

3200 Series Precision Move Conveyors

Installation, Maintenance & Parts Manual



Fixtured Conveyor



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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 3200 series conveyors are covered by Patent Numbers 5,156,260, 6,871,737B2, 6,910,571B1, 6,971,509B2, and corresponding patents and patent applications in other countries.

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 \square .

Warnings – General Safety



Product Description

Refer to Figure 1 for typical components.

Typical Components:

| 1 | Conveyor |
|---|----------------------------|
| 2 | Gearmotor Mounting Package |
| 3 | Gearmotor |
| 4 | Guiding & Accessories |
| 5 | Mounting Brackets |
| 6 | Return Rollers |
| 7 | Support Stand |
| 8 | Drive End |
| 9 | Idler/Tension End |



Specifications

Models:



* See Ordering and Specifications Catalog for details.

Center drive location to be at center of first frame section. Minimum center drive conveyor length is 36" (91 cm).

Adding Pallets to Belt



Figure 2

- Maximum width of Pallet = 3" (Figure 2, item 1)
- Maximum height of Pallet = 3" (Figure 2, item 2)
- Maximum weight of Empty Pallet = 1.00 lb per belt insert
- Maximum speed of pallet around end roller = 270 ft/min.

Specifications

Conveyor Supports:

Maximum Distances:

1 = 24" (610 mm) (Drive End) 2 = 12 ft (3658 mm) 3 = 36" (914 mm) (Idler End)



Figure 3

Specifications:

| Conveyor Width Reference (WW) | 04 | 06 | 08 | 10 | 12 | 14 | 16 | 18 |
|-------------------------------|--|----------|----------|----------|----------|----------|----------|----------|
| Conveyor Belt Width | 3.75" | 6" | 8" | 10" | 12" | 14" | 16" | 18" |
| | (95 mm) | (152 mm) | (203 mm) | (254 mm) | (305 mm) | (355 mm) | (406 mm) | (457 mm) |
| Maximum Conveyor Load* (See | 200 lb | 480 lb | 480 lb | 480 lb | 750 lb | 750 lb | 750 lb | 750 lb |
| NOTE Below) | (91 kg) | (217 kg) | (217 kg) | (217 kg) | (340 kg) | (340 kg) | (340 kg) | (340 kg) |
| Conveyor Startup Torque* | 8 in-lb | 10 in-lb | 12 in-lb | 15 in-lb | 18 in-lb | 21 in-lb | 24 in-lb | 27 in-lb |
| | (0.9 Nm) | (1.1 Nm) | (1.4 Nm) | (1.7 Nm) | (2.0 Nm) | (2.4 Nm) | (2.7 Nm) | (3.1 Nm) |
| Conveyor Length Reference | 0300 to 5000 in 0001 increments | | | | | | | |
| (LLLL) | | | | | | | | |
| Conveyor Length | 3 ft (914mm) to 50 ft (15240 mm) in 0.12" (0.31mm) increments | | | | | | | |
| Belt Travel | 10.5" (266 mm) per revolution of pulley | | | | | | | |
| Maximum Belt Speed* | 517 ft/minute (157 m/minute) for flat belt and 270 ft/minute (82 m/minute) for fixtured belt | | | | | | | |
| Drive Sprocket | 0.5" pitch, 21 tooth, 3.3423" pitch diameter | | | | | | | |

* See Ordering and Specifications Catalog for details.

NOTE

Maximum conveyor loads based on:

- Non-accumulating product
- Product moving towards gearmotor
- Conveyor being mounted horizontal

NOTE

Conveyor MUST be mounted straight, flat and level within confines of conveyor. Use a level (Figure 4, item 1) for setup.



Figure 4

Required Tools

- Hex-key wrenches:
- 4 mm, 5 mm
- Level
- Torque wrench

Recommended Installation Sequence

- Install support stands (see accessory instructions)
- Assemble conveyor (if required)
- Attach mounting brackets to conveyor
- Attach conveyor to stands
- Install return rollers on conveyor (optional)
- Mount gearmotor mounting package (see accessory instructions)
- Attach guides/accessories (see page 22 through 38 of "Service Parts" section for details)

Conveyors Up to 13 ft (3962 mm)

No assembly is required. Install mounting brackets and return rollers. Refer to "Mounting Brackets" on page 8 and "Return Rollers" on page 10.

Conveyors Longer Than 13 ft (3962 mm)

Installation Component List:

- 1 Conveyor frame
- 2 Section Label
- 1. Locate and arrange conveyor sections by section labels (Figure 5, item 2).



Figure 5

 On tension end of the conveyor, identified by the pinion locking screw (Figure 6, item 1), push in head plate assembly (Figure 6, item 2): Loosen the pinion locking screw (Figure 6, item 1), adjust the pinion torque screw on opposite side with a hex wrench (Figure 6, item 3). On both sides of conveyor, loosen the two tail clamp bolts (Figure 6, item 4), and push head plate assembly (Figure 6, item 2) inward.



Figure 6

3. Roll out conveyor belt and place conveyor frame sections (Figure 7, item 1) into belt loop.



Figure 7



 Join conveyor sections and install connector brackets (Figure 8, item 1) or connector/mount brackets (Figure 8, item 2) and screws (Figure 8, item 3) on both sides as indicated. Tighten screws to 60 in-lb (7 Nm).



Figure 8

NOTE

For Conveyors longer than 20 ft (6096 mm) use the process outlined in the "Conveyor Belt Tensioning" section on page 14. Extend the Drive End Tail Assembly to the zero mark of the tension indicator (Figure 9, item 1) before proceeding to step 5. The zero mark for the tension indicator is when the indicator begins to turn black.



Figure 9

- 5. Tighten conveyor belt, refer to "Conveyor Belt Tensioning" on page 14.
- 6. Install mounting brackets and return rollers. Refer to "Mounting Brackets" on page 8 and "Return Roller" on page 10.

Mounting Brackets

1. Locate brackets. Exploded views shown in Figure 10.



- Figure 10
- Remove screws (Figure 10, item 1 & 2), washers (Figure 10, item 3), nuts (Figure 10, item 4) and T-bars (Figure 10, item 5) from brackets.

 Insert T-bars (Figure 10, item 5) into conveyor side slots (Figure 11, item 1). Fasten brackets (Figure 11, item 2) to conveyor with mounting screws (Figure 11, item 3).



Figure 11



- Fasten brackets to support stand with mounting screws (Figure 11, item 4), washers (Figure 11, item 5) and nuts (Figure 11, item 6).
- Tighten screws (Figure 11, item 3 & 4) to 60 in-lb (7 Nm).

Installation of Pallet to the Belt

There are two methods available to mount pallets to the belt:

- Using Fixture Mounting Bars
- Attaching Directly to the Conveyor Belt

Using Fixture Mounting Bars

- 1. Loosen conveyor belt.
- 2. Install inserts (Figure 12, item 1) from underside of belt.



