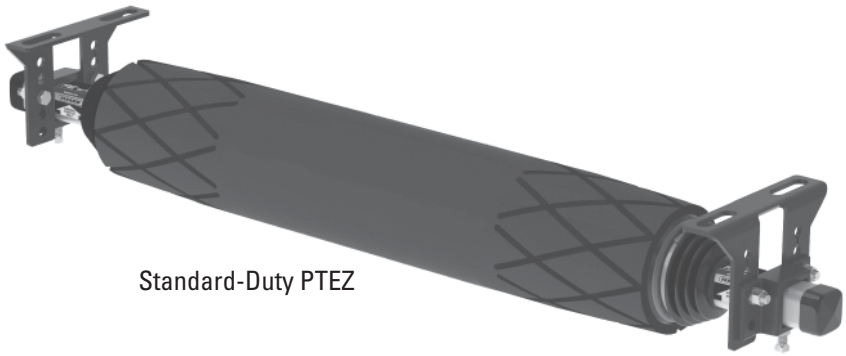
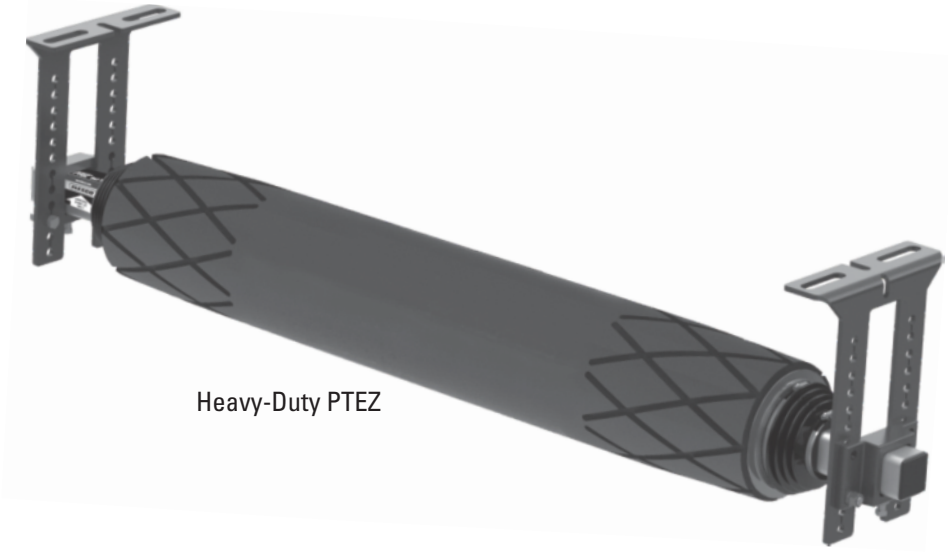
PTEZ™ Belt Trainer

