

# EZP1 Primary Cleaner

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## Installation, Operation and Maintenance Manual

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# EZP1 Primary Cleaner

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Purchase Date: \_\_\_\_\_

Purchased From: \_\_\_\_\_

Installation Date: \_\_\_\_\_

This information will be helpful for any future inquiries or questions about belt cleaner replacement parts, specifications or troubleshooting.

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# Section 1 – Important Information

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## 1.1 General Introduction

We at Flexco are very pleased that you have selected an EZP1 Primary Cleaner for your conveyor system.

This manual will help you to understand the operation of this product and assist you in making it work up to its maximum efficiency over its lifetime of service.

It is essential for safe and efficient operation that the information and guidelines presented be properly understood and implemented. This manual will provide safety precautions, installation instructions, maintenance procedures and troubleshooting tips.

If, however, you have any questions or problems that are not covered, please contact your field representative or our Customer Service Department:

**Customer Service: +27-11-608-4180**

**Visit [www.flexco.com](http://www.flexco.com) for other Flexco locations and products.**

Please read this manual thoroughly and pass it on to any others who will be directly responsible for installation, operation and maintenance of this cleaner. While we have tried to make the installation and service tasks as easy and simple as possible, **it does however require correct installation and regular inspections and adjustments to maintain top working condition.**

## 1.2 User Benefits

Correct installation and regular maintenance will provide the following benefits for your operation:

- Reduced conveyor downtime
- Reduced man-hour labour
- Lower maintenance budget costs
- Increased service life for the belt cleaner and other conveyor components

## 1.3 Service Option

The EZP1 Primary Cleaner is designed to be easily installed and serviced by your on-site personnel. However, if you would prefer complete turn-key factory service, please contact your local Flexco Field Representative.

## Section 2 – Safety Considerations and Precautions

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Before installing and operating the EZP1 Primary Cleaner, it is important to review and understand the following safety information.

There are set-up, maintenance and operational activities involving both **stationary** and **operating** conveyors. Each case has a safety protocol.

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### 2.1 Stationary Conveyors

The following activities are performed on stationary conveyors:

- Installation
- Blade replacement
- Repairs
- Tension adjustments
- Cleaning

#### **DANGER**

It is imperative that Lockout/Tagout (LOTO) regulations, be followed before undertaking the preceding activities. Failure to use LOTO exposes workers to uncontrolled behaviour of the belt cleaner caused by movement of the conveyor belt. Severe injury or death can result.

**Before working:**

- Lockout/Tagout the conveyor power source
- Disengage any takeups
- Clear the conveyor belt or clamp securely in place

#### **WARNING**

**Use Personal Protective Equipment (PPE):**

- Safety eyewear
- Hardhats
- Safety footwear

Close quarters, springs and heavy components create a worksite that compromises a worker's eyes, feet and skull.

PPE must be worn to control the foreseeable hazards associated with conveyor belt cleaners. Serious injuries can be avoided.

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### 2.2 Operating Conveyors

There are two routine tasks that must be performed while the conveyor is running:

- Inspection of the cleaning performance
- Dynamic troubleshooting

#### **DANGER**

Every belt cleaner is an in-running nip hazard. Never touch or prod an operating cleaner. Cleaner hazards cause instantaneous amputation and entrapment.

#### **WARNING**

Belt cleaners can become projectile hazards. Stay as far from the cleaner as practical and use safety eyewear and headgear. Missiles can inflict serious injury.

#### **WARNING**

Never adjust anything on an operating cleaner. Unforeseeable belt projections and tears can catch on cleaners and cause violent movements of the cleaner structure. Flailing hardware can cause serious injury or death.

## **Section 3 – Pre-installation Checks and Options**

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### **3.1 Checklist**

- Check that the cleaner size is correct for the beltline width
- Check the belt cleaner carton and make sure all the parts are included
- Review the “Tools Needed” list on the top of the installation instructions
- Check the conveyor site:
  - Will the cleaner be installed on a chute
  - Is the install on an open head pulley requiring mounting structure
  - Are there obstructions that may require cleaner location adjustments (see 3.2 – Cleaner Location Adjustments)

# Section 3 – Pre-installation Checks and Options

## 3.2 Cleaner Location Adjustments

In certain applications it is necessary to modify the location of the primary cleaner pole due to permanent obstacles that obstruct the desired location. Relocating the pole location can be done easily and does not hinder the performance of the cleaner as long as the “C” dimension is maintained.

**NOTE:** In the following example we will be lowering the pole location in the “Y” direction, but the same method could also be applied in the “X” direction.

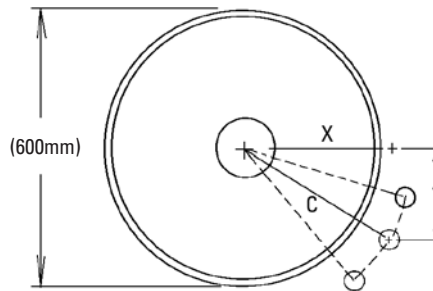
Conveyor situation:

Pulley Diameter: 600mm

X = 300mm

Y = 225mm

C = 375mm



- Determine the given location dimensions and define the change needed.** After laying out the given X & Y dimensions, determine the distance of the modification required for adequate clearance of the pole and tensioning system. (In the example we decide to lower the pole 50mm to clear the support structure).
- Write down known dimensions.** We can now determine two of the three required dimensions which will allow us to find the third. We know we cannot alter the “C” dimension, so this will remain the same. Also we are required to lower the unit in the “Y” dimension 50mm, so we add 50mm to the given “Y” dimension.

X = ?mm

Y = 225+50=275mm

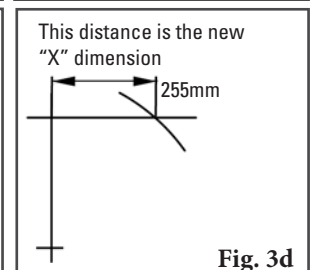
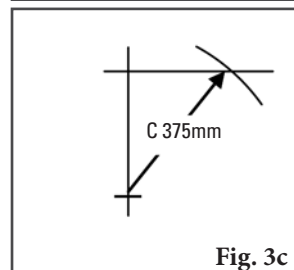
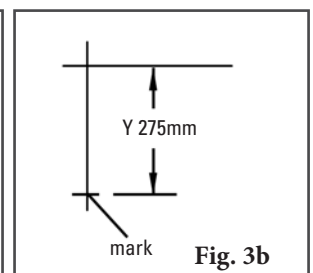
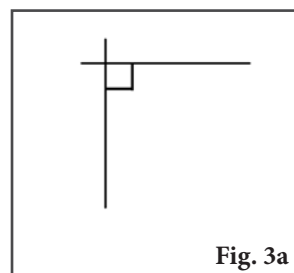
C = 375mm

- Determine final dimension.** On a flat vertical surface, using a level, draw one horizontal line and one vertical line creating a right triangle (Fig 3a). Measure down from the intersection the determined “Y” dimension and mark (Fig 3b). With the tape measure starting at the modified “Y” mark, swing the tape across the “X” line and mark at the “C” dimension where it crosses the “X” line (Fig 3c). Measure from the intersection to the “C” intersection and this will be your new “X” dimension (Fig. 3d).