Figure 12

- 3. Install belt fixture (Figure 13, item 1).
- 4. Attach with M5 flat head screws (Figure 13, item 2). Tighten to 35 in-lb (4 Nm).



Figure 13

 Install pallet (Figure 14, item 1) onto belt fixture (Figure 14, item 2). Attach with M6 screw(s) (Figure 14, item 3). Tighten to 60 in-lb (7 Nm).



Figure 14

6. Re-tighten conveyor belt.

NOTE

Confirm that the cut out in the pallet is properly sized so the pallet sits flat and contacts the conveyor belt. Contact factory for exact slot dimensions.

Attaching Directly to the Conveyor Belt

- 1. Loosen conveyor belt.
- 2. Install inserts (Figure 15, item 1) from underside of belt.



Figure 15

NOTE

Confirm that the pallet contacts counterbores for the belt inserts. The pallet must sit flat and contact the conveyor belt. Contact factory for exact slot dimensions.

3. Install pallet (Figure 16, item 1) onto mounting inserts, and secure with M5 hex screws (Figure 16, item 2). Tighten M5 screws to 35 in-lb (4 Nm).



Figure 16

4. Re-tighten conveyor belt.

Return Rollers

Cleated Belt and 4–18" (101–457 mm) Wide & Flat Belt Conveyors

1. Locate return rollers. Exploded views shown in Figure 17 & Figure 18.



Figure 17



Figure 18

- Remove screws (Figure 17, item 1) & (Figure 18, item 1) and clips (Figure 17, item 2) & (Figure 18, item 2) from roller assembly.
- 3. Install roller assemblies (Figure 19, item 1) as shown. Tighten screws (Figure 19, item 2) to 60 in-lb (7 Nm).



Figure 19

Required Tools

Standard Tools

- Hex-key wrenches:
 - 2.5 mm, 4 mm, 5 mm

Checklist

- Keep service parts on hand (see "Service Parts" section for recommendations)
- Keep supply of belt cleaner
- Clean entire conveyor and knurled pulley while disassembled
- Replace worn or damaged parts

Lubrication

No lubrication is required. Replace bearings if worn.

Maintaining Conveyor Belt

Troubleshooting

Inspect conveyor belt for:

- Surface cuts or wear
- Stalling or slipping

Surface cuts and wear indicate:

- Sharp or heavy parts impacting belt
- · Jammed parts
- Foreign material inside the conveyor
- · Improperly positioned accessories
- Bolt-on guiding is pinching belt
- Stalling or slipping indicates:
- Excessive load on belt
- Conveyor belt or drive timing belt are not properly tensioned
- Impacted dirt on drive pulley
- · Intermittent jamming or drive train problems

Cleaning

IMPORTANT

Do not use belt cleaners that contain alcohol, acetone, Methyl Ethyl Ketone (MEK) or other harsh chemicals.

Use Dorner Belt Cleaner. Mild soap and water may also be used. Do not soak the belt.

For /05 woven polyester and /06 black anti-static belts, use a bristled brush to improve cleaning.

Conveyor Belt Replacement

| A WARNING | |
|---|--|
| | |
| Exposed moving parts can cause severe injury. LOCK OUT POWER before removing | |

Conveyor Belt Replacement Sequence

guards or performing maintenance.

• Remove old conveyor belt:

-Conveyor without Stands or Gearmotor Mounting Package

-Conveyor with Stands and Gearmotor Mounting Package

- Install new conveyor belt
- Tension conveyor belt

Belt Removal



Place temporary support stands at both ends (Figure 20, item 1) of the conveyor. Place an additional support stand under the drive motor (Figure 20, item 2), if equipped. See WARNING.





- 2. Remove mounting brackets (Figure 20, item 3) from one side of conveyor. (Reverse steps 3 & 4 of "Mounting Brackets" section on page 8).
- 3. For flat belt and cleated belt conveyors, remove return rollers and guiding on the opposite side of the gearmotor.
- For fixture belt conveyors, on the opposite side of the gearmotor remove the UHMW return rail by removing support clip (Figure 21, item 1) and guiding (Figure 21, item 2) by removing clip (Figure 21, item 3) and return rail (Figure 21, item 4) on both ends of conveyor).



Figure 21

5. For fixture belt conveyor, loosen UHMW support screw of idler tails. Loosen screw (Figure 22, item 1) on both sides of tail with hex wrench (Figure 22, item 2).



Figure 22

 On tension end of the conveyor, identified by the pinion locking screw (Figure 23, item 1), push in head plate assembly (Figure 23, item 2): Loosen the pinion locking screw (Figure 23, item 1), adjust the pinion torque screw (Figure 23, item 3). On both sides of conveyor, loosen the two tail clamp bolts (Figure 23, item 4), and push head plate assembly (Figure 23, item 2) inward.

NOTE

For some sizes of fixtured belt conveyors, the outer support plate of the idler tail needs to be removed to aid in belt removal.



Figure 23

7. Slide belt (Figure 24, item 1) from conveyor from opposite side of gearmotor.



Figure 24

Belt Installation



For some sizes of fixtured belt conveyors, the outer support plate of the idler tail needs to be removed to aid in belt removal.

- 1. Ensure temporary support stands (Figure 25, item 1) are placed at both ends of the conveyor. Place an additional support stand under the drive motor, if equipped. See WARNING.
- 2. Orient belt (Figure 25, item 2) point in the direction of belt travel as identified by the conveyor directional label (Figure 25, item 3).
- 3. Install belt (Figure 25, item 2) on conveyor. Lift conveyor slightly to avoid pinching belt on temporary support stands.



Figure 25

- Re-install conveyor mounting brackets. Refer 4. "Mounting Brackets" on page 8, steps 3 through 5.
- Tension belt. Refer to "Conveyor Belt Tensioning" on 5. page 14.
- If equipped, re-install return rollers and guiding. 6.

Conveyor Belt Tensioning



injury. LOCK OUT POWER before removing guards or performing maintenance.

 On tension end of the conveyor, identified by the pinion locking screw (Figure 26, item 1), loosen the two tail clamp bolts (Figure 26, item 2), on both sides of conveyor.



Figure 26

2. For fixture belt conveyor, loosen UHMW support screw of idler tails. Loosen screw (Figure 27, item 1) on both sides of tail with hex wrench (Figure 27, item 2).



Figure 27

 With 5mm hex wrench, hold pinion torque screw (Figure 26, item 3). Loosen the pinion locking screw (Figure 26, item 1) and turn the pinion torque screw (Figure 26, item 3) to extend head plate assembly.

NOTE

On pinion gear, do not exceed a torque of 100 in-lb (11.3 N-m). Over tensioning the conveyor belt could cause excessive pulley bearing load and early failure.

