



7600 Ultimate Series End Drive Conveyors

Installation, Maintenance and Parts Manual





Cleated Belt Conveyor





DORNER MFG. CORP. P.O. Box 20 • 975 Cottonwood Ave. Hartland, WI 53029-0020 USA INSIDE THE USA TEL: 1-800-397-8664 FAX: 1-800-369-2440 OUTSIDE THE USA TEL: 262-367-7600 FAX: 262-367-5827

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Introduction

CAUTION

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.

The Dorner Limited Warranty applies.

Dorner 7600 Series conveyors have patents pending.

NOTE

Proper conveyor application, cleaning, and sanitation are the responsibility of the end user.

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

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

Warnings – General Safety



Product Description

Refer to (Figure 1) for typical conveyor components.

Typical Components

- Conveyor
 Belt (Flat Belt Shown)
 Return
 Support Stands
- 5 Drive End
- 6 Tension End





Specifications



Specifications

Conveyor Supports

Maximum Distances:

- 1 = 3 ft (914 mm)
- 2 = 8 ft (2438 mm)**
- 3 = 3 ft (914 mm)
- ** For conveyors longer than 10 ft (3.05 m), install support at frame joint.





Specifications

| Conveyor Width Reference (WW) | 06 – 36 in 02 increments |
|---------------------------------|---|
| Conveyor Belt Width | 6" (152 mm) – 36" (914 mm) in 2" (51 mm) increments |
| Maximum Conveyor Load | 20 lb / ft ² (97 kg / m ²) with a maximum of 1000 lb / ft ² (4882 kg / m ²) |
| Belt Travel | 12" (305 mm) per revolution of pulley |
| Maximum Belt Speed | 233 ft / minute (71 m / minute) |
| Belt Take-up | 2" (51 mm) |
| Conveyor Length Reference (LLL) | 036 – 999 in 001 increments |
| Conveyor Length | 36" (914 mm) – 999" (25.4 m) in 1" (25 mm) increments |
| LPZ Section Lengths (LLL) | 024 – 252 in 001 increments |
| LPZ Section Length | 24" (610 mm) – 252" (6401 mm) in 1" (25 mm) increments |
| Total LPZ Conveyor Length | (L1 +L2 + L3) = Maximum 38' (11.6 m) long conveyor |

IMPORTANT

Maximum conveyor loads are based on:

- Non-accumulating product
- Product moving toward gearmotor
- Conveyor being mounted horizontally
- Conveyor being located in a dry environment
- Conveyor equipped with standard belt only

A CAUTION

Dorner recommends cleaning all the "food zones" prior to placing conveyor into service. Ensure adequate access is provided for cleaning and servicing equipment so that the required level of hygiene can be maintained.

NOTE

Proper conveyor application, cleaning, and sanitation are the responsibility of the end user.

Conveyor MUST be mounted straight, flat, and level within confines of conveyor. Use a level (Figure 3, item 1), during setup.



Figure 3

Required Tools

- 17 mm wrench (for hexagonal head fasteners)
- 4 mm hex wrench (for bearing shaft assembly fasteners)
- Level
- Torque wrench

Recommended Installation Sequence

- 1. Assemble the conveyor (if required). Refer to "Conveyors Longer than 11 ft (3353 mm)" on page 7.
- 2. Install belt returns. Refer to "Belt Return Installation" on page 10.
- 3. Install limiter. Refer to "Limiter Installation" on page 11.
- 4. Attach guiding (if required). Refer to "Guide Installation" on page 12.
- 5. Attach stands. Refer to "Stand Installation" on page 13.
- 6. Install the gearmotor. Refer to "Drive Package Installation" on page 13.

Conveyors Longer than 11 ft (3353 mm)

Belt and Frame Sections

Typical Standard Belt (Figure 4).

1 Belt



Typical Connection Components (Figure 5).

- 1 Hex Head Cap Screws (x4)
- 2 Connector Hex Rods (x2)
- 3 Conveyor Frame
- 4 O-rings (x8)



Figure 5

1. Locate the section number sequence etched on each section of frame (Figure 6, item 1).



Figure 6

2. Position the frame sections in the correct order.

CAUTION

Avoid damage to O-rings. Be careful not to pinch or cut them.

 Connect the frame sections by bolting the hex post connectors (Figure 7, item 1) between frame sections. Be sure O-rings are seated properly on hex post and hex screws prior to tightening of screws to avoid damage to O-rings.





4. Place the idler tail (**Figure 8, item 1**) in the up position.



Figure 8

5. Slide the belt (Figure 9, item 1) on over the conveyor frame (Figure 9, item 2).



Figure 9

6. Align the sprockets (**Figure 10, item 1**) with the cogged drive teeth (**Figure 10, item 2**) on the inside of the belt.



Figure 10

NOTE: The cogged drive teeth on the belt (Figure 10, item 2) should engage the deep grooves of the sprocket (Figure 11, item 1).