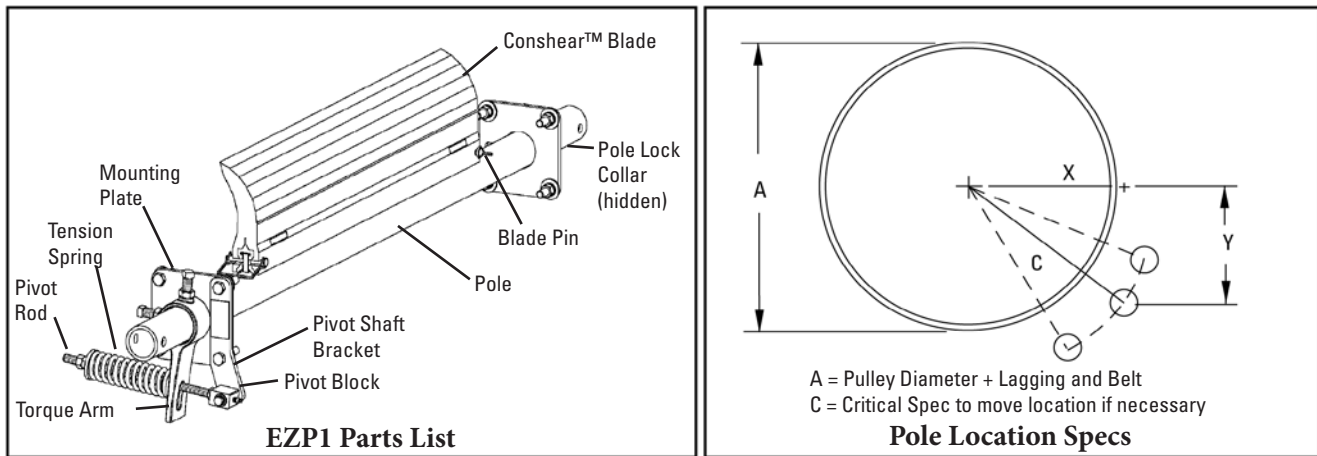
X = 255mm

Y = 275mm

C = 375mm



## Section 4 – Installation Instructions

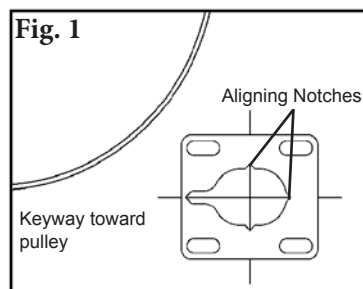


**Physically lock out and tag the conveyor at the power source before you begin cleaner installation.**

Installation specs and instructions are based on the assumption that the conveyor is in its working position (angle). If the conveyor angle will be different, the cleaner should be installed per the final position.

- 1. Locate the correct pole position.** Measure and determine Dimension A (see instructions above). Find Dimension A on the Pole Location Chart at right and determine Dimensions X, Y and C. Measure out horizontally from the centre of the pulley shaft Dim X and mark. From that mark, draw a long vertical line down, then measure and mark Dim Y. This indicates the location of the centre of the cleaner pole. Measure and mark both sides. **NOTE:** If the location is obstructed, use Dim. C and move on an arc from the centre of the pulley shaft to find an open position. Dim. C must remain constant to correctly locate the pole (see drawing above). **NOTE:** For open head installs, first add mounting support materials to the structure.
- 2. Mark and cut the mounting plate holes.** Using the mounting plate template provided in the instruction packet, position the large pole access hole on the chute, aligning the hole notches with the layout lines. Position the keyway toward the pulley. Trace the pole cutout and mounting holes (Fig. 1). Cut the holes on both sides of the chute.

**NOTE: Hole cutouts are slotted for later adjustment if needed.**



**Pole Location Chart**

| A   | X   | Y   | C   |
|-----|-----|-----|-----|
| 250 | 74  | 230 | 242 |
| 275 | 92  | 230 | 248 |
| 300 | 108 | 230 | 254 |
| 325 | 131 | 230 | 265 |
| 350 | 146 | 230 | 273 |
| 375 | 166 | 230 | 284 |
| 400 | 179 | 230 | 291 |
| 425 | 195 | 230 | 301 |
| 450 | 207 | 230 | 309 |
| 475 | 223 | 230 | 320 |
| 500 | 235 | 230 | 329 |
| 525 | 249 | 230 | 339 |
| 550 | 266 | 230 | 352 |
| 575 | 283 | 230 | 365 |
| 600 | 299 | 230 | 377 |
| 625 | 314 | 230 | 390 |
| 650 | 330 | 230 | 402 |
| 675 | 346 | 230 | 415 |
| 700 | 360 | 230 | 427 |
| 725 | 374 | 230 | 439 |
| 775 | 389 | 230 | 452 |
| 775 | 403 | 230 | 464 |
| 825 | 417 | 230 | 477 |
| 825 | 432 | 230 | 489 |
| 850 | 446 | 230 | 501 |
| 875 | 460 | 230 | 514 |
| 900 | 474 | 230 | 526 |



## Section 4 – Installation Instructions (cont.)

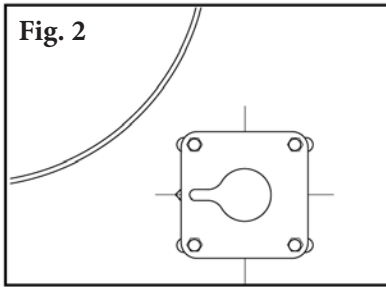


Fig. 2

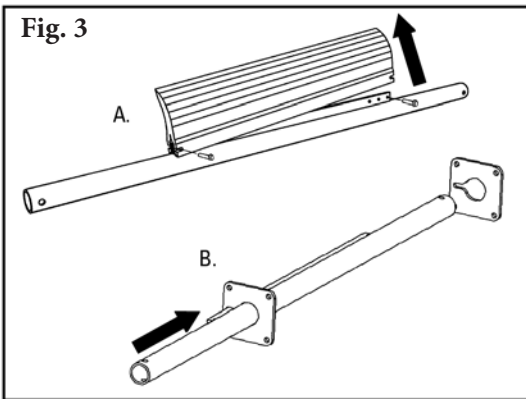


Fig. 3

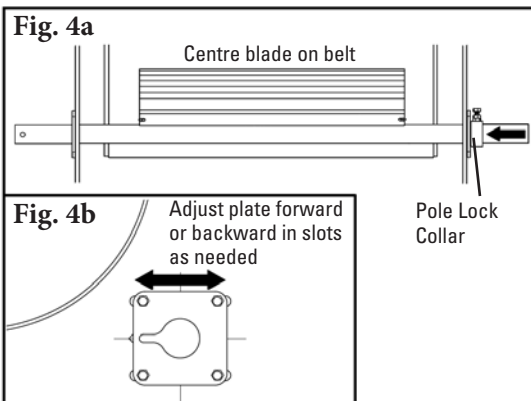


Fig. 4a

Fig. 4b

3. **Install the mounting plates.** Bolt the mounting plates to the chute with bolts provided. Centre plates on the slotted holes and tighten bolts (Fig. 2).
4. **Install the pole.** Remove both blade pins and blade from the pole and insert the pole in through the mounting plates (Fig. 3).
5. **Centre the cleaner on the belt and lock in place.** Reinstall the blade with both blade pins. Centre the blade on the belt and install the pole lock collar onto the pole (on the end opposite the end to be used for the tensioner), snugly up to the mounting plate (Fig. 4a). Rotate the blade up to the belt and check to insure that the blade is square to the pulley face. If not, loosen a mounting plate on one side and adjust the plate forward or backward to square the blade to the pulley, and retighten the bolts (Fig. 4b).

**NOTE: The tensioner is assembled for installation on the left side (as you face the head pulley) of the cleaner. If right side installation is desired, some minor reassembly is required.**

For step-by-step instructions, see the EST Tensioner Card included with the tensioner parts.

6. **Install the tensioner.** Determine desired side and position (Fig. 5a) (the tensioner can be installed in any position 360° around the pole as shown in Fig. 5b) and remove the two mounting plate bolts needed to install the pivot shaft bracket. With the pivot rod inserted through the slotted hole of the torque arm, slide the two components onto the pole together. Using the long bolts provided, fasten the pivot shaft bracket to the mounting plate and tighten (Fig. 5c).

