

# PT Max™ Belt Trainer

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## Installation, Operation and Maintenance Manual

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PT Max Top Side



PT Max Return Side



PT Max V-Return

# PT Max™ Belt Trainer

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

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

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

This information will be helpful for any future enquiries or questions about belt trainer 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 a PT Max™ Belt Trainer for your conveyor system.

This manual will help you to understand the installation, operation and maintenance 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. In addition, please follow all standard, approved safety guidelines when working on your conveyor.

If, however, you have any questions or problems that are not covered, please visit our web site or contact 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 impact bed. While we have tried to make the installation and service tasks as easy and simple as possible, **this product does however require correct installation and regular inspection and maintenance to maintain top working condition.**

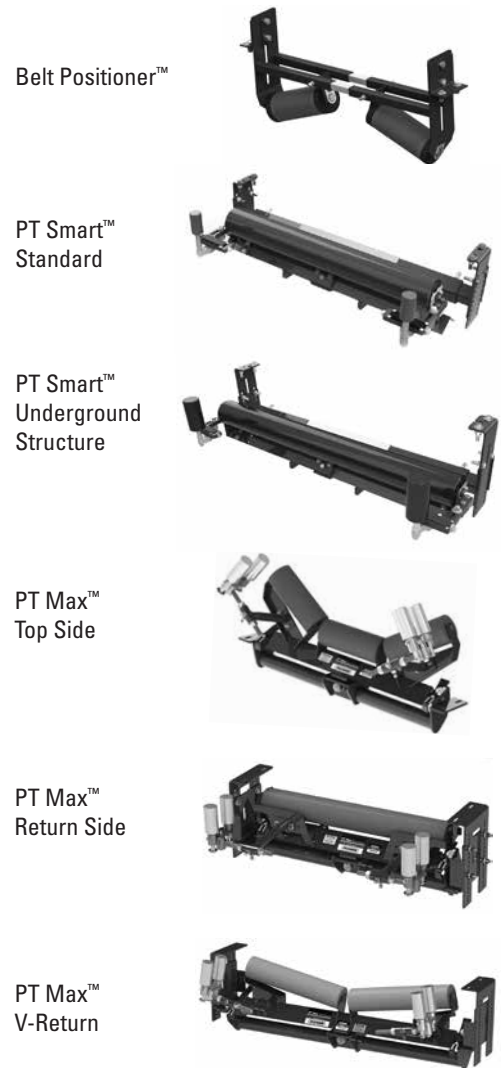
## 1.2 User Benefits

Belt mistracking is a common problem that produces various problems, ranging from belt and structure damage to product spillage and safety issues. By utilising the PT Max, it is possible to correct a belt that is mistracking and causing these problems. Multiple units may be required depending on the length of the mistracking belt.

# Section 1 - Important Information

## 1.3 Proper Belt Trainer Selection

MODEL	APPLICATION RANGE
Belt Positioner™	Return side only, 140 N/mm max tension on Small, Medium and Large; 210 N/mm max tension on Extra Large. Also works on reversing belts.
PT Smart™	Medium-duty belts up to 280 N/mm max tension. Belt width + 75mm idler. Belt thickness 25mm maximum.
PT Smart™ Underground	Medium-duty belts up to 280 N/mm max tension. Belt width + 229mm idler. Belt thickness 25mm maximum. Fits underground structure.
PT Max™ Top Side	Heavy-duty belts up to 525 N/mm max (generally over 19mm thick) Belt width 600 - 1500mm
HD PT Max™ Top Side	Heavy-duty belts up to 1050 N/mm max tension. Belt width 1200 - 2100mm
PT Max™ Return Side and V-Return	Heavy-duty, higher tension belts up to 525 N/mm max. (generally up to 25mm thick)
HD PT Max™ Return Side and V-Return	Heavy-duty belts up to 1050 N/mm max tension. Belt width 1200 - 2100mm



CONVEYOR CRITERIA	BELT POSITIONER™	PT SMART™	PT SMART™ UNDERGROUND	PT MAX™ TOP SIDE	HD PT MAX™ TOP SIDE	PT MAX™ RETURN SIDE and V-RETURN	HD PT MAX™ RETURN SIDE and V-RETURN
Top side mistracking	NO	NO	NO	YES	YES	NO	NO
Return side mistracking	YES	YES	YES	NO	NO	YES	YES
Belt mistracking to one side	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
Belt mistracking to both sides	POOR	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
Inconsistent tracking problem	GOOD	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
Belt is cupped (heavy)	GOOD	GOOD	GOOD	EXCELLENT	EXCELLENT	GOOD	GOOD
Belt has low running tension	POOR	EXCELLENT	EXCELLENT	GOOD	GOOD	GOOD	GOOD
Belt has medium running tension	GOOD	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
Belt has high running tension	GOOD	GOOD	GOOD	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
Approx. "upstream" effect*	15 M	6 M	6 M	6 M	6 M	6 M	6 M
Approx. "downstream" effect*	50' 15 M	36 - 45 M	36 - 45 M	45 - 61 M	45 - 61 M	45 - 61 M	45 - 61 M

\*Typical results; actual results may vary

\*Disk idlers have the potential to reduce these numbers

## Section 2 - Safety Considerations and Precautions

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Before installing and operating the PT Max™ Belt Trainer, it is important to review and understand the following safety information.

There are setup, 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
- Skirt rubber adjustments
- Impact bar replacement
- Cleaning
- Repairs

#### **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 trainer 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 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 components. 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 sealing performance
- Dynamic troubleshooting

#### **DANGER**

Every belt conveyor is an in-running nip hazard. Never touch or prod an operating impact bed. Conveyor hazards may cause instantaneous amputation and entrapment.

#### **WARNING**

Conveyor chutes contain projectile hazards. Stay as far from the trainer as practical and use safety eyewear and headgear. Missiles can inflict serious injury.

#### **WARNING**

Never adjust anything on an operating impact bed. Unforeseeable materials falling into the chute can cause violent movements of the impact bed structure. Flailing hardware can cause serious injury or death.

# Section 3 - Pre-installation Checks and Options

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## 3.1 Checklist

- Check the model and size of the belt trainer. Is it the right one for your beltline?
- Check the PT Max™ to be sure all the parts are included in the shipment.
- 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 45-61M of downstream influence.
  - Position the unit 6M after the start of the mistracking.
  - Identify the existing idler set where PT Max will be installed
  - Remove old tracking devices.
  - If the conveyor has disc idlers, replace one idler before and on idler after the location where the trainer will be installed with a standard idler.

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## 3.2 Optional Installation Accessories

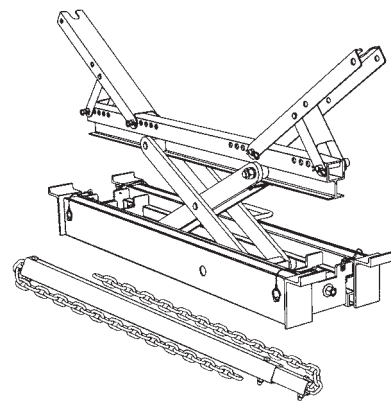
Optional tools can make the installation of the PT Max™ Belt Trainer easier and faster.

**Flex-Lifter™ Conveyor Belt Lifter**

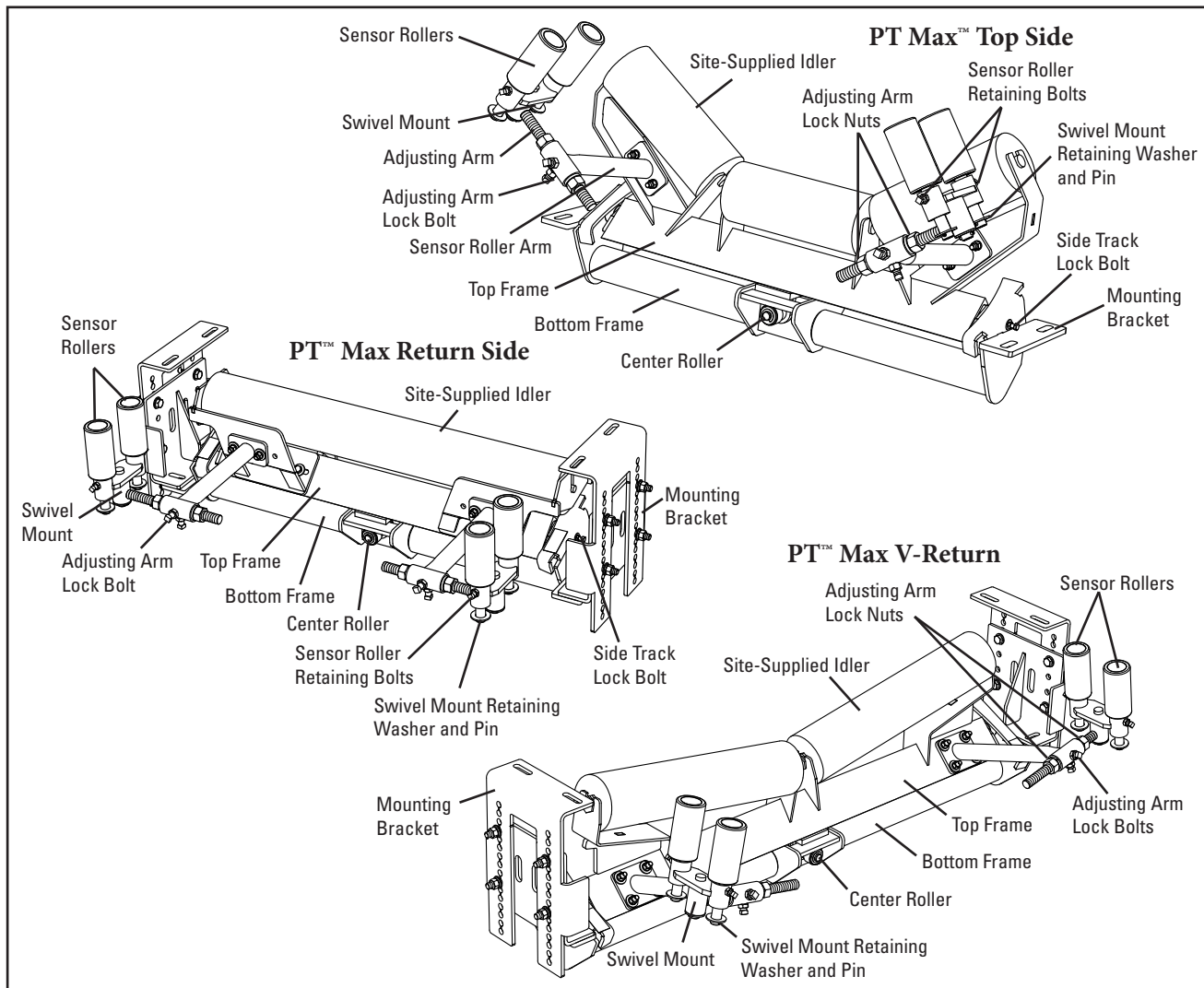
Description	Ordering Number	Item Code
Medium Flex-Lifter 900 - 1500 mm	FL-M	76979
Large Flex-Lifter 1200 - 1800 mm	FL-L	76980
XL Flex-Lifter 1800-2400 mm	FL-XL	76983

### Flex-Lifter™ Conveyor Belt Lifter

The Flexco® Flex-Lifter makes the job of lifting the conveyor belt easy and safe. Using two Flex-Lifters, the belt can be quickly lifted out of the way to install the PT Max™. The Flex-Lifter has the highest safe lift rating available at 1810 kg for Medium and Large, and 2750kg for XL. And it's versatile. It can also be used to lift topside or return side belt for splicing, idler replacement or other maintenance jobs. Available in three sizes: Medium for belt widths 900 - 1500mm, Large for belt widths 1200 - 1800mm, and XL for belt widths 1800 - 2400mm.



## Section 4 - Installation Instructions - PT Max™



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

### Before You Begin:

- These instructions are designed to be used when installing either the Top Side or the Return Side models.
- A serial number plate is located on the top frame of the unit. This serial number identifies the specifications of this custom-built unit. Please use this number in any correspondence.
- The PT Max™ has been purposely designed with a much heavier construction than conventional tracking devices. It is, in most cases, **TOO HEAVY** to manage manually. Please use the necessary mechanical lifting equipment (crane, come-alongs, etc.) for safe installation.
- After the idler(s) (troughing or return) have been installed in the trainer, secure the idler(s) per the instructions to prevent them from falling out while the unit is being lifted into position on the conveyor.
- The trainer should not be positioned closer than 6M from the tail pulley, take-up pulleys, or head pulley
- Follow all safety precautions when using a cutting torch.

### Tools Needed:

- Tape Measure
- 19mm Spanner
- Medium or Large Adjustable Spanners
- (2) Pipe Wrenches
- Power Drill (6mm Drill Bit Is Supplied)
- Cutting Torch
- (2) Come-Alongs (680 Kg Minimum)
- Any necessary equipment for moving and lifting heavy components



# Section 4 - Installation Instructions

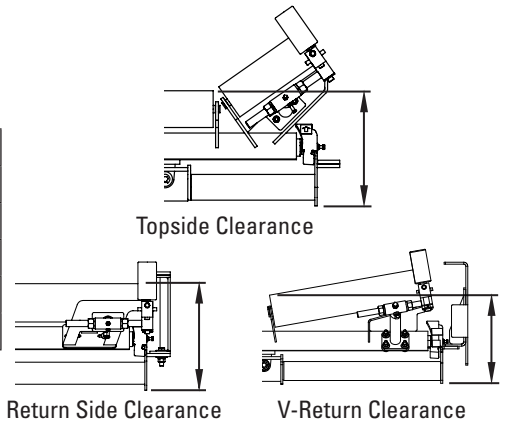
## Conveyor Site Preparation

- Lift the belt where the trainer will be installed.** At the site where the trainer will be installed, lift the belt 50mm off the troughing idler set or the return idler that will be replaced. **CAUTION:** Some lifting equipment or tools may be required depending upon the weight of the belt.
- Remove the existing idler.** Unbolt the troughing idler set or return idler and mounting brackets and lift it out of the conveyor. Set the unit nearby so the idlers can be used in the new trainer to be installed. **NOTE:** 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.
- Verify clearance for the lower sections of the PT Max™ where it is to be located on the conveyor (Fig. 1).** With site engineer's approval, remove any obstructions such as structure supports or separation pans.

Fig. 1

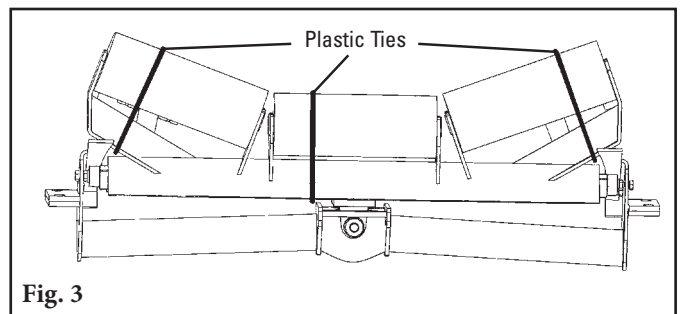
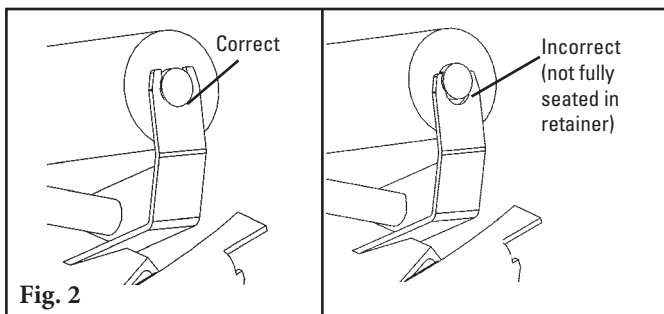
PT Max Minimum Clearance Required (top of roller to bottom of unit)

ROLL DIAMETER		TOPSIDE				RETURN SIDE				V-RETURN			
		Standard		Heavy-Duty		Standard		Heavy-Duty		Standard		Heavy-Duty	
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
127	5"	406	16"	432	17"	432	17"	457	18"	406	16"	432	17"
152	6"	432	17"	457	18"	457	18"	483	19"	432	17"	457	18"
178	7"	457	18"	483	19"	483	19"	508	20"	457	18"	483	19"

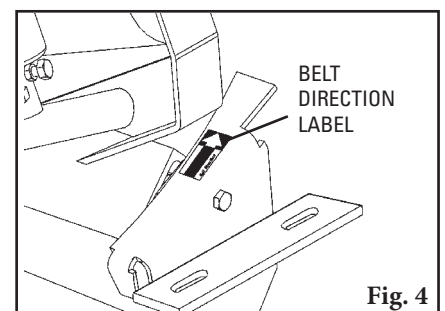


## PT Max™ Preparation and Installation on the Conveyor

- Remove the sensor rollers from the box.** Pull the components out of the box and set aside for installation after the unit is installed on the conveyor.
- Install the troughing idlers or return idler (Fig. 2).** Use the idlers from the set removed during site preparation or from on-site inventory. Important: The PT Max has been expressly designed to use the same idlers that are currently in use on the conveyor. For maximum results the idlers must match the type in use.

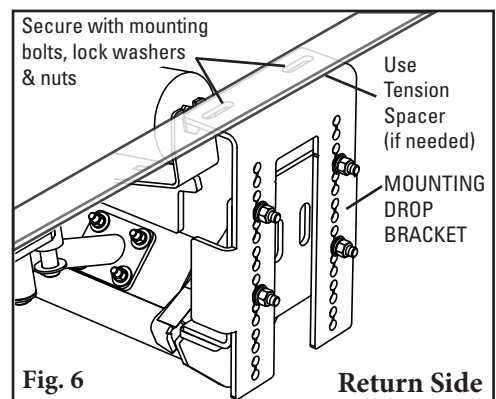
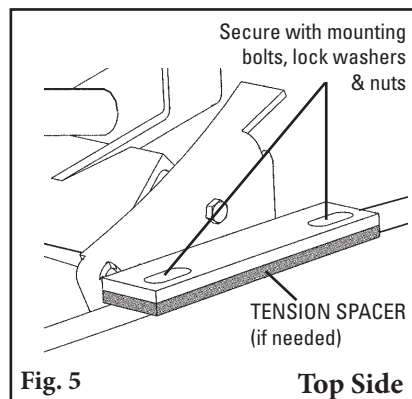


- Secure the idler(s) in the unit.** Use the plastic ties supplied to insure the idlers do not become dislodged when the unit is moved or lifted (Fig. 3). Failure to secure the idler(s) may result in serious injury if an idler falls out.
- Move the unit into position on the conveyor.** Locate the trainer on the conveyor where the idler was removed. Check that the belt direction labels are pointing in the direction of belt travel (Fig. 4).

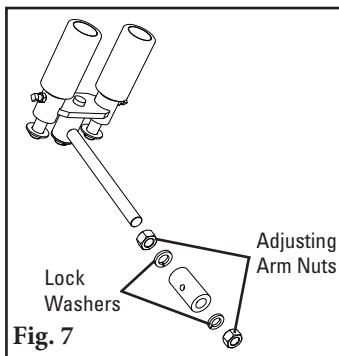


## Section 4 - Installation Instructions

**5. Secure to the conveyor structure.** Square the unit with the structure. Insert the tension spacer if needed for 13mm of additional height adjustment (**Fig. 5**). Tension spacers are also included with Return Side trainers; drop bracket hole spacing is 25mm (**Fig. 6**). Secure the unit to the structure with mounting bolts, lock washers and nuts and tighten.



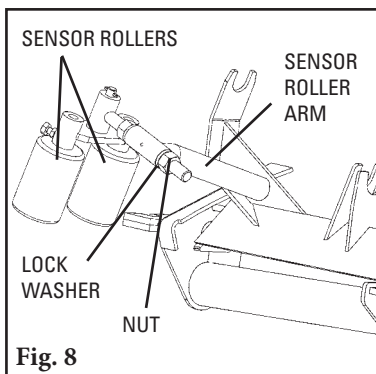
**6. Lower the belt onto the trainer.**



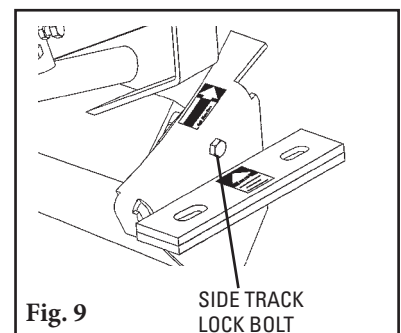
### Adjustment to the Belt

**1. Insert sensor rollers into the unit.** Insert the sensor roller assemblies into the sensor roller arms in the working (outward) position (**Fig. 7 and 8**). Assemble the lock washers and nuts finger tight, allowing the sensor rollers to hang down.

**2. Remove the side track lock bolt (Fig. 9).** This bolt keeps the unit from pivoting during installation. It must now be removed to allow the unit to pivot and tilt for belt training.

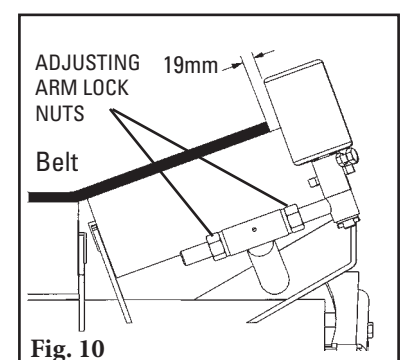


**3. Check for clearance as the unit moves.** Pivot the unit in both directions to ensure there are no obstructions to movement. **NOTE:** It may be difficult to manually move the heavy-duty or super-duty models due to the weight of the belt.



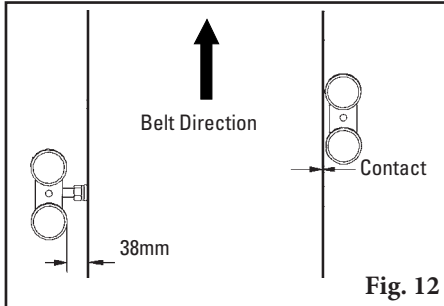
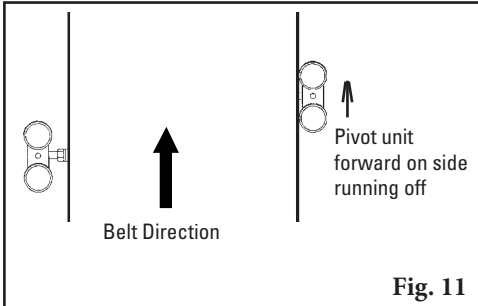
**4. Adjust unit to the belt.** **NOTE:** Final adjustments of the trainer to the beltline depend on where the belt is currently running on the structure. If the belt is running centered on the structure see Option 1, if it is not centered on the structure use the adjustment steps in Option 2.

**Option 1 (Belt centered on structure): Position the sensor rollers to the belt edges.** Rotate the sensor rollers into the upright position and adjust to 19mm from the belt edges by using the adjusting arm nuts (**Fig. 10**).



# Section 4 - Installation Instructions

**Option 2 (Belt not centred on structure): Pivot the unit forward on the side the belt is running off (Fig. 11).** Rotate the sensor rollers into the upright position and adjust the adjusting arms so the sensor rollers on the side running off are just touching the belt edge and the opposite side sensor rollers have a 38mm clearance gap (Fig. 12).

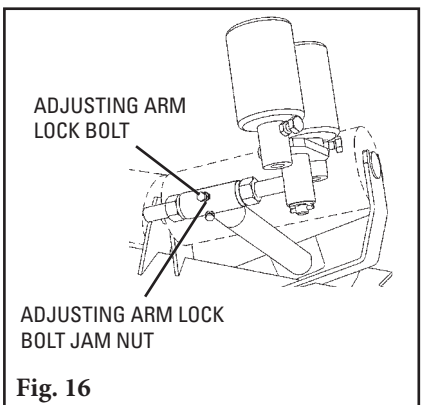
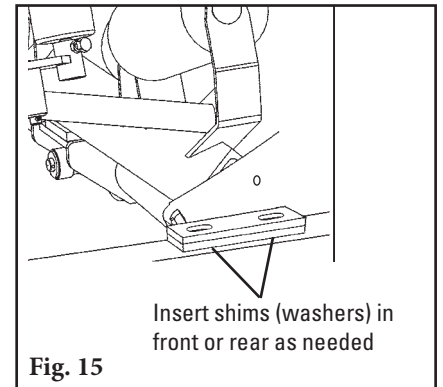
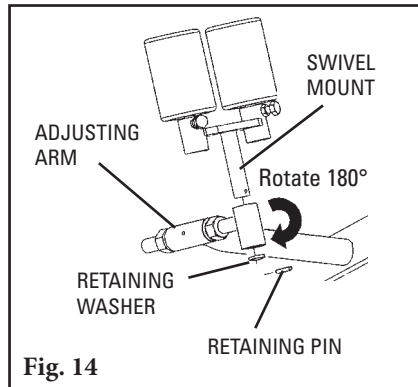
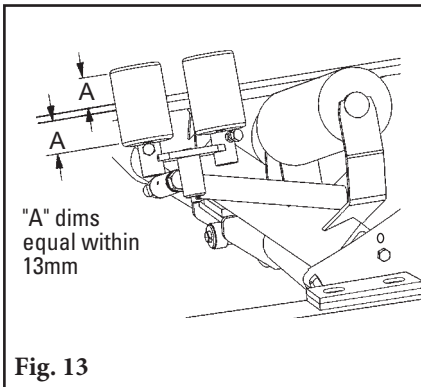


**5. Check the belt's running location on the face of the sensor rollers.** For maximum results, the belt's line of travel must be centred on the face of the sensor rollers within 13mm (Fig. 13).

**If the belt is not centred:**

**Option A.** Lower the sensor rollers to centre on the belt, or for more clearance if needed (this will lower the sensor rollers 25mm). Remove the swivel mount retaining pin and retaining washer and slide the swivel mount out of the adjusting arm. Rotate the adjusting arm 180° and reinsert the swivel mount, retaining washers and retaining pin (Fig. 14).

**Option B.** Shim the unit to lower or raise the sensor rollers in relation to the belt. Insert shims (washers or other material--not supplied) under either the front or rear mounting bolt on both sides of the unit (Fig. 15).



**6. Run the conveyor to verify the training results.** If adjustment is needed, adjust one set of sensor rollers in and the opposite side out an equal amount.

**NOTE:** If the conveyor has disc idlers, the belt may not get the full downstream tracking effect.

**7. Lock the adjusting arms in place (Fig. 16).** Once the training path has been set and confirmed, loosen the adjusting arm lock bolt jam nut and tighten the adjusting arm lock bolt. Re-tighten the adjusting arm lock bolt jam nut. Repeat on opposite side.

# Section 5 - Pre-Operation Checklist and Testing

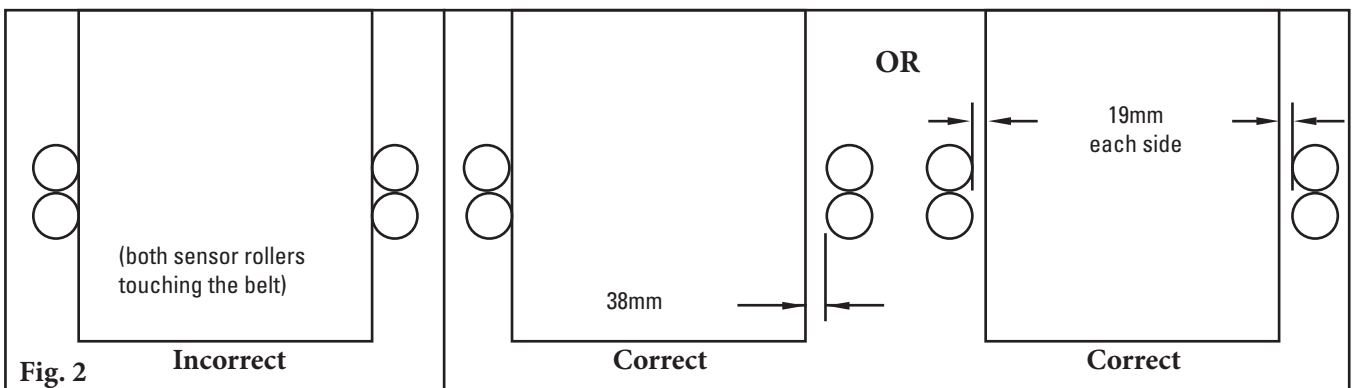
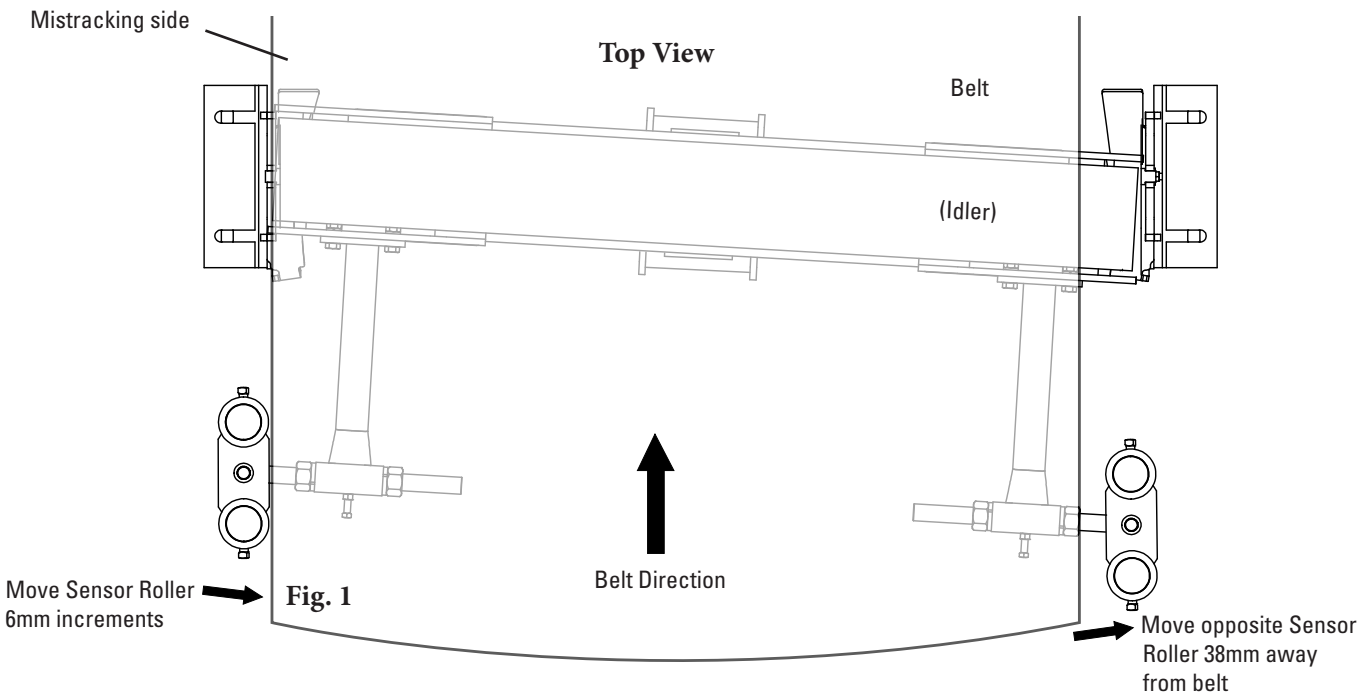
## 5.1 Pre-Op Checklist

- 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

## 5.2 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, bring that sensor roller in toward the centre. Make adjustments of 6mm at a time (**Fig. 1**). Do not pinch the belt between the sensor rollers - sensor rollers overall should be 38mm wider than the belt (**Fig. 2**).

**NOTE:** If the conveyor has discs idlers, the bely may not get the full downstream tracking effect.



## Section 6 - Maintenance

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Flexco® belt trainers are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the trainer is installed a regular maintenance program should be set up. This program will ensure that the trainer operates at optimal efficiency, and problems can be identified and fixed before any damage is done to the belt, the trainer, other conveyor components, or structure.

All safety procedures for inspection of equipment (stationary or operating) must be observed. The PT Max™ 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 PT Max has run for 15 minutes a visual inspection should be made to ensure the trainer is performing properly. Make adjustments as needed.

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

A visual inspection of the PT Max can determine:

- If the belt is tracking as required
- If the trainer is moving freely
- If the main frame is free of material and rolling properly
- If there is damage to the main frame or other components
- If the sensor rollers are turning freely and without damage

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

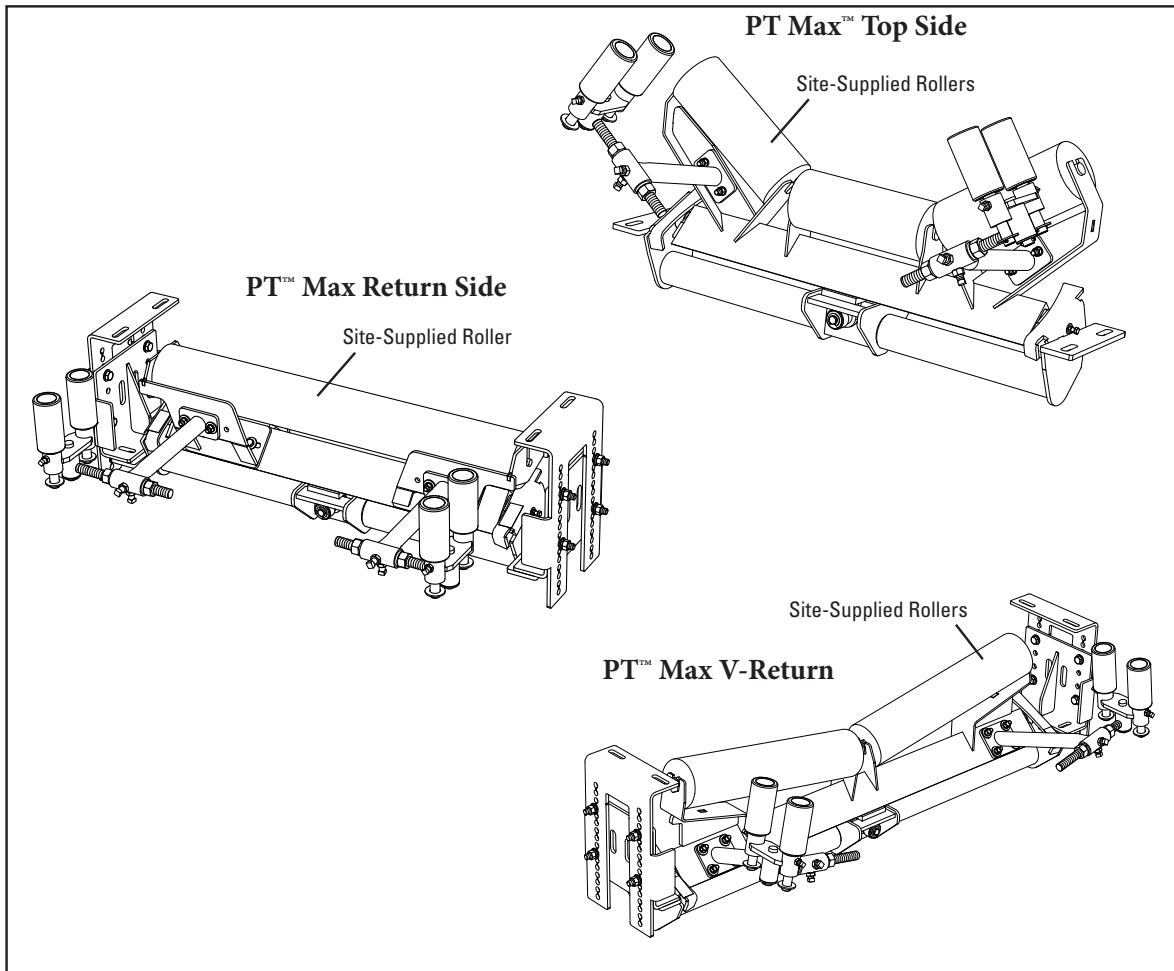
### 6.3 Routine Physical Inspection (every 6-8 weeks)

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

- Clean material buildup off the trainer and components.
- Closely inspect both sensor idlers for free movement and wear. Replace if needed.
- Closely inspect main idler for free movement and wear. Replace if needed.
- Pivot unit to ensure full and easy movement.
- Closely inspect complete unit for damage.
- Inspect all fasteners for tightness and wear. Tighten or replace if needed.
- When maintenance tasks are completed, test run the conveyor to ensure the trainer is performing properly.

## Section 6 - Maintenance

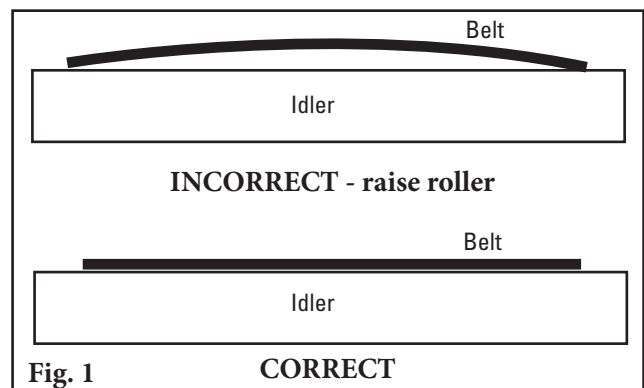
### 6.4 Roller Replacement Instructions



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

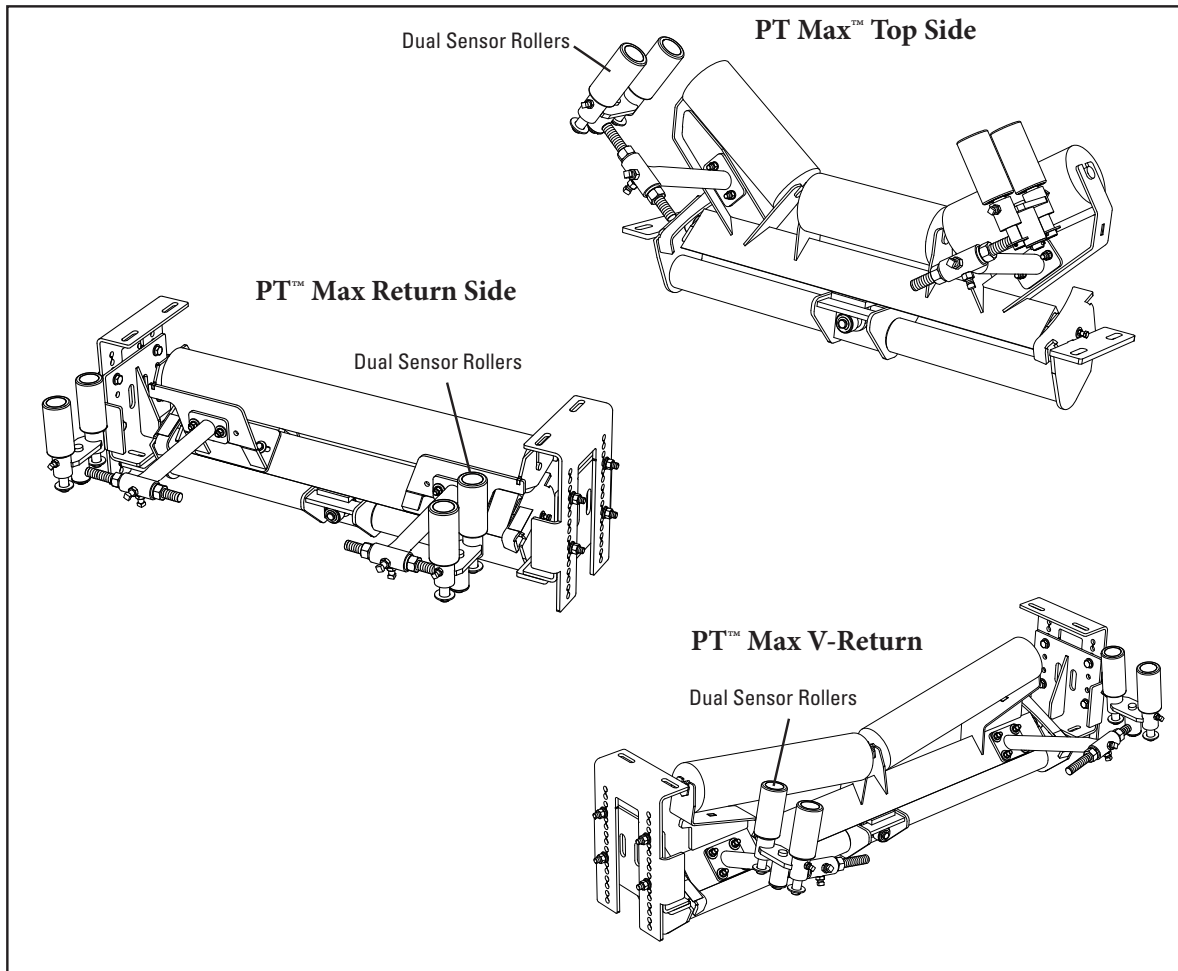
**CAUTION:** Components may be heavy. Use safety-approved lifting procedures.

1. **Remove tension from belt.** Use a Flex-Lifter or other appropriate lifting equipment to lift the belt approx. 75mm off the trainer.
2. **Remove idler(s)** per manufacturers specifications (site supplied).
3. **Install new idler(s)** per manufacturers specifications (site-supplied). Confirm idler turns smoothly.
4. **Lower the belt.** Ensure belt completely contacts idler(s). Shim the unit to raise or lower in relation to the belt if there is not good contact (**Fig. 1**). Tighten all bolts.
5. Go to page 10 "Adjustment to the Belt."



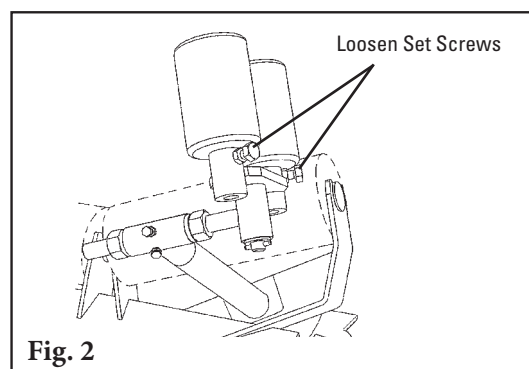
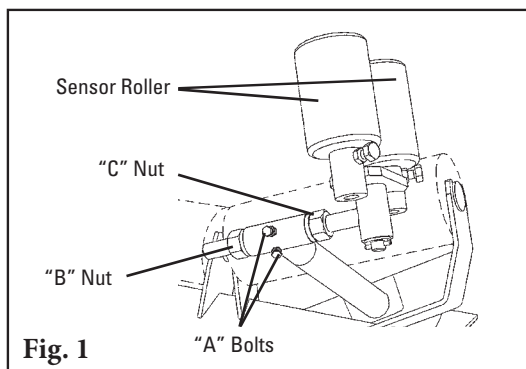
## Section 6 - Maintenance

### 6.5 Sensor Roller Replacement Instructions



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

1. Loosen “A” bolts, turn “B” nut to the end of the rod then turn “C” nut to move sensor rollers away from the belt (Fig. 1).
2. Loosen set screws at base of sensor rollers and remove from adjuster arm (Fig. 2).
3. Install new sensor rollers, retighten set screws.
4. Go to page 10 “Adjustment to the Belt.”



# Section 6 - Maintenance

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## 6.6 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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Activity: \_\_\_\_\_

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

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

---

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

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

---



# Section 6 - Maintenance

## 6.7 Belt Trainer Maintenance Checklist

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

PT Max™: \_\_\_\_\_ Serial Number: \_\_\_\_\_

**Beltline Information:**

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

Belt Width:  600mm  750mm  900mm  1050mm  1200mm  1350mm  1500mm  1800mm  2100mm

Belt Speed: \_\_\_\_\_ m/s Belt Thickness: \_\_\_\_\_

**Idler Life:**

Date idlers installed: \_\_\_\_\_ Date idlers inspected: \_\_\_\_\_ Estimated idler life: \_\_\_\_\_

Idler condition: \_\_\_\_\_

**Sensor Rollers Life (Right Side):**

Date idlers installed: \_\_\_\_\_ Date idlers inspected: \_\_\_\_\_ Estimated idler life: \_\_\_\_\_

Idler condition: \_\_\_\_\_

**Sensor Rollers Life (Left Side):**

Date idlers installed: \_\_\_\_\_ Date idlers inspected: \_\_\_\_\_ Estimated idler life: \_\_\_\_\_

Idler condition: \_\_\_\_\_

PT Max™ Frame Condition:  Good  Bent  Rusted

**Plough'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

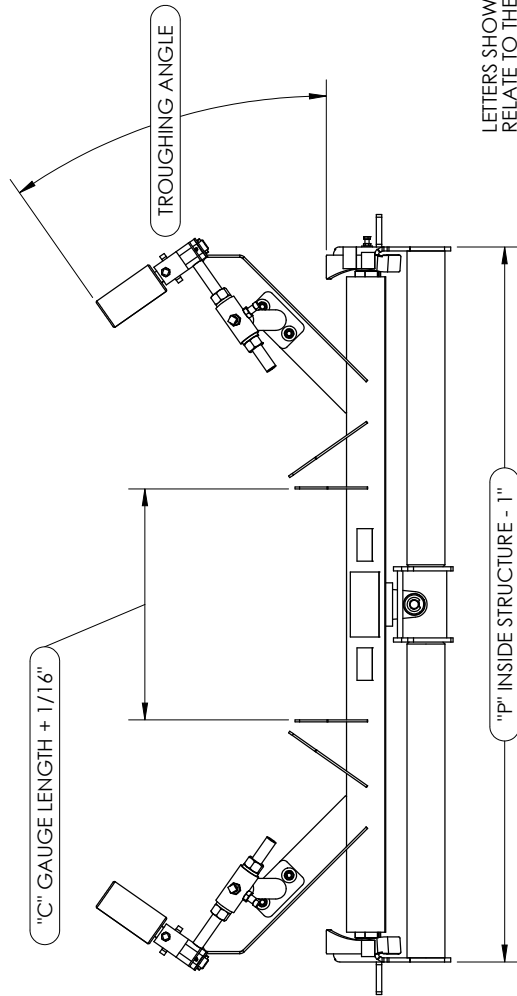
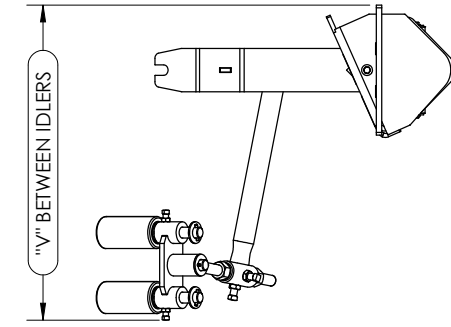
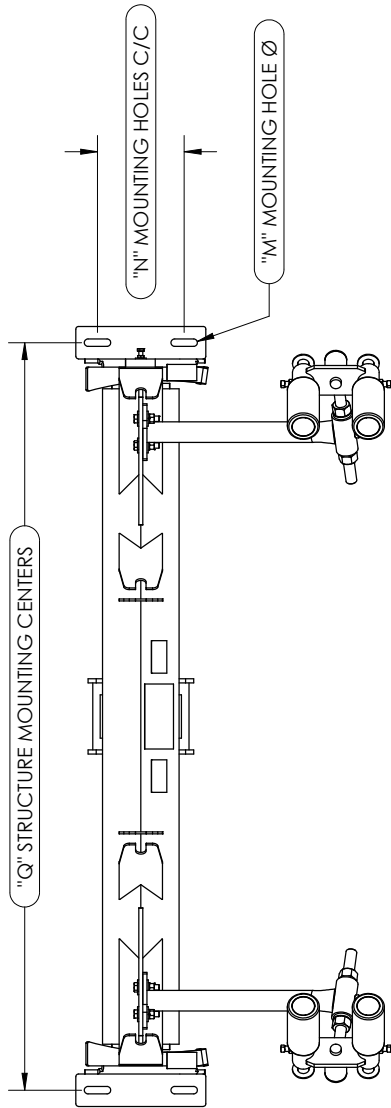
---

<b>Problem</b>	<b>Possible Cause</b>	<b>Possible Solutions</b>
Little to no effect on trouble area of belt	Unit installed in wrong location	Relocate unit 6M after start of problem area of belt
	Incorrect tension on unit	Increase height of unit to provide 13-25mm lift on belt
	Unit mis-adjusted	Adjust sensor roller to provide more activation of unit
	Buildup on main idler	Clean unit
Belt not correcting enough	Unit mis-adjusted	Adjust sensor roll to provide more activation of unit
	Disc idlers on conveyor	Replace one disc idler before and one after the trainer with a standard idler
Belt moving over too much	Unit mis-adjusted	Adjust sensor roll to provide less activation of unit
Belt is jumping sensor roll	Unit located too low in structure	Increase height of unit to provide 13-25mm lift on belt
Belt contacting both side sensors	Unit mis-adjusted	Adjust sensors to provide the 19mm clearance so both sensors do not touch belt
Unit does not pivot	Buildup of material	Clean unit
Main roller not turning	Buildup on main idler	Clean unit
	Main idler bearing bad	Replace main idler

# Section 8 - Specs and CAD Drawings

## 8.1 CAD Drawing - PT Max™ Top Side

SPECIFICATIONS			ITEM CODE
BELT WIDTH (in)	ORDER NUMBER		
24	PTM24T		75583
30	PTM30T		74885
36	PTM36T		74886
42	PTM42T		74887
48	PTM48T		74888
54	PTM54T		74889
60	PTM60T		74890

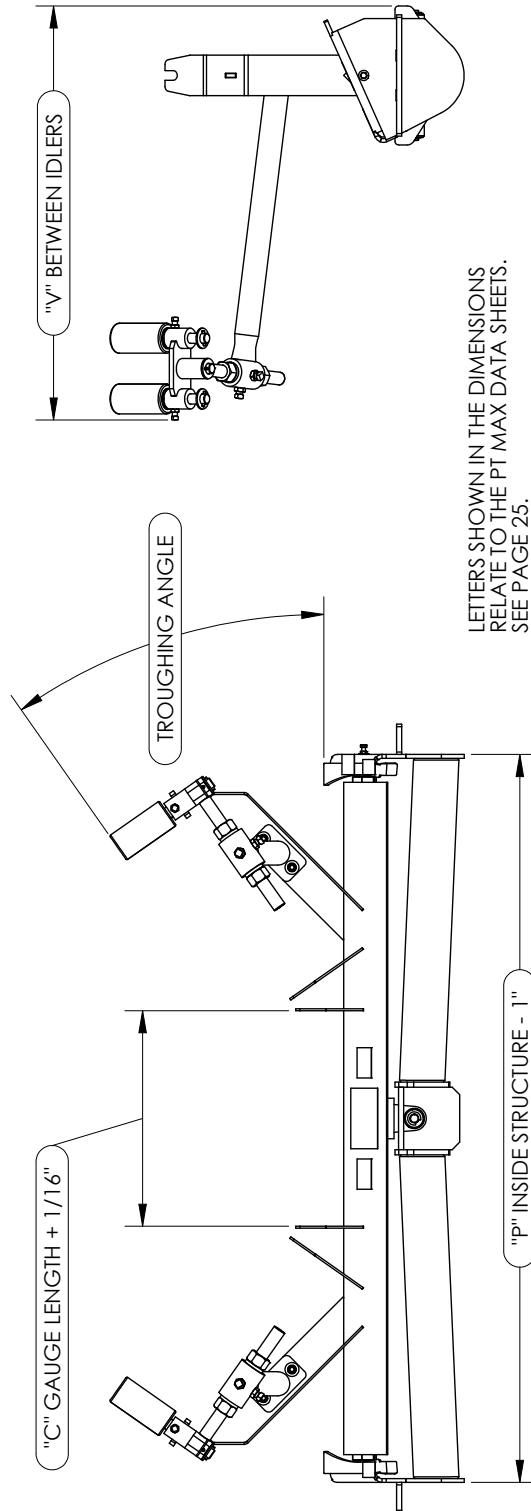
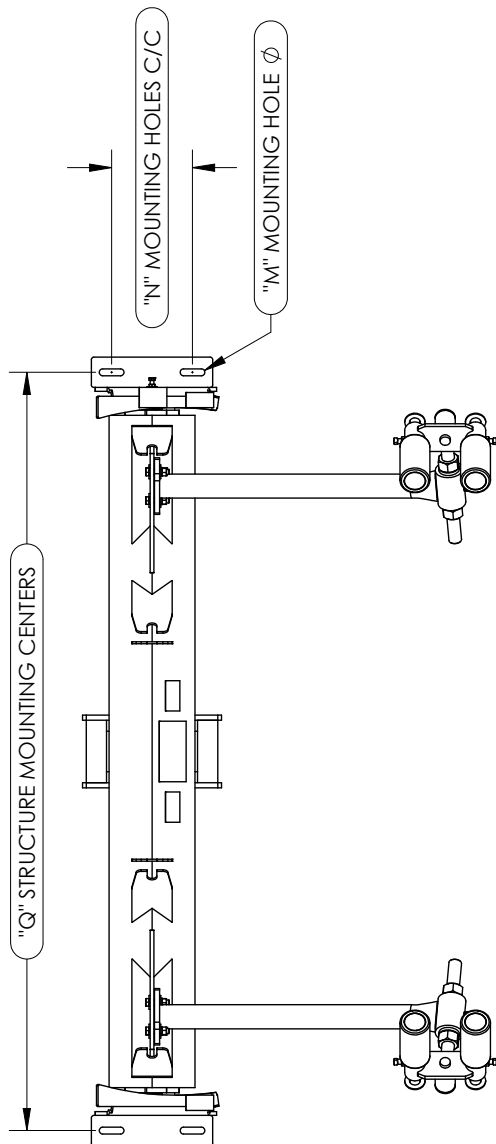


LETTERS SHOWN IN THE DIMENSIONS RELATE TO THE PT MAX DATA SHEETS. SEE PAGE 25.

# Section 8 - Specs and CAD Drawings

## 8.2 CAD Drawing - PT Max™ Top Side HD

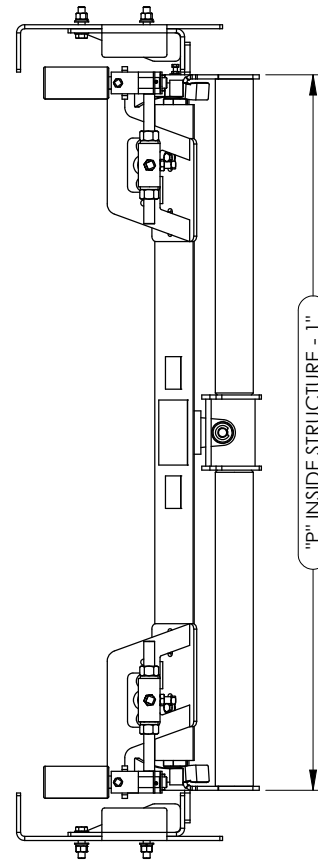
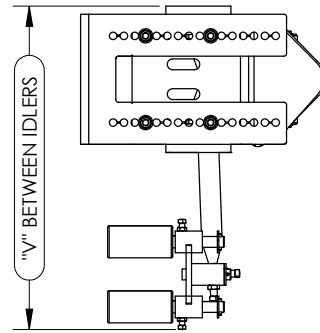
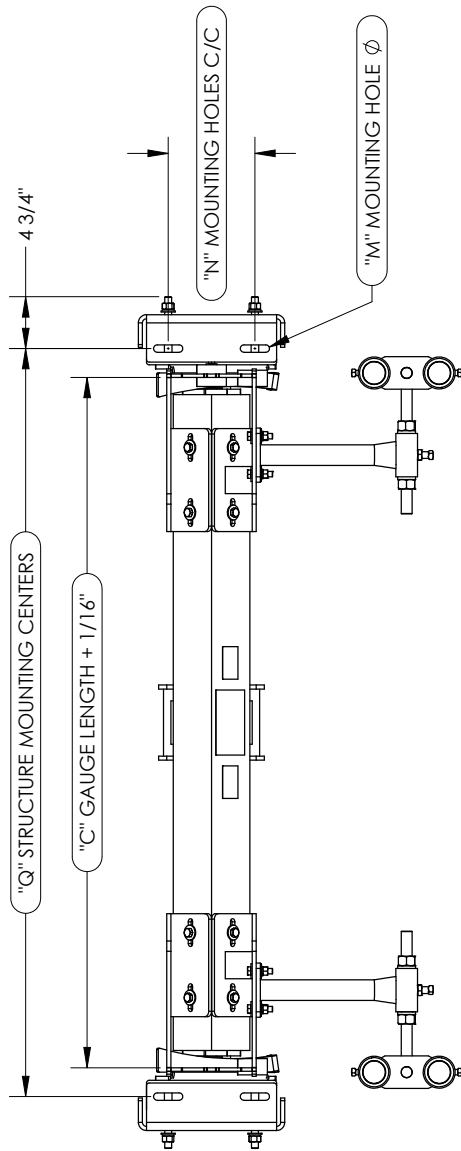
SPECIFICATIONS		
BELT WIDTH 'A' (in)	ORDER NUMBER	ITEM CODE
54	PTMHD54TI	74891
60	PTMHD60TI	74892
72	PTMHD72TI	74893
84	PTMHD84TI	74894



# Section 8 - Specs and CAD Drawings

## 8.3 CAD Drawing - PT Max™ Return Side

SPECIFICATIONS		
BELT WIDTH 'A' (in)	ORDER NUMBER	ITEM CODE
24	PTM24R	75584
30	PTM30R	74899
36	PTM36R	74900
42	PTM42R	74901
48	PTM48R	74902
54	PTM54R	74903
60	PTM60R	74904

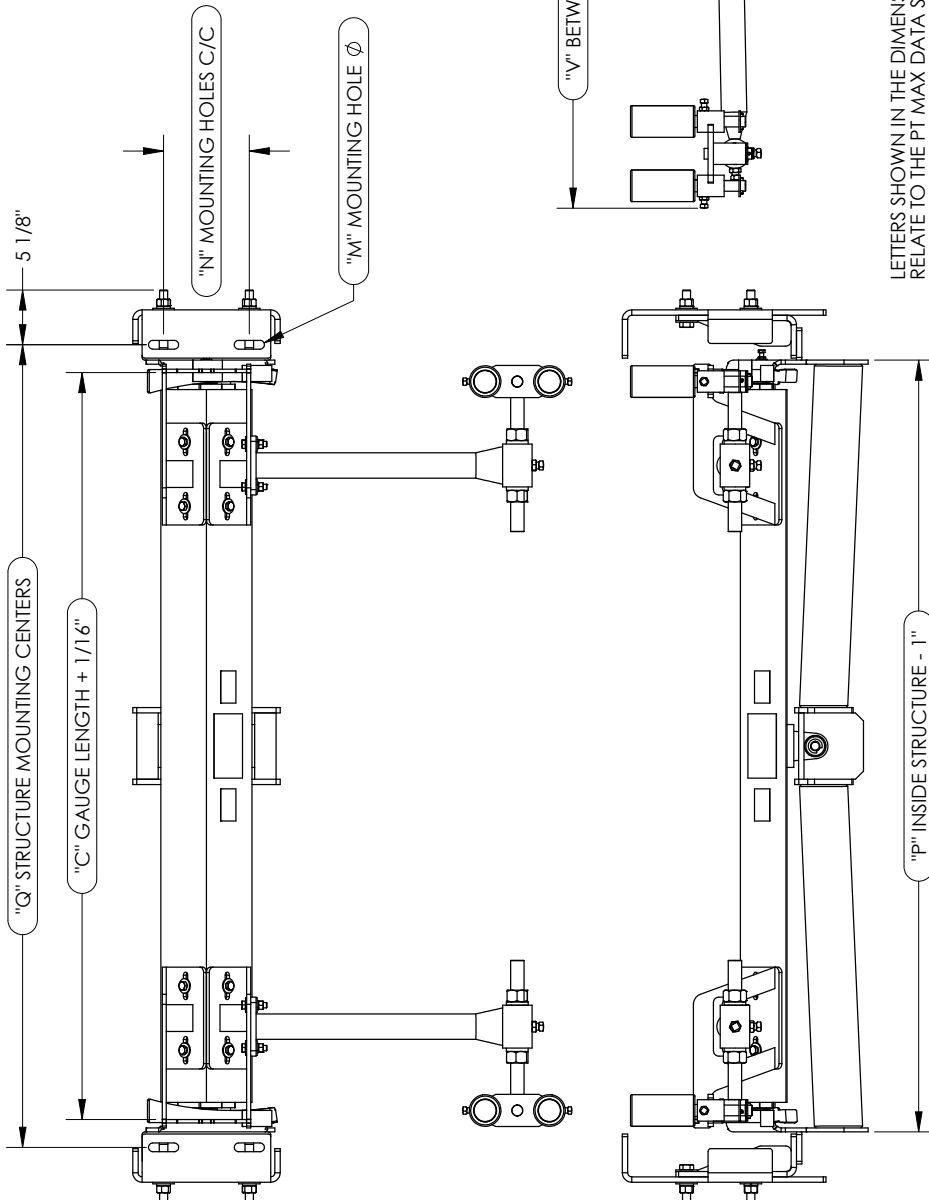


LETTERS SHOWN IN THE DIMENSIONS RELATE TO THE PT MAX DATA SHEETS. SEE PAGE 26.

# Section 8 - Specs and CAD Drawings

## 8.4 CAD Drawing - PT Max™ Return Side HD

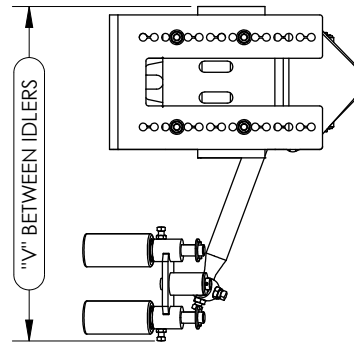
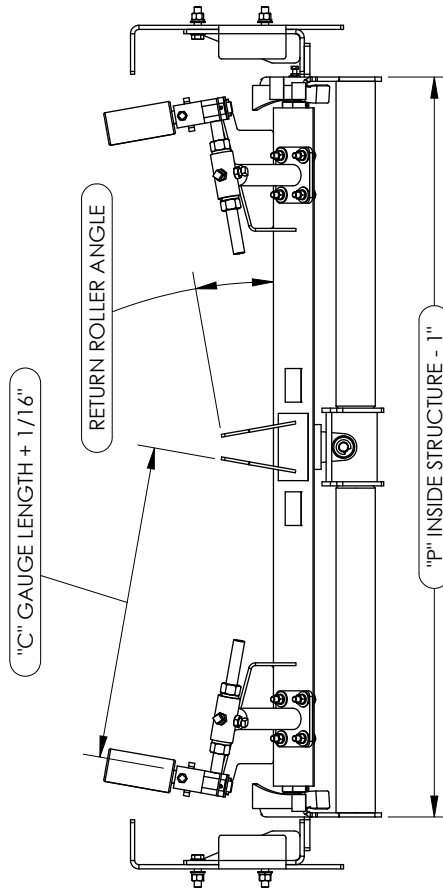
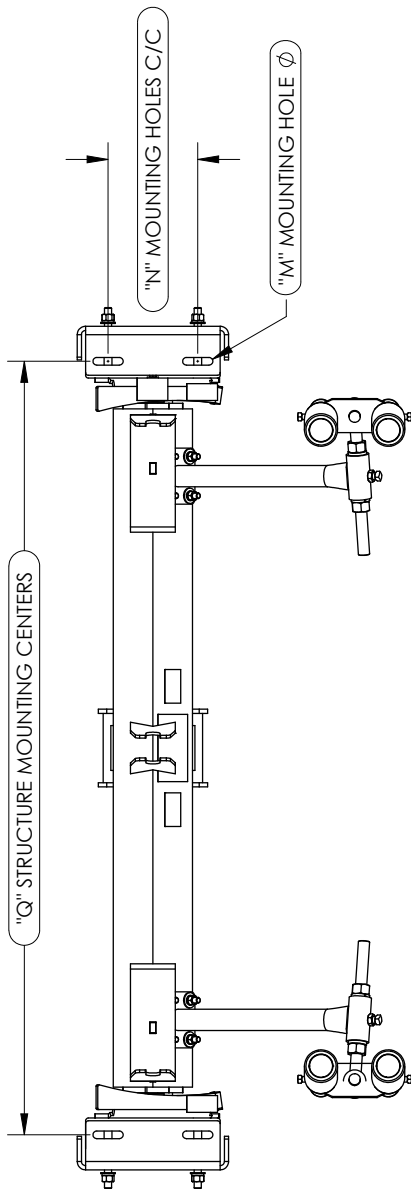
SPECIFICATIONS		
BELT WIDTH 'A' (in)	ORDER NUMBER	ITEM CODE
54	PTMHD54R	74905
60	PTMHD60R	74906
72	PTMHD72R	74907
84	PTMHD84R	74908



# Section 8 - Specs and CAD Drawings

## 8.5 CAD Drawing - PT Max™ V-Return

SPECIFICATIONS		
BELT WIDTH 'A' (in)	ORDER NUMBER	ITEM CODE
24	PTMSTD24VR	79669
30	PTMSTD30VR	79670
36	PTMSTD36VR	79671
42	PTMSTD42VR	79672
48	PTMSTD48VR	79673
54	PTMSTD54VR	79674
60	PTMSTD60VR	79675

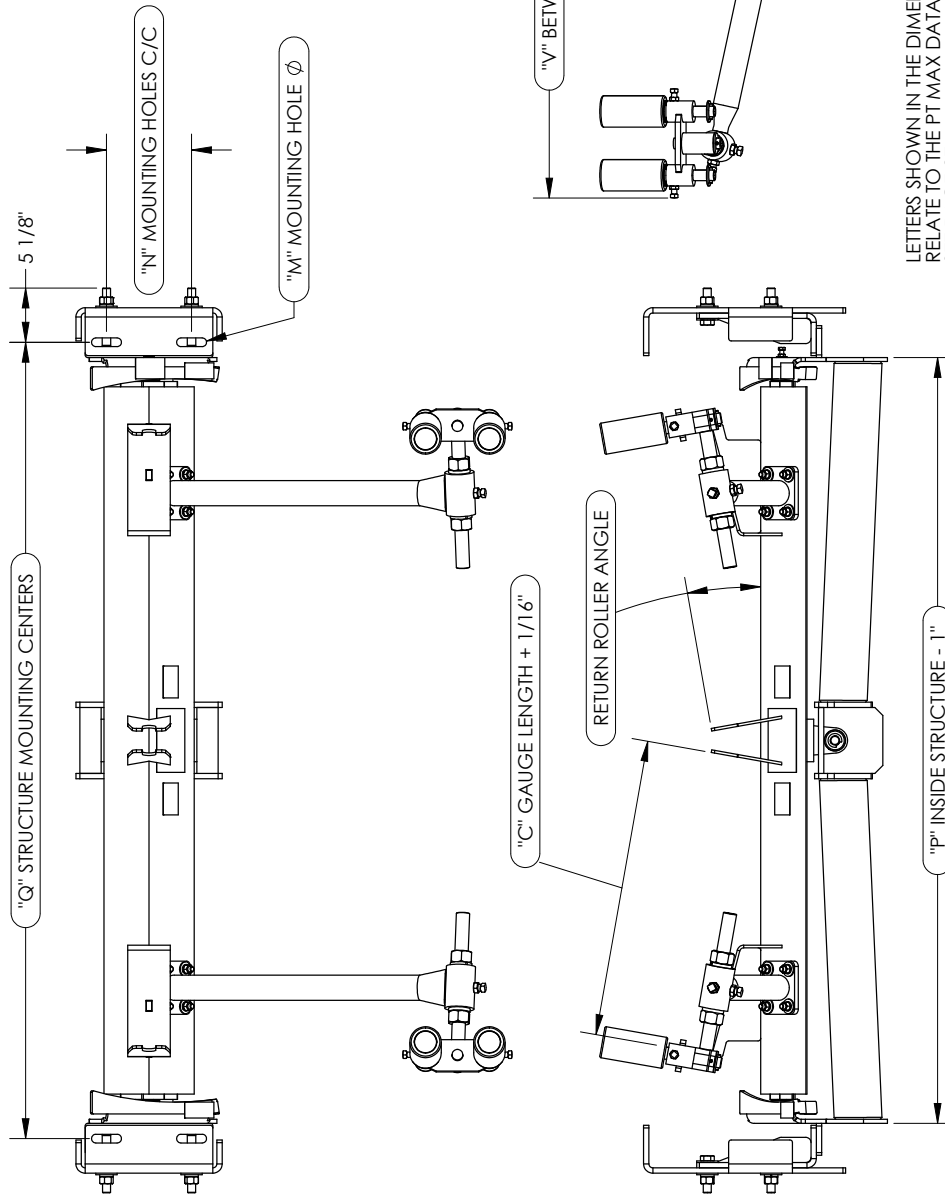


LETTERS SHOWN IN THE DIMENSIONS RELATE TO THE PT MAX DATA SHEETS. SEE PAGE 27.

# Section 8 - Specs and CAD Drawings

## 8.6 CAD Drawing - PT Max™ V-Return HD

SPECIFICATIONS		
BELT WIDTH 'A' (in)	ORDER NUMBER	ITEM CODE
54	PTMHD54VR	79665
60	PTMHD60VR	79666
72	PTMHD72VR	79667
84	PTMHD84VR	79668



LETTERS SHOWN IN THE DIMENSIONS RELATE TO THE PT MAX DATA SHEETS. SEE PAGE 27.



# Section 8 - Specs and CAD Drawings

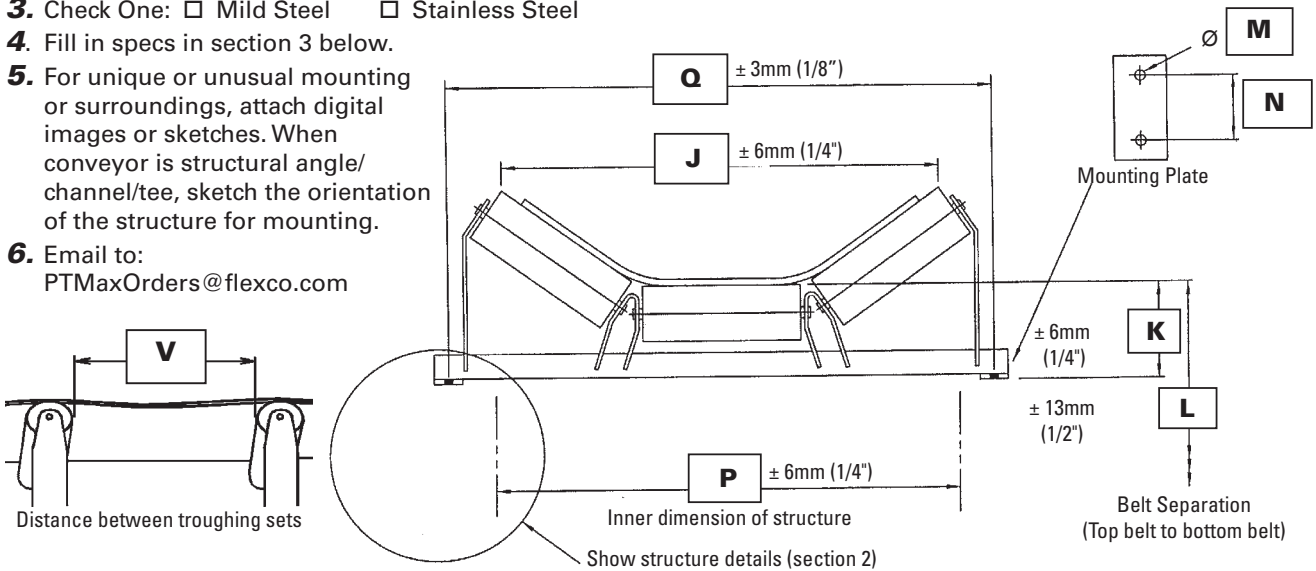
## 8.7 PT Max™ Top Side Data Sheet

**CUSTOMER INFO:**

Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_ Date: \_\_\_\_\_  
 \_\_\_\_\_ Phone #: \_\_\_\_\_  
 Contact Name: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Title/Position: \_\_\_\_\_ e-Mail: \_\_\_\_\_  
 Conveyor Name: \_\_\_\_\_ PO #: \_\_\_\_\_  
 Trainer Location: \_\_\_\_\_ Distributor: \_\_\_\_\_

**INSTRUCTIONS:**

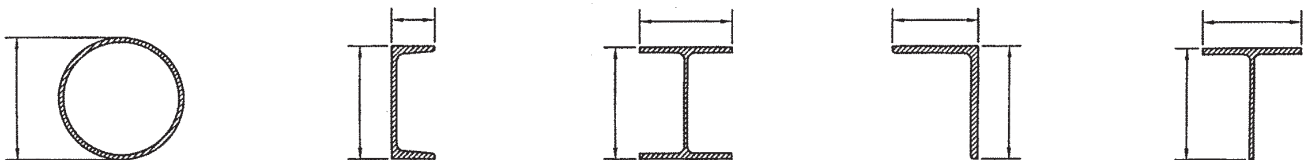
1. Check troughing set type and indicate troughing angle in section 1 below. If you're measuring a location under skirting the PT Max will not work. You need to move further down the conveyor away from the skirting and take measurements there.
2. Circle the conveyor structure type and add dimensions in section 2 below.
3. Check One:  Mild Steel  Stainless Steel
4. Fill in specs in section 3 below.
5. For unique or unusual mounting or surroundings, attach digital images or sketches. When conveyor is structural angle/channel/tee, sketch the orientation of the structure for mounting.
6. Email to: PTMaxOrders@flexco.com



**1. Troughing Set Type**

Inline Roller  Offset Roller \_\_\_\_\_ ° Troughing Angle  Under Skirting

**2. Examples of Structure Cross Sections**



Questions? Contact Ryan Holowaty at (616) 242-1724 or email rholowaty@flexco.com

**3. Conveyor Structure Dimensions**

<b>J</b>	<b>N</b>
<b>K</b>	<b>P</b>
<b>L</b>	<b>Q</b>
<b>M</b>	<b>V</b>

# Section 8 - Specs and CAD Drawings

## 8.8 PT Max™ Return Side Data Sheet

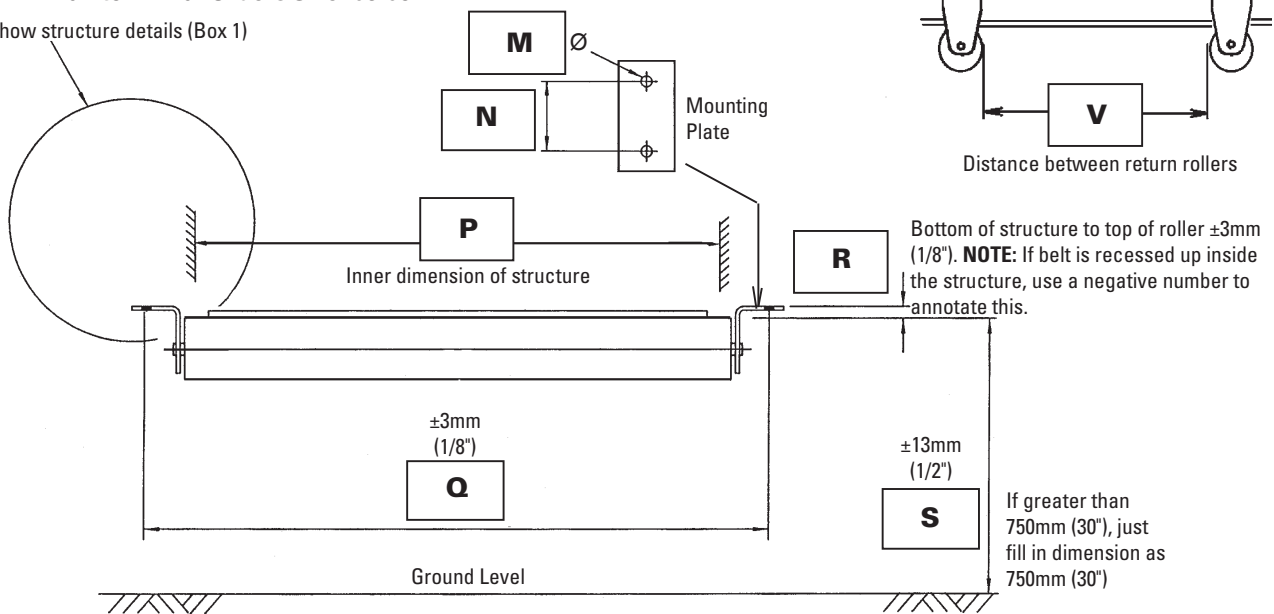
### CUSTOMER INFO:

Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_ Date: \_\_\_\_\_  
 \_\_\_\_\_ Phone #: \_\_\_\_\_  
 Contact Name: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Title/Position: \_\_\_\_\_ e-Mail: \_\_\_\_\_  
 Conveyor Name: \_\_\_\_\_ PO #: \_\_\_\_\_  
 Trainer Location: \_\_\_\_\_ Distributor: \_\_\_\_\_

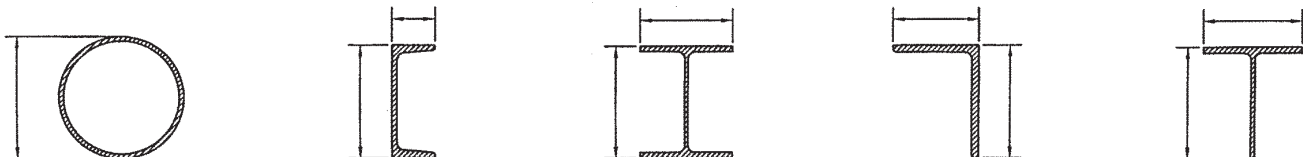
### INSTRUCTIONS:

1. Circle the conveyor structure type and add dimensions in section 1 below.
2. Fill in specs in section 2 below.
3. For unique or unusual mounting or surroundings, attach digital images or sketches. When conveyor is structural angle/channel/tee, sketch the orientation of the structure for mounting.
4. Check One:  Mild Steel     Stainless Steel
5. Email to [PTMaxOrders@flexco.com](mailto:PTMaxOrders@flexco.com)

Show structure details (Box 1)



### 1. Examples of Structure Cross Sections



Questions? Contact Ryan Holowaty at (616) 242-1724 or email [rholowaty@flexco.com](mailto:rholowaty@flexco.com)

### 2. Conveyor Structure Dimensions

M		R	
N		S	
P		V	
Q			

# Section 8 - Specs and CAD Drawings

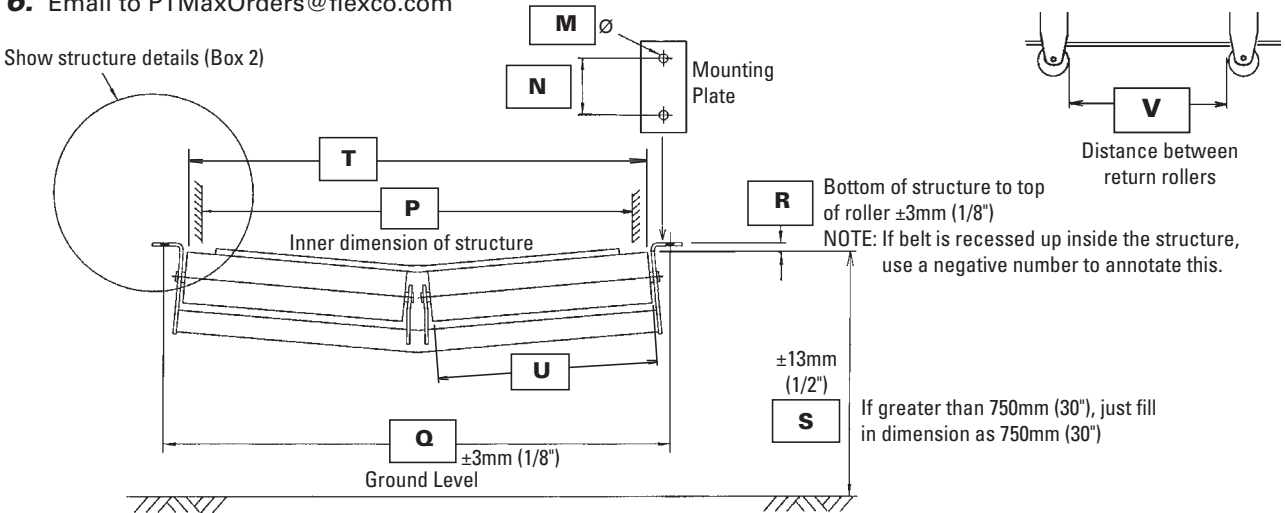
## 8.9 PT Max™ V-Return Side Data Sheet

**CUSTOMER INFO:**

Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_ Date: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Contact Name: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Title/Position: \_\_\_\_\_ e-Mail: \_\_\_\_\_  
 Conveyor Name: \_\_\_\_\_ PO #: \_\_\_\_\_  
 Trainer Location: \_\_\_\_\_ Distributor: \_\_\_\_\_

**INSTRUCTIONS:**

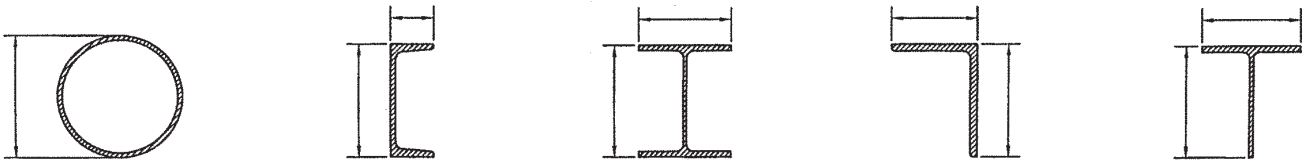
1. Check return idler type and indicate troughing angle in section 1 below.
2. Circle the conveyor structure type and add dimensions in section 2 below.
3. Check One:  Mild Steel  Stainless Steel
4. Fill in specs in section 3 below.
5. For unique or unusual mounting or surroundings, attach digital images or sketches. When conveyor is structural angle/channel/tee, sketch the orientation of the structure for mounting.
6. Email to PTMaxOrders@flexco.com



**1. Troughing Set Type**

V-Return \_\_\_\_\_ ° Troughing Angle

**2. Examples of Structure Cross Sections**



Questions? Contact Ryan Holowaty at (616) 242-1724 or email rholowaty@flexco.com

**3. Conveyor Structure Dimensions**

<b>M</b>		<b>S</b>	
<b>N</b>		<b>T</b>	
<b>P</b>		<b>U</b>	
<b>Q</b>		<b>V</b>	
<b>R</b>			

# Section 8 - Specs and CAD Drawings

## 8.10 PT Max™ Roller Data Sheet

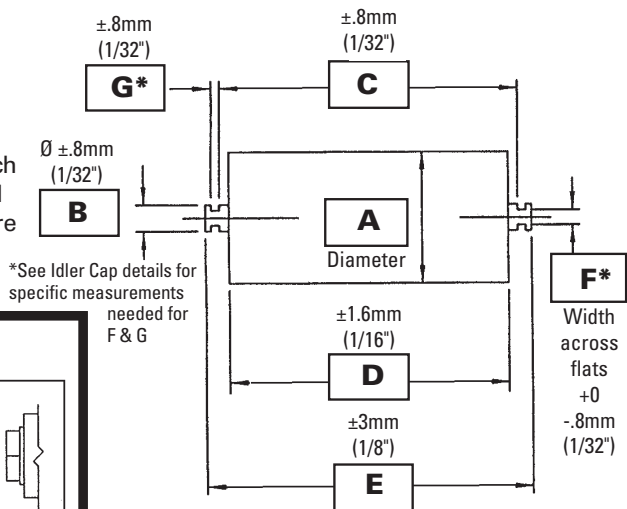
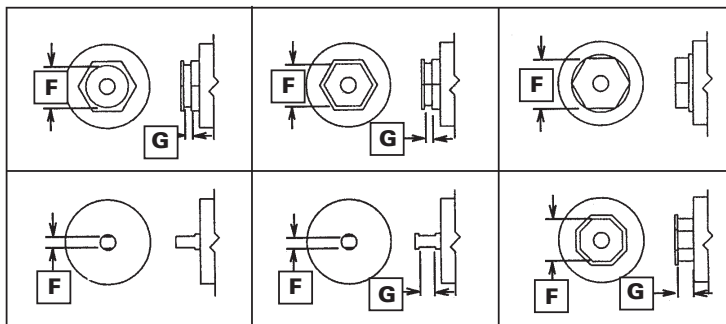
### CUSTOMER INFO:

Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_ Date: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Contact Name: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Title/Position: \_\_\_\_\_ e-Mail: \_\_\_\_\_  
 Conveyor Name: \_\_\_\_\_ PO #: \_\_\_\_\_  
 Trainer Location: \_\_\_\_\_ Distributor: \_\_\_\_\_

### INSTRUCTIONS:

1. Circle idler cap type in section 1.
2. Fill in conveyor information in section 2.
3. Fill in roller dimensions specs in section 3.
4. For unique or unusual mounting or surroundings, attach digital images or sketches. When conveyor is structural angle/channel/tee, sketch the orientation of the structure for mounting.
5. Email to [PTMaxOrders@flexco.com](mailto:PTMaxOrders@flexco.com)

### 1. Idler Cap Type



\*See Idler Cap details for specific measurements needed for F & G

Questions? Contact Ryan Holowaty at (616) 242-1724 or email [rholowaty@flexco.com](mailto:rholowaty@flexco.com)

### 2. Conveyor Information

Conveyor Name	
CEMA Rating (if known)	
Belt Thickness	
Belt Width	
Troughing Angle	
Return Roller Angle	
Material Carried	
Number of Rolls in Troughing Set	
Equal/Unequal Trough Rolls (if unequal, do this sheet for each size)	
Roller Brand	

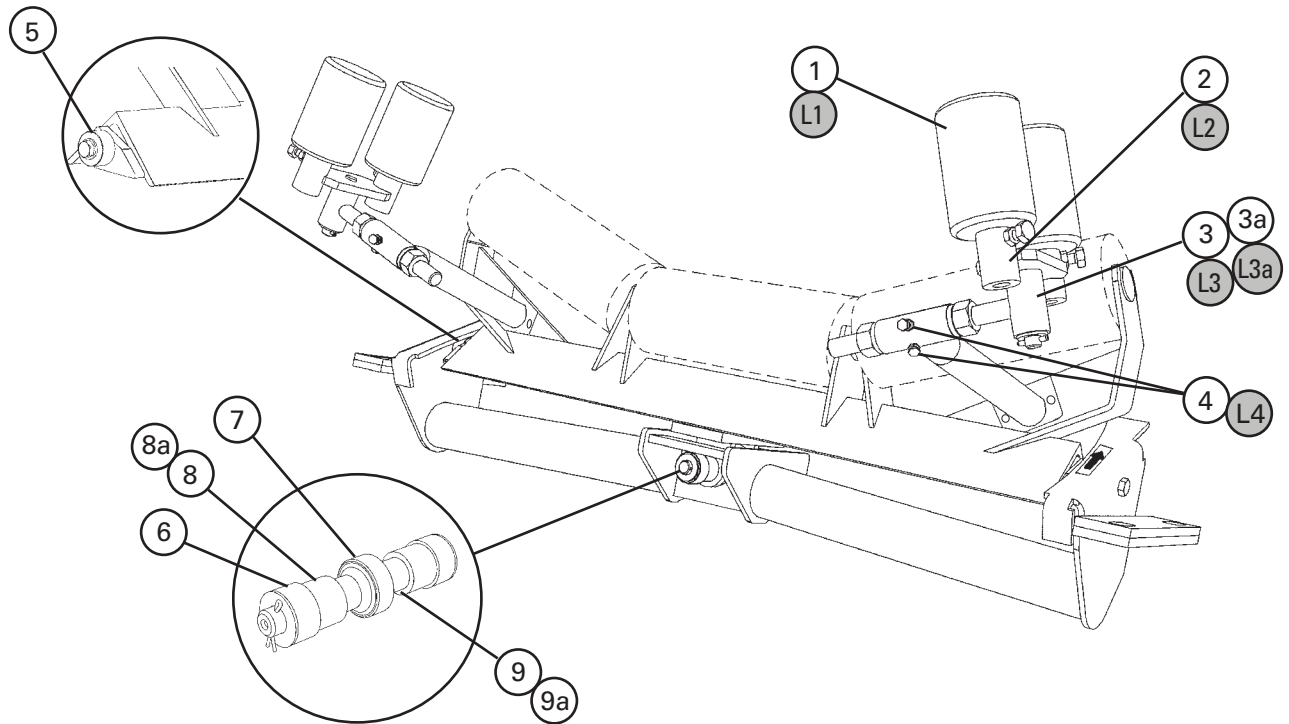
### 3. Roller Dimensions

Roller dimensions are easily measured from a spare roller not installed in the conveyor system.

A	
B	
C	
D	
E	
F	
G	

# Section 9 - Replacement Parts List

## 9.1 Replacement Parts List



### Replacement Parts

REF	DESCRIPTION	BELT WIDTH		ORDERING NUMBER	ITEM CODE	WT. KG.	
		mm	in.				
1	Sensor Roller 2.0* (75mm solid roller) (1 ea.)	750-2100	30-84	MSR2	79378	3.0	For PT Max Units Shipped after March 17, 2014 ONLY. See below for legacy replacement parts.
2	Swivel Mount Kit 2.0*	750-2100	30-84	PMSMK2	79380	2.5	
3	Adjusting Arm Kit 2.0*	750-1500	30-60	MAK2	79381	3.2	
3a	HD Adjusting Arm Kit 2.0*	1350-2100	54-84	MAKHD2	79382	6.7	
4	Frame Arm Set Screw Kit HD (incl. 2 set screws and 2 jam nuts)	750-3000	30-120	MFASKHD	79571	0.4	
5	Outer Roller Kit* (incl. 2 rollers, roller thimbles and bolts, nuts and washers)	750-2100	30-84	MORK	74921	1.2	
6	Center Roller Kit* (incl. 2 rollers, 2 washers, and 2 cotter pins)	750-2100	30-84	MCRK	74923	0.5	
7	Center Bearing*	750-2100	30-84	MCB	74925	0.8	
8	Center Shaft Spacer Kit (incl. 2 spacers)	750-1500	30-60	MCSK	74927	0.1	
8a	HD Center Shaft Spacer Kit (incl. 2 spacers)	1350-2100	54-84	MCSKHD	74928	0.2	
9	Center Shaft	750-1500	30-60	MCS	74930	4.0	
9a	HD Center Shaft	1350-2100	54-84	MCSHD	74931	1.8	
-	Center Bearing Kit (incl. 1 ea. items 5, 6, 7, 8)	750-1500	30-60	MCBK	76025	3.6	
-	HD Center Bearing Kit (incl. 1 ea. items 5, 6, 7a, 8a)	1350-2100	54-84	MCBKHD	76026	7.7	

\*Hardware included

Lead time: 1 working day

Note: All replacement parts offered are common to all three PT Max models: Top Side, Return Side, and V-Return.

### Legacy Replacement Parts - For PT Max Units Shipped Prior to March 17, 2014

REF	DESCRIPTION	BELT WIDTH		ORDERING NUMBER	ITEM CODE	WT. KG.
		mm	in.			
L1	Sensor Roller* (75mm solid roller) (1 ea.)	750-2100	30-84	MSR	74914	3.2
L2	Swivel Mount Kit*	750-2100	30-84	PMSMK	74916	2.5
L3	Adjusting Arm Kit*	750-1500	30-60	MAK	74918	3.6
L3a	HD Adjusting Arm Kit*	1350-2100	54-84	MAKHD	74919	6.7
L4	Frame Arm Set Screw Kit (incl. 2 set screws and 2 jam nuts)	750-3000	30-120	MFASK	75531	0.4



## Section 10 - Other Flexco™ Conveyor Products

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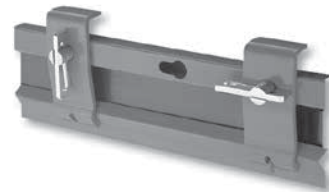
Flexco® provides many conveyor products that help your conveyors to run more efficiently and safely. These components solve typical conveyor problems and improve productivity. Here is a quick overview on just a few of them:

### EZ 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

### Flex-Lok™ Skirt Clamps



- Eliminates transfer zone spillage
- Interlocking design for easy installation and one-person maintenance
- Unique wedge pin holds rubber securely in place and is easy to adjust
- Available in various models and in stainless steel

### MMP Precleaner



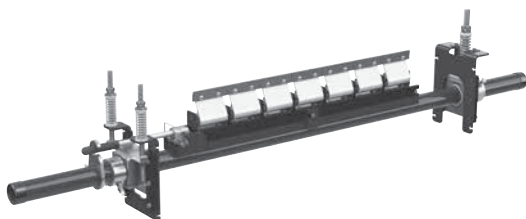
- Extra cleaning power for tough applications
- 10" TuffShear™ blade provides increased blade-to-belt tension
- A 3-piece telescoping pole is lighter to lift and easier to install
- Dual Quick-Mount Tensioners ensure optimal tension throughout the life of the blade

### PT Smart™ Belt Trainer



- Patented “pivot & tilt” design for superior training action
- Pivot point guaranteed not to freeze or seize up
- Available for return side belts

### MHS Secondary Cleaner with Service Advantage Cartridge



- An easy slide-out cartridge for service
- Cartridge design to speed up blade-change maintenance
- Patented PowerFlex™ Cushions for superior cleaning performance
- Compatible with Flexco® mechanical splices