Installation, Operation and Maintenance Manual



Standard-Duty PTEZ



Heavy-Duty PTEZ

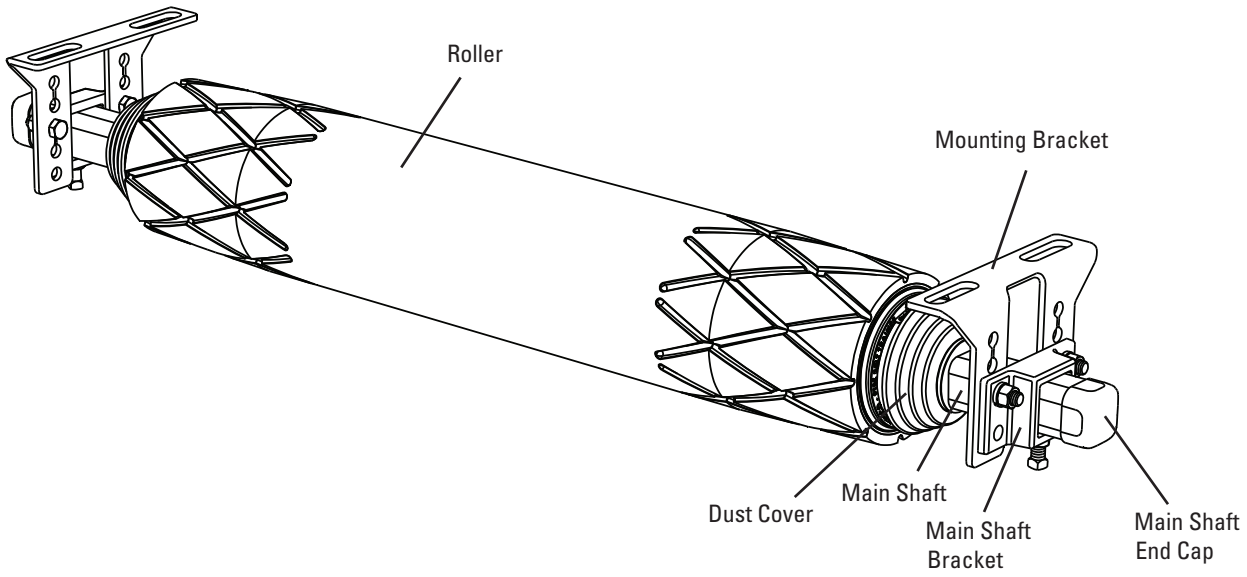
FLEXCO

Pre-installation Checks and Options

Checklist

- Check the model and size of the belt trainer. Is it the right one for your beltline?
- Check the PTEZ™ to be sure all the parts are included in the shipment.
  - Trainer
  - Mounting hardware
  - Instruction kit
- Find the information packet in the shipment
- Review the "Tools Needed" section on the front of the installation instructions.
- Prepare the conveyor site:
  - Identify the point(s) of mistracking, expecting 100'- 120' (30-37 M) of downstream influence.
  - Position the unit 20' (6.1 M) after the start of the mistracking.
  - Identify an opening of at least 9" (225mm) for Standard Duty, 10.5" (265mm) for Heavy Duty if possible to avoid interference with roller during installation.
  - Remove old tracking devices.
  - If the conveyor has disc idlers, replace one idler before and one idler after the location where the trainer will be installed with a standard idler.
  - If the conveyor has V-return idlers, replace one idler before and after where the trainer will be located with a standard flat idler.

PTEZ™



Physically lock out and tag the conveyor at the power source before you begin belt trainer installation.

CAUTION: Components may be heavy. Use safety-approved lifting procedures.

Before You Begin:

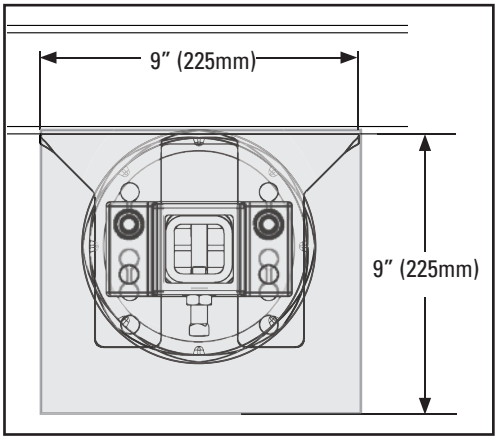
- A serial number label is located in the instruction packet. Following installation, please locate space on or near the PTEZ to apply this label. Please use this number in any correspondence.
- Use the necessary mechanical lifting equipment (crane, come-alongs, etc.) for safe installation.
- The trainer should not be positioned closer than 20 feet (6M) from the tail pulley, take-up pulleys, or head pulley.
- Follow all safety precautions when using a cutting torch.

Tools Needed:

- Tape Measure
- (2) 3/4" Wrenches (19mm)
- Medium or Large Adjustable Wrench
- Cutting Torch/Welder
- (2) Come-Alongs (3/4 Ton Minimum)
- Any necessary equipment for moving and lifting heavy components
- Straightedge or Level
- Marking Pen

Conveyor Site Preparation:

- Identify the point(s) of mistracking, expecting 100'- 120' (30-37 M) of downstream influence.
- Position the unit 20' (6 M) after the start of the mistracking.
- Identify an opening of at least 9" (225mm).
- Remove any existing tracking devices that fall in the estimated tracking range of the PTEZ as multiple different tracking devices may reduce or prevent the PTEZ from tracking as intended.



