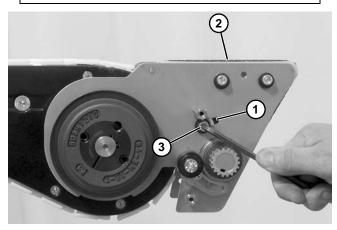


Figure 144

 Rotate drive shaft (Figure 145, item 1) to verify tightness of belt (Figure 145, item 2). Belt should turn freely. Loosen idler socket head screw (Figure 145, item 3) and adjust, if necessary.

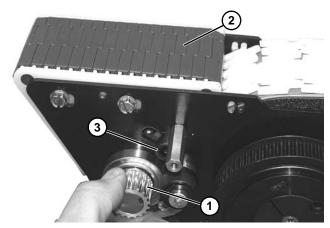


Figure 145

11. Install timing belt:

• On idler end, route and install belt (Figure 146, item 1) as shown. Press up on tensioner (Figure 146, item 2) and tighten two socket head screws (Figure 146, item 3).

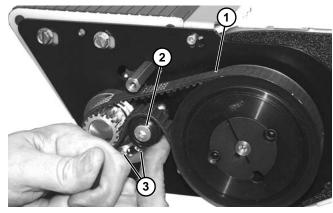


Figure 146

• On drive end, route and install belt (Figure 147, item 1) as shown. Press down on tensioner (Figure 147, item 2) and tighten two socket head screws (Figure 147, item 3)

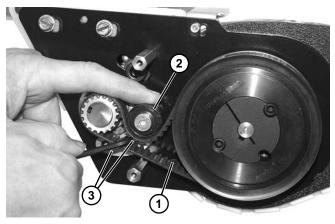
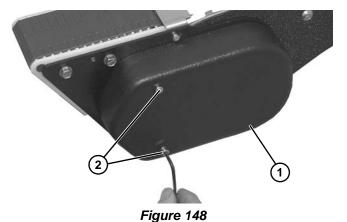


Figure 147

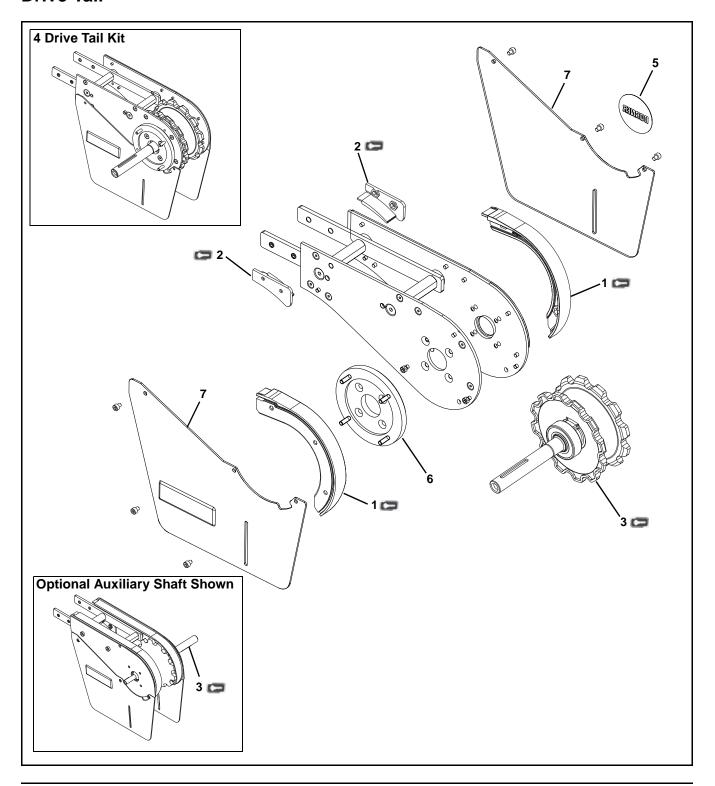
12. Install cover (Figure 148, item 1) with two socket head screws (Figure 148, item 2).



NOTE

For replacement parts other than those shown in this section, contact an authorized Dorner distributor or Dorner directly. Recommended Critical Service Parts and Kits are identified by the Key Service Parts symbol . Dorner recommends keeping these parts on hand.

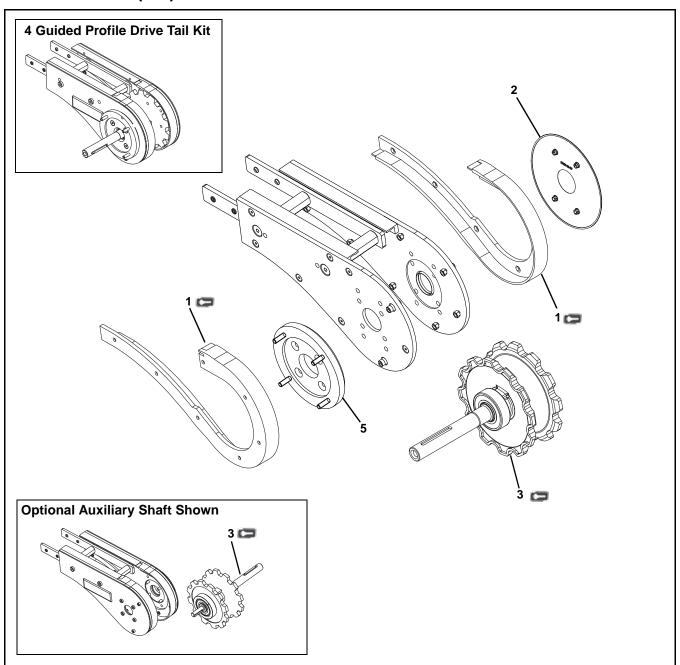
Drive Tail



Item	Part Number	Description
1	FSD63101-A-FK	Retaining Guide Set (Pair)
		, ,
2	FSD63102-A-FK	Belt Capture Guide Set (Pair)
3	205700-EN-045	Standard Load E-Drive 3/4" Spindle
		Shaft Assembly
	205700-EA-045	Standard Load E-Drive 3/4" Spindle
		Shaft Assembly with Auxiliary Shaft
	205700-FN-045	Standard Load 20 mm Spindle Shaft
		Assembly
	205700-FA-045	Standard Load 20 mm Spindle Shaft
		Assembly with Auxiliary Shaft
	205700-AN-045	Auxiliary Spindle Shaft Assembly
	205700-AA-045	Dual Auxiliary Spindle Shaft
		Assembly

Item	Part Number	Description
4	FKDD-A45-EL	Standard Load E-Drive 3/4" Drive
		Tail Kit with Shaft in the 'A' Position
	FKDD-A45-ER	Standard Load E-Drive 3/4" Drive
		Tail Kit with Shaft in the 'D' Position
	FKDD-A45-ELA	Standard Load E-Drive 3/4" Drive Tail Kit with Shaft in the 'A' Position
		and Auxiliary Shaft
	FKDD-A45-ERA	Standard Load E-Drive 3/4" Drive
		Tail Kit with Shaft in the 'D' Position and Auxiliary Shaft
	FKDD-A45PT-EL	Standard Load E-Drive 3/4" Drive
		Tail Kit with Shaft in the 'A' Position and Power Transfer
	FKDD-A45PT-ER	Standard Load E-Drive 3/4" Drive
		Tail Kit with Shaft in the 'D' Position
		and Power Transfer
	FKDD-A45-0L	Standard Load 20 mm Drive Tail Kit with Shaft in the 'A' Position
	FKDD-A45-0R	Standard Load 20 mm Drive Tail Kit with Shaft in the 'D' Position
	FKDD-A45-0LA	Standard Load 20 mm Drive Tail Kit
		with shaft in the 'A' Position and Auxiliary Shaft
	FKDD-A45-0RA	Standard Load 20 mm Drive Tail Kit
		with shaft in the 'D' Position and Auxiliary Shaft
	FKDD-A45PT-0L	Standard Load 20 mm Drive Tail Kit
		with Shaft in the 'A' Position and Power Transfer
	FKDD-A45PT-0R	Standard Load 20 mm Drive Tail Kit with Shaft in the 'D' Position and
		Power Transfer
	FKDD-A45-AA	Auxiliary Tail Kit with two Auxiliary Shafts
	FKDD-A45-AL	Auxiliary Tail Kit with Shaft in the 'A' Position
	FKDD-A45-AR	Auxiliary Tail Kit with Shaft in the 'D' Position
5	FAEC-DS	Plug
6	FLG-120-SF	Drive Flange
	207242	Drive Flange for Power Transfer
7	CP1005-1-SF	Guard Plate (Pair - with screws)
Service	se parts can be obtained through your distributor or directly	

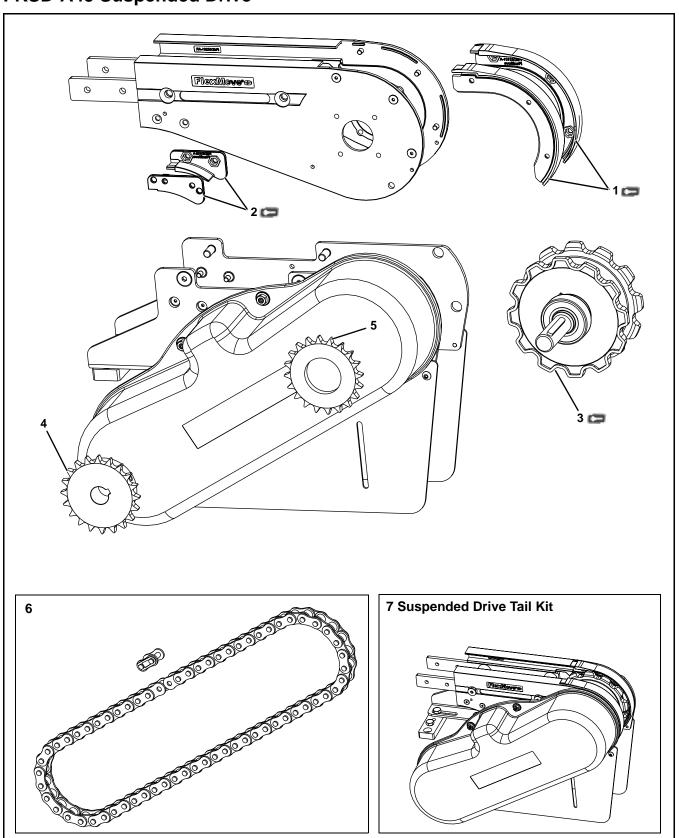
Guided Profile (GP) Drive Tail



Item	Part Number	Description
1	FSE63001-A-FK	Retaining Guide Set (Pair)
2	FAEC-IE-SF	Idler Tail Cover (x10)
3	205700-EN-045	Standard Load E-Drive 3/4" Spindle Shaft Assembly
	205700-EA-045	Standard Load E-Drive 3/4" Spindle Shaft Assembly with Auxiliary Shaft
	205700-FN-045	Standard Load 20 mm Spindle Shaft Assembly
	205700-FA-045	Standard Load 20 mm Spindle Shaft Assembly with Auxiliary Shaft
	205700-AN-045	Auxiliary Spindle Shaft Assembly
	205700-AA-045	Dual Auxiliary Spindle Shaft Assembly