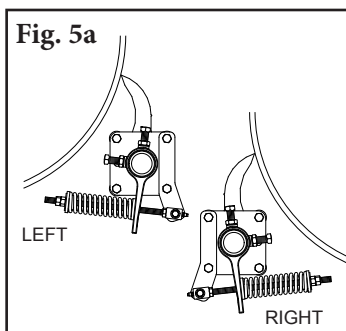


Fig. 5a

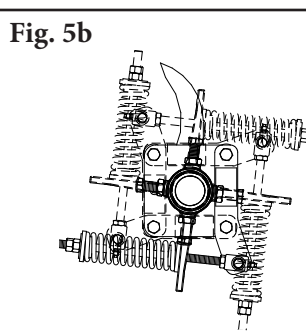


Fig. 5b

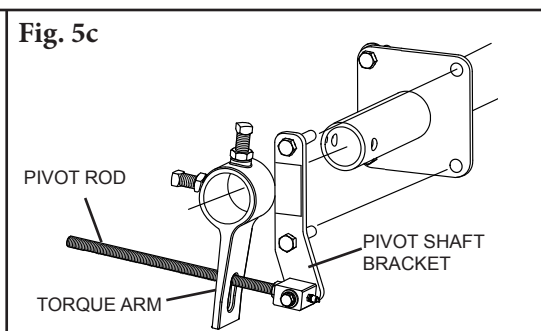
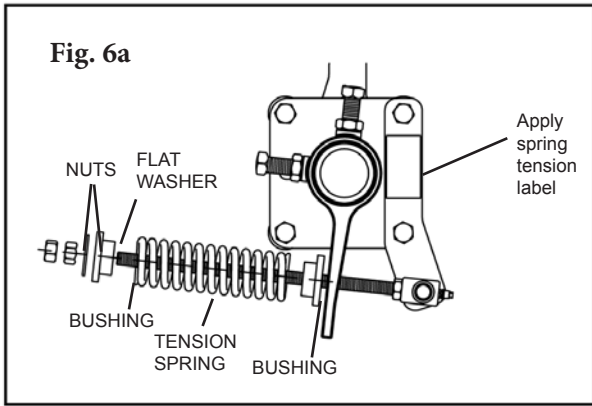


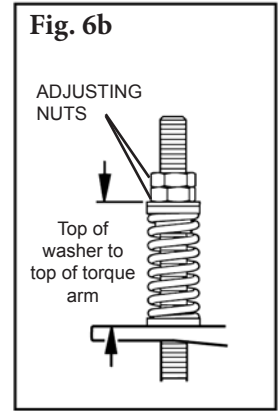
Fig. 5c

## Section 4 – Installation Instructions (cont.)

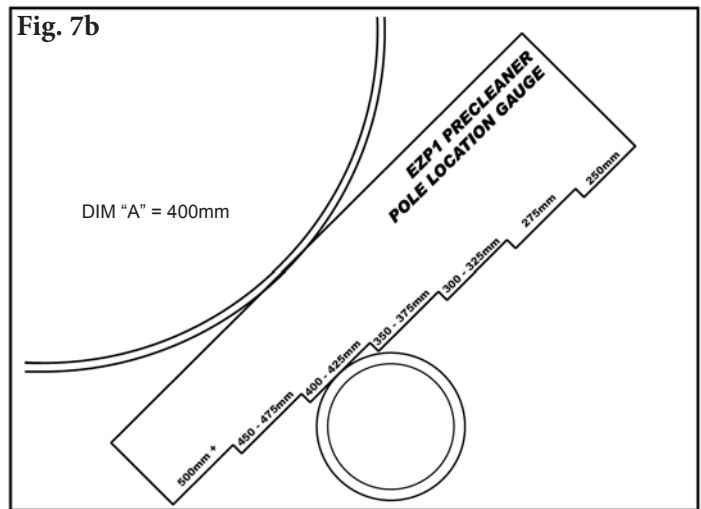
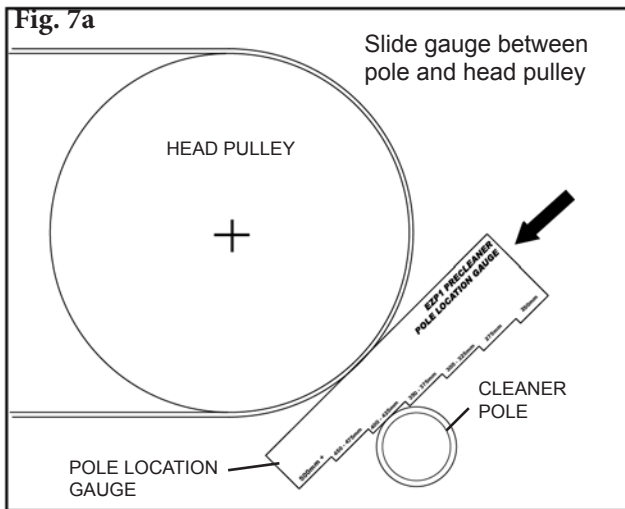


**Blade Tension Chart**

| Blade Width<br>mm | Purple Springs<br>mm | Silver Springs<br>mm | Black Springs<br>mm |
|-------------------|----------------------|----------------------|---------------------|
| 250               | 146                  | 159                  | N/A                 |
| 400               | 133                  | 152                  | N/A                 |
| 550               | 121                  | 149                  | N/A                 |
| 700               | 108                  | 143                  | N/A                 |
| 850               | N/A                  | 137                  | 143                 |
| 1000              | N/A                  | 130                  | 140                 |
| 1150              | N/A                  | 127                  | 133                 |
| 1300              | N/A                  | 121                  | 130                 |
| 1450              | N/A                  | N/A                  | 127                 |
| 1600              | N/A                  | N/A                  | 121                 |
| 1750              | N/A                  | N/A                  | 117                 |



7. **Set the blade tension.** Assemble the tensioner by sliding the spring with bushings onto the pivot rod, followed by the large washer and two tension nuts (Fig. 6a). Thread nuts onto the pivot rod to expose 25mm of the end. Rotate the pole until the blade contacts the pulley. While pulling the torque arm up to the spring, tighten the torque arm to the pole. Set spring length to determined length (Fig. 6b.) Apply the spring tension label (provided in the instruction packet) to the pivot shaft bracket as shown.



8. **Confirm correct pole location.** After the cleaner is installed, slide the Pole Location Gauge (provided in the instruction packet) between the cleaner pole and the pulley, until it stops at a step (Fig. 7a). Read the flat area where the pole is resting (Fig. 7b). This diameter should be equal to Dim A used in Step 1.  
NOTE: If the diameter reading on the Pole Location Gauge does not read the same as in Step 1, check the “C” dimension and correct accordingly.

**Test run the cleaner and inspect the performance.** If vibration occurs or more cleaning efficiency is desired, make the necessary tensioning adjustments.

## Section 5 – Pre-Operation Checklist and Testing

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### 5.1 Pre-Op Checklist

- Recheck that all fasteners are tightened properly
- Add pole caps
- Apply all supplied labels to the cleaner
- Check the blade location on the belt
- Be sure that all installation materials and tools have been removed from the belt and the conveyor area

### 5.2 Test Run the Conveyor

- Run the conveyor for at least 15 minutes and inspect the cleaning performance
- Check the tensioner spring for recommended length (proper tensioning)
- Make adjustments as necessary

**NOTE:** Observing the cleaner when it is running and performing properly will help to detect problems or when adjustments are needed later.

## Section 6 – Maintenance

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Flexco belt cleaners are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the cleaner is installed a regular maintenance program should be set up. This program will ensure that the cleaner operates at optimal efficiency and problems can be identified and fixed before the cleaner stops working.

All safety procedures for inspection of equipment (stationary or operating) must be observed. The EZP1 Primary Cleaner operates at the discharge end of the conveyor and is in direct contact with the moving belt. Only visual observations can be made while the belt is running. Service tasks can be done only with the conveyor stopped and by observing the correct lockout/tagout procedures.

### 6.1 New Installation Inspection

After the new cleaner has run for a few days a visual inspection should be made to ensure the cleaner is performing properly. Make adjustments as needed.

### 6.2 Routine Visual Inspection (every 2-4 weeks)

A visual inspection of the cleaner and belt can determine:

- If the spring length is the correct length for optimal tensioning.
- If the belt looks clean or if there are areas that are dirty.
- If the blade is worn out and needs to be replaced.
- If there is damage to the blade or other cleaner components.
- If fugitive material is built up on the cleaner or in the transfer area.
- If there is cover damage to the belt.
- If there is vibration or bouncing of the cleaner on the belt.
- If a snub pulley is used, a check should be made for material buildup on the pulley.

If any of the above conditions exist, a determination should be made on when the conveyor can be stopped for cleaner maintenance.