PTEZ

PTEZ Preparation and Installation:

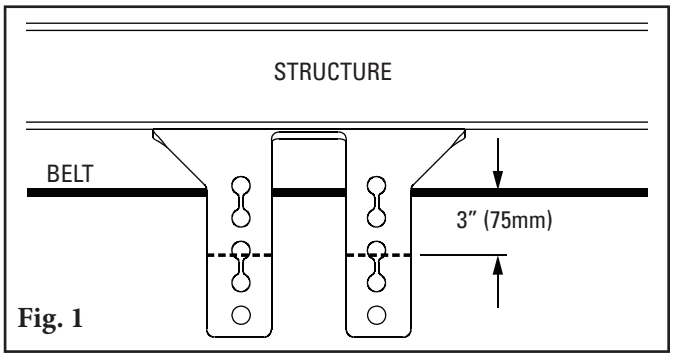


Fig. 1

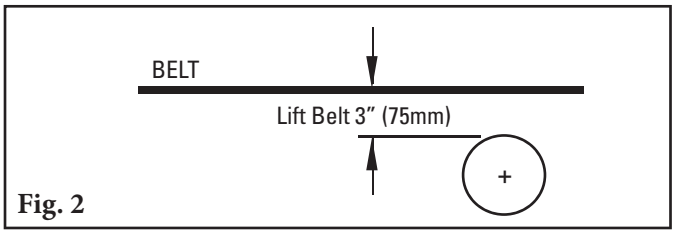


Fig. 2

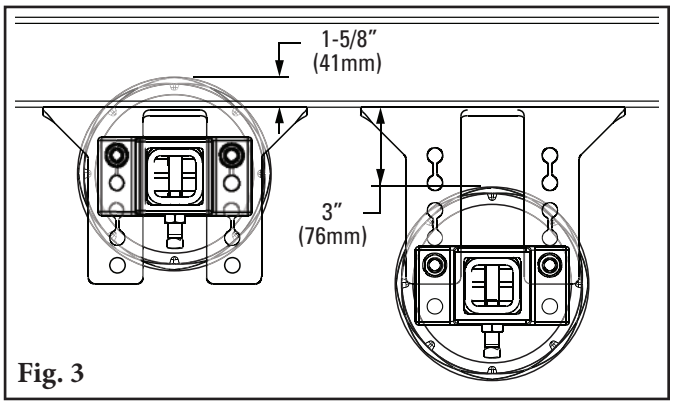


Fig. 3

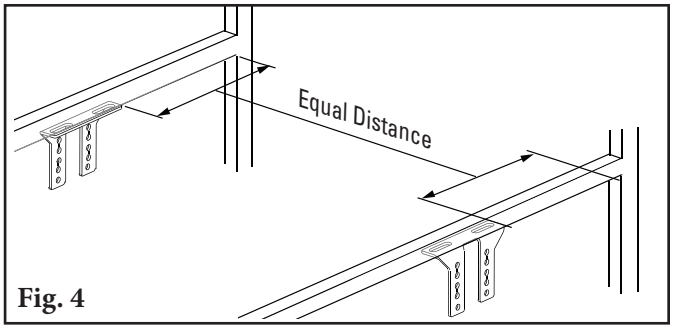


Fig. 4

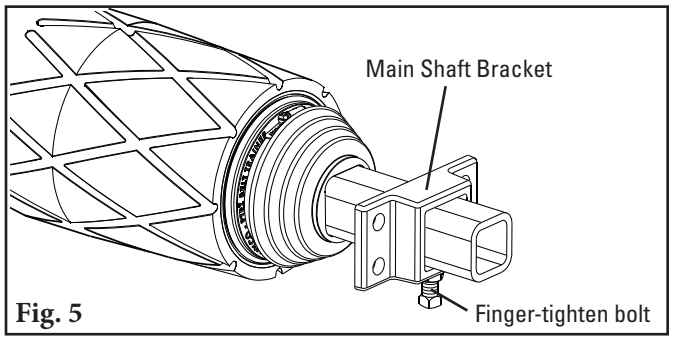


Fig. 5

1. **Identify location for PTEZ and mount one bracket.**
   a. For push-up installation, use a straightedge to push up against the belt to remove the slack and make a mark on the bracket for the bottom of the belt. From that mark, measure down 3" (75mm) and make a second mark (Fig. 1). The second mark is where the center of the pole should line up in Step 6.
   b. For push-down or clean-side installation, use a straightedge to push down against the belt to remove the slack and make a mark on the bracket for the top of the belt. From that mark, measure up 3" and make a second mark. The second mark is where the center of the pole should line up in Step 6.

2. **Lift the belt** approximately 3" (76mm) where the trainer will be installed. Remove existing idler (if applicable) (Fig. 2). **NOTE:** If the conveyor has disc idlers, replace one idler with a standard idler before and after the location where the trainer will be installed.

3. **Position mounting brackets.** May be mounted to existing idler hole patterns. Overall range of adjustment on brackets is 1-5/8" (41mm) above the top flange or 3 (76mm) below the top flange (Fig. 3).

4. **Square the mounting brackets.** Measure from a fixed location on both sides to ensure alignment (Fig. 4).