Item	Part Number	Description
4	FKDD-A45GP-EL	Standard Load E-Drive 3/4" Drive Tail Kit with Shaft in the 'A' Position
	FKDD-A45GP-ER	Standard Load E-Drive 3/4" Drive Tail Kit with Shaft in the 'D' Position
	FKDD-A45GP-ELA	Standard Load E-Drive 3/4" Drive Tail Kit with Shaft in the 'A' Position and Auxiliary Shaft
	FKDD-A45GP-ERA	Standard Load E-Drive 3/4" Drive Tail Kit with Shaft in the 'D' Position and Auxiliary Shaft
	FKDD-A45GPPT-EL	Standard Load E-Drive 3/4" Drive Tail Kit with Shaft in the 'A' Position and Power Transfer
	FKDD-A45GPPT-ER	Standard Load E-Drive 3/4" Drive Tail Kit with Shaft in the 'D' Position and Power Transfer
	FKDD-A45GP-0L	Standard Load 20 mm Drive Tail Kit with Shaft in the 'A' Position
	FKDD-A45GP-0R	Standard Load 20 mm Drive Tail Kit with Shaft in the 'D' Position
	FKDD-A45GP-0LA	Standard Load 20 mm Drive Tail Kit with Shaft in the 'A' Position and Auxiliary Shaft
	FKDD-A45GP-0RA	Standard Load 20 mm Drive Tail Kit with Shaft in the 'D' Position and Auxiliary Shaft
	FKDD-A45GPPT-0L	Standard Load 20 mm Drive Tail Kit with Shaft in the 'A' Position and Power Transfer
	FKDD-A45GPPT-0R	Standard Load 20 mm Drive Tail Kit with Shaft in the 'D' Position and Power Transfer
	FKDD-A45GP-AA	Auxiliary Tail Kit with two Auxiliary Shafts
	FKDD-A45GP-AL	Auxiliary Tail Kit with Shaft in the 'A' Position
	FKDD-A45GP-AR	Auxiliary Tail Kit with Shaft in the 'D' Position
5	FLG-120-SF	Drive Flange
	207242	Drive Flange for Power Transfer

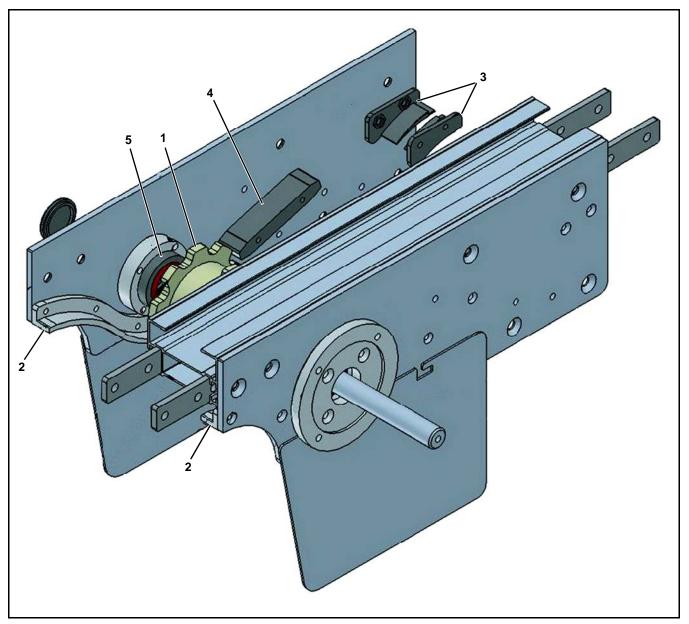
FKSD-A45 Suspended Drive



Dorner Mfg. Corp.

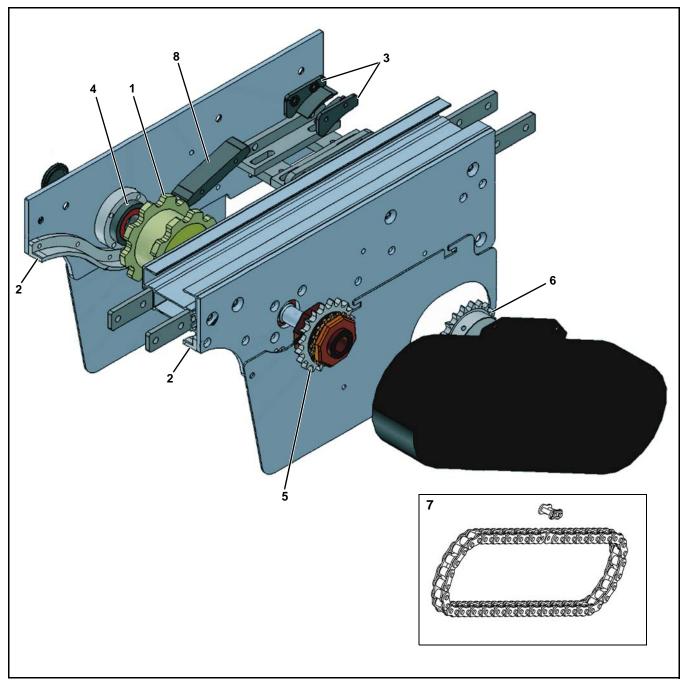
Item	Part Number	Description
1	FSD63101-A-FK	Retaining Guide Set (Pair)
2	FSD63102-A-FK	Belt Capture Guide Set (Pair)
3	205700-AN-045	Auxiliary Spindle Shaft Assembly
4	RS08BX19T-20	Sprocket, Solid (19T)
5	FATL-250	Torque Limiter Sprocket
		(Max Pull 844N)
6	FRS008B-64LK	Roller Chain
7	FKSD-A45-0L	Suspended Drive Tail Kit with
		Shaft in the 'A' Position
	FKSD-A45-0R	Suspended Drive Tail Kit with
		Shaft in the 'D' Position
	FKSD-A45GP-0L	Suspended Guided Profile Drive
		Tail Kit with Shaft in the 'A'
		Position
	FKSD-A45GP-0R	Suspended Guided Profile Drive
		Tail Kit with Shaft in the 'D'
		Position

FKID-DD-0L1/0R1 Intermediate Direct Drive



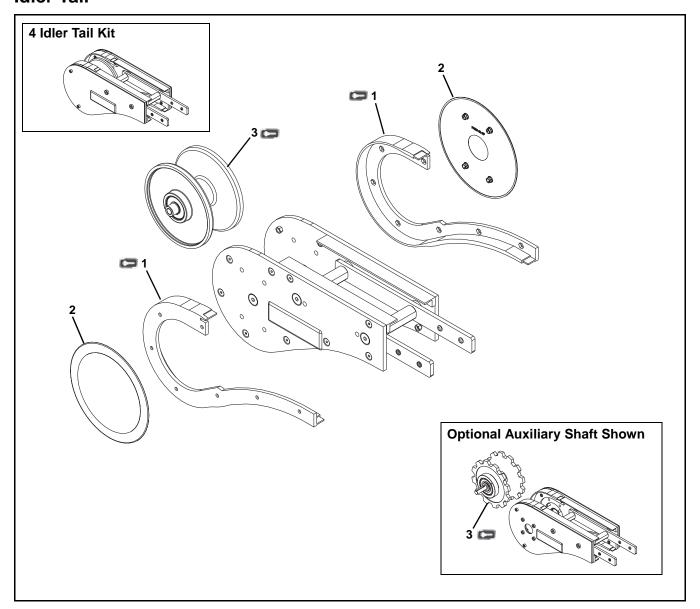
Item	Part Number	Description
1	FK-2013B-W30	FSID Drive Sprocket
2	FKD44504-1	FSD Steering Guide Right/Left
3	FKD44102	FSD Return Steering Guide R/L
4	CP1012-K	Return Chain Protector
5	6904ZZ	NTN Bearing

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



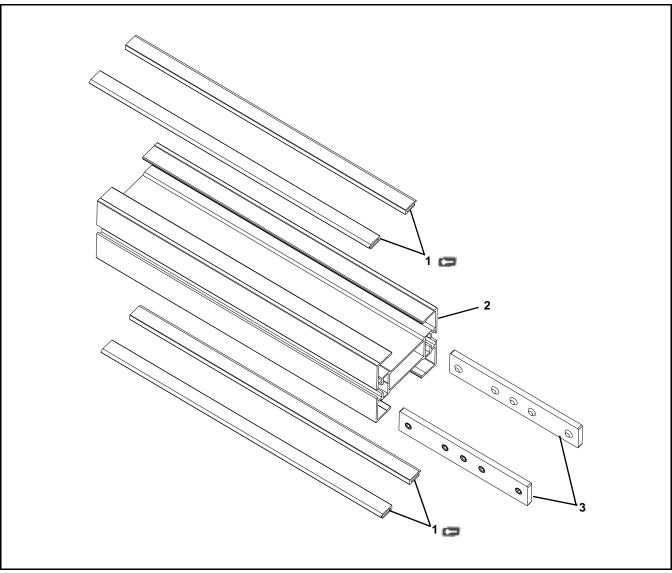
Item	Part Number	Description
1	FK-2013B-W30	FSID Drive Sprocket
2	FKD44504-1	FSD Steering Guide Right/Left
3	FKD44102	FSD Return Steering Guide R/L
4	6904ZZ	NTN Bearing
5	FATL-250	Sprocket
6	RS08BX19T-20	Transmission Sprocket
7	FRS008B-64LK	Roller Chain
8	CP1012-K	Return Chain Protector