 Extend head plate assembly until proper tension in the belt is achieved. If proper tensioning can not be obtained before the belt life indicator is all black (Figure 28, item 1) the belt must be replaced.



Figure 28

- 5. After adjusting proper tensioning, tighten the pinion locking screw (Figure 26, item 1) to 69 in-lbs (7.8 Nm), and tighten tail clamp bolts (Figure 26, item 2) on both sides of conveyor to 146 in-lb (16.5 Nm).
- 6. Tighten UHMW support screws (Figure 27, item 1) to 69 in-lbs (7.8 Nm).
- 7. If belt tracking is necessary, refer to "Conveyor Belt Tracking" on page 15.

Conveyor Belt Tracking



Conveyors are equipped with belt tracking assemblies.

When adjusting belt tracking, always adjust the discharge end of the conveyor first. To adjust belt tracking:

- Ensure tensioning racks are extended and touching the idler pulley headplates: loosen the pinion locking screw (Figure 29, item 1) and rotate the pinion torque screw (Figure 29, item 2) clockwise until contact with the head plate is made, then tighten the pinion locking screw (Figure 29, item 1) to 69 in-lbs (7.8 N-m).
- 2. On the side of conveyor to be adjusted, loosen two (2) tail clamp screws (Figure 29, item 3).



Figure 29

With the conveyor running, use wrench (Figure 30, item 1) to rotate the tracking screw (Figure 31, item 2) in small increments until the belt tracks in the center of the conveyor.



Figure 30



Figure 31

Re-tighten the head plate fastening screws (Figure 29, item 3) with a 8 mm hex-key wrench to 146 in-lb (16.5 Nm).

Pulley Removal



Remove conveyor belt to access pulley(s). See "Conveyor Belt Replacement" on page 11. Remove the desired pulley following the corresponding instructions below:

- A Idler Pulley Removal
- **B** Drive Pulley Removal

A – Idler Pulley Removal

- 1. Temporarily support the idler pulley.
- 2. On one side of conveyor, loosen the four (4) fastening screws (Figure 32, item 1).





- 3. Remove screw (Figure 32, item 2).
- 4. Pull back the outer headplate (Figure 33, item 1) and remove the inner spacer (Figure 33, item 2).



Figure 33

- 5. Slide the idler pulley assembly (Figure 33, item 3) out of the headplate on the opposite side.
- Remove the pulley shaft assembly: remove the clip ring (Figure 34, item 1) and washer (Figure 34, item 2) from one side of the pulley assembly.





7. Slide the shaft assembly (Figure 35, item 1) out of the pulley (Figure 35, item 2).



Figure 35

B – Drive Pulley Removal



Drive shaft keyway may be sharp. HANDLE WITH CARE.

- 1. Remove the gearmotor mounting package: Refer to your gearmotor mounting manual for removal procedure.
- 2. Remove four shaft cover screws (Figure 36, item 1). Remove the shaft cover (Figure 36, item 2).



Figure 36

3. Loosen the bearing collar set screw (Figure 37, item 1) and remove bearing collar (Figure 37, item 2). Repeat on drive shaft side of pulley (Figure 38, item 1) and (Figure 37, item 2).



Figure 37



Figure 38

NOTE

When reassembling, tighten the bearing collar set screws to 52 in-lbs (6 Nm). Check after 24 hours of conveyor use.

4. On the outer headplate assembly, remove two (2) screws (Figure 39, item 1).



Figure 39

5. Remove the outer headplate assembly (Figure 40, item 1).



Figure 40

- 6. On the drive headplate, remove two (2) screws (Figure 39, item 2).
- Remove the outer headplate assembly (Figure 40, item 1), and inner spacer (Figure 40, item 2).



Figure 41

8. Slide the drive pulley (Figure 41, item 3) out of the headplate on the opposite side.

Remove spacers (Figure 42, item 1) and rollers (Figure 42, item 2) from both sides of the drive pulley shaft.



Figure 42

Bearing Replacement



- A Idler Bearing
- **B** Drive Bearing

A – Idler Bearing Replacement

The bearings in a 3200 Series Idler Pulley can not be removed. Replace the entire pulley assembly when worn.

B – Drive Bearing Removal and Replacement



Removal

1. Turn bearing (Figure 43, item 1) to align with slots (Figure 43, item 2) in bearing housing. Then remove bearing.



Figure 43

Replacement

- 1. Inspect bearing housing bearing surface. If worn or damaged, replace. See "Service Parts" on page 22.
- Insert bearing (Figure 44, item 1) into housing slot (Figure 44, item 2). Locate anti-rotation nub (Figure 44, item 3) to align with slot (Figure 44, item 4), and twist bearing into housing.





Pulley Replacement

Idler Pulley

To replace the idler pulley, reverse the "Idler Pulley Removal" procedure on page 16.

Drive Pulley

To replace the drive pulley, reverse the "Drive Pulley Removal" procedure on page 17.

Upper Wear Strip Replacement



- 1. Remove conveyor belt. See "Belt Removal" section on page 18.
- 2. With a putty knife (Figure 45, item 1), start by raising edge of wear strip (Figure 45, item 2).



Figure 45

3. Remove old wear strip with a pliers (Figure 46, item 1).



Figure 46

4. Clean conveyor surface with isopropyl alcohol and allow to fully dry.

5. Install new wear strip (Figure 47, item 1).



Figure 47



6. Using a utility knife (Figure 47, item 2), cut out notch in each corner (Figure 47, item 3).

Lower Wear Strip Replacement



- Remove conveyor belt. See "Belt Removal" section on page 18.
- 2. Remove screw (Figure 48, item 1), clip (Figure 48, item 2), and spacer.



- 3. Remove screw(s) (Figure 48, item 3) from each retaining clip (Figure 48, item 4), and remove lower wear strip (Figure 48, item 5).
- 4. Clean conveyor surface with isopropyl alcohol and allow to fully dry.
- 5. Install new wear strip (Figure 48, item 5) and secure with retaining clips (Figure 48, item 4).
- 6. Install sag guard plate (Figure 49, item 1) with spacer (Figure 49, item 2) and screw (Figure 49, item 3).



Figure 49

 Adjust wear strip up or down as needed on slotted holes in sag guard plate (Figure 49, item 1) and retaining clip (Figure 48, item 4), and secure with screws (Figure 49, item 3).