5. **Slide on the main shaft brackets.** Finger-tighten bolts for further adjustment later (Fig. 5).

PTEZ

6. **Lift the roller and main shaft bracket assembly.** Be sure to use safe and secure lifting procedures to lift the PTEZ into position. Ensure the arrows on main shaft label point up or down towards the belt (Fig. 6a). Align center of shaft with mark on mounting bracket (from Step 1) and finger-tighten bolts between the mounting bracket and main shaft bracket (Fig. 6b).

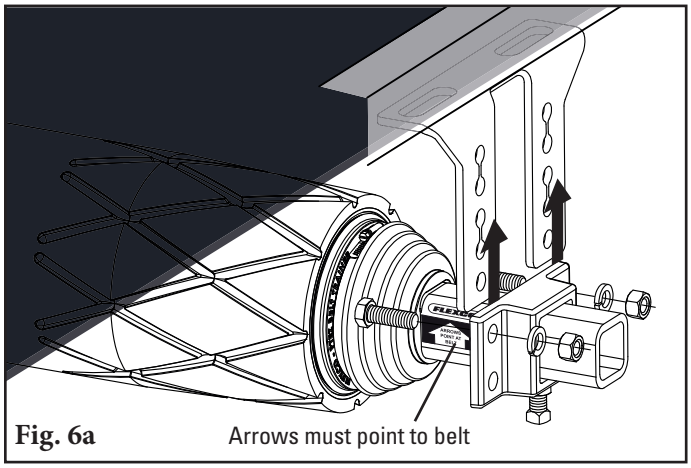


Fig. 6a

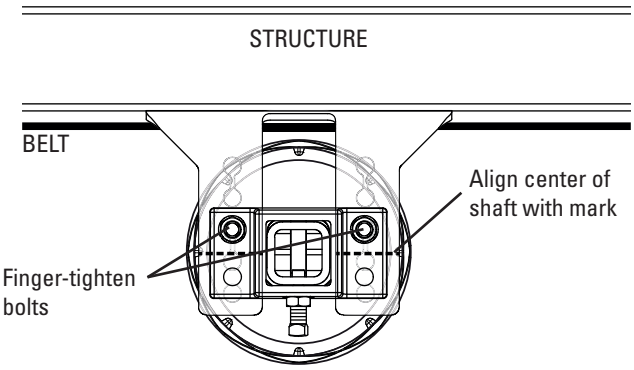


Fig. 6b

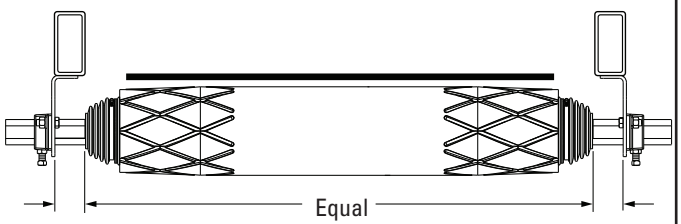


Fig. 7

7. **Ensure main shaft is centered on main shaft brackets** (equal length showing on both sides of roller) (Fig. 7).