Idler Tail



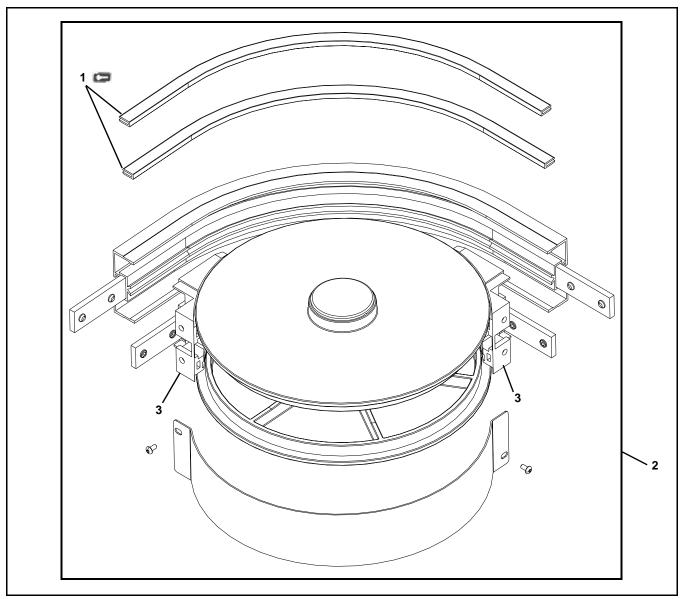
Item	Part Number	Description
1	FSE63001-A-FK	Retaining Guide Set (Pair)
2	FAEC-IE	Idler Tail Cover (x10)
3	FSIM-A15	Idler Pulley Assembly
	205700-AN-045	Idler Pulley Assembly with Auxiliary Shaft
4	FKIE-A45	Idler Tail Kit
	FKIE-A45-AL	Idler Tail Kit with Auxiliary Shaft in the 'A' Position
	FKIE-A45-AR	Idler Tail Kit with Auxiliary Shaft in the 'D' Position (Shown)
	FKIE-A45PT-L	Idler Tail Kit with Shaft in the 'A' Position and Power Transfer
	FKIE-A45PT-R	Idler Tail Kit with Shaft in the 'D' Position and Power Transfer

Frame Assembly



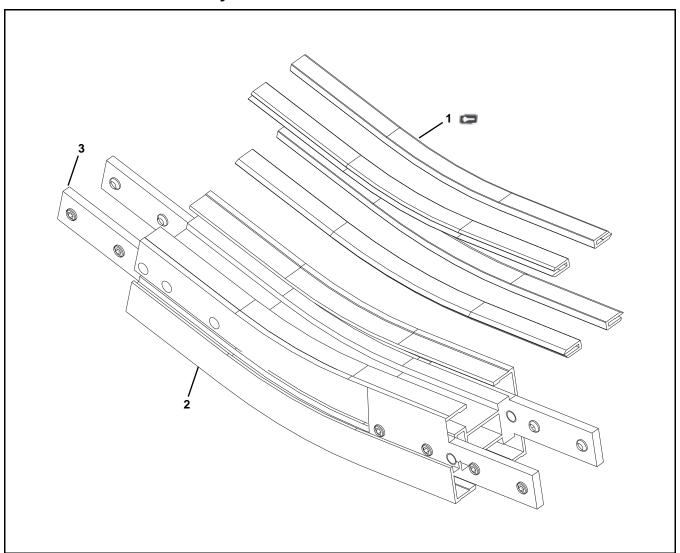
Item	Part Number	Description	
1	See Slide Rail Section	Slide Rails	
2	FKCB-3- <u>LLLLL</u>	Frame	
3	FACS-20x140	Connecting Bracket, w/Set	
		Screws (x10)	
<u>LLLLL</u> = Part length in inches with two decimal places.			
Length Example: Length = 95.25" LLLLL = 09525			
Service parts can be obtained through your distributor or directly			
from Dorner Mfg. Corp. (800) 397-8664 or			
custon	customerservice@dorner.com		

Curve Frame Assembly



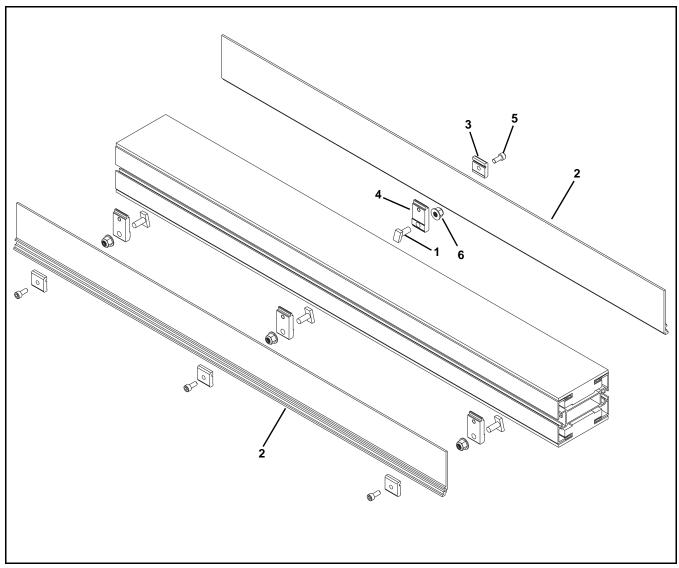
Item	Part Number	Description
1	See Slide Rail Section	Slide Rails
2	FKWB- <u>A</u> R150A	Wheel Curve Kit
	FKHB- <u>A</u> R500	90° 500 Radius Plain Bend Curve Kit
	FKHB- <u>A</u> R700	90° 700 Radius Plain Bend Curve Kit
3	FSWH63001	Wheel Guide (Pair)
Δ = Curve Angle: 30, 45, 60, 90, 180		

Knuckle Frame Assembly



Item	Part Number	Description
1	See Slide Rail	Slide Rails
	Section	
2	FKVB-5R-300	5° Knuckle Kit
	FKVB-7R-300	7° Knuckle Kit
	FKVB-10R-300	10° Knuckle Kit
	FKVB-15R-300	15° Knuckle Kit
	FKVB-20R-300	20° Knuckle Kit
	FKVB-30R-300	30° Knuckle Kit
	FKVB-45R-300	45° Knuckle Kit
	FKVB-60R-300	60° Knuckle Kit
	FKVB-90R-300	90° Knuckle Kit
3	FACS-25x140A	Connecting Bracket, w/Set Screws (x10)
Service parts can be obtained through your distributor or directly from Dorner Mfg. Corp. (800) 397-8664 or customerservice@dorner.com		

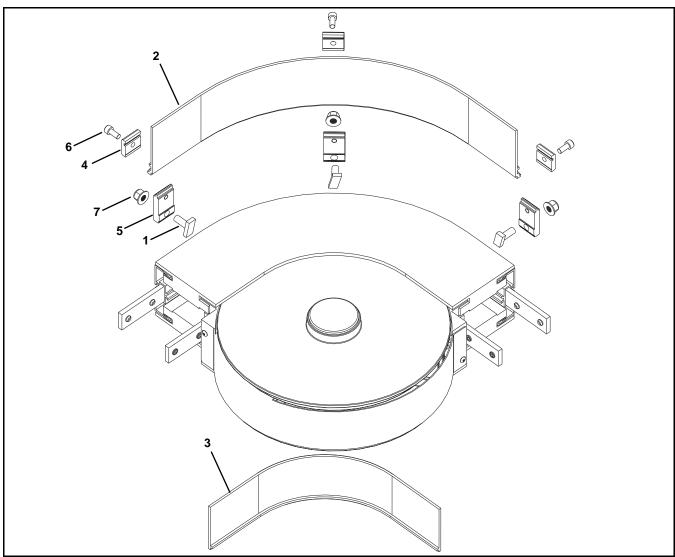
#4 & #5 High Sides for Straight Modules



Item	Part Number	Description
1	FATB-20	Stud, M8 x 20 mm (x50)
2	204172- <u>LLLLL</u>	1.5" High Side
	204127- <u>LLLLL</u>	3" High Side
3	204566	Mounting Clip
4	210829	Guide Clip Adapter
	210831	Guide Clip Adapter
		for Tail Mount Only
	210836	Guide Clip Adapter
		for Roller Transfer Tail Mount Only
5	920614M	Socket Head Screw, M6-1.00 x 14 mm
6	990812M	Hex Nut, M8-1.25
LLLLL = Part length in inches with two decimal places.		

Length Example: Length = 95.25" LLLLL = 09525

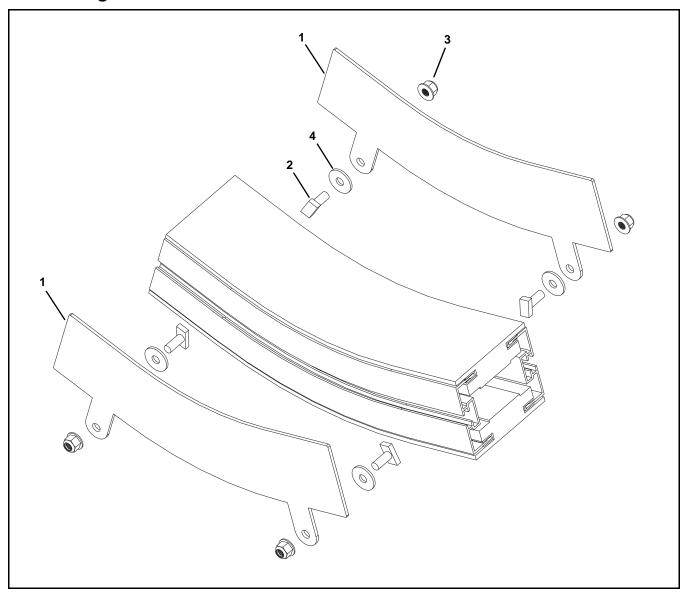
#4 & #5 High Sides for Curve Modules



Item	Part Number	Description
1	FATB-20	Stud, M8 x 20 mm (x50)
2	204135-045- <u>AAA</u>	1.50" High Side for Wheel Bend Curves - Outside Edge
	204334-045- <u>AAA</u>	1.50" High Side for 500R Plain Bend Curves - Outside Edge
	204338-045- <u>AAA</u>	1.50" High Side for 700R Plain Bend Curves - Outside Edge
	204134-045- <u>AAA</u>	3" High Side for Wheel Bend Curves - Outside Edge
	204336-045- <u>AAA</u>	3" High Side for 500R Plain Bend Curves - Outside Edge
	204340-045- <u>AAA</u>	3" High Side for 700R Plain Bend Curves - Outside Edge

Item	Part Number	Description
3	204137-045- <u>AAA</u>	1.50" High Side for Wheel Bend
		Curves - Inside Edge
	204333-045- <u>AAA</u>	1.50" High Side for 500R Plain Bend
		Curves - Inside Edge
	204337-045- <u>AAA</u>	1.50" High Side for 700R Plain Bend
		Curves - Inside Edge
	204136-045- <u>AAA</u>	3" High Side for Wheel Bend Curves -
		Inside Edge
	204335-045- <u>AAA</u>	3" High Side for 500R Plain Bend
		Curves - Inside Edge
	204339-045- <u>AAA</u>	3" High Side for 700R Plain Bend
		Curves - Inside Edge
4	204566	Mounting Clip
5	210829	Clip Guide Adapter
6	920614M	Socket Head Screw, M6-1.00 x 14 mm
7	990812M	Hex Nut, M8-1.25
<u>AAA</u> = Angle of curve: 030, 045, 060, 090, 180		
Service parts can be obtained through your distributor or directly		