Figure 11

Place the idler tail in the down position, and extend the tension end to remove excess slack in the belt (Figure 12).





8. Insert the pull pins (Figure 12, item 1) on the tension end of the conveyor.

LPZ Conveyors

Knuckles

1. Attach upper knuckle (Figure 13, item 1) to frame (Figure 13, item 2) with hex rods (Figure 13, item 3) and bolts (Figure 13, item 4).



Figure 13

 Attach lower knuckle (Figure 14, item 1) to frame (Figure 14, item 2) with hex rods and bolts (Figure 14, item 3).



Figure 14

3. Install wear strips (Figure 14, item 4).

Belt

NOTE: The cogged drive teeth on the belt should engage the deep grooves of the sprocket (**Figure 15, item 1**).



Figure 15

 Slide belt (Figure 16, item 1) over knuckles and onto top and bottom of wear strips, while aligning the sprockets (Figure 16, item 2) with the cogged drive teeth on the inside of the belt.



Figure 16

Guides

- 1. Install the return guide (**Figure 17, item 1**) and secure with push pin.
- Slide the guides (Figure 17, item 2) and (Figure 18, item 2) onto the knuckle frame, and secure with two pull pins (Figure 17, item 3) and (Figure 18, item 3).



Figure 17 (Upper Knuckle)



Figure 18 (Lower Knuckle)

3. Repeat for opposite side of conveyor.

All Conveyors

Belt Return Installation

Flat Belt

Typical Flat Belt Components (Figure 19).

1 Flat belt returns





1. Slide the return shaft (**Figure 20, item 1**) up and through the large slot (**Figure 20, item 2**) in the frame.





 Push up on the return shaft (Figure 21, item 1) and slide the notched end of the shaft through the small slot (Figure 21, item 2) on the opposite side of the frame.



Figure 21

3. Repeat the procedure for all other belt returns.

Cleated Belt

Typical Cleated Belt Components (Figure 22).

1 Cleated belt returns



 Insert the notched end of the return shaft (Figure 23, item 1) through the small hole (Figure 23, item 2) in the inside of the conveyor frame.



Figure 23

2. Repeat the procedure for all other belt returns.

Both Flat and Cleated Belts

 Check belt sag by measuring from the top of the return (Figure 24). Belt sag should not exceed 4" (102 mm). Follow steps 7 – 9 in the "Belt Installation" section on page 7 to remove slack from the belt.



Figure 24



Limiter Installation

Flat Belt

Typical Flat Belt Limiter Components (Figure 25).

- 1 Limiter
- 2 Limiter Support Plates (x2)
- 3 Hex Head Cap Screws (x4)



Figure 25

Cleated Belt

Typical Cleated Belt Limiter Components (Figure 26).

- 1 Limiter (x2)
- 2 Limiter Support Plates (x2)
- 3 Hex Head Cap Screws (x4)





Figure 26

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 Loosely bolt limiter support plate (Figure 27, item 1) to conveyor frame stand off posts (Figure 27, item 2). Repeat on opposite side.



Figure 27

2. Insert limiter (Figure 28, item 1) or (Figure 29, item 1) between support plates (Figure 28, item 2) or (Figure 29, item 2).



Figure 28 (Flat Belt)



Figure 29 (Cleated Belt)

3. Adjust limiter to within 1/32" from belt, and tighten screws (**Figure 27, item 3**).

Guide Installation

Typical Guide Components (Figure 30).

- 1 Guide
- 2 Pull pin



1. Position the guide (**Figure 31, item 1**) so that the flat surface is facing the belt and then slide the guide onto the frame rail (**Figure 31, item 2**).





- 2. Line up the guide holes with the holes in the frame.
- 3. Insert the pull pins (Figure 32, item 1) into the holes in the guide (Figure 32, item 2).



Figure 32

Stand Installation

Typical Stand Components (Figure 33).

- 1 Conveyor frame
- 2 Stand
- 3 M10 1.5 x 16 mm hex head cap screws (x4)



- **J**
- Position the stands on a flat, level surface.
 Attach the stands to the frame (Figure 34).



Figure 34 3. Tighten hex screws (**Figure 34, item 1**).

Drive Package Installation

Typical Motor Components (Figure 35).

- 1 End drive package
- 2 Motor



1. Attach the motor (Figure 36, item 1) to the gear reducer (Figure 36, item 2).



Figure 36

For detailed assembly instructions, refer to the "7600 Series Center Drive Packages Installation, Maintenance and Parts Manual."

Belt Tensioning

- Do not tension the conveyor belt.
- Conveyors are shipped at proper tension.
- Over tensioning of the conveyor will cause the conveyor to run improperly.
- Some belt sag (Figure 37, item 1) is required for proper operation.



Figure 37

Required Tools

- 17 mm wrench (or adjustable wrench)
- 4 mm hex wrench (for bearing shaft assembly fasteners)
- 3 mm hex wrench
- Punch and hammer (to remove belt rod)

Checklist

- Keep service parts on hand. Refer to the "Service Parts" section starting on page 26 for recommendations.
- Replace any worn or damaged parts.