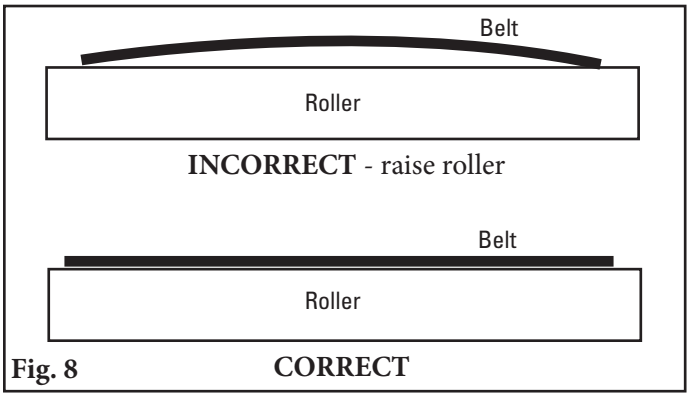
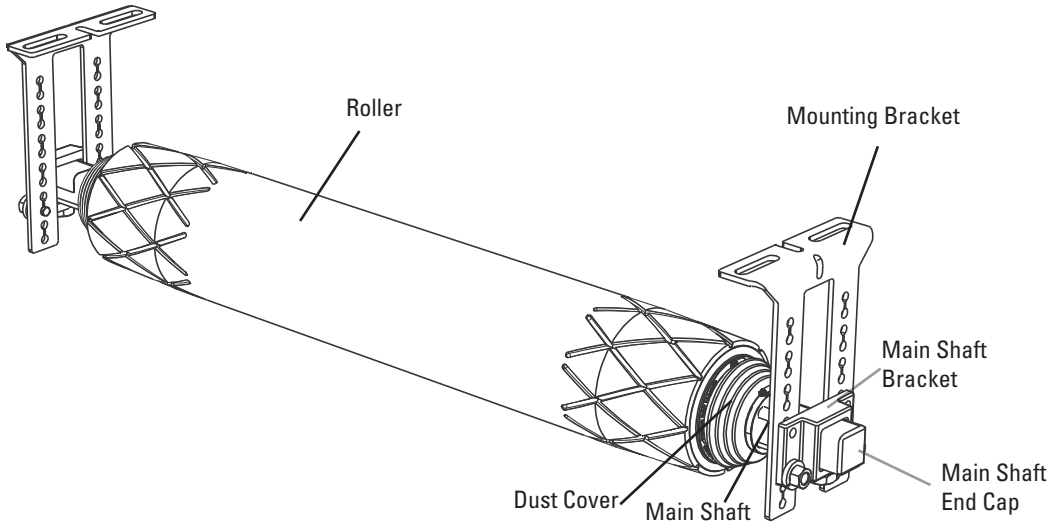


Fig. 8

8. **Lower the belt onto the roller.** Ensure belt completely contacts roller. Raise extending brackets one hole if there is not good contact (Fig. 8). Belt should be pushed up or down approximately 1/2" to 1" (12-25mm) from normal running height. If there is still a gap between the PTEZ and the belt, adjustments may be made in 1/2" (12mm) increments until the gap disappears. **NOTE:** If gap persists consider push-down installation.

9. **Tighten all bolts,** install end caps on main shaft, and proceed to pre-op checklist on page 12.

HD PTEZ™



Physically lock out and tag the conveyor at the power source before you begin belt trainer installation.

CAUTION: Components may be heavy. Use safety-approved lifting procedures.

Before You Begin:

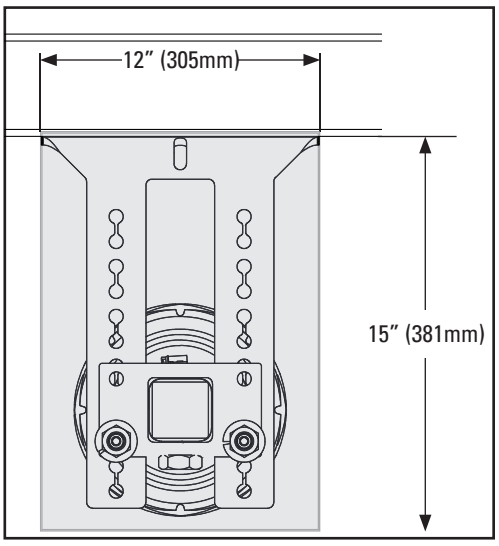
- A serial number label is located in the instruction packet. Following installation, please locate space on or near the HD PTEZ to apply this label. Please use this number in any correspondence.
- Use the necessary mechanical lifting equipment (crane, come-alongs, etc.) for safe installation.
- The trainer should not be positioned closer than 20 feet (6M) from the tail pulley, take-up pulleys, or head pulley.
- Follow all safety precautions when using a cutting torch.

Tools Needed:

- Tape Measure
- (2) 3/4" Wrenches (19mm)
- Medium or Large Adjustable Wrench
- Cutting Torch/Welder
- (2) Come-Alongs (3/4 Ton Minimum)
- Any necessary equipment for moving and lifting heavy components
- Straightedge or Level
- Marking Pen

Conveyor Site Preparation:

- Identify the point(s) of mistracking, expecting 100'- 120' (30-37 M of downstream influence.
- Position the unit 20' (6 M) after the start of the mistracking.
- Identify an opening of at least 12" (305mm).
- Remove any existing tracking devices that fall in the estimated tracking range of the HD PTEZ as multiple different tracking devices may reduce or prevent the HD PTEZ from tracking as intended.



HD PTEZ™

PTEZ Preparation and Installation:

For Underground J-bolt or wire rope mounting, see page 15.