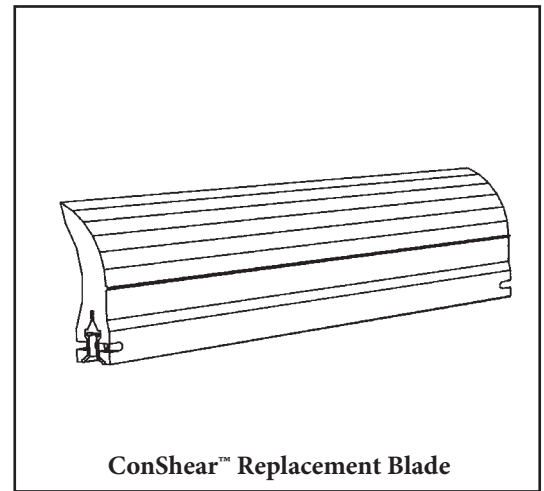
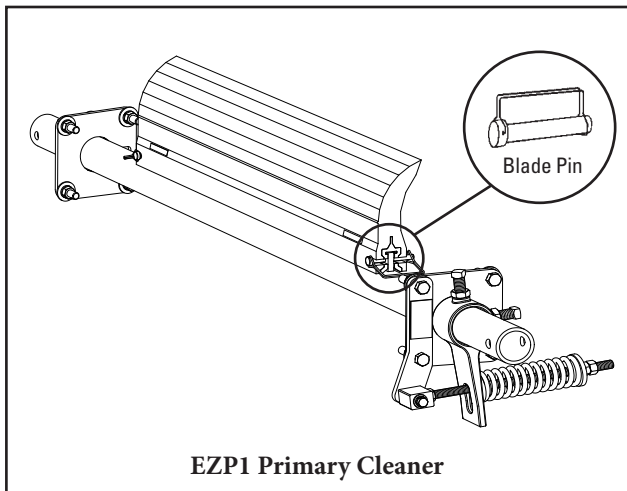
### 6.3 Routine Physical Inspection (every 6-8 weeks)

When the conveyor is not in operation and properly locked and tagged out a physical inspection of the cleaner to perform the following tasks:

- Clean material buildup off of the cleaner blade and pole.
- Closely inspect the blade for wear and any damage. Replace if needed.
- Check both blade pins for proper installation and condition. Replace if needed.
- Ensure full blade to belt contact.
- Inspect the cleaner pole for damage.
- Inspect all fasteners for tightness and wear. Tighten or replace as needed.
- Replace any worn or damaged components.
- Check the tension of the cleaner blade to the belt. Adjust the tension if necessary using the chart on the cleaner or the one on page 10.
- When maintenance tasks are completed, test run the conveyor to ensure the cleaner is performing properly.

## Section 6 – Maintenance (cont.)

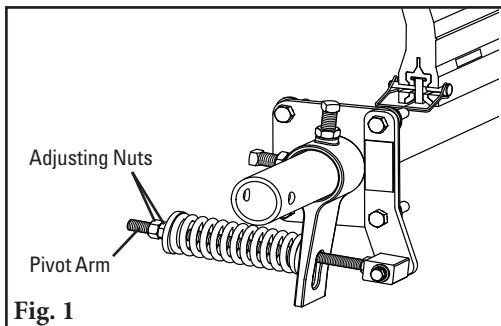
### 6.4 Blade Replacement Instructions



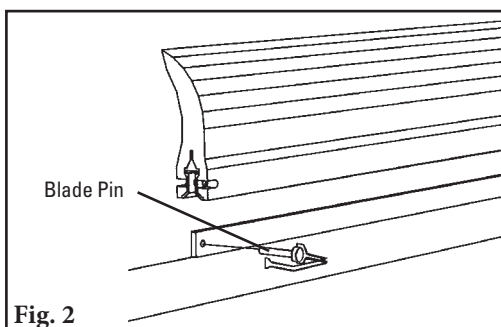
**Physically lock out and tag the conveyor at the power source before you begin cleaner installation.**

#### Tools Needed:

- Tape measure
- (2) 38mm spanners or crescent wrenches
- Wire brush (for cleaning pole)
- Small putty knife (for cleaning pole)



1. **Remove the tension.** Loosen the adjusting nuts on both sides and turn them out until they are flush with ends of the pivot arms (Fig. 1). This releases the tension of the blade on the belt.

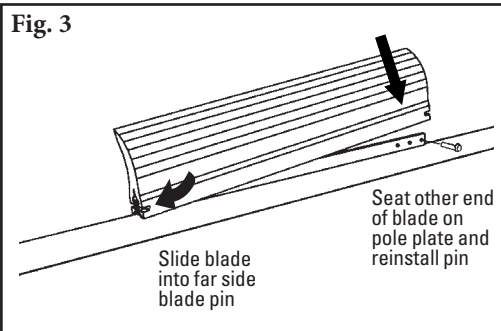


2. **Remove the worn blade.** Remove one blade pin and remove the blade from the pole (Fig. 2). Clean all fugitive material from the pole.

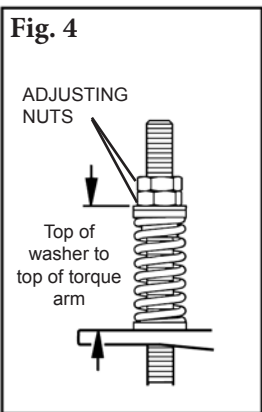
**NOTE: If blade is hard to remove use a screwdriver or hammer to loosen it and then remove.**

## Section 6 – Maintenance (cont.)

### 6.4 Blade Replacement Instructions



3. **Install the new blade.** Slide the new blade onto the pole, locking it into the far blade pin, then reinstall the removed blade pin, washer and clip (Fig. 3).



Blade Tension Chart

| Blade Width | Purple Springs | Silver Springs | Black Springs |
|-------------|----------------|----------------|---------------|
| mm          | mm             | mm             | mm            |
| 250         | 146            | 159            | N/A           |
| 400         | 133            | 152            | N/A           |
| 550         | 121            | 149            | N/A           |
| 700         | 108            | 143            | N/A           |
| 850         | N/A            | 137            | 143           |
| 1000        | N/A            | 130            | 140           |
| 1150        | N/A            | 127            | 133           |
| 1300        | N/A            | 121            | 130           |
| 1450        | N/A            | N/A            | 127           |
| 1600        | N/A            | N/A            | 121           |
| 1750        | N/A            | N/A            | 117           |

4. **Reset the correct blade tension.** Refer to the chart for the spring length required for the belt width. Lightly pull the pivot arm toward the end of the torque arm slot nearest the pole and turn the adjusting nuts until the required spring length is achieved (Fig. 4).

**NOTE:** The chart is also on the cleaner's pivot shaft bracket for future reference for retensioning maintenance.

**Test run the cleaner.** Run the conveyor for at least 15 minutes and inspect the cleaning performance. Check the spring length for proper tensioning. Make adjustments as necessary.

## Section 6 – Maintenance (cont.)

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### 6.5 Maintenance Log

Conveyor Name/No. \_\_\_\_\_

Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

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Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

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Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

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Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

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Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

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Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

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Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

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Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

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## Section 6 – Maintenance (cont.)

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### 6.6 Cleaner Maintenance Checklist

Site: \_\_\_\_\_ Inspected by: \_\_\_\_\_ Date: \_\_\_\_\_

Belt Cleaner: \_\_\_\_\_ Serial Number: \_\_\_\_\_

Blade Width:  Belt minus 50mm  Belt minus 200mm  Belt minus 350mm

#### Beltline Information:

Beltline Number: \_\_\_\_\_ Belt Condition: \_\_\_\_\_

#### Belt

Width:  450mm  600mm  750mm  900mm  1050mm  1200mm  1350mm  1500mm  1800mm

Head Pulley Diameter (Belt & Lagging): \_\_\_\_\_ Belt Speed: \_\_\_\_\_ fpm Belt Thickness: \_\_\_\_\_

Belt Splice: \_\_\_\_\_ Condition of Splice: \_\_\_\_\_ Number of Splices: \_\_\_\_\_  Skived  Unskived

Material conveyed: \_\_\_\_\_

Days per week run: \_\_\_\_\_ Hours per day run: \_\_\_\_\_

#### Blade Life:

Date blade installed: \_\_\_\_\_ Date blade inspected: \_\_\_\_\_ Estimated blade life: \_\_\_\_\_

Is blade making complete contact with belt?  Yes  No

Distance from wear line: Left \_\_\_\_\_ Middle \_\_\_\_\_ Right \_\_\_\_\_

Blade condition:  Good  Grooved  Smiled  Not contacting belt  Damaged

Measurement of spring: Required \_\_\_\_\_ Currently \_\_\_\_\_

Was Cleaner Adjusted:  Yes  No

Pole Condition:  Good  Bent  Worn

Lagging:  Side Lag  Ceramic  Rubber  Other  None

Condition of lagging:  Good  Bad  Other \_\_\_\_\_

Cleaner's Overall Performance: (Rate the following 1 - 5, 1= very poor - 5 = very good)