Cleaning

NOTE

Proper conveyor application, cleaning, and sanitation are the responsibility of the end user.

CAUTION

Dorner recommends cleaning all the "food zones" prior to placing conveyor into service. Ensure adequate access is provided for cleaning and servicing equipment so that the required level of hygiene can be maintained.

Routine Cleaning



Dorner recommends cleaning the inside and the outside of the conveyor on a daily basis. Refer to the following steps to access the inside of the conveyor.

Standard Conveyors

 Remove the guides, if applicable, by removing the pull pins (Figure 38, item 1) that connect the guide (Figure 38, item 2) to the frame.



Figure 38

2. Tip up idler tail assembly (Figure 39).



Figure 39

3. Lift up on the belt (Figure 40).



Figure 40

Conveyors with Lifters

 Remove the guides, if applicable, by removing the pull pins (Figure 38, item 1) that connect the guide (Figure 38, item 2) to the frame.

Use the lifter handle (Figure 41, item 1) to raise the lifters (Figure 41, item 2) and raise the tip up tail (Figure 41, item 3).



Figure 41



Periodic Cleaning

Dorner recommends complete disassembly of the conveyor periodically for thorough cleaning.

For conveyor disassembly and reassembly instructions:

- Refer to "Conveyor Belt Replacement" on page 16.
- Refer to "Sprocket and Puck Removal" on page 18.
- Refer to "Reassembling Tail Assemblies" on page 20.

Lubrication

Conveyor Bearings

Conveyor bearing lubrication is required. Dorner recommends using an H-1 food grade grease.

NOTE

Although bearings are sealed, re-greasing is recommended to increase bearing life. An H-1 food grade grease is recommended. The frequency of bearing re-greasing is dependent upon the application in which the conveyor is being used. Frequency of regreasing will increase with the frequency of conveyor washing. Add grease to the bearing using the zerk fitting (Figure 42, item 1) on the exterior of the bearing shaft assembly.



Figure 42

2. On LPZ knuckles, add grease to grease fitting (Figure 43, item 1).



Figure 43

3. Replace the bearings if they become worn.

Wearstrips and Belt Returns

Replace the wearstrips and belt returns if they become worn.

For wearstrip and belt return installation instructions:

- For wearstrips, replace as needed, making sure wear strips are situated securely in the frame slots.
- For belt returns, Refer to "Belt Return Installation" on page 10.

Maintaining the Conveyor Belt

Troubleshooting

NOTE

Visit www.dorner.com for complete list of troubleshooting solutions.

Inspect conveyor belt for:

- Surface cuts or wear
- Skipping

Damage to belt links or rods, surface cuts and / or wear indicate:

- Sharp or heavy parts impacting belt
- Jammed parts
- Accumulated dirt
- Foreign material inside the conveyor
- Improperly positioned accessories

Skipping indicates:

- Excessive load on belt
- Worn sprockets or impacted dirt on drive pulley

Damage to belt links or rods indicate:

- Excessive load on belt
- Dirt impacted on sprockets
- Excessive or improper side loading
- Improperly positioned accessories

Conveyor Belt Replacement



Conveyors with Guides

1. Remove the pull pins (Figure 44, item 1) that connect the guides (Figure 44, item 2) to the frame.



Figure 44

2. Remove the guides (Figure 45, item 1).





3. Follow the belt replacement procedures described in "Standard Belts" on page 16".

Standard Belts

1. Place the idler tail assembly in the UP position (Figure 46).



Figure 46



• Disconnecting more than one pivot bracket at a time or not bolting the stands to the floor can cause the conveyor to tip and may result in serious injury.

2. Lower the quick release arm (Figure 47, item 1) on one of the stands. *Note: if the conveyor is not equipped with Quick Release (QR Type) stands, it will be necessary to remove the entire stand.* For detailed instructions, refer to the "Sanitary Support Stands Installation, Maintenance and Parts Manual."



Figure 47

3. Slide the old belt (Figure 48, item 1) off the conveyor frame (Figure 48, item 2).



Figure 48

- 4. Secure the quick release arm on the stand and repeat steps 2 and 3 until the entire belt is off the conveyor.
- 5. Remove the belt returns by pushing up on the return shaft (Figure 49, item 1) and sliding it through the large hole (Figure 49, item 2) in the frame.



Figure 49

- 6. Lower the opposite end of the return shaft (Figure 49, item 1) and slide it out of the frame.
- 7. Remove the belt.
- Replace the damaged or worn belt. Refer to "Belt Installation" on "Belt and Frame Sections" on page 7 and "Belt Return Installation" "Belt Return Installation" on page 10.