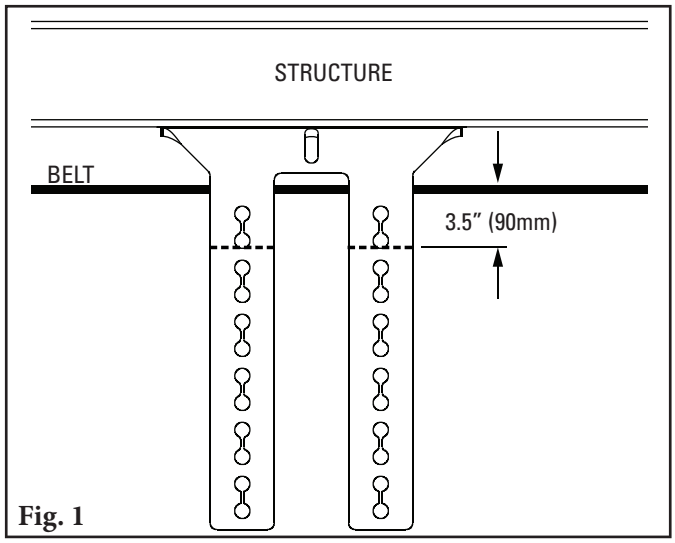


Fig. 1

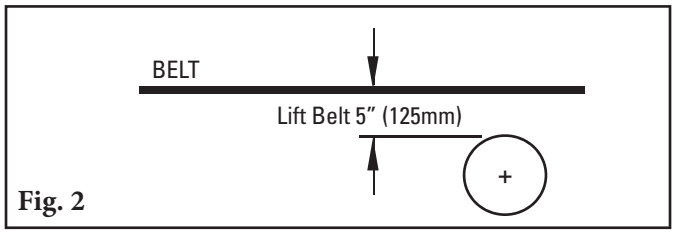


Fig. 2

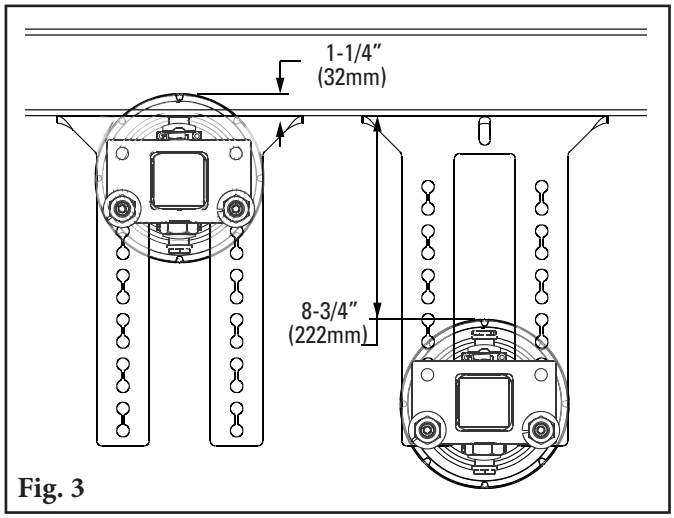


Fig. 3

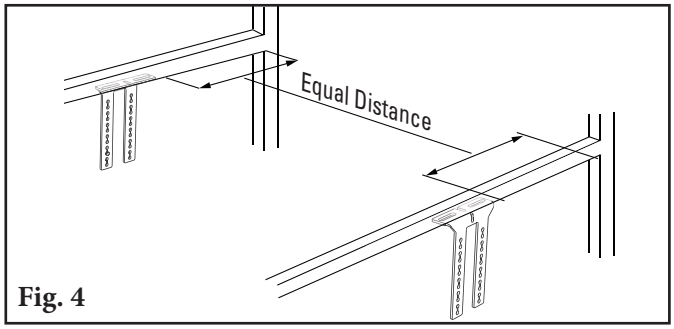


Fig. 4

1. **Identify location for HD PTEZ and mount one bracket.**
   - **a.** For push-up installation, use a straightedge to push up against the belt to remove the slack and make a mark on the bracket for the bottom of the belt. From that mark, measure down 3.5" (90mm) and make a second mark (Fig. 1). The second mark is where the center of the pole should line up in Step 6.
   - **b.** For push-down or clean-side installation, use the weight of the roller to deflect the belt and remove cupping. Mount brackets to structure and check position of mounting holes. Push unit down 1/2" (50mm) more and bolt in place. Confirm no daylight.
2. **Lift the belt** approximately 5" (125mm) where the trainer will be installed. Remove existing idler (if applicable) (Fig. 2). **NOTE:** If the conveyor has disc idlers, replace one idler with a standard idler before and after the location where the trainer will be installed.
3. **Position mounting brackets.** May be mounted to existing idler hole patterns. Overall range of adjustment on brackets is 1-1/4" (32mm) above the top flange or 8-3/4" (222mm) below the top flange (Fig. 3).
4. **Square the mounting brackets.** Measure from a fixed location on both sides to ensure alignment (Fig. 4).
5. **Slide on the main shaft brackets.** Finger-tighten bolts for further adjustment later (Fig. 5).