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 & Auxiliary Output Idler End



3200 Series Precision Move Conveyors

| 1 802-135 D-Lok Bearing 2 350229 Tracking Block Assembly 3 300139 Shaft Cover 4 300885 Bearing Retainer 5 350131 Inner Tail Plate 6 301088 Tail Bar Clamp 7 301092 Side Drive Guard (Servo Drives Only) 8 301048 Drive Tail Plate 350153 Drive Tail Plate (Palleted Conveyor Only) 9 350156 Puck 10 350157-LLLLL Puck Spacer 11 350206-WW Spindle Assembly 350207-WW Dual Shaft Spindle Assembly 350207-WW Dual Shaft Spindle Assembly 350209-WW Dual Shaft Spindle Assembly 350208-MW Socket | ltem | Part Number | Description | |
|---|---|----------------------|--|--|
| 3 300139 Shaft Cover 4 300885 Bearing Retainer 5 350131 Inner Tail Plate 6 301088 Tail Bar Clamp 7 301092 Side Drive Guard (Servo Drives Only) 8 301048 Drive Tail Plate 350153 Drive Tail Plate (Palleted Conveyor Only) 9 350156 Puck 10 350157-LLLLL Puck Spacer 11 350206-WW Spindle Assembly 350208-WW Spindle Assembly 350208-WW Spindle Assembly 350207-WW Dual Shaft Spindle Assembly 350209-WW Dual Shaft Spindle Assembly 12 920612M Socket Head Screw, M6 - 1.00 x 12 mm 13 920630M Socket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only) 14 950816M Low Head Cap Screw, M8 - 1.25 x 16 mm 15 950825M Low Head Cap Scr | 1 | 802-135 | D-Lok Bearing | |
| 4 300885 Bearing Retainer 5 350131 Inner Tail Plate 6 301088 Tail Bar Clamp 7 301092 Side Drive Guard (Servo Drives Only) 8 301048 Drive Tail Plate 350153 Drive Tail Plate (Palleted Conveyor Only) 9 350156 Puck 10 350157-LLLL Puck Spacer 11 350206-WW Spindle Assembly 350208-WW Spindle Assembly (Servo Drive Only) 350200-WW Dual Shaft Spindle Assembly 350200-WW Dual Shaft Spindle Assembly 350209-WW Dual Shaft Spindle Assembly 12 920612M Socket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only) 14 950816M Low Head Cap Screw, M8 - 1.25 x 16 mm 15 950825M Low Head Cap Screw, M8 - 1.25 x 25 mm 16 32PMDS-WW Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) < | 2 | 350229 | Tracking Block Assembly | |
| 5 350131 Inner Tail Plate 6 301088 Tail Bar Clamp 7 301092 Side Drive Guard (Servo Drives Only) 8 301048 Drive Tail Plate 350153 Drive Tail Plate (Palleted Conveyor Only) 9 350156 Puck 10 350157-LLLL Puck Spacer 11 350206-WW Spindle Assembly 350208-WW Spindle Assembly (Servo Drive Only) 350207-WW Dual Shaft Spindle Assembly 350209-WW Socket Head Screw, M6 - 1.00 x 12 mm 13 920630M Socket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only) 14 950816M Low Head Cap Screw, M8 - 1.25 x 16 mm 15 950825M Low Head Cap Screw, M8 - 1.25 x 25 mm 16 32PMDS-WW Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Servo Drive | 3 | 300139 | Shaft Cover | |
| 6 301088 Tail Bar Clamp 7 301092 Side Drive Guard (Servo Drives Only) 8 301048 Drive Tail Plate 350153 Drive Tail Plate (Palleted Conveyor Only) 9 350156 Puck 10 350157-LLLLL Puck Spacer 11 350206-WW Spindle Assembly 350208-WW Spindle Assembly (Servo Drive Only) 350207-WW Dual Shaft Spindle Assembly 350207-WW Dual Shaft Spindle Assembly 350209-WW Dual Shaft Spindle Assembly 12 920612M Socket Head Screw, M6 - 1.00 x 12 mm 13 920630M Socket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only) 14 950816M Low Head Cap Screw, M8 - 1.25 x 16 mm 15 950825M Low Head Cap Screw, M8 - 1.25 x 25 mm 16 32PMDS-WW Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) <td>4</td> <td>300885</td> <td>Bearing Retainer</td> | 4 | 300885 | Bearing Retainer | |
| 7 301092 Side Drive Guard (Servo Drives Only) 8 301048 Drive Tail Plate 350153 Drive Tail Plate (Palleted Conveyor Only) 9 350156 Puck 10 350157-LLLLL Puck Spacer 11 350206-WW Spindle Assembly 350208-WW Spindle Assembly (Servo Drive Only) 350207-WW Dual Shaft Spindle Assembly 350207-WW Dual Shaft Spindle Assembly 350209-WW Dual Shaft Spindle Assembly 12 920612M Socket Head Screw, M6 - 1.00 x 12 mm 13 920630M Socket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only) 14 950816M Low Head Cap Screw, M8 - 1.25 x 25 mm 15 950825M Low Head Cap Screw, M8 - 1.25 x 25 mm 16 32PMDS-WW Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) | 5 | 350131 | Inner Tail Plate | |
| Only Only 8 301048 Drive Tail Plate 350153 Drive Tail Plate (Palleted Conveyor Only) 9 350156 Puck 10 350157-LLLLL Puck Spacer 11 350206-WW Spindle Assembly 350208-WW Spindle Assembly (Servo Drive Only) 350207-WW Dual Shaft Spindle Assembly 350209-WW Dual Shaft Spindle Assembly (Servo Drive Only) 12 920612M Socket Head Screw, M6 - 1.00 x 12 mm 13 920630M Socket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only) 14 950816M Low Head Cap Screw, M8 - 1.25 x 16 mm 15 950825M Low Head Cap Screw, M8 - 1.25 x 25 mm 16 32PMDS-WW Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Sh | 6 | 301088 | Tail Bar Clamp | |
| 350153 Drive Tail Plate (Palleted Conveyor Only) 9 350156 Puck 10 350157-LLLLL Puck Spacer 11 350206-WW Spindle Assembly 350208-WW Spindle Assembly (Servo Drive Only) 350207-WW Dual Shaft Spindle Assembly 350209-WW Socket Head Screw, M6 - 1.00 x 12 mm 12 920612M Socket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only) 13 920630M Socket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only) 14 950816M Low Head Cap Screw, M8 - 1.25 x 16 mm 15 950825M Low Head Cap Screw, M8 - 1.25 x 25 mm 16 32PMDS-WW Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 17 32D Bearing Kit, (Includes it | 7 | 301092 | • | |
| Image: Problem state of the system (Palleted Conveyor Only) 9 350156 Puck 10 350157-LLLLL Puck Spacer 11 350206-WW Spindle Assembly 350208-WW Spindle Assembly (Servo Drive Only) 350207-WW Dual Shaft Spindle Assembly 350209-WW Dual Shaft Spindle Assembly 12 920612M Socket Head Screw, M6 - 1.00 x 12 mm 13 920630M Socket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only) 14 950816M Low Head Cap Screw, M8 - 1.25 x 16 mm 15 950825M Low Head Cap Screw, M8 - 1.25 x 25 mm 16 32PMDS-WW Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 17 32D Bearing Kit, (Includes items | 8 | 301048 | Drive Tail Plate | |
| 10 350157-LLLLL Puck Spacer 11 350206-WW Spindle Assembly 350208-WW Spindle Assembly (Servo Drive Only) 350207-WW Dual Shaft Spindle Assembly 350209-WW Dual Shaft Spindle Assembly 12 920612M Socket Head Screw, M6 - 1.00 x 12 mm 13 920630M Socket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only) 14 950816M Low Head Cap Screw, M8 - 1.25 x 16 mm 15 950825M Low Head Cap Screw, M8 - 1.25 x 25 mm 16 32PMDS-WW Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDSS-WW Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 17 32D Bearing Kit, (Includes items 1, 4, & 13) WW = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18 LLLLL = Length in inches with 2 decimal places. | | 350153 | | |
| 11 $350206 \cdot WW$ Spindle Assembly $350208 \cdot WW$ Spindle Assembly (Servo Drive Only) $350207 \cdot WW$ Dual Shaft Spindle Assembly $350209 \cdot WW$ Dual Shaft Spindle Assembly (Servo Drive Only) 12 $920612M$ Socket Head Screw, M6 - 1.00 x 12 mm 13 $920630M$ Socket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only) 14 $950816M$ Low Head Cap Screw, M8 - 1.25 x 16 mm 15 $950825M$ Low Head Cap Screw, M8 - 1.25 x 25 mm 16 $32PMDS \cdot WW$ Drive Spindle Kit (Includes items 1, 9, 10 & 11) $32PMDDS \cdot WW$ Duel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11) 17 $32D$ Bearing Kit, (Includes items 1, 4, 4 13) WW = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18 $LLLLL$ = Length in inches with 2 decimal places. | 9 | 350156 | Puck | |