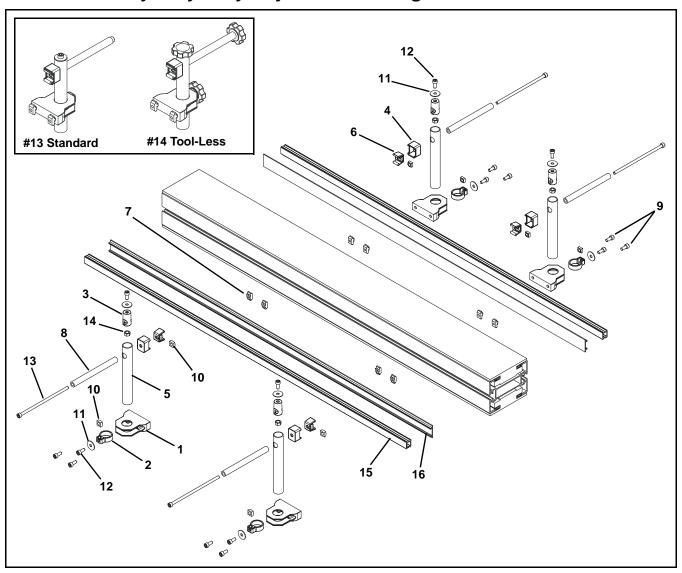
#4 & #5 High Sides for Incline/Decline Modules



Item	Part Number	Description
1	204342- <u>AA</u> -045	1.5" Guide Plate for Lower
		knuckle
	204343- <u>AA</u> -045	1.5" Guide Plate for Upper
		knuckle
	204144- <u>AA</u> -045	3" Guide Plate for Lower knuckle
	204174- <u>AA</u> -045	3" Guide Plate for Upper Knuckle
2	FATB-20	Stud, M8 x 20 mm (x50)
3	990812M	Hex Nut, M8-1.25
4	204145	Spacer
^^ _	Angle of bond: 05, 07, 1	0 15 20 20 45 60 00

 \underline{AA} = Angle of bend: 05, 07, 10, 15, 20, 30, 45, 60, 90

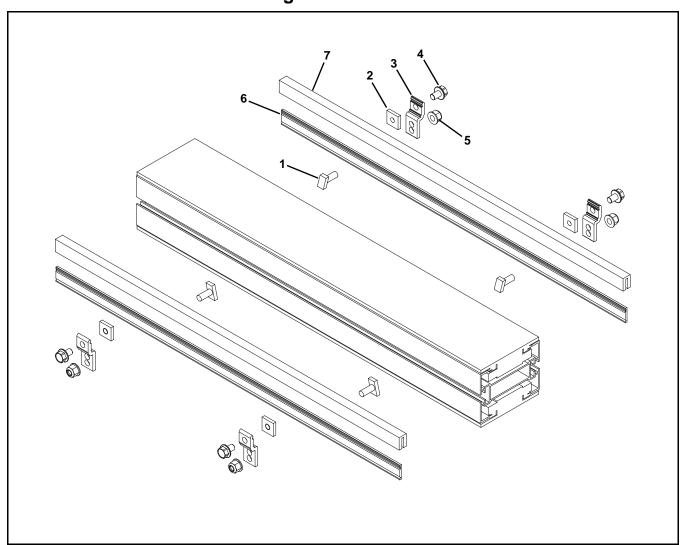
#13 & #14 Heavy Duty Fully Adjustable Guiding



Item	Part Number	Description
1	206380	Base
2	206381	Base Clamp
3	206382	Insert Clamp
4	206383	Guide Ring
5	206385	Tube
6	206397	Clip
7	206685	T-Nut
8	206692	Guide Tube
9	807-2859	Nylon Cap Screw, M6 x 16 mm
10	807-920	Square Nut, M6-1.0
11	911-710	Washer
12	920616M	Socket Head Screw,
		M6-1.00 x 16 mm
	206698	Knob, 12 mm (Tool-Less)
13	9206150M	Socket Head Screw,
		M6-1.00 x 150 mm
	206697	Knob, 150 mm (Tool-Less)
14	990601M	Hex Nut

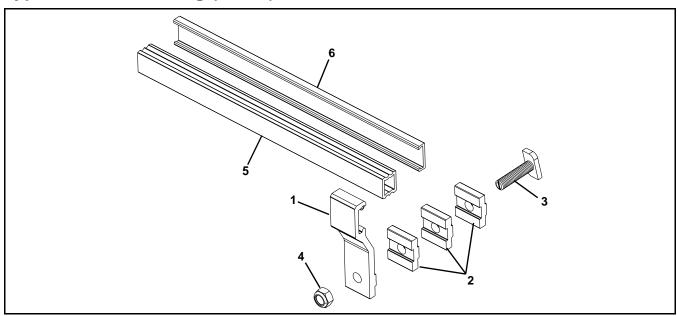
Item	Part Number	Description
15	FGRR-15x20-LLLLL	Guide Rail
	GTB13A04	Guide Rail 4' long
	GTB13A08	Guide Rail 8' long
16	FGRT-3x33	1.3" UHMW Guiding (per foot)
	GTB13B04	1.3" UHMW Guiding 4' long
	GTB13B08	1.3" UHMW Guiding 8' long
	206683	2" UHMW Guiding (per foot)
	GTB13C04	2" UHMW Guiding 4' long
	GTB13C08	2" UHMW Guiding 8' long
17	206686	Adjustable Bracket Assembly
		(Includes Items 1 through 14)
	206687	Tool-Less Adjustable Bracket
		Assembly (Includes Items 1 through
		14)
LLLLL = part length in inches with 2 decimal places		
Length Example: Length = 35.25" LLLLL = 03525		
Service parts can be obtained through your distributor or directly		
from Dorner Mfg. Corp. (800) 397-8664 or		
customerservice@dorner.com		

#17 & #18 - Puck / Pallet Guiding



Item	Part Number	Description
1	FATB-20	Stud, M8 x 20 mm (x50)
2	FASN-M8	Square Nut, M8
3	205129	Clip
4	960882M	Hex Head Flange Screw, M8 x 12 mm
5	990812M	Hex Nut, M8-1.25
6	460055	Guide Rail (per foot)
7	203825	Clip On Slide Rail (per foot)

Type A - Fixed Guiding (16x54)

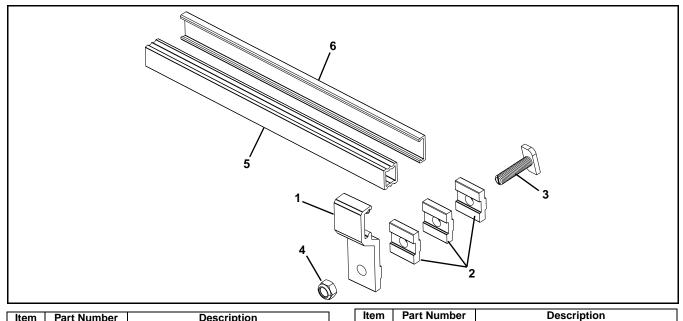


Item	Part Number	Description
1	FGRB-16x54	Fixed Guide Rail Bracket (x10)
2	FGRD-6	Spacer (x10)
3	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm (x50)
4	990802M	Hex Nut

Item	Part Number	Description
5	FGRR-15x20	Guide Rail (3 m long)
6	FGRT-3x23	Guiding (3 m long)
Service parts can be obtained through your distributor or directly		

Service parts can be obtained through your distributor or directly from Dorner Mfg. Corp. (800) 397-8664 or customerservice@dorner.com

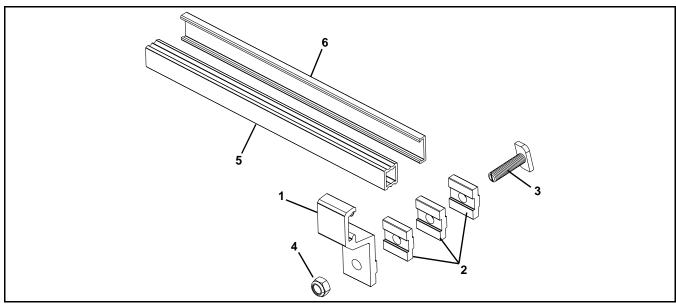
Type B - Fixed Guiding (16x42)



Item	Part Number	Description
1	FGRB-16x42	Fixed Guide Rail Bracket (x10)
2	FGRD-6	Spacer (x10)
3	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm (x50)
4	990802M	Hex Nut
5	FGRR-15x20	Guide Rail (3 m long)

6	FGRT-3x23	Guiding (3 m long)	
Service parts can be obtained through your distributor or directly			
from Dorner Mfg. Corp. (800) 397-8664 or			
customerservice@dorner.com			

Type C - Fixed Guiding (28x42)

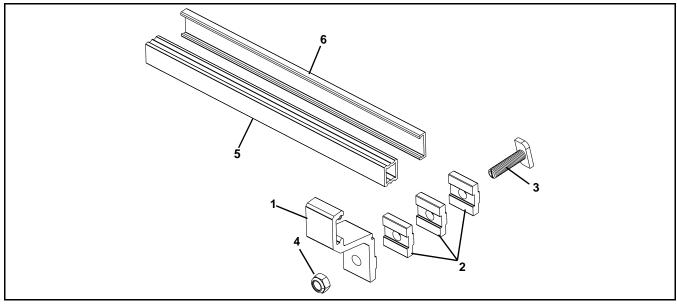


Item	Part Number	Description
1	FGRB-28x42	Fixed Guide Rail Bracket (x10)
2	FGRD-6	Spacer (x10)
3	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm (x50)
4	990802M	Hex Nut

Item	Part Number	Description
5	FGRR-15x20	Guide Rail (3 m long)
6	FGRT-3x23	Guiding (3 m long)

Service parts can be obtained through your distributor or directly from Dorner Mfg. Corp. (800) 397-8664 or customerservice@dorner.com

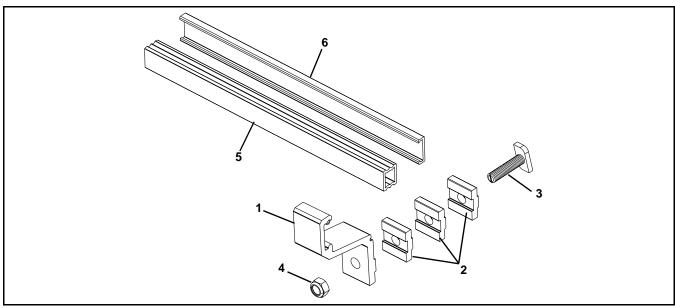
Type D - Fixed Guiding (40x42)