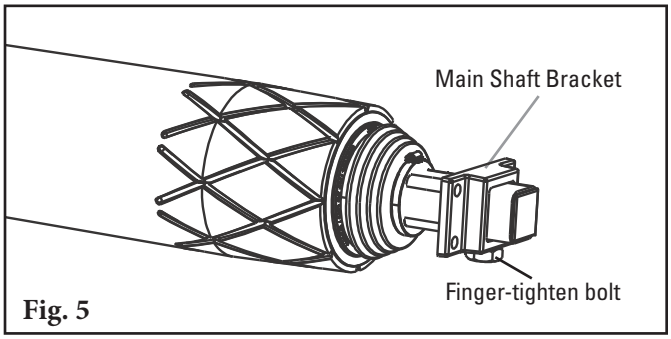


Fig. 5

6. **Lift the roller and main shaft bracket assembly.** Be sure to use safe and secure lifting procedures to lift the HD PTEZ into position. Ensure the arrows on main shaft label point up or down towards the belt (Fig. 6a).Align center of shaft with mark on mounting bracket (from Step 1) and finger-tighten bolts between the mounting bracket and main shaft bracket (Fig. 6b).

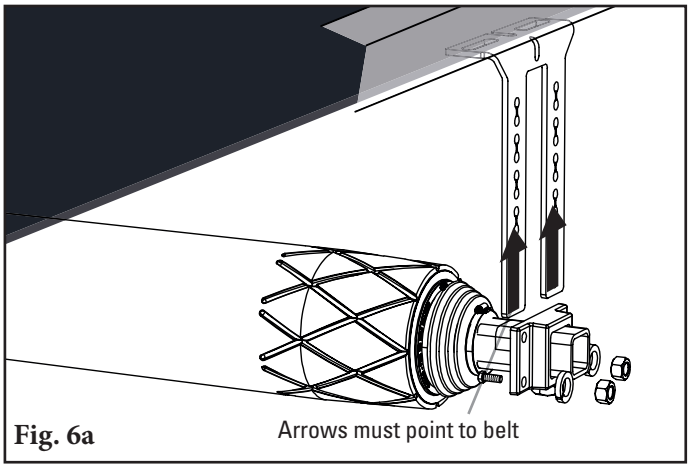


Fig. 6a

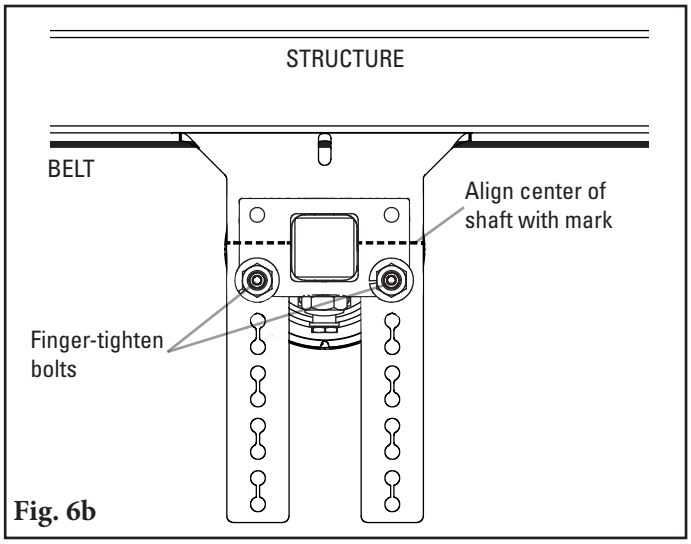


Fig. 6b

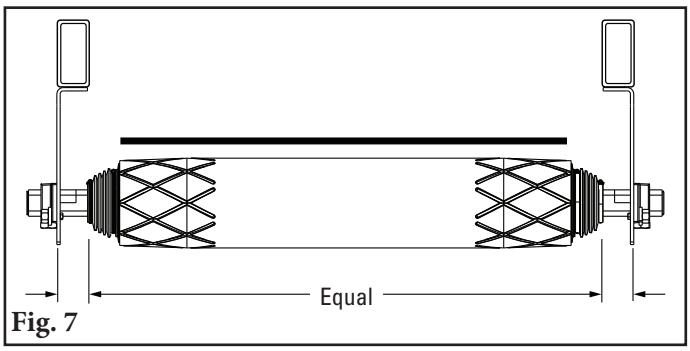


Fig. 7

7. **Ensure main shaft is centered on main shaft brackets** (equal length showing on both sides of roller) (Fig. 7).