| 350208-WWSpindle Assembly (Servo Drive Only)350207-WWDual Shaft Spindle Assembly350209-WWDual Shaft Spindle Assembly (Servo Drive Only)12920612MSocket Head Screw, M6 - 1.00 x 12 mm13920630MSocket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only)14950816MLow Head Cap Screw, M8 - 1.25 x 16 mm15950825MLow Head Cap Screw, M8 - 1.25 x 25 mm1632PMDS-WWDrive Spindle Kit (Includes items 1, 9, 10 & 11)32PMDSS-WWServo Drive Spindle Kit (Includes items 1, 9, 10 & 11)32PMDDS-WWDuel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11)1732DBearing Kit, (Includes items 1, 4, 4 13)WW = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18LLLLL= Length in inches with 2 decimal places. | 10 | 350157- <u>LLLLL</u> | Puck Spacer | |
| Only)350207-WWDual Shaft Spindle Assembly350209-WWDual Shaft Spindle Assembly (Servo Drive Only)12920612MSocket Head Screw, M6 - 1.00 x 12 mm13920630MSocket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only)14950816MLow Head Cap Screw, M8 - 1.25 x 16 mm15950825MLow Head Cap Screw, M8 - 1.25 x 25 mm1632PMDS-WWDrive Spindle Kit (Includes items 1, 9, 10 & 11)32PMDSS-WWServo Drive Spindle Kit (Includes items 1, 9, 10 & 11)32PMDDS-WWDuel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11)1732DBearing Kit, (Includes items 1, 4, & 13)WW = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18LLLLL = Length in inches with 2 decimal places. | 11 | 350206- <u>WW</u> | Spindle Assembly | |
| 350209-WWDual Shaft Spindle Assembly (Servo Drive Only)12920612MSocket Head Screw, M6 - 1.00 x 12 mm13920630MSocket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only)14950816MLow Head Cap Screw, M8 - 1.25 x 16 mm15950825MLow Head Cap Screw, M8 - 1.25 x 25 mm1632PMDS-WWDrive Spindle Kit (Includes items 1, 9, 10 & 11)32PMDSS-WWServo Drive Spindle Kit (Includes items 1, 9, 10 & 11)32PMDDS-WWDuel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11)32PMDDS-WWDuel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11)1732DBearing Kit, (Includes items 1, 4, 4 13)WW = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18LLLLL = Length in inches with 2 decimal places. | | 350208- <u>WW</u> | | |
| (Servo Drive Only) 12 920612M Socket Head Screw, M6 - 1.00 x 12 mm 13 920630M Socket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only) 14 950816M Low Head Cap Screw, M8 - 1.25 x 16 mm 15 950825M Low Head Cap Screw, M8 - 1.25 x 25 mm 16 32PMDS- <u>WW</u> Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDSS- <u>WW</u> Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS- <u>WW</u> Duel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS- <u>WW</u> Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS- <u>WW</u> Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 17 32D Bearing Kit, (Includes items 1, 4, & 13) <u>WW</u> = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18 LLLLL = Length in inches with 2 decimal places. | | 350207- <u>WW</u> | Dual Shaft Spindle Assembly | |
| M6 - 1.00 x 12 mm 13 920630M Socket Head Screw, M6 - 1.00 x 30 mm (Servo Drive Only) 14 950816M Low Head Cap Screw, M8 - 1.25 x 16 mm 15 950825M Low Head Cap Screw, M8 - 1.25 x 25 mm 16 32PMDS- <u>WW</u> Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDSS- <u>WW</u> Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS- <u>WW</u> Duel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS- <u>WW</u> Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS- <u>WW</u> Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 17 32D Bearing Kit, (Includes items 1, 4, & 13) <u>WW</u> = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18 LLLLL = Length in inches with 2 decimal places. | | 350209- <u>WW</u> | | |
| M6 - 1.00 x 30 mm (Servo Drive Only) 14 950816M Low Head Cap Screw, M8 - 1.25 x 16 mm 15 950825M Low Head Cap Screw, M8 - 1.25 x 25 mm 16 32PMDS- <u>WW</u> Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDSS- <u>WW</u> Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS- <u>WW</u> Duel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS- <u>WW</u> Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDSS- <u>WW</u> Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 17 32D Bearing Kit, (Includes items 1, 4, & 13) WW = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18 LLLLL = Length in inches with 2 decimal places. | 12 | 920612M | 2 | |
| M8 - 1.25 x 16 mm 15 950825M Low Head Cap Screw, M8 - 1.25 x 25 mm 16 32PMDS- <u>WW</u> Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDSS- <u>WW</u> Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS- <u>WW</u> Duel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS- <u>WW</u> Duel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDSS- <u>WW</u> Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 17 32D Bearing Kit, (Includes items 1, 4, & 13) <u>WW</u> = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18 LLLLL = Length in inches with 2 decimal places. | 13 | 920630M | M6 - 1.00 x 30 mm (Servo Drive | |
| M8 - 1.25 x 25 mm 16 32PMDS- <u>WW</u> Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDSS- <u>WW</u> Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS- <u>WW</u> Duel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDS- <u>WW</u> Duel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDSS- <u>WW</u> Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 17 32D Bearing Kit, (Includes items 1, 4, & 13) <u>WW</u> = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18 LLLLL = Length in inches with 2 decimal places. | 14 | 950816M | | |
| Image: Constraint of the state of the s | 15 | 950825M | | |
| Image: stems 1, 9, 10 & 11) 32PMDDS-WW Duel Shaft Drive Spindle Kit (Includes items 1, 9, 10 & 11) 32PMDDSS-WW Duel Shaft Servo Drive Spindle Kit (Includes items 1, 9, 10 & 11) 17 32D Bearing Kit, (Includes items 1, 4, & 13) WW = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18 LLLLL = Length in inches with 2 decimal places. | - | 32PMDS- <u>WW</u> | | |
| Image: state of the state | | 32PMDSS- <u>WW</u> | (Includes items 1, 9, 10 & 11) | |
| Image: Weight of the system Image: Weight of the system <t< td=""><td></td><td>32PMDDS-<u>WW</u></td><td>(Includes items 1, 9, 10 & 11)</td></t<> | | 32PMDDS- <u>WW</u> | (Includes items 1, 9, 10 & 11) | |
| (Includes items 1, 4, & 13) <u>WW</u> = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18 <u>LLLLL</u> = Length in inches with 2 decimal places. | | 32PMDDSS- <u>WW</u> | | |
| <u>LLLLL</u> = Length in inches with 2 decimal places. | | | | |
| <u>LLLLL</u> = Length in inches with 2 decimal places. | <u>WW</u> = | Conveyor Width Refe | rence: 04, 06, 08, 10, 12, 14, 16 & 18 | |
| | LLLLL = Length in inches with 2 decimal places. | | | |
| Length Example: Length = 35.25" <u>LLLLL</u> = 03525 | | | | |