Item	Part Number	Description
1	FGRB-40x42	Fixed Guide Rail Bracket (x10)
2	FGRD-6	Spacer (x10)
3	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm (x50)
4	990802M	Hex Nut
5	FGRR-15x20	Guide Rail (3 m long)

Item	Part Number	Description
6	FGRT-3x23	Guiding (3 m long)
Service parts can be obtained through your distributor or directly		

Type E - Fixed Guiding (49x42)

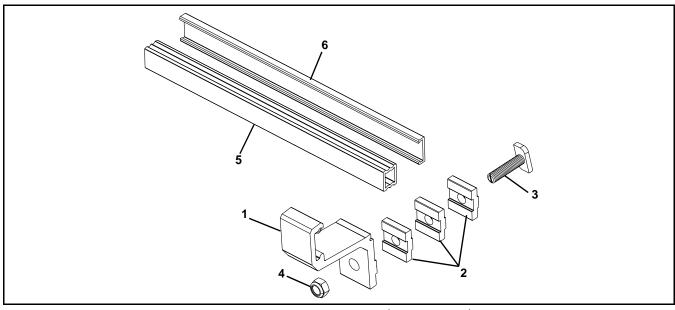


Item	Part Number	Description
1	FGRB-49x42	Fixed Guide Rail Bracket (x10)
2	FGRD-6	Spacer (x10)
3	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm (x50)
4	990802M	Hex Nut

Item	Part Number	Description
5	FGRR-15x20	Guide Rail (3 m long)
6	FGRT-3x23	Guiding (3 m long)

Service parts can be obtained through your distributor or directly from Dorner Mfg. Corp. (800) 397-8664 or customerservice@dorner.com

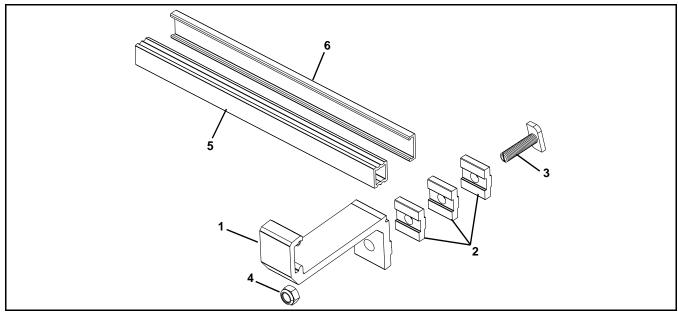
Type F - Fixed Guiding (53x42)



Item	Part Number	Description
1	FGRB-53x42	Fixed Guide Rail Bracket (x10)
2	FGRD-6	Spacer (x10)
3	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm (x50)
4	990802M	Hex Nut

Item	Part Number	Description
5	FGRR-15x20	Guide Rail (3 m long)
6	FGRT-3x23	Guiding (3 m long)

Type G - Fixed Guiding (90x42)

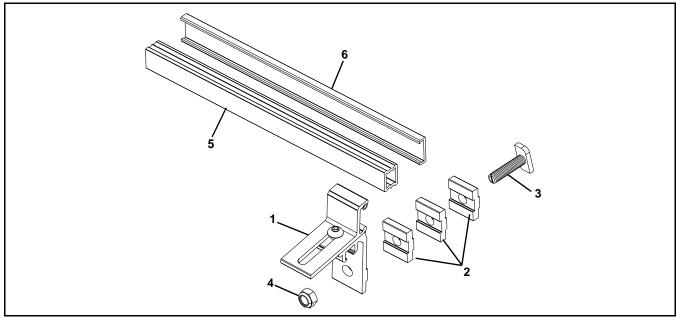


Item	Part Number	Description
1	FGRB-90x42	Fixed Guide Rail Bracket (x10)
2	FGRD-6	Spacer (x10)
3	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm (x50)
4	990802M	Hex Nut

	Item	Part Number	Description
Ī	5	FGRR-15x20	Guide Rail (3 m long)
Ī	6	FGRT-3x23	Guiding (3 m long)

Service parts can be obtained through your distributor or directly from Dorner Mfg. Corp. (800) 397-8664 or customerservice@dorner.com

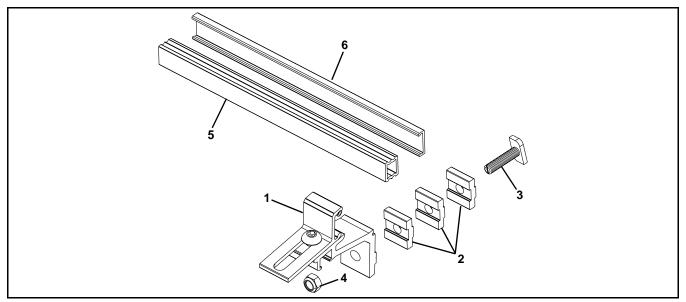
Type H - Adjustable Width Guiding (8x39x45)



Item	Part Number	Description
1	FGRA-8x39x45	Fixed Guide Rail Bracket (x10)
2	FGRD-6	Spacer (x10)
3	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm (x50)
4	990802M	Hex Nut

Item	Part Number	Description
5	FGRR-15x20	Guide Rail (3 m long)
6	FGRT-3x23	Guiding (3 m long)
•		1.1 1 1 1 1 1 1 1

Type J - Adjustable Width Guiding (26x39x45)

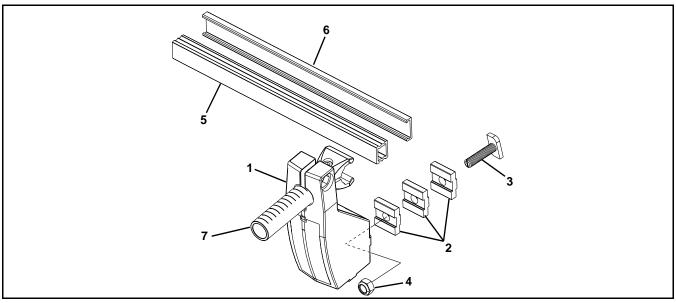


Item	Part Number	Description
1	FGRA-26x39x45	Fixed Guide Rail Bracket (x10)
2	FGRD-6	Spacer (x10)
3	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm (x50)
4	990802M	Hex Nut

Item	Part Number	Description
5	FGRR-15x20	Guide Rail (3 m long)
6	FGRT-3x23	Guiding (3 m long)

Service parts can be obtained through your distributor or directly from Dorner Mfg. Corp. (800) 397-8664 or customerservice@dorner.com

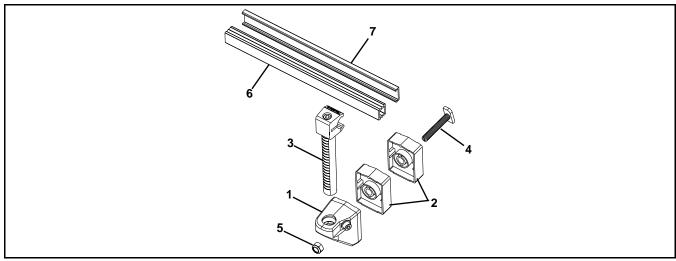
Type K - Adjustable Width Guiding (40x18)



Item	Part Number	Description
1	FGRA-40x18	Fixed Guide Rail Bracket (x10)
2	FGRD-6	Spacer (x10)
3	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm (x50)
4	990802M	Hex Nut
5	FGRR-15x20	Guide Rail (3 m long)
6	FGRT-3x23	Guiding (3 m long)

Item	Part Number	Description
7	FGRK-18x80A	Guide Rail Support (x10)
Service parts can be obtained through your distributor or directly		

Type L - Adjustable Height Guiding (18x110)

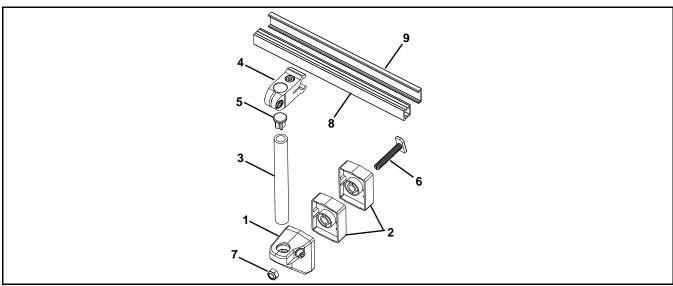


Item	Part Number	Description
1	FGRF-42x18V	Guide Rail Bracket (x10)
2	FGRD-18A	Spacer (x10)
3	FGRL-18x110C	Guide Rail Support (x10)
4	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm, use with 1 spacer (x50)
	FATB-53	T-Bolt, 53 mm, use with 2 spacers (x50)
5	990802M	Hex Nut

Item	Part Number	Description
6	FGRR-15x20	Guide Rail (3 m long)
7	FGRT-3x23	Guiding (3 m long)

Service parts can be obtained through your distributor or directly from Dorner Mfg. Corp. (800) 397-8664 or customerservice@dorner.com

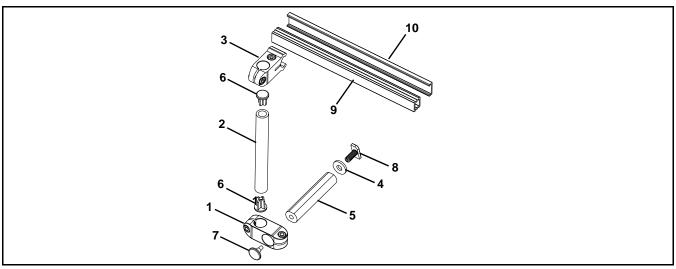
Type M - Adjustable Height Guiding (18x150)



Item	Part Number	Description
1	FGRF-42x18V	Guide Rail Bracket (x10)
2	FGRD-18A	Spacer (x10)
3	FGDT-150	Tube (x10)
4	FGRS-18	Guide Rail Support (x10)
5	FGEC-18	Cap (x10)
6	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm, use with 1 spacer (x50)
	FATB-53	T-Bolt, 53 mm, use with 2 spacers (x50)

Item	Part Number	Description
7	990802M	Hex Nut
8	FGRR-15x20	Guide Rail (3 m long)
9	FGRT-3x23	Guiding (3 m long)