Conveyor Belt Tensioning



1. If there appears to be too much belt sag, place tip up idler tail in the down position (**Figure 50, item 1**).



Figure 50

- 2. Remove both pull pins (Figure 50, item 2), and extend the idler tail to the next groove (Figure 50, item 3) on the bearing shaft.
- 3. Continue extending the tension end until the belt is sufficiently tight (Figure 50).

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- 4. Reinsert the pull pins.
- Do not tension the conveyor belt.
- Conveyors are shipped at proper tension.
- Over tensioning of the conveyor will cause the conveyor to run improperly.
- Some belt sag (Figure 51, item 1) is required for proper operation.



Figure 51

Sprocket and Puck Removal



- Remove the conveyor belt to access the sprockets / pucks. Refer to "Conveyor Belt Replacement" on page 16.
- 2. Remove the desired sprocket / puck by following these instructions:
- A Drive Sprocket Removal
- B Idler Puck Removal

A - Drive Sprocket Removal



1. Loosen the button head screws (**Figure 52, item 1**) that connect the gearmotor to the drive spindle.



Figure 52

- 2. Remove the bolts that connect the motor to the drive assembly (**Figure 53**).
- 3. Remove the motor (Figure 53, item 1) from the drive assembly (Figure 53, item 2).



Figure 53

4. Unbolt the drive assembly and slide it off the bearing spindle (**Figure 54, item 1**).



Figure 54

5. Remove the pull pin (Figure 55, item 1).



Figure 55

6. Slide the drive tail assembly out of the take up blocks (**Figure 56**).



Figure 56

- 7. Slide the motor support bracket (Figure 56, item 1) off the drive spindle (Figure 56, item 2).
- 8. Remove the sprockets (Figure 56, item 3).

B - Idler Puck Removal

- 1. Remove the pull pins from take up blocks (Figure 55).
- 2. Slide the idler tail assembly (Figure 57, item 1) out of the take up blocks (Figure 57, item 2).



Figure 57

3. Remove the bearing cover (Figure 58, item 1).



Figure 58

4. Use a hex wrench (**Figure 59**, **item 1**) to loosen the bearing shaft assembly fasteners (**Figure 59**, **item 2**).



Figure 59

5. Slide the bearing shaft assembly (Figure 60, item 1) washer off (Figure 60, item 3), O-ring (Figure 60, item 4), and flanged puck (Figure 60, item 5) off the idler shaft (Figure 60, item 2).



Figure 60



Figure 61 7. Remove the pucks (Figure 61, item 2).

Reassembling Tail Assemblies

Refer to the "Service Parts" section starting on page 26 for complete diagrams and lists of all tail assembly components.

Tip Up Idler Tail

- 1. Place the idler puck (**Figure 62, item 1**) at the center of the bent retaining bar (**Figure 62, item 2**).
- Slide the idler puck onto the idler shaft (Figure 62, item 3). Make sure to center the idler puck.





Attach the flanged pucks (Figure 63, item 5), the Orings (Figure 63, item 4), the washers (Figure 63, item 3) and the bearing shaft assemblies (Figure 63, item 1) onto the idler shaft (Figure 63, item 2).



Figure 63

4. Attach the guard bar (Figure 64, item 1).



Figure 64

 Use a hex wrench (Figure 65, item 1) to tighten the bearing shaft fasteners (Figure 65, item 2) to 54 in•lbs (6 N•m). Check after 24 hours of conveyor use.





6. Attach the bearing covers. Reference (Figure 58).

Drive Tail

 Attach a flanged puck (Figure 66, item 1), an O-ring (Figure 66, item 4), a washer (Figure 66, item 5) and a bearing shaft assembly (Figure 66, item 2) to the supporter end of the drive spindle.



Figure 66

- 2. Slide the first sprocket (**Figure 66, item 3**) onto the drive spindle.
- 3. Insert the sprocket alignment bar (Figure 67, item 1) into the first sprocket (Figure 67, item 2) resting it up against the flanged puck (Figure 67, item 3). Position the first sprocket with the notch in the sprocket alignment bar.



Figure 67

4. Install the remaining sprockets (**Figure 68, item 1**) making sure to position each sprocket with the next available notch (**Figure 68, item 2**) in the sprocket alignment bar.



Figure 68

5. Install a flanged puck (**Figure 69, item 2**) onto spindle shaft. Install O-ring (**Figure 69, item 1**) onto spindle in groove provided.



Figure 69

6. Install washer (Figure 70, item 1) onto spindle shaft.



Figure 70

7. Slide the retaining ring (**Figure 71, item 1**) onto the drive spindle. Leave a slight gap between ring and washer to allow flanged puck to spin freely.



Figure 71

- 8. Tighten the retainer ring fastener using a hex wrench (Figure 71, item 2).
- 9. Slide the second bearing shaft assembly, or the motor mount bracket (**Figure 72, item 1**), onto the longer end of the drive spindle (**Figure 72, item 2**).