Idler End Assembly



| ltem | Part Number | Description | | |
|-------------|---|--------------------------|--|--|
| 1 | 350131 | Inner Tail Plate | | |
| 2 | 301088 | Tail Bar Clamp | | |
| 3 | 350229 | Tracking Block Assembly | | |
| 4 | 350165- <u>WW</u> | Spindle Assembly | | |
| | | | | |
| 5 | 301049 | Idler Tail Plate | | |
| | 350167 | Idler Tail Plate | | |
| | | (Palleted Conveyor Only) | | |
| 6 | 950816M | Low Head Cap Screw, | | |
| | | M8 - 1.25 x 16 mm | | |
| <u>WW</u> = | <u>WW</u> = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18 | | | |

Frame Assembly



| Item | Part Number | Description | |
|--|------------------------------|-------------------------------|--|
| 1 | 240420 | Rack Gear | |
| 2 | 301091 | Pinion Bearing | |
| 3 | 605279P | Washer | |
| 4 | 920484M | Flange Torx Screw, M4 x 16 mm | |
| 5 | 920616M | Socket Head Screw M6 x 16 mm | |
| 6 | 950616M | Low Head Cap Screw M6 x 16 mm | |
| 7 | 3245 <u>WW</u> | Cross Support Rail | |
| 8 | 301041– <u>LLLLL</u> | RH Side Rail | |
| 9 | 301042– <u>LLLLL</u> | LH Side Rail | |
| 10 | 3229 <u>WW</u> | Pinion | |
| 11 | See Bed Plate Rail charts | Bed Plate Rail | |
| 12 | 807-2052 | UHWM Tape, 1.625" Wide | |
| | 807-2053 | UHWM Tape, 2.50" Wide | |
| | 807-2057 | UHWM Tape, 5.75" Wide | |
| <u>WW</u> = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16, & 18 | | | |
| LLLLL = Length in inches with 2 decimal places. | | | |
| Length Example: Length = 35.25" LLLLL = 03525 | | | |

| Item 11: Bed Plate Rail for Single Piece Frames | | | |
|---|----------------------|--|--|
| Bed Plate Width | Part Number | | |
| 1.75" (44 mm) | 350215- <u>LLLLL</u> | | |
| 2" (51 mm) | 350216- <u>LLLLL</u> | | |
| 4" (102 mm) | 350217- <u>LLLLL</u> | | |
| 6" (152 mm) | 350218- <u>LLLLL</u> | | |

| Item 11: End Bed Plate Rail for Multiple Piece Frames | | |
|---|----------------------|--|
| Bed Plate Width | Part Number | |
| 1.75" (44 mm) | 350211- <u>LLLLL</u> | |
| 2" (51 mm) | 350212- <u>LLLLL</u> | |
| 4" (102 mm) | 350213- <u>LLLLL</u> | |
| 6" (152 mm) | 350214- <u>LLLLL</u> | |

| Item 11: Mid Bed Plate Rail for Multiple Piece Frames | | |
|---|----------------------|--|
| Bed Plate Width | Part Number | |
| 1.75" (44 mm) | 300887- <u>LLLLL</u> | |
| 2" (51 mm) | 300888- <u>LLLLL</u> | |
| 4" (102 mm) | 300889- <u>LLLLL</u> | |
| 6" (152 mm) | 300890- <u>LLLLL</u> | |

3200 Series Precision Move Conveyors

Lower Wear Strip



| ltem | Part Number | Description | |
|---|---|-----------------------------------|--|
| 1 | 350163 | Return Clip | |
| 2 | 350162- <u>LLLLL</u> | Return Wear Strip | |
| 3 | 807-1840 | Hex Washer Head Sheet Metal Screw | |
| 4 | 639971M | Single Drop-In Tee Bar | |
| 5 | 950620M | Low Head Cap Screw, | |
| | | M6-1.00 x 20 mm | |
| 6 | 350187 | Return L Bracket | |
| 7 | 350186 | Spacer | |
| LLLLL | LLLLL = Length in inches with 2 decimal places. | | |
| Length Example: Length = 35.25" LLLLL = 03525 | | | |

-04 3" (76mm) Aluminum Side



| Item | Part Number | Description | | |
|------|--|-------------------------------|--|--|
| 1 | 200121 | Guide Retaining Clip | | |
| 2 | 380400– <u>LLLLL</u> (see Formulas) | 3200 Guide 3" (76mm) HS | | |
| 3 | 639971M | Single Drop-in Tee Bar | | |
| 4 | 950620M | Low Head Cap Screw M6 x 20 mm | | |

Length Formulas

| <u>LLLLL</u> = | · | eyor Length <u>XXXX</u>) X 12 – Tail Factor f of Sections of Conveyor |
|----------------|------------|---|
| Tail Factor = | 00000 | for center drive with transfer tail both ends |
| | 00100 | for end drive with one transfer tail |
| | 00200 | for end drive and center drives with standard tails |
| | 00325 | for All Cleated Conveyors |
| # of Conveyor | Sections = | (Conveyor Length <u>XXXX</u> – 0100) |
| # Of Conveyor | | 1200 |