Type N - Fully Adjustable Guiding

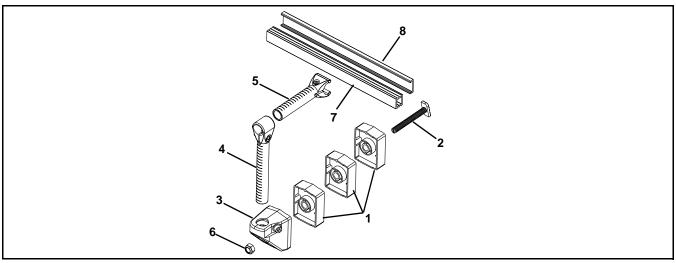


Item	Part Number	Description
1	FGRB-18x20	Guide Rail Bracket (x10)
2	FGDT-70	Tube, 70 mm (x10)
	FGDT-100	Tube, 100 mm (x10)
	FGDT-150	Tube, 150 mm (x10)
3	FGRS-18	Guide Rail Support (x10)
4	FGSP-DT	Tube Spacer (x10)
5	FGGR-18x100	Guide Rail Tube, 100 mm (x10)
	FGGR-18x150	Guide Rail Tube, 150 mm (x10)
	FGGR-18x200	Guide Rail Tube, 200 mm (x10)

Part Number	Description
FGEC-18	Cap (x10)
FGEC-20	Cap (x10)
FATB-20	T-Bolt, 20 mm (x50)
FGRR-15x20	Guide Rail (3 m long)
FGRT-3x23	Guiding (3 m long)
	FGEC-18 FGEC-20 FATB-20 FGRR-15x20

Service parts can be obtained through your distributor or directly from Dorner Mfg. Corp. (800) 397-8664 or customerservice@dorner.com

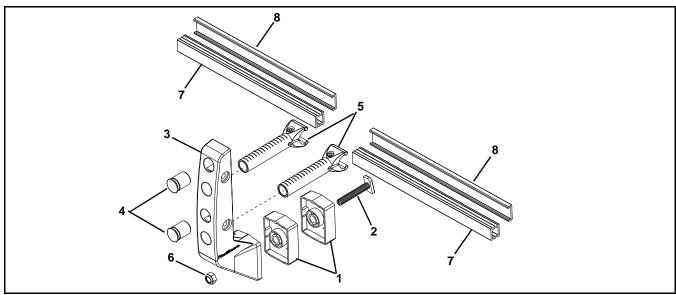
Type P - Fully Adjustable Guiding



Item	Part Number	Description
1	FGRD-18A	Spacer (x10)
2	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm, use with 1 spacer (x50)
	FATB-53	T-Bolt, 53 mm, use with 2 spacers (x50)
	FATB-71	T-Bolt, 71 mm, use with 3 spacers (x50)
3	FGRF-42x18V	Guide Rail Bracket (x10)
4	FGRL-18x160CA	Vertical Support (x10)

Item	Part Number	Description
5	FGRK-18x80A	Guide Rail Support (x10)
6	990802M	Hex Nut
7	FGRR-15x20	Guide Rail (3 m long)
8	FGRT-3x23	Guiding (3 m long)

Type Q - Dual Rail Guiding

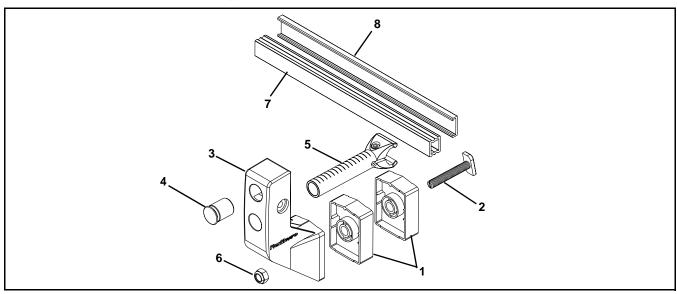


Item	Part Number	Description
1	FGRD-18A	Spacer (x10)
2	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm, use with 1 spacer (x50)
	FATB-53	T-Bolt, 53 mm, use with 2 spacers (x50)
3	FGRF-A110	Guide Rail Bracket (x10)
4	FGRF-DP	Plug (x10)

Item	Part Number	Description
5	FGRK-18x80A	Guide Rail Support (x10)
6	990802M	Hex Nut
7	FGRR-15x20	Guide Rail (3 m long)
8	FGRT-3x23	Guiding (3 m long)

Service parts can be obtained through your distributor or directly from Dorner Mfg. Corp. (800) 397-8664 or customerservice@dorner.com

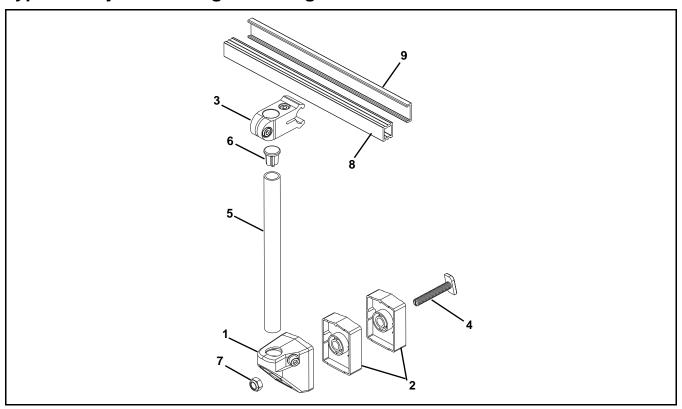
Type R - Dual Rail Guiding



Item	Part Number	Description
1	FGRD-18A	Spacer (x10)
2	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm, use with 1 spacer (x50)
	FATB-53	T-Bolt, 53 mm, use with 2 spacers (x50)
3	FGRF-A35	Guide Rail Bracket (x10)
4	FGRF-DP	Plug (x10)
5	FGRK-18x80A	Guide Rail Support (x10)
6	990802M	Hex Nut

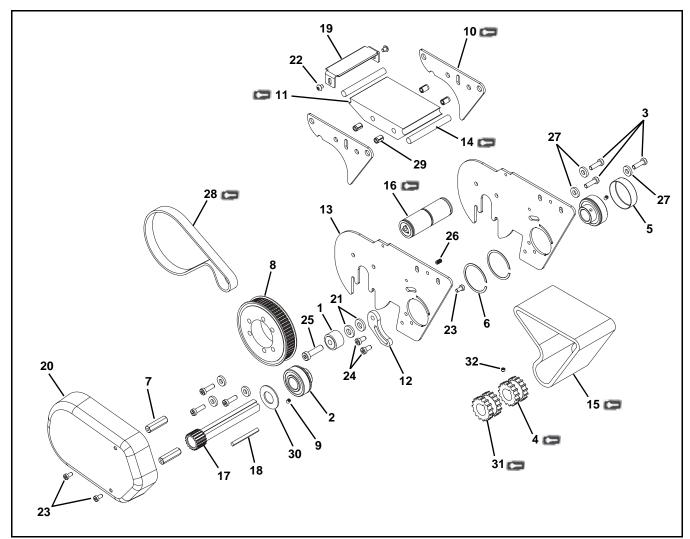
	ltem	Part Number	Description
Γ	7	FGRR-15x20	Guide Rail (3 m long)
8	3	FGRT-3x23	Guiding (3 m long)
	Complete party can be obtained through your distributor or directly		

Type S - Adjustable Height Guiding



Item	Part Number	Description
1	FGRF-42x18V	Guide Rail Bracket (x10)
2	FGRD-18A	Spacer (x10)
3	FGRS-18	Guide Rail Support (x10)
4	FATB-20	T-Bolt, 20 mm, use without spacer (x50)
	FATB-35	T-Bolt, 35 mm, use with 1 spacer (x50)
	FATB-53	T-Bolt, 53 mm, use with 2 spacers (x50)
5	FGDT-200	Tube (x10)
6	FGEC-18	Cap (x10)
7	990802M	Hex Nut
8	FGRR-15x20	Guide Rail (3 m long)
9	FGRT-3x23	Guiding (3 m long)

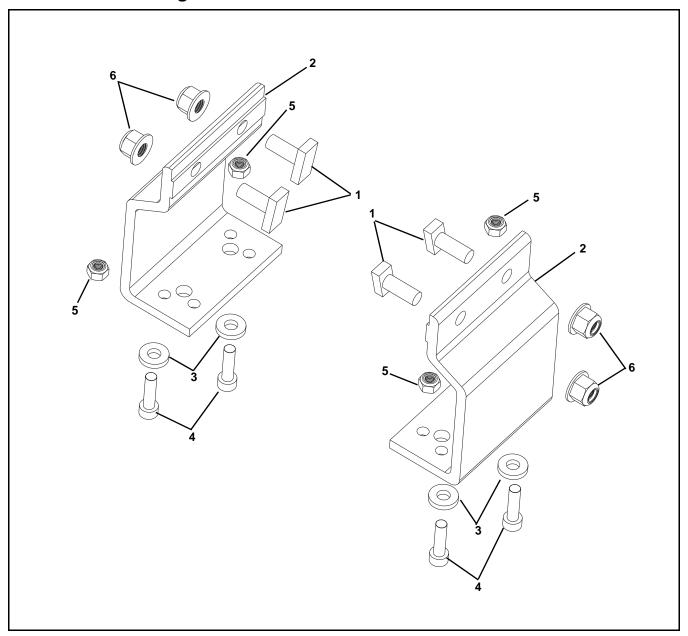
Power Transfer



Item	Part Number	Description
1	802-046	Cam Bearing
2	802-110	Bearing
3	950620M	Low Head Cap Screw, M6-1.00 x 20 mm
4	203765	Locking Sprocket
5	807-2285	Cover
6	807-2286	Retaining Ring
7	807-2287	Hex Post
8	206886	Pulley
9	907-115	Socket Head Set Screw, #10-32 x 0.19
10	203229	Side Guide Plate
11	205711-045	Wear Bar
12	203231	Timing Belt Tensioner
13	205710-02	Side Plate
14	205726-045	Wear Rod
15	206343-045	Power Transfer Belt
16	205725-045	Tensioner Assembly