Figure 72

10. Attach the guard bar (Figure 73, item 1) to the bearing / motor mount bracket shafts (Figure 73, item 2).



Figure 73

11. Use a hex wrench (**Figure 74, item 1**) to tighten the bearing shaft fasteners (**Figure 74, item 2**) to 54 in•lbs (6 N•m). Check after 24 hours of conveyor use.



Figure 74

12. Attach the bearing covers.

Bearing Replacement

- 1. Secure the bearing shaft in the take up blocks.
- 2. Insert the rod end of a second bearing shaft through the bearing (**Figure 75**).



Figure 75

3. Apply lateral pressure to the rod until the bearing comes loose.

4. Remove the worn or damaged bearing (Figure 76).



Figure 76

5. Replace the bearing.

NOTE

When inserting the new bearing, make sure the anti-rotation notch (Figure 76, item 1) on the bearing lines up with the groove inside the housing (Figure 76, item 2).

LPZ Knuckles

Wearstrips and Belt Returns

Replace the wearstrips and belt returns if they become worn.

For wearstrip and belt return installation instructions:

- For wearstrips, replace as needed, making sure wear strips are situated securely in the frame slots.
- For belt returns, Refer to "Belt Return Installation" on page 10.

Removal

1. Remove three bolts (**Figure 77, item 1**) on each side, and remove spindle assembly (**Figure 77, item 2**) from knuckle.





2. Remove the bearing cover (Figure 78, item 1).



Figure 78

- 3. Use a hex wrench to loosen the bearing shaft assembly fasteners (Figure 78, item 2).
- 4. Slide the bearing flange assembly (Figure 78, item 3), off the spindle shaft end (Figure 78, item 4).
- 5. Remove bolt (**Figure 79, item 1**), to slide sprockets (**Figure 79, item 2**) from spindle shaft and sprocket alignment bar (**Figure 79, item 3**).





Installation

1. Slide the first sprocket (**Figure 80, item 1**) onto the spindle shaft.



Figure 80

- 2. Insert the sprocket alignment bar (Figure 80, item 2) into the first sprocket (Figure 80, item 1). Position the first sprocket with the notch in the sprocket alignment bar.
- 3. Install the remaining sprockets (**Figure 80, item 3**) making sure to position each sprocket with the next available notch in the sprocket alignment bar.
- 4. Secure sprockets in place with bolt (Figure 80, item 4).
- 5. Slide the bearing flange assembly (**Figure 81, item 1**), onto the spindle shaft end (**Figure 81, item 2**).



Figure 81

- 6. Use a hex wrench to tighten the bearing shaft assembly fasteners (**Figure 81, item 3**).
- 7. Install the bearing cover (Figure 81, item 4).
- Insert spindle assembly (Figure 82, item 1) onto knuckle, and attach with three bolts (Figure 82, item 2).



Figure 82

Notes

NOTE

For replacement parts other than those shown in this section, contact an authorized Dorner Service Center or the factory. Key Service Parts and Kits are identified by the Performance Parts Kits logo _____. Dorner recommends keeping these parts on hand.

Drive End Components



| Item | Part Number | Description | | | |
|----------------|---------------------|--|--|--|--|
| 1 | 807-1454 | Bearing Cover | | | |
| 2 | 500078 | Shaft Assembly with Bearing | | | |
| 3 | 501486 | Flanged Puck | | | |
| 4 | 807-1445 | Sprocket | | | |
| 5 | 5207 <u>WW</u> | Drive Spindle | | | |
| 6 | 506253- <u>WW</u> | Sprocket Alignment Bar | | | |
| 7 | 912-111SS | Square Key .25 x 2.50" | | | |
| 8 * | 500078 | Shaft Assembly with Bearing | | | |
| 9 | 5154 <u>WW</u> | Pinch Guard Shaft | | | |
| 10 | 501381 | Washer | | | |
| 11 | 807-1588 | O-Ring | | | |
| 12 | 501583 | Pinch Guard | | | |
| 13 | 501489 | Pin Assembly | | | |
| 14 | 802-162 | Bearing | | | |
| 15 | 961012MSS | Hex Head Cap Screw, M10 x 12 mm | | | |
| 16 | 501485 | Limiter Support Arm | | | |
| 17 | 5209 <u>WW</u> | Limiter for Flat Belt Conveyors | | | |
| | 520901 | Limiter, Left Hand for Cleated Belt Conveyors | | | |
| | 520902 | Limiter, Right Hand for Cleated Belt Conveyors | | | |
| 18 | 501487 | Flanged Puck, Drive End | | | |
| 19 C | 76DDU12- <u>WW</u> | Drive Spindle Kit, for Flat Belt Conveyor when Conveyor is ordered with a Dorner Gearmotor Mounting Package (Includes Items 1, 3, 4, 10, 11, 14, 17 and 18) | | | |
| | 76DDCU12- <u>WW</u> | Drive Spindle Kit, for Flat Belt Conveyor when Conveyor is ordered without a Dorner Gearmotor Mounting Package (Includes Items 1, 3, 4, 10, 11, 14, 17 and 18) | | | |
| 20 | 76DDUC12- <u>WW</u> | Drive Spindle Kit, for Cleated Belt Conveyor when Conveyor is ordered with a Dorner Gearmotor Mounting Package (Includes Items 1, 3, 4, 10, 11, 14, 17 and 18) | | | |
| | 76DCUC12- <u>WW</u> | Drive Spindle Kit, for Cleated Belt Conveyor when Conveyor is ordered without a Dorner Gearmotor Mounting Package (Includes Items 1, 3, 4, 10, 11, 14, 17 and 18) | | | |