Appearance:  Comments: \_\_\_\_\_

Location:  Comments: \_\_\_\_\_

Maintenance:  Comments: \_\_\_\_\_

Performance:  Comments: \_\_\_\_\_

Other comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



## Section 7 – Troubleshooting

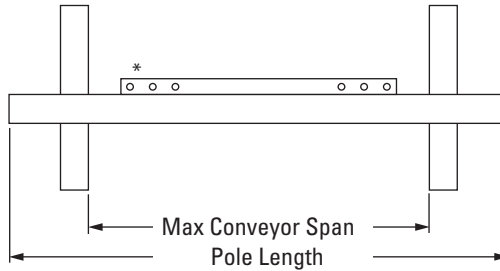
| Problem                               | Possible Cause                           | Possible Solutions   |
|---------------------------------------|--|--|
| Poor cleaning performance             | Cleaner under-tensioned                  | Adjust to correct tension – see spring length chart                                      |
|                                       | Cleaner over-tensioned                   | Adjust to correct tension – see spring length chart                                      |
|                                       | Cleaner installed in wrong location      | Verify "C" dimension, relocate to correct dimension                                      |
|                                       | Cleaner blade worn or damaged            | Replace cleaner blade  |
| Rapid Blade Wear                      | Tension on cleaner too high/low          | Adjust to correct tension – see spring length chart                                      |
|                                       | Cleaner not located correctly            | Check cleaner location for correct dimensions  |
|                                       | Blade attack angle incorrect             | Check cleaner location for correct dimensions  |
|                                       | Material too abrasive for blade          | Option: switch to alternate cleaner with metal blades                                    |
|                                       | Mechanical splice damaging blade         | Repair, skive or replace splice  |
| Centre wear on blade (smile effect)   | Blade wider than material path           | Replace blade with width to match material path  |
|                                       | Tension on cleaner too high/low          | Adjust to correct tension – see spring length chart                                      |
| Unusual wear or damage to blade       | Mechanical splice damaging blade         | Repair, skive or replace splice  |
|                                       | Belt damaged or ripped                   | Repair or replace belt   |
|                                       | Cleaner not correctly located            | Verify "C" dimension, relocate to correct dimension                                      |
|                                       | Damage to pulley or pulley lagging       | Repair or replace pulley   |
| Vibration or noise                    | Cleaner not located correctly            | Verify "C" dimension, relocate to correct dimension                                      |
|                                       | Blade attack angle incorrect             | Verify "C" dimension, relocate to correct dimension                                      |
|                                       | Cleaner running on empty belt            | Use a spray pole when the belt is empty  |
|                                       | Cleaner tension too high/low             | Adjust to correct tension or slight adjust to diminish                                   |
|                                       | Cleaner locking bolts not secure         | Check and tighten all bolts and nuts   |
|                                       | Cleaner not square to head pulley        | Verify "C" dimension, relocate to correct dimension                                      |
|                                       | Material buildup in chute                | Clean up build-up on cleaner and in chute  |
| Cleaner being pushed away from pulley | Cleaner tension not set correctly        | Ensure correct tension/increase tension slightly   |
|                                       | Sticky material is overburdening cleaner | Increase tension; replace with cleaner with metal tips; replace with larger size cleaner |
|                                       | Cleaner not set up correctly             | Confirm location dimensions are equal on both sides                                      |

# Section 8 – Specifications and CAD Drawings

## Pole Length Specifications

| Cleaner Size | Pole Length | Maximum Conveyor Span |
|--------------|-------------|-----------------------|
| mm           | mm          | mm                    |
| 300          | 1050        | 925                   |
| 450          | 1200        | 1075                  |
| 600          | 1350        | 1225                  |
| 750          | 1500        | 1375                  |
| 900          | 1650        | 1525                  |
| 1050         | 1800        | 1675                  |
| 1200         | 1950        | 1825                  |
| 1350         | 2200        | 2075                  |
| 1500         | 2350        | 2225                  |
| 1800         | 2650        | 2525                  |

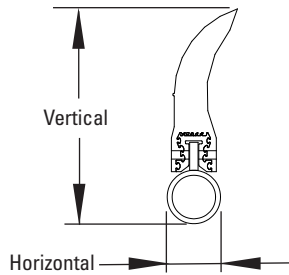
Pole Diameter - 60mm



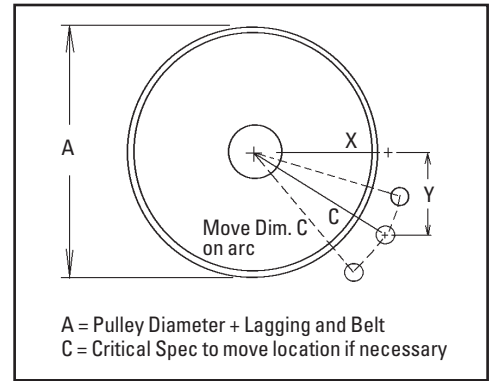
\*Each pole size can be used with a blade size either belt width minus 50mm, belt width minus 200mm, or belt width minus 350mm.

## Clearance Guidelines For Installation

| Horizontal Clearance Required | Vertical Clearance Required |
|-------------------------------|-----------------------------|
| mm                            | mm                          |
| 100                           | 238                         |



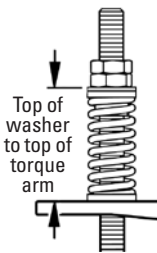
## Pole Location Specs



## Spring Length Chart With EST Spring Tensioner

| Blade Width | Purple Springs | Silver Springs | Black Springs |
|-------------|----------------|----------------|---------------|
| mm          | mm             | mm             | mm            |
| 250         | 146            | 159            | N/A           |
| 400         | 133            | 152            | N/A           |
| 550         | 121            | 149            | N/A           |
| 700         | 108            | 143            | N/A           |
| 850         | N/A            | 137            | 143           |
| 1000        | N/A            | 130            | 140           |
| 1150        | N/A            | 127            | 133           |
| 1300        | N/A            | 121            | 130           |
| 1450        | N/A            | N/A            | 127           |
| 1600        | N/A            | N/A            | 121           |
| 1750        | N/A            | N/A            | 117           |

Shading Indicates Preferred Spring Option



## Pole Location Chart

| A   | X   | Y   | C   |
|-----|-----|-----|-----|
| 250 | 74  | 230 | 242 |
| 275 | 92  | 230 | 248 |
| 300 | 108 | 230 | 254 |
| 325 | 131 | 230 | 265 |
| 350 | 146 | 230 | 273 |
| 375 | 166 | 230 | 284 |
| 400 | 179 | 230 | 291 |
| 425 | 195 | 230 | 301 |
| 450 | 207 | 230 | 309 |
| 475 | 223 | 230 | 320 |
| 500 | 235 | 230 | 329 |
| 525 | 249 | 230 | 339 |
| 550 | 266 | 230 | 352 |
| 575 | 283 | 230 | 365 |
| 600 | 299 | 230 | 377 |
| 625 | 314 | 230 | 390 |
| 650 | 330 | 230 | 402 |
| 675 | 346 | 230 | 415 |
| 700 | 360 | 230 | 427 |
| 725 | 374 | 230 | 439 |
| 775 | 389 | 230 | 452 |
| 775 | 403 | 230 | 464 |
| 825 | 417 | 230 | 477 |
| 825 | 432 | 230 | 489 |
| 850 | 446 | 230 | 501 |
| 875 | 460 | 230 | 514 |
| 900 | 474 | 230 | 526 |