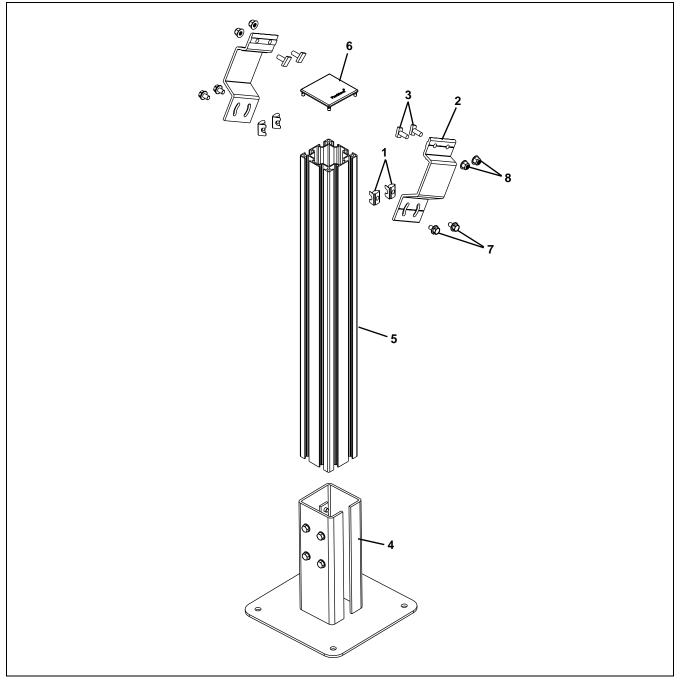
Item	Part Number	Description	
17	203264-045	Shaft Assembly	
18	203267-045	Square Key, 3/16" x 105 mm	
19	205727-045	Pinch Guard	
20	350505	Power Transfer Cover	
21	605280P	Washer	
22	910506M	Button Head Screw, M5-0.80 x 6 mm	
23	950510M	Low Head Cap Screw, M5-0.80 x 10 mm	
24	950612M	Low Head Cap Screw, M6-1.00 x 12 mm	
25	950830M	Low Head Cap Screw, M8-1.25 x 30 mm	
26	970510M	Socket Head Set Screw,	
		M5-0.80 x 10 mm	
27	605279P	Washer	
28	814-105	Timing Belt 15 mm x 460 mm	
29	990621M	Insert	
30	807-2277	Washer	
31	203765P	Sliding Sprocket	
32	970606M	Cup Set Screw, M6-0.80 x 5 mm	
	Service parts can be obtained through your distributor or directly		
	from Dorner Mfg. Corp. (800) 397-8664 or		
customerservice@dorner.com			

Horizontal Mounting Brackets



Part Number	Description
FATB-20	Stud, M8 x 20 mm
FAHBS-80SPL	Mounting Bracket
605279P	Washer
920622M	Socket Head Screw,
İ	M6-1.00 x 22 mm
990602M	Hex Nut, M6-1.00
990812M	Flanged Hex Nut, M8-1.25
	FATB-20 FAHBS-80SPL 605279P 920622M

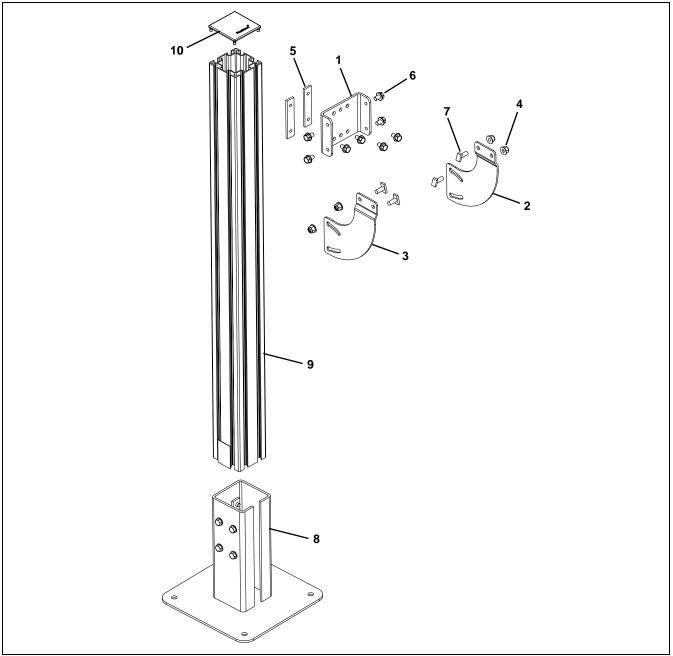
Support Post - Conveyor Frame Mount



Item	Part Number	Description
1	FASL-M8	Spring Nut (x50)
2	FAVBS-60KV	Mounting Bracket for 64 mm Stand
3	FATB-20	T-Bolt, 20 mm (x50)
4	FBFT-64	Stand Foot for 64 mm Stand w/Hardware
5	FBSB-64X64- <u>LLLLL</u>	Leg for 64 mm Stand
6	FBEC-64	Cover for 64 mm Stand (x10)

Item	Part Number	Description	
7	960883M	Flange Head Cap Screw,	
		M8-1.25 x 16 mm	
8	990812M	Hex Nut, M8-1.25	
<u>LLLLL</u> = Length in inches with 2 decimal places.			
Length Example: Length = 95.25" LLLLL = 09525			
Service parts can be obtained through your distributor or directly			
from Dorner Mfg. Corp. (800) 397-8664 or			
custon	customerservice@dorner.com		

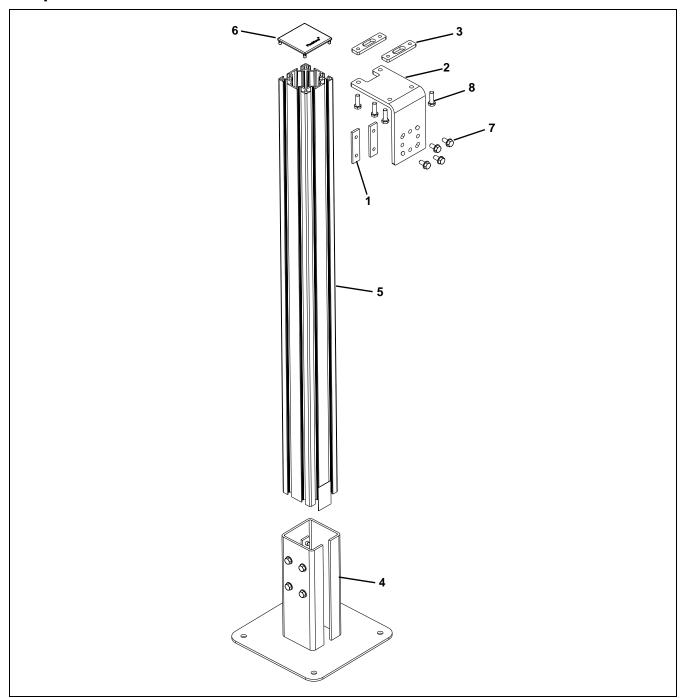
Support Post - Motor Mount



Item	Part Number	Description
1	207195-045	Stand Mounting Channel
2	207194-LH	Drive Tail Bracket, Left Hand
3	207194-RH	Drive Tail Bracket, Right Hand
4	990812M	Hex Nut, M8-1.25
5	FBCS-20X96	Connecting Strip, 20 x 96 mm (x10)
6	960882M	Flange Head Cap Screw, M8-1.25 x 12 mm
7	FATB-20	T-Bolt, 20 mm

Item	Part Number	Description	
8	FBFT-64	Stand Foot for 64 mm Stand w/Hardware	
		w/naiuwaie	
9	FBSB-64X64- <u>LLLLL</u>	Leg for 64 mm Stand	
10	FBEC-64	Cover for 64 mm Stand (x10)	
LLLLL = Length in inches with 2 decimal places.			
Length Example: Length = 95.25" LLLLL = 09525			
Service parts can be obtained through your distributor or directly			
from Dorner Mfg. Corp. (800) 397-8664 or			
custom	customerservice@dorner.com		

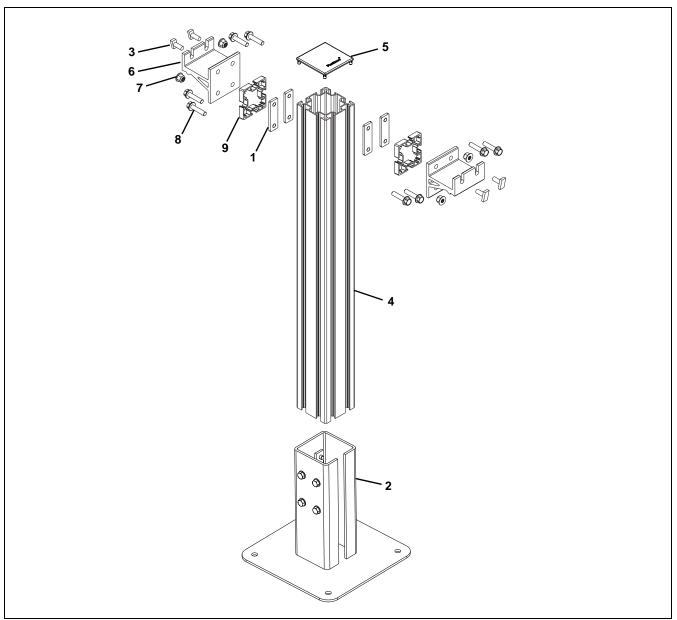
Suspended Drive Stand



Item	Part Number	Description
1	FBCS-20X76	Connecting Strip, 20 x 76 mm (x10)
2	206887	Bracket
3	207275	Nut Bar
4	FBFT-64	Stand Foot for 64 mm Stand w/Hardware
5	FBSB-64X64- <u>LLLLL</u>	Leg for 64 mm Stand
6	FBEC-64	Cover for 64 mm Stand (x10)

Item	Part Number	Description				
7		•				
/	960883M	Flange Head Cap Screw,				
		M8-1.25 x 16 mm				
8	960825M	Hex Head Cap Screw, M8-1.25 x				
		25 mm				
LLLLL	LLLLL = Length in inches with 2 decimal places.					
Length	Length Example: Length = 95.25" LLLLL = 09525					
Service parts can be obtained through your distributor or directly						
from Dorner Mfg. Corp. (800) 397-8664 or						
	nerservice@dorner.com					

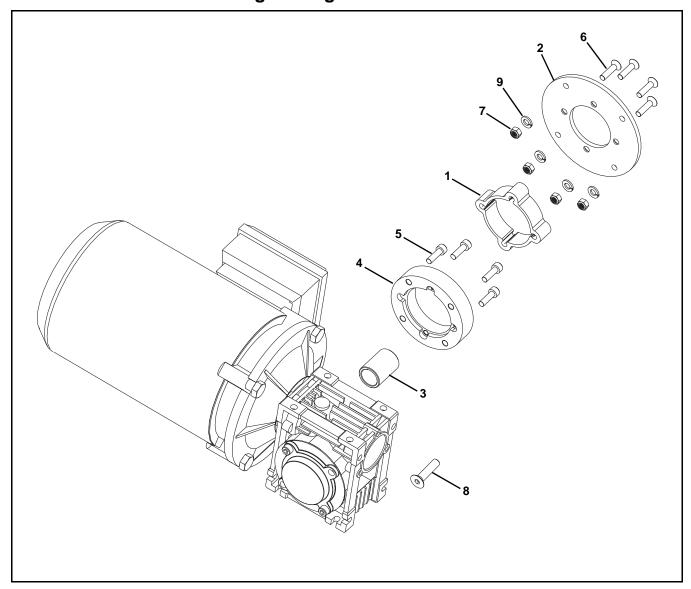
Dual Side Support Post



Item	Part Number	Description
1	FBCS-20X55	Connecting Strip, 20 x 55 mm for
		64 mm Stand (x10)
2	FBFT-64	Stand Foot for 64 mm Stand
		w/Hardware
3	FATB-20	T-Bolt, 20 mm (x50)
4	FBSB-64X64- <u>LLLLL</u>	Leg for 64 mm Stand
5	FBEC-64	Cover for 64 mm Stand (x10)
6	FAAL-64	Mounting Bracket for 64 mm
		Stand