| Item | Part Number | Description | | |
|---|----------------------|--|--|--|
| 21 | 76DDDUT12- <u>WW</u> | Drive Tail Kit, when Conveyor is ordered with a Dorner Gearmotor Mounting Package (Includes Items 1 through 13, and 18) | | |
| | 76DDCTU12- <u>WW</u> | Drive Tail Kit, when Conveyor is ordered without a Dorner Gearmotor Mounting Package (Includes Items 1 through 13, and 18) | | |
| WW = Conveyor width ref: 06 - 36 in 02 increments | | | | |
| * When the conveyor is ordered with a Dorner gearmotor mounting package the shaft assembly is replaced with a gearmotor mounting bracket. | | | | |

| Sprocket Quantity (Item 4) | | | | |
|----------------------------|-------------------|--|--|--|
| Width | Sprocket Quantity | | | |
| 6" (152mm) | 2 | | | |
| 8" (203mm) | 2 | | | |
| 10" (254mm) | 3 | | | |
| 12" (305mm) | 4 | | | |
| 14" (356mm) | 4 | | | |
| 16" (406mm) | 5 | | | |
| 18" (457mm) | 5 | | | |
| 20" (508mm) | 6 | | | |
| 22" (559mm) | 6 | | | |
| 24" (610mm) | 6 | | | |
| 26" (660mm) | 7 | | | |
| 28" (711mm) | 8 | | | |
| 30" (762mm) | 8 | | | |
| 32" (813mm) | 8 | | | |
| 34" (864mm) | 9 | | | |
| 36" (914mm) | 10 | | | |

Tension End



| Item | Part Number | Description |
|------|----------------|-----------------------------|
| 1 | 807-1454 | Bearing Cover |
| 2 | 500079 | Shaft Assembly with Bearing |
| 3 | 501486 | Flanged Puck |
| 4 | 501189 | Idler Disc |
| 5 | 5156 <u>WW</u> | Idler Shaft |
| 6 | 5212 <u>WW</u> | Bent Retaining Bar |
| 7 | 501583 | Pinch Guard |
| 8 | 5154 <u>WW</u> | Pinch Guard Shaft |
| 9 | 501381 | Washer |

| Item | Part Number | Description | |
|-------------|--|---|--|
| 10 | 807-1588 | O-Ring | |
| 11 | 501184 | Stop Key | |
| 12 | 5182 <u>WW</u> | Tip Up Shaft Assembly | |
| 13 | 501676 | Pin Assembly | |
| 14 | 802-162 | Bearing | |
| 15 | 501681 | Idler Shaft Sleeve | |
| 16 | 76UI- <u>WW</u> | Idler Spindle Kit (Includes items 1, 3, 4, 10 and 14) | |
| 17 | 76UIT- <u>WW</u> | Idler Tail Kit (Includes items 1 through 10, 13 and 14) | |
| <u>WW</u> = | <u>WW</u> = Conveyor width ref: 06 - 36 in 02 increments | | |

Conveyor Frame and Extension



| Item | Part Number | Description | | |
|--|--------------------|--|--|--|
| 1 | | Consult Factory for Frame Part Number | | |
| 2 | 501800- <u>LLL</u> | Straight Wear Strip | | |
| 3 | 501190 | Hex Post Connector | | |
| 4 | 961016MSS | Hex Head Cap Screw M10-1.5 x 16mm | | |
| 5 | 807-1616 | O-Ring | | |
| LLL = Conveyor length ref: 036 - 999 in 001 increments | | | | |

| | Wear Strip Quantity (Item 2) | | | | | | | | |
|------------------------------|------------------------------|------|--------------------------------|------|------|------|------|------|------|
| | | | Conveyor Length (<u>LLL</u>) | | | | | | |
| | | 036- | 133- | 253- | 373- | 493- | 613- | 733- | 853- |
| | | 132 | 252 | 372 | 492 | 612 | 732 | 852 | 999 |
| | 06 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| | 08 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| | 10 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 |
| | 12 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 |
| R | 14 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 |
| Conveyor Width (<u>WW</u>) | 16 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 |
| th (| 18 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 |
| Vid | 20 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| ٥r ٧ | 22 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| eyc | 24 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| N | 26 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 |
| ŏ | 28 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 |
| | 30 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 |
| | 32 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 |
| | 34 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 |
| | 36 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 |