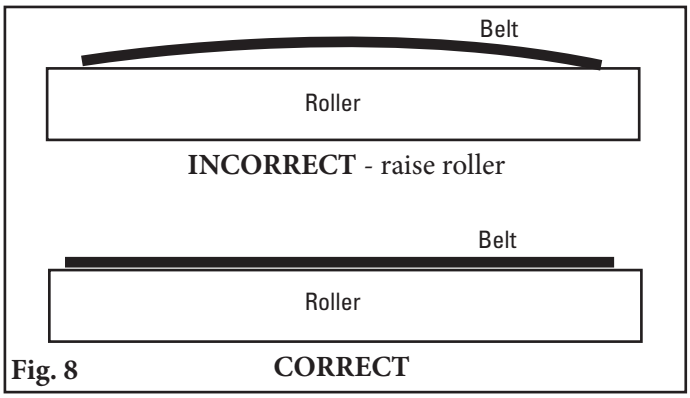


Fig. 8

8. **Lower the belt onto the roller.** Ensure belt completely contacts roller. Raise extending brackets one hole if there is not good contact (Fig. 8). Belt should be pushed up or down approximately 1/2" to 1" (12-25mm) from normal running height. If there is still a gap between the HD PTEZ and the belt, adjustments may be made in 1/2" (12mm) increments until the gap disappears. **NOTE:** If gap persists consider push-down installation.

9. **Tighten all bolts,** install end caps on main shaft, and proceed to pre-op checklist on page 12.

HD PTEZ™

Underground Mounting Instructions

Parts shown below included with PTEZHD-UG items.

10. To attach mounting brackets to 4" or 5" channel structure, use included J-bolt plates as shown (customer supplied J-bolt). (Fig. 9).

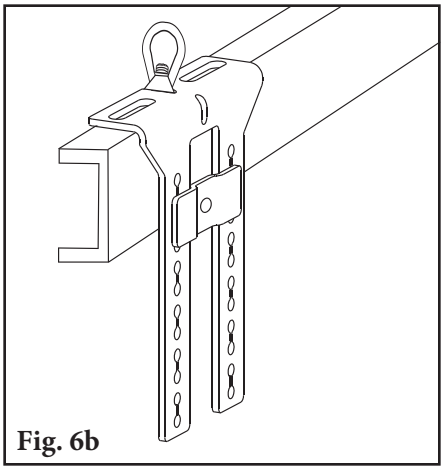


Fig. 6b

11. To mount to wire rope structure, use included U-bolt kit and position as shown. (Fig. 10).

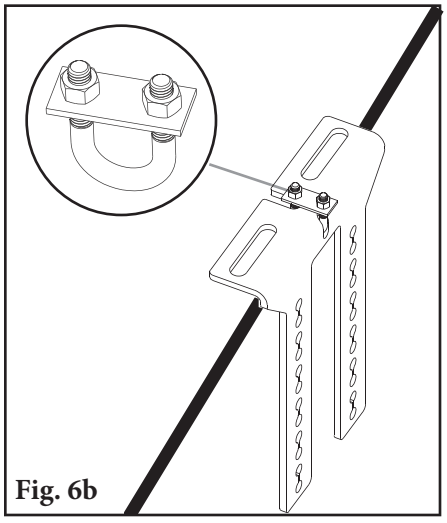


Fig. 6b

Pre-Operation Checklist and Testing

Pre-Op Checklist

- Recheck that all fasteners are tight
- Apply all supplied labels
- Be sure that all installation materials and tools have been removed from the belt and conveyor area
- Reconfirm the arrows on the main tube point up or down towards the belt

Test Run the Conveyor

- Run the conveyor for at least 15 minutes and confirm the belt is tracking properly.
- If belt is still mistracking too far to one side, height adjustments may be made in 1/2" (12mm) increments until air gap disappears. **NOTE:** Belt wrap around PTEZ should not exceed 10°
- NOTE: If conveyor has disc idlers, the belt may not get the full downstream tracking effect.