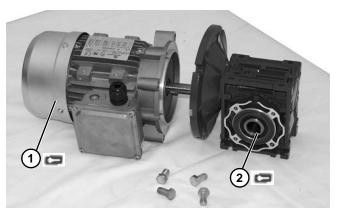
Item	Part Number	Description			
7	990812M	Hex Nut, M8-1.25			
8	960825M	Hex Head Cap Screw, M8-1.25 x			
		25 mm for 64 mm Stand			
9	FBSB-64X64-00039 Spacer				
LLLLL	LLLLL = Length in inches with 2 decimal places.				
Length Example: Length = 95.25" LLLLL = 09525					
Service parts can be obtained through your distributor or directly					
from Dorner Mfg. Corp. (800) 397-8664 or					
custon	nerservice@dorner.com				

E-Drive Gearmotor Mounting Package



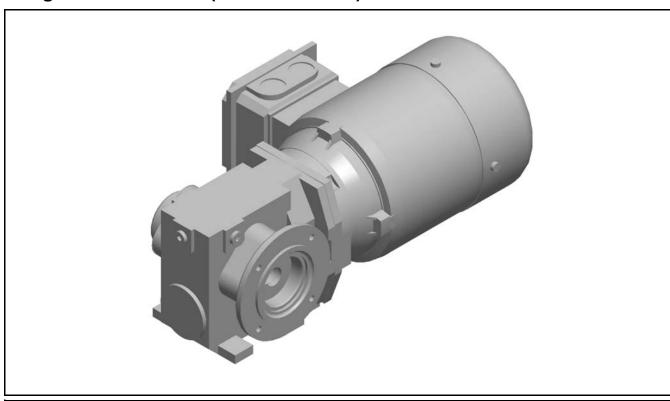
Item	Part Number	Description
1	202270-00075	Extrusion
2	202971	Drive Plate
3	203065	Drive Spacer
4	350115	Adapter Ring
5	920620M	Socket Head Screw, M6-1.00 x 20 mm
6	930625M	Flat Head Screw, M6-1.00 x 25 mm
7	990601M	Hex Nut, M6-1.00
8	931025M	Flat Head Screw, M10-1.50 x 25 mm
9	911-108	Washer

Standard Load 90° Industrial Gearmotors



Item	Part No.	Description
1 👝	62MES411FN	Motor, 0.25hp (0.19Kw), 115/230 Volts, 60 Hz, 1-Phase
	62MES423FN	Motor, 0.25hp (0.19Kw), 208–230/460 Volts, 60 Hz, 3-Phase
	22MSD3DEN	Motor, 0.25hp (0.19Kw), 130 VDC
	62MEH411FN	Motor, 0.5hp (0.37Kw), 115/230 Volts, 60Hz, 1-Phase
	32MES423FN	Motor, 0.5hp (0.37Kw) 208–230/460 Volts, 60Hz, 3 Phase
	62MHD9DEN	Motor, 0.5hp (0.37Kw), 90 VDC
	32MES423EN	Motor, 0.5hp (0.37Kw), 230 Volts, 3 Phase Inverter Duty
	32MHD9DEN	Motor, 0.75 hp, (0.56Kw), 90 VDC
2	32M005EL	Gear Reducer, 5:1, NEMA 42CZ
	32M010EL	Gear Reducer, 10:1, NEMA 42CZ
	32M020EL	Gear Reducer, 20:1, NEMA 42CZ
	32M040EL	Gear Reducer, 40:1, NEMA 42CZ
	32M060EL	Gear Reducer, 60:1, NEMA 42CZ
	32M005ES	Gear Reducer, 5:1, NEMA 56C
	32M010ES	Gear Reducer, 10:1, NEMA 56C
	32M020ES	Gear Reducer, 20:1, NEMA 56C
	32M040ES	Gear Reducer, 40:1, NEMA 56C
	32M060ES	Gear Reducer, 60:1, NEMA 56C
	32M010EH	Gear Reducer, 10:1, NEMA 140 TC

Flange Mounted Motor (Direct Drive Tail)

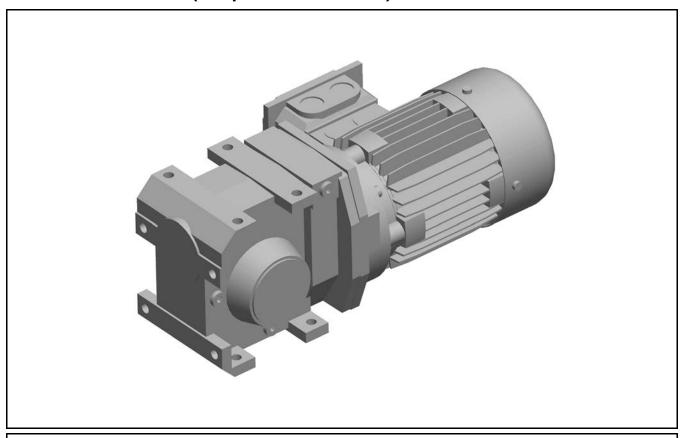


Product Line		FK,FS,FM,FU,FV	FC,FL	FS	FM
Radius (M)		0.064	0.0675	0.044	0.049
Drive Type		Direct	Direct	Intermediate	Intermediate
Part Number					
Right Hand	Left Hand	Speed	Speed	Speed	Speed
FMM129RDS423EN	FMM129LDS423EN	5.2 m/min	5.5 m/min	3.6 m/min	4 m/min
FMM067RDS423EN	FMM067LDS423EN	10 m/min	10.6 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.

Foot Mounted Motor (Suspended Drive Tail)



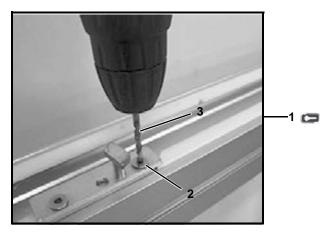
Product Line		FK,FS,FM,FU,FV	FC,FL
Radius (M)		0.064	0.0675
Drive Type		Suspended	Suspended
Part Number			
Right Hand	Left Hand	Speed	Speed
FMM129RSS423EN	FMM129LSS423EN	5.2 m/min	5.5 m/min
FMM067RSS423EN	FMM067LSS423EN	10 m/min	10.6 m/min
FMM032RSS423EN	FMM032LSS423EN	21.3 m/min	22.5 m/min
FMM015RSS423EN	FMM015RSS423EN FMM015LSS423EN		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.

Slide Rail Replacement Tool



Item	Part Number	Description
1	203475-FK	Slide Rail Replacement Tool Kit
2	807-3928	Nylon Socket Screw,
		#6-40 x 3/4" (x50)
3	896-790	Drill Bit, #18, 0.1695"

Service parts can be obtained through your distributor or directly from Dorner Mfg. Corp. (800) 397-8664 or customerservice@dorner.com

Slide Rail

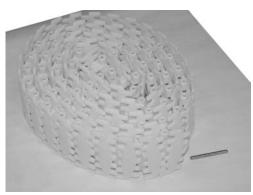
Item	Part No.	Description
1	FASR-25	Standard HDPE (25 M Roll)
	FASR-25U	Standard Low Friction UHMW (25 M Roll)
	FASR-25A	Special Conductive (25 M Roll)
	FASR-25X	Special HI Speed (25 M Roll)
	FASR-25P	Special Abrasive Resistant (25 M Roll)
	FASR-25T	Special Abrasive Resistant, High Load (25 M Roll)
	FASR-25MDS	Special High Load Nylon (25 M Roll)

Service parts can be obtained through your distributor or directly from Dorner Mfg. Corp. (800) 397-8664 or customerservice@dorner.com

Replacement Chain

Replacement chain sold per box containing 5 meters of chain.

For specific chain details see FlexMove Engineering Manual.



Part Number	Description				
FKPC-5	Standard Plastic Chain				
FKPC-5CD	Conductive Chain				
FKFT-5	Friction Top Chain				
FKWT-5PR	Wedge Top Chain, Right				
FKWT-5PL	Wedge Top Chain, Left				
FKWT-5C	Wedge Top Chain				
FKWT-5D	Wedge Top Chain				
FKFK-5	Flocked Chain				

Belt Removal Tool



I	Item	Part Number	Description				
ı	1	203480	Belt Removal Tool				

Service parts can be obtained through your distributor or directly from Dorner Mfg. Corp. (800) 397-8664 or customerservice@dorner.com

Side Cutter



Item	Part Number	Description				
1	897-1098	Side Cutter				
Servic	Service parts can be obtained through your distributor or directly					
from Dorner Mfg. Corp. (800) 397-8664 or						

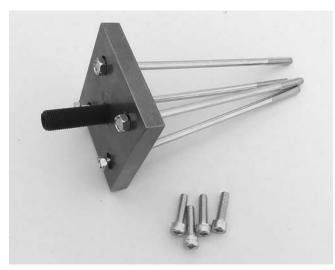
customerservice@dorner.com

Utility Cutter



Item	Part Number	Description				
1	897-1099	Utility Cutter				
Service parts can be obtained through your distributor or directly from Dorner Mfg. Corp. (800) 397-8664 or						
customerservice@dorner.com						

Bearing Tool



Item	Part Number	Description			
1	206891	Bearing Tool			
Servic	Service parts can be obtained through your distributor or directly				
from Dorner Mfg. Corp. (800) 397-8664 or					
customerservice@dorner.com					

Notes

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. Include part serial number if available.

A representative will discuss action to be taken on the returned items and provide a Returned Materials 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 Type								
	Standard Products					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 & Spec. Fabric	Spare Belts - Plastic Chain	All equipment and parts
1100 Series									
2200 Series		30% re	turn fee fo	or all products	except:				
3200 Series		30% return fee for all products except: 50% return fee for conveyors with modular belt, cleated belt or speciality belts					case-by-case		
Pallet Systems									
FlexMove/SmartFlex									
GAL Series	All Electr	All Electrical items are assigned original manufacturers return policy. non-returnable							
All Electrical		Horrieturiable							
7100 Series									
7200/7300 Series									
AquaGard 7350 Series Version 2	50% return fee for all products								
GES Series									
AquaGard 7350/7360 Series	non-returnable								
AquaPruf Series									

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 Dorner, an authorized sales channel or visit our website: www.dorner.com.

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

www.dorner.com







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