Upper Knuckle for Flat Belt Conveyors



| Item | Part Number | Description |
|------|-------------------|---|
| 1 | 5260 <u>WW</u> | Frame Assembly for 5° Knuckle |
| | 5261 <u>WW</u> | Frame Assembly for 10° Knuckle |
| | 5262 <u>WW</u> | Frame Assembly for 15° Knuckle |
| 2 | 501695- <u>AA</u> | Wear Strips |
| 3 | 501985- <u>AA</u> | Hold Down Guide for Knuckle - Right Hand |
| 4 | 501984- <u>AA</u> | Hold Down Guide for Knuckle - Left Hand |

| Item | Part Number | Description | | |
|--|---|--------------|--|--|
| 5 | 501676 | Pull Pin | | |
| 6 | 5032 <u>WW</u> | Return Shaft | | |
| 7 | 500075 | Return Shoe | | |
| 8 | 76UKL- <u>WW-AA</u> Upper Knuckle Kit (Includes items 2 and 7) | | | |
| <u>WW</u> = Conveyor width ref: 06 - 24 in 02 increments | | | | |
| <u>AA</u> = Angle 05, 10 or 15 | | | | |



Upper Knuckle for Cleated Belt Conveyors

| Item | Part Number | Description |
|------|----------------|--|
| 1 | 5263 <u>WW</u> | Frame Assembly for 30° Knuckle |
| | 5264 <u>WW</u> | Frame Assembly for 45° Knuckle |
| | 5265 <u>WW</u> | Frame Assembly for 60° Knuckle |
| 2 | 807-1454 | Bearing Cover |
| 3 | 500288 | 3 Hole Flange with Bearing |
| 4 | 961016MSS | Hex Head Cap Screw, M10-1.5x16 mm |
| 5 | 5243 <u>WW</u> | Spindle |
| 6 | 501494 | Grooved Hex Head Cap Screw, M10-1.5x16 mm |
| 7 | 807-1616 | O-Ring |
| 8 | 807-1445 | Sprocket |

| Item | Part Number | Description |
|--|------------------------|--------------------------------------|
| 9 | 5164 <u>WW</u> | Sprocket Alignment Bar |
| 10 | 501881- <u>AA</u> | 1.5" High Top Guide, Right Hand |
| | 501880- <u>AA</u> | 3" High Top Guide, Right Hand |
| 11 | 501976- <u>AA</u> | 1.5" High Top Guide, Left Hand |
| | 501975- <u>AA</u> | 3" High Top Guide, Left Hand |
| 12 | 501683 | Return Guide |
| 13 | 501676 | Pin Assembly |
| 14 | 802-162 | Bearing |
| 15 | 76UK- <u>WW</u> | Upper Knuckle Kit (Includes items 2, |
| | 3, 4, 8, 9, 12 and 13) | |
| <u>WW</u> = Conveyor width ref: 06 - 24 in 02 increments | | |
| <u>AA</u> = Angle 30, 45 or 60 | | |

7600 Ultimate Series End Drive Conveyors

Lower Knuckle for Cleated Belt Conveyors



| Item | Part Number | Description |
|------|-------------------|--------------------------------|
| 1 | 5257 <u>WW</u> | Frame Assembly for 30° Knuckle |
| | 5258 <u>WW</u> | Frame Assembly for 45° Knuckle |
| | 5259 <u>WW</u> | Frame Assembly for 60° Knuckle |
| 2 | 501886- <u>AA</u> | Wear Strip |

| Item | Part Number | Description |
|---|--------------------|--|
| 3 | 501980- <u>AA</u> | 1.5" Hold Down Guide |
| | 501979- <u>AA</u> | 3" Hold Down Guide |
| 4 | 501676 | Pin Assembly |
| 5 | 506254- <u>WW</u> | Retention Wearstrip |
| 6 | 74LK- <u>WW-AA</u> | Lower Knuckle Kit (Includes Item 2) |
| WW = Conveyor width ref: 06 - 24 in 02 increments | | |
| <u>AA</u> = Angle 30, 45 or 60 | | |

3" (76 mm) High Sides



Cleated 1" (25 mm) Guides



| ltem | Part Number | Description |
|------|----------------------|---|
| 1 | 502401- <u>LLLLL</u> | 1" Cleated Right Hand Guide (6" - 16" wide conveyors) |
| | 502402- <u>LLLLL</u> | 1" Cleated Right Hand Guide (18" - 24" wide conveyors) |
| 2 | 502501- <u>LLLLL</u> | 1" Cleated Left Hand Guide (6" - 16" wide conveyors) |
| | 502502- <u>LLLLL</u> | 1" Cleated Left Hand Guide (18" - 24" wide conveyors) |

| Item | Part Number | Description |
|---|----------------------|---|
| 3 | 501676 | Pin Assembly |
| 4 | 502301- <u>LLLLL</u> | 1" Cleated Guide Square End (6" - 16" wide conveyors) |
| | 502302- <u>LLLLL</u> | 1" Cleated Guide Square End (18" - 24" wide conveyors) |
| LLLLL = Guide Length in inches with 2 decimal places. | | |
| Example: Guide Length = 95.25" LLLLL = 09525 | | |