1200

XXXX = Conveyor Length (XX.XX ft)

Example

17'4" End Drive Conveyor with Standard Tails Conveyor Length = 1733 Tail Factor = 00200 # of Sections (round up)= $\frac{(1733 - 0100)}{1000}$ = 1.36 = 2 Sections 1200 <u>LLLLL</u> = $\frac{(1733 \times 12) - 00200}{2} = 10298$ 2

-05 1.5" (38mm) Aluminum Side



| Item | Part Number | Description | | |
|------|--|-------------------------------|--|--|
| 1 | 200121 | Guide Retaining Clip | | |
| 2 | 380500– <u>LLLLL</u> (see Formulas) | 3200 Guide, 0.5" (13mm) HS | | |
| 3 | 639971M | Single Drop-in Tee Bar | | |
| 4 | 950620M | Low Head Cap Screw M6 x 20 mm | | |

Length Formulas

Length Formulas

| J | | |
|--------------------------|----------|---|
| LLLLL = | (Conve | eyor Length XXXX) X 12 – Tail Factor |
| <u>LLLLL</u> = | # | of Sections of Conveyor |
| Tail Factor = | 00000 | for center drive with transfer tail both ends |
| | 00100 | for end drive with one transfer tail |
| | 00200 | for end drive and center drives with standard tails |
| | 00325 | for All Cleated Conveyors |
| # of Commons | Castiana | (Conveyor Length XXXX – 0100) |
| # of Conveyor Sections = | | 1200 |
| | | |

XXXX = Conveyor Length (XX.XX ft)

Example

17'4" End Drive Conveyor with Standard Tails

Conveyor Length = 1733 Tail Factor = 00200 # of Sections (round up)= $\frac{(1733 - 0100)}{1200}$ = 1.36 = 2 Sections LLLLL = $\frac{(1733 \times 12) - 00200}{2}$ = 10298

-09 Low to High Side



| Item | Part Number | Description | |
|------|--|------------------------------|--|
| 1 | 200121 | Guide Retaining Clip | |
| 2 | 380900– <u>LLLLL</u> (see Formulas) | 2200 Guide, 0.5" (13mm) HS | |
| 3 | 639971M | Single Drop-in Tee Bar | |
| 4 | 950620M | Low Head Cap Screw M6 x 20mm | |

Length Formulas

| Tail Factor =00000for center drive with transfer tail both ends00100for end drive with one transfer tail for end drive and center drives with standard tails00325for All Cleated Conveyors |
|---|
| 00200for end drive and center drives with standard tails00325for All Cleated Conveyors |
| standard tails 00325 for All Cleated Conveyors |
| |
| |
| # of Conveyor Sections = (Conveyor Length <u>XXXX</u> – 0100) 1200 |

XXXX = Conveyor Length (XX.XX ft)

Example

17'4" End Drive Conveyor with Standard Tails r I ongth - 1722

Conveyor Length = 1733
Tail Factor = 00200
of Sections (round up)=
$$\frac{(1733 - 0100)}{1200}$$
 = 1.36 = 2 Sections
LLLLL = $\frac{(1733 \times 12) - 00200}{2}$ = 10298

-13 Adjustable Guiding



| ltem | Part Number | Description |
|------|-------------|-------------------------------------|
| 1 | 202983 | Aluminum Profile Guide 2' (610mm) |
| | 202984 | Aluminum Profile Guide 3' (914mm) |
| | 202985 | Aluminum Profile Guide 4' (1219mm) |
| | 202986 | Aluminum Profile Guide 5' (1524mm) |
| | 202987 | Aluminum Profile Guide 6' (1829mm) |
| | 202988 | Aluminum Profile Guide 7' (2134mm) |
| | 202989 | Aluminum Profile Guide 8' (2438mm) |
| | 202990 | Aluminum Profile Guide 9' (2743mm) |
| | 202991 | Aluminum Profile Guide 10' (3048mm) |
| | 202992 | Aluminum Profile Guide 11' (3353mm) |
| | 202993 | Aluminum Profile Guide 12' (3658mm) |
| | 202994 | Aluminum Profile Guide 13' (3962mm) |

| Item | Part Number | Description | |
|------|-------------|---------------------------------|--|
| 2 | 200830M | Drop–In Tee Bar | |
| 3 | 202004 | Mounting Bracket | |
| 4 | 202027M | Guide Mounting Shaft Vertical | |
| 5 | 202028M | Guide Mounting Shaft Horizontal | |
| 6 | 674175MP | Square Nut | |
| 7 | 807–652 | Cross Block | |
| 8 | 807–948 | Vinyl Shaft Cap | |
| 9 | 614068P | Flat Extruded Guide (per foot) | |
| 10 | 920612M | Socket Head Screw M6 x 12 mm | |
| 11 | 920616M | Socket Head Screw M6 x 16 mm | |





| Item | Part Number | Description | | |
|------|-------------|---------------------------------|--|--|
| 1 | 807-948 | Shaft Cap | | |
| 2 | 807-1470 | Cross Block | | |
| 3 | 200830M | Drop-In Tee Bar | | |
| 4 | 202004M | Mounting Bracket | | |
| 5 | 202027M | Vertical Mounting Guide Shaft | | |
| 6 | 202028M | Horizontal Mounting Guide Shaft | | |

| Item | Part Number | Description | | |
|---|--|---------------------|--|--|
| 7 | 674175MP | Square Nut, M6-1.00 | | |
| 8 | 920612M Socket Head Screw, M6-1.00 x 12 mm | | | |
| 9 | 920616M Socket Head Screw, M6-1.00 x 16 mm | | | |
| 10 | 460063-LLLLL Aluminum Profile Guide | | | |
| 11 | 11 614068P-LLLLL Extruded Guide | | | |
| LLLLL = Length in inches with 2 decimal places. | | | | |
| Length Example: Length = 95.25" LLLLL = 09525 | | | | |

1" (25 mm) Cleated Guiding



| ltem | Part Number | Description | | | |
|---|--|---------------------------------|--|--|--|
| 1 | 807-2121 | Set Screw | | | |
| 2 | 350177 | Guide Clamping Block | | | |
| 3 | 350181-LLLLL Cleated Guide for Multi Piece Guiding | | | | |
| 4 | 350182- <u>LLLLL</u> | -LLLLL Cleated Guide for A Side | | | |
| 5 | 350183-LLLLL Cleated Guide for D Side | | | | |
| 6 | 639971MK10 Single Drop-in Tee Bar (x10) | | | | |
| 7 | 7 950630M Low Head Cap Screw, M6 - 1.00 x 30 mm | | | | |
| LLLLL = Length in inches with 2 decimal places. | | | | | |
| Length Example: Length = 35.25" LLLLL = 03525 | | | | | |