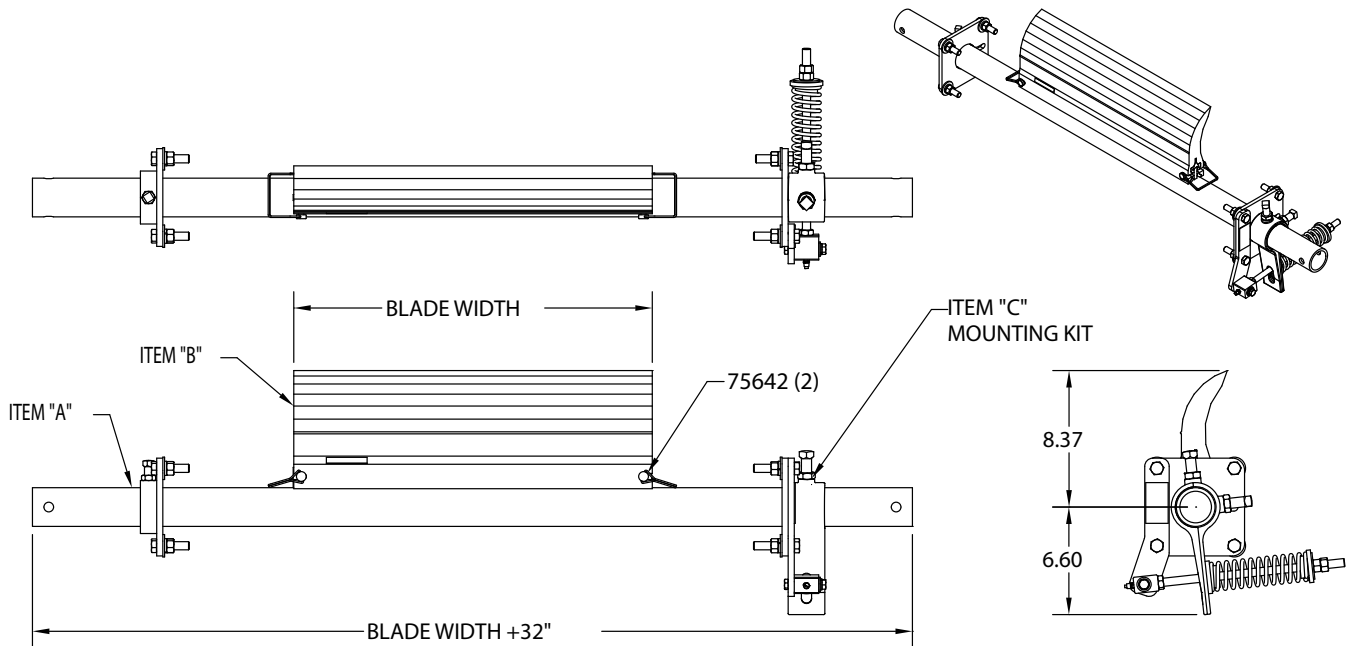
## Specifications:

- Maximum Belt Speed.....3.5m/s
- Temperature Rating.....-35°C to 82°C
- Minimum Pulley Diameter .....250mm
- Blade Height.....185mm
- Usable Blade Wear Length.....100mm
- Blade Material .....Urethane (proprietary blend for abrasion resistance and long wear)
- Available for Belt Widths.....300 to 1800mm
- CEMA Cleaner Rating.....Class 3

U.S. Patent No. D482,508S

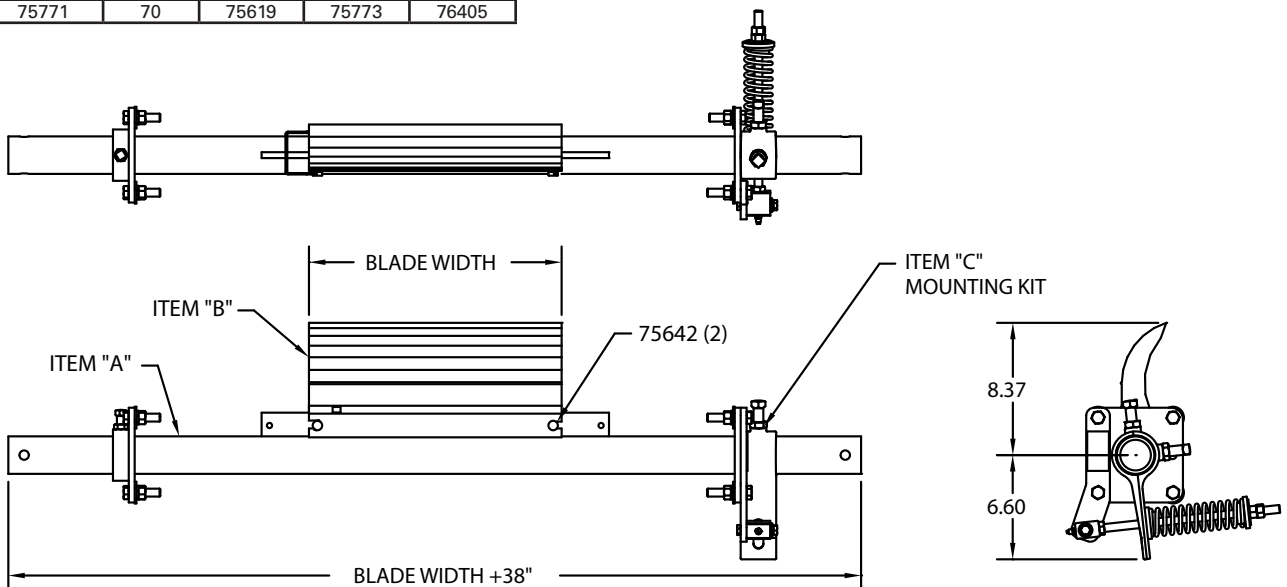
## Section 8 – Specifications and CAD Drawings (cont.)

### 8.1 EZP1 - Belt Width Minus 50mm and Minus 200mm



| ASSY NUMBER | BLADE WIDTH | ITEM "A" | ITEM "B" | ITEM "C" |
|-------------|-------------|----------|----------|----------|
| 75610       | 10          | 75619    | 75628    | 76403    |
| 75611       | 16          | 75620    | 75629    | 76403    |
| 75612       | 22          | 75621    | 75630    | 76403    |
| 75613       | 28          | 75622    | 75631    | 76403    |
| 75614       | 34          | 75623    | 75632    | 76404    |
| 75615       | 40          | 75624    | 75633    | 76404    |
| 75616       | 46          | 75625    | 75634    | 76404    |
| 75617       | 52          | 75626    | 75635    | 76404    |
| 75618       | 58          | 75627    | 75636    | 76405    |
| 75771       | 70          | 75619    | 75773    | 76405    |

**EZP1  
Belt Width -50mm**

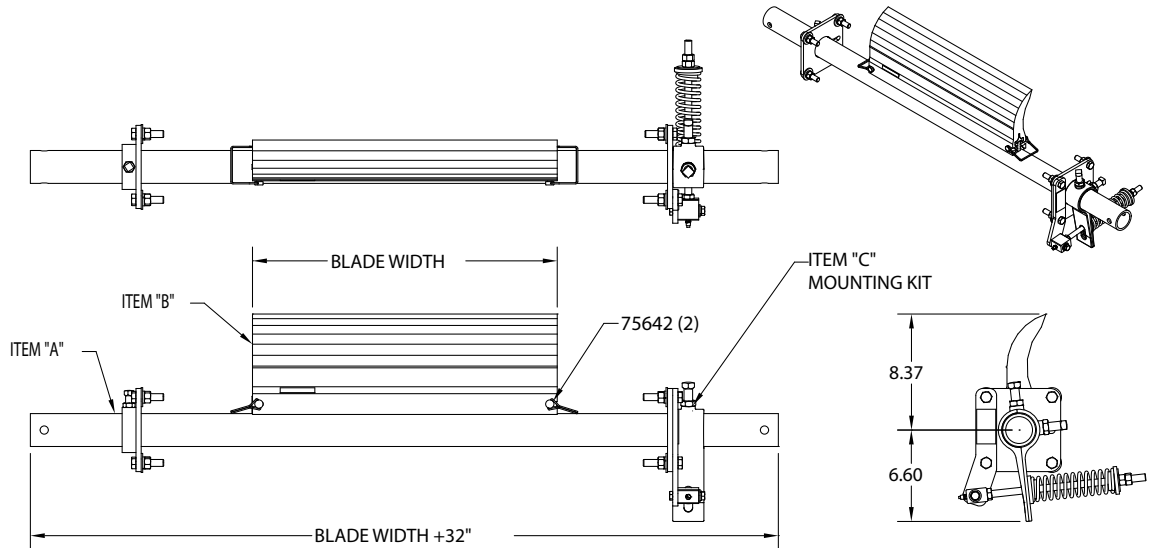


| ASSY NUMBER | BLADE WIDTH | ITEM "A" | ITEM "B" | ITEM "C" |
|-------------|-------------|----------|----------|----------|
| 75779       | 10          | 75620    | 75628    | 76403    |
| 75780       | 16          | 75621    | 75629    | 76403    |
| 75781       | 22          | 75622    | 75630    | 76403    |
| 75782       | 28          | 75623    | 75631    | 76403    |
| 75783       | 34          | 75624    | 75632    | 76404    |
| 75784       | 40          | 75625    | 75633    | 76404    |
| 75785       | 46          | 75626    | 75634    | 76404    |
| 75786       | 52          | 75627    | 75635    | 76404    |
| 75774       | 64          | 75772    | 75775    | 76405    |

**EZP1  
Belt Width -200mm**

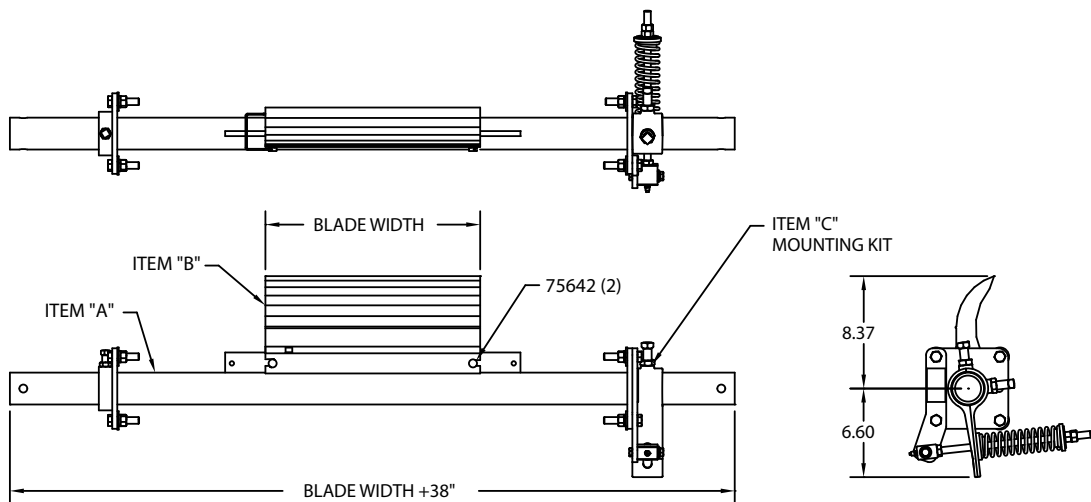
## Section 8 – Specifications and CAD Drawings (cont.)

### 8.2 EZP1 Hi Temp - Belt Width Minus 50mm (2") and Minus 200mm (8")



| ASSY NUMBER | BLADE WIDTH | ITEM "A" | ITEM "B" | ITEM "C" |
|-------------|-------------|----------|----------|----------|
| 76658       | 10          | 75619    | 76593    | 76403    |
| 76659       | 16          | 75620    | 76594    | 76403    |
| 76660       | 22          | 75621    | 76595    | 76403    |
| 76661       | 28          | 75622    | 76596    | 76403    |
| 76662       | 34          | 75623    | 76597    | 76404    |
| 76663       | 40          | 75624    | 76598    | 76404    |
| 76664       | 46          | 75625    | 76599    | 76404    |
| 76665       | 52          | 75626    | 76600    | 76404    |
| 76666       | 58          | 75627    | 76601    | 76405    |
| 76667       | 70          | 75772    | 76603    | 76405    |

**EZP1 Hi Temp  
Belt Width -50mm (2")**

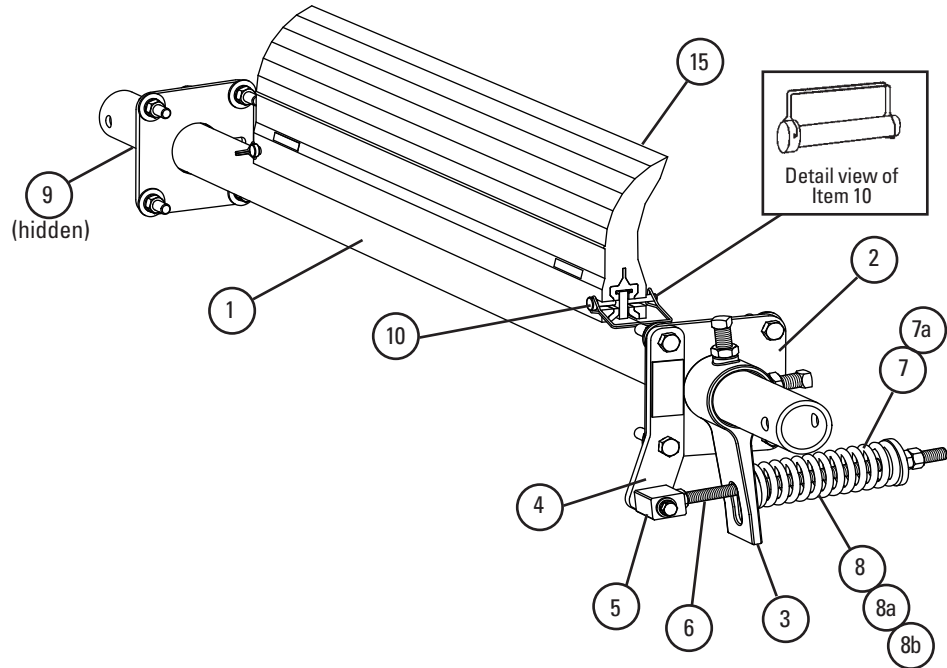


| ASSY NUMBER | BLADE WIDTH | ITEM "A" | ITEM "B" | ITEM "C" |
|-------------|-------------|----------|----------|----------|
| 90817       | 10          | 75620    | 76593    | 76403    |
| 90818       | 16          | 75621    | 76594    | 76403    |
| 90819       | 22          | 75622    | 76595    | 76403    |
| 90820       | 28          | 75623    | 76596    | 76403    |
| 90821       | 34          | 75624    | 76597    | 76404    |
| 90822       | 40          | 75625    | 76598    | 76404    |
| 90823       | 46          | 75626    | 76599    | 76404    |
| 90824       | 52          | 75627    | 76600    | 76404    |
| 90825       | 64          | 75772    | 76602    | 76405    |

**EZP1 Hi Temp  
Belt Width -200mm (8")**

# Section 9 – Replacement Parts

## 9.1 EZP1 Powder Coat



### Replacement Parts

| REF | DESCRIPTION  | ORDERING NUMBER | ITEM CODE | WT. KGS. |
|-----|--|-----------------|-----------|----------|
| 1   | 300 mm Pole  | EZP1P12         | 75619     | 7.9      |
|     | 450 mm Pole  | EZP1P18         | 75620     | 9.2      |
|     | 600 mm Pole  | EZP1P24         | 75621     | 10.3     |
|     | 750 mm Pole  | EZP1P30         | 75622     | 12.1     |
|     | 900 mm Pole  | EZP1P36         | 75623     | 13.8     |
|     | 1050 mm Pole   | EZP1P42         | 75624     | 14.9     |
|     | 1200 mm Pole   | EZP1P48         | 75625     | 16.1     |
|     | 1350 mm Pole   | EZP1P54         | 75626     | 17.8     |
|     | 1500 mm Pole   | EZP1P60         | 75627     | 19.7     |
|     | 1800 mm Pole   | EZP1P72         | 75772     | 21.9     |
| 2   | Mounting Plate Kit* (2 ea.)  | EZP1MPK         | 75637     | 3.5      |
| 3   | Torque Arm Kit* (1 ea.)  | ESTAK-EST       | 76406     | 1.6      |
| 4   | Pivot Shaft Bracket Kit* (1 ea.)   | ESPSBK          | 76407     | 0.8      |
| 5   | Pivot Block Kit*   | ESPBK           | 76408     | 0.3      |
| 6   | Pivot Rod Kit*   | ESPRK           | 76409     | 0.6      |
| 7   | Bushing Kit - Purple and Silver (includes 2 bushings)  | ESBK-PS         | 76410     | 0.1      |
| 7a  | Bushing Kit - Black (includes 2 bushings)  | ESBK-B          | 76411     | 0.1      |
| 8   | Tension Spring - Purple  | QMTS-P          | 75845     | 0.5      |
| 8a  | Tension Spring - Silver  | ESS-S           | 76412     | 0.6      |
| 8b  | Tension Spring - Black   | ESS-B           | 76413     | 0.6      |
| 9   | Pole Lock* (1 ea.)   | EZP1PL          | 75641     | 0.5      |
| -   | EST Tensioner - Purple* for blade widths 300 - 700 mm (includes 1 each items 3, 4, 5, 6, 7 & 8)    | EST-P           | 76403     | 3.5      |
| -   | EST Tensioner - Silver* for blade widths 850 - 1300 mm (includes 1 each items 3, 4, 5, 6, 7 & 8a)  | EST-S           | 76404     | 3.6      |
| -   | EST Tensioner - Black* for blade widths 1450 - 1750 mm (includes 1 each items 3, 4, 5, 6, 7a & 8b) | EST-B           | 76405     | 3.7      |
| 10  | Blade Pin (1 ea.)  | EZP1BP          | 75642     | 0.1      |

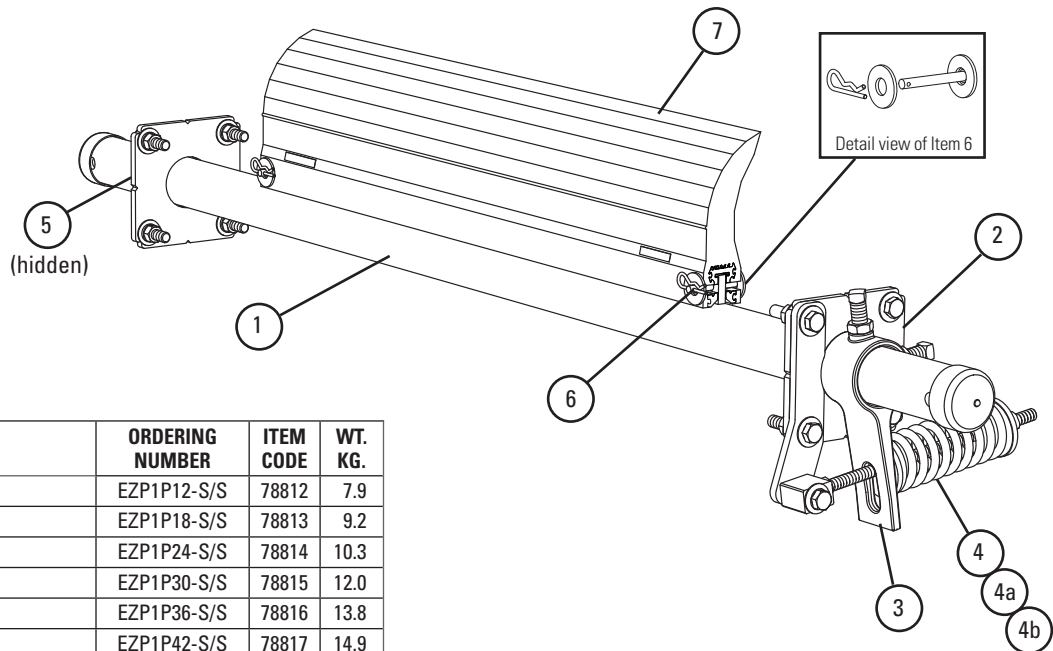
\*Hardware Included

### Spring Tensioner Selection Chart

| CLEANER BLADE WIDTH     | 76403 EST-P | 76404 EST-S | 76405 EST-B |
|-------------------------|-------------|-------------|-------------|
| ConShear 300 - 700 mm   | X           |             |             |
| ConShear 850 - 1300 mm  |             | X           |             |
| ConShear 1450 - 1750 mm |             |             | X           |

# Section 9 – Replacement Parts

## 9.2 EZP1 Stainless Steel



### Replacement Parts

| REF | DESCRIPTION  | ORDERING NUMBER | ITEM CODE | WT. KG. |
|-----|--|-----------------|-----------|---------|
| 1   | 300 mm S/S Pole  | EZP1P12-S/S     | 78812     | 7.9     |
|     | 450 mm S/S Pole  | EZP1P18-S/S     | 78813     | 9.2     |
|     | 600 mm S/S Pole  | EZP1P24-S/S     | 78814     | 10.3    |
|     | 750 mm S/S Pole  | EZP1P30-S/S     | 78815     | 12.0    |
|     | 900 mm S/S Pole  | EZP1P36-S/S     | 78816     | 13.8    |
|     | 1050 mm S/S Pole   | EZP1P42-S/S     | 78817     | 14.9    |
|     | 1200 mm S/S Pole   | EZP1P48-S/S     | 78818     | 16.0    |
|     | 1350 mm S/S Pole   | EZP1P54-S/S     | 78819     | 17.8    |
|     | 1500 mm S/S Pole   | EZP1P60-S/S     | 78820     | 19.7    |
|     | 1800 mm S/S Pole   | EZP1P72-S/S     | 78821     | 21.9    |
| 2   | SS Mounting Plate Kit* (2 ea.)   | EZP1MPK-S/S     | 78923     | 3.5     |
| 3   | SS Torque Arm Kit* (1 ea.)   | ESTAK-EST-S/S   | 78849     | 1.6     |
| 4   | SS Tension Spring - Purple   | QMTS-P-S/S      | 77450     | 0.5     |
| 4a  | SS Tension Spring - White  | QMTS-W-S/S      | 77451     | 0.5     |
| 4b  | SS Tension Spring - Gold   | QMTS-G-S/S      | 77452     | 0.6     |
| 5   | SS Pole Lock* (1 ea.)  | EZP1PL-S/S      | 78848     | 0.5     |
| -   | SS EST Tensioner - Purple*<br>for blade widths 300 - 700mm<br>(includes 1 each items 2, 3, 4)  | EST-P-S/S       | 78808     | 3.5     |
| -   | SS EST Tensioner - White*<br>for blade widths 850 - 1300mm<br>(includes 1 each items 2, 3, 4a) | EST-W-S/S       | 78809     | 3.6     |
| -   | SS EST Tensioner - Gold*<br>for blade widths 1450 - 1750mm<br>(includes 1 each items 2, 3, 4b) | EST-G-S/S       | 78810     | 3.7     |
| 6   | Blade Pin (1 ea.)  | MSPBPK-S/S      | 77583     | 0.0     |

\*Hardware Included  
Lead time: 1 working day

### Spring Tensioner Selection Chart

| CLEANER BLADE WIDTH     | 78808<br>EST-P-S/S | 78809<br>EST-W-S/S | 78810<br>EST-G-S/S |
|-------------------------|--------------------|--------------------|--------------------|
| ConShear 300 - 700 mm   | X                  |                    |                    |
| ConShear 850 - 1300 mm  |                    | X                  |                    |
| ConShear 1450 - 1750 mm |                    |                    | X                  |

## Section 10 – Other Flexco Conveyor Products

---

Flexco provides many conveyor products that help your conveyors to run more efficiently and safely. These components solve typical conveyor problems and improve productivity. Here is a quick overview on just a few of them:

### MMP Primary Cleaner



- Extra cleaning power right on the head pulley
- A 250mm TuffShear™ blade provides increased blade tension on the belt to peel off abrasive materials
- The unique Visual Tension Check™ ensures optimal blade tensioning and quick, accurate retensioning
- Easy to install and simple to service

### Flexco Slider/Impact Beds



- Adjusting troughing angles for easy installation and adjustability
- Long-wearing UHMW for sealing the load zone
- Offered in both Light & Medium duty designs to affordably fit your application

### MHS Secondary Cleaner



- Long-wearing tungsten carbide blades for superior cleaning efficiency
- Patented FormFlex™ cushions independently tension each blade to the belt for consistent, constant cleaning power
- Easy to install, simple to service
- Works with Flexco mechanical belt splices

### PT Max™ Belt Trainer



- Patented “pivot & tilt” design for superior training action
- Dual sensor rollers on each side to minimise belt damage
- Pivot point guaranteed not to freeze up
- Available for topside and return side belts

### Flexco Specialty Belt Cleaners



- “Limited space” cleaners for tight conveyor applications
- High Temp cleaners for severe, high heat applications
- A rubber fingered cleaner for chevron and raised rib belts
- Multiple cleaner styles in stainless steel for corrosive applications

### Belt Ploughs



- A belt cleaner for the tail pulley
- Exclusive blade design quickly spirals debris off the belt
- Economical and easy to service
- Available in vee or diagonal models

## **The Flexco Vision**

To become the leader in maximising  
belt conveyor productivity for our customers worldwide  
through superior service and innovation.

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