Cleated 3" (76 mm) Guides



| Item | Part Number | Description |
|------|----------------------|---|
| 1 | 502701- <u>LLLLL</u> | 3" Cleated Right Hand Guide (6" - 16" wide conveyors) |
| | 502702- <u>LLLLL</u> | 3" Cleated Right Hand Guide (18" - 24" wide conveyors) |
| 2 | 502801- <u>LLLLL</u> | 3" Cleated Left Hand Guide (6" - 16" wide conveyors) |
| | 502802- <u>LLLLL</u> | 3" Cleated Left Hand Guide (18" - 24" wide conveyors) |

| | ltem | Part Number | Description |
|---|---|----------------------|---|
| | 3 | 501676 | Pin Assembly |
| | 4 | 502601- <u>LLLLL</u> | 3" Cleated Guide Square End (6" - 16" wide conveyors) |
| | | 502602- <u>LLLLL</u> | 3" Cleated Guide Square End (18" - 24" wide conveyors) |
| | LLLLL = Guide Length in inches with 2 decimal places. | | |
| ĺ | Example: Guide Length = 95.25" LLLLL = 09525 | | |

Flat Belt Returns



| Item | Part Number | Description |
|---|----------------|-------------------------------------|
| 1 | 807-1551 | Clamp |
| 2 | 500990 | Return Disk |
| 3 | 5108 <u>WW</u> | Return Shaft |
| 4 | 76R- <u>WW</u> | Return Kit (Includes Items 1 and 2) |
| | | |
| WW = Conveyor width ref: 06 - 36 in 02 increments | | |

Cleated Belt Returns



| Item | Part Number | Description |
|------|-------------|---|
| 1 | 807-1551 | Clamp |
| 2 | 500990 | Return Disk |
| 3 | 501097 | Cleated Return Shaft |
| 4 | 76CR | Cleated Return Kit (Includes Items 1 and 2) |
| | | |

Lifters



| Item | Part Number | Description |
|---|----------------|------------------------------------|
| 1 | 5054 <u>WW</u> | Belt Lifter Shaft |
| 2 | 500195 | Belt Lifter |
| 3 | 500491 | Belt Lifter Handle |
| 4 | 960812MSS | Hex Head Cap Screw M8-1.25 x 12 mm |
| WW = Conveyor width ref: 06 - 36 in 02 increments | | |

Configuring Conveyor Part Number



Flat Belt Conveyor

Refer to the model number on the conveyor frame (**Figure 83**). From the model number, determine conveyor width (<u>WW</u>), length (<u>LLL</u>), drive stand location (<u>S</u>), idler stand location (<u>S</u>), cleaning options (<u>C</u>), drive/pulley type (<u>D</u>), profile (<u>G</u>) and belt material (<u>BB</u>).

Cleated Belt Conveyor

Refer to the model number on the conveyor frame (**Figure 83**). From the model number, determine conveyor width (<u>WW</u>), length (<u>LLL</u>), drive stand location (<u>S</u>), idler stand location (<u>S</u>), cleaning options (<u>C</u>), cleated belt material (<u>BB</u>) and cleat spacing (<u>SS</u>).

Example: 7HM12072CCAA101

7600 Ultimate Series end drive, flat belt conveyor, 12" (305mm) wide x 72" (1829mm) long, stands located 18" (457mm) from each end, frame cutout cleaning option, side drive with standard pulleys on each end, low side profiles, and 01 belt material.

Example: 7DM12072CCA0110

7600 Ultimate Series end drive, cleated belt conveyor, 12" (305mm) wide x 72" (1829mm) long, stands located 18" (457mm) from each end, frame cutout cleaning option, 01 cleated belt material, side drive with standard pulleys on each end, and 10"spacing for cleats.

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.

A representative will discuss action to be taken on the returned items and provide a Returned Goods Authorization number for reference.

There will be a return charge on all new undamaged items returned for credit where Dorner was not at fault. Dorner is not responsible for return freight on such items.

Conveyors and conveyor accessories

| Standard catalog conveyors | 30% |
|--|----------------------|
| MPB Series, cleated and specialty belt conveyors | 50% |
| 7400 & 7600 Series conveyors | non-returnable items |
| Engineered special products | case by case |
| Drives and accessories | 30% |
| Sanitary stand supports | non-returnable items |
| | |

Parts Standard stock parts MPB, cleated and specialty belts

30% non-returnable items

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 Technical Sales, Catalog Sales and Service Teams will gladly help with your questions on Dorner products.

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

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



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USA TEL 1-800-397-8664 (USA) FAX 1-800-369-2440 (USA) Internet: www.dorner.com Outside the USA: TEL 1-262-367-7600 FAX 1-262-367-5827