Flat Belt Mounting Brackets



| ltem | Part Number | Description | Item | Part Number | Description |
|------|-------------|-----------------|------|-------------|-------------------------------|
| 1 | 240831 | Stand Mount | 4 | 807–920 | Square Nut M6 5 mm x 10 mm |
| 2 | 300150M | Drop–In Tee Bar | 5 | 920620M | Socket Head Screw M6 x 20 mm |
| 3 | 605279P | Washer | 6 | 950612M | Low Head Cap Screw M6 x 12 mm |

Cleated Belt Mounting Brackets



| Item | Part Number | Description |
|------|-------------|---------------------------|
| 1 | 240836 | Cleated Mounting Assembly |
| 2 | 300150M | Drop–In Tee Bar |
| 3 | 605279P | Washer |

| Item | Part Number | Description |
|------|-------------|-------------------------------|
| 4 | 807–920 | Square Nut M6 5 mm x 10 mm |
| 5 | 920620M | Socket Head Screw M6 x 20 mm |
| 6 | 950612M | Low Head Cap Screw M6 x 12 mm |

Connecting Assembly without Stand Mount



| Item | Part Number | Description | | ltem | Part Number | Description |
|------|-------------|--------------------------|--|------|-------------|-------------------------------|
| 1 | 240858 | Frame Bar Connector | | 3 | 950612M | Low Head Cap Screw M6 x 12 mm |
| 2 | 240859 | Intermediate Clamp Plate | | | | |

Flat Belt Connecting Assembly with Stand Mount



| Item | Part Number | Description | Item | Part Number | Description |
|------|-------------|---------------------|------|-------------|-------------------------------|
| 1 | 240858 | Frame Connector Bar | 4 | 807–920 | Square Nut M6 5 mm x 10 mm |
| 2 | 240831 | Stand Mount Joint | 5 | 920620M | Socket Head Screw M6 x 20 mm |
| 3 | 605279P | Washer | 6 | 950616M | Low Head Cap Screw M6 x 16 mm |

Cleated Belt Connecting Assembly with Stand Mount



| Item | Part Number | Description |
|------|-------------|------------------------------|
| 1 | 240858 | Frame Connector Bar |
| 2 | 240846 | Cleat Stand Bracket Assembly |
| 3 | 605279P | Washer |

| Item | Part Number | Description |
|------|-------------|------------------------------|
| 4 | 807–920 | Square Nut M6 5 mm x 10 mm |
| 5 | 920620M | Socket Head Screw M6 x 20 mm |
| 6 | 950616M | Socket Head Screw M6 x 16 mm |

Flat Belt Return Roller



| Item | Part Number | Description | | | |
|------|-------------|-----------------------------|--|--|--|
| 1 | 240855 | Return Roller Guard – Short | | | |
| 2 | 240828 | Return Roller Clip | | | |
| 3 | 802–027 | Bearing | | | |
| 4 | 913–108 | Dowel Pin | | | |

| Item | Part Number | Description |
|---------------|-------------|--|
| 5 | 950616M | Low Head Cap Screw M6 x 16 mm |
| 6 D | 240857 | Roller Assembly (Includes Items 1, 3 and 4) |
| 7 | 240856 | 4" (102mm) to 6" (152mm) Flat Belt Return Roller Assy |

Cleated Belt Return Roller



| ltem | Part Number | Description | ltem | Part Number | Description |
|------|-------------|-----------------------------|------|-------------|--------------------------------------|
| 1 | 240825 | Return Roller Guard – Short | 5 | 950616M | Low Head Cap Screw M6 x 16mm |
| 2 | 240828 | Cleated Return Roller Clip | 6 | 240840 | Roller Assembly (Includes Items 1, 3 |
| 3 | 802-027 | Bearing | | | and 4) |
| 4 | 913-100 | Dowel Pin | 7 | 240832 | Cleated Belt Return Roller Assembly |

Belt Inserts & Fixtures



| Item | Part Number | Description | | | | |
|-------------|---|-----------------------------|--|--|--|--|
| 1 | 350152 | T-Nut 5 mm | | | | |
| 2 | 350164- <u>WW</u> | 164- <u>WW</u> Belt Fixture | | | | |
| 3 | 930510M Flat Head Screw, M580 x 10 mm | | | | | |
| <u>WW</u> = | <u>WW</u> = Conveyor Width Reference: 04, 06, 08, 10, 12, 14, 16 & 18 | | | | | |

Conveyor Belt Part Number Configuration

| Belt Conveyor Model Numb | ber | 32T <u>C</u> - <u>WW</u> LLLL PPP | | | | | | |
|-----------------------------------|----------|--------------------------------------|-------------------------------------|--------------------|---------|--|--|--|
| UORNER ® | | 5131529 5156260 DING PATENTS A | 5156261 5174435 ND PATENT APP | 5203447 5265714 | 5875883 | | | |
| DORNER MFG CORP HARTLAND, WUSA | SERIAL # | | | MODEL # | | | | |

Figure 50

Belt Part Number Configuration

Refer to Dorner patent plate (Figure 50). From the model number, determine configuration type ("C"), width ("WW"), length ("LLLL"), pocket spacing ("PPP"). Use data to configure belt part number as indicated below.

C 32TC - WW LLLL PPD



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 (if available, part serial number).

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

| | | | | | Product | Туре | | | | |
|---------------------|--|-------------------|-------------|---|-----------|-------|----------------------------|---------|--------------|--|
| | | Standard Products | | | | | | | | |
| Product Line | Conveyors Gearmotors & Support & Accessories & Spare Parts (non-belt) - Standard & Spare Belts - Cleated & Packages Packages - Packages - Plastic Chain + Plastic + Plas | | | | | | All equipment and parts | | | |
| 1100 | | | | | | | | | | |
| 2200 | | | | | | | | | | |
| 2200 Modular Belt | | | | | | | | | | |
| 2200 Precision Move | | | | | | | | | | |
| 2300 | | | | | | | | | | |
| 2300 Modular Belt | | | | | | | | | | |
| 3200 | | 30% re | turn fee fo | or all products nveyors with or specialty b | except: | | | | case-by-case | |
| 3200 LPZ | | 50% return cle | ated belt | or specialty b | elts | | non-ret | urnable | | |
| 3200 Precision Move | | | | | | | | | | |
| 4100 | | | | | | | | | | |
| 5200 | | | | | | | | | | |
| 5300 | | | | | | | | | | |
| 6200 | | | | | | | | | | |
| Controls | | | | | | | | | | |
| 7200 / 7300 | | 50% | % return f | ee for all prod | ucts | | | | | |
| 7350 | | | | | | | | | • | |
| 7360 | 1 | non-returnable | | | | | | | | |
| 7400 | 1 | | | | non-retui | nable | | | | |
| 7600 | 1 | | | | | | | | | |

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

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

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

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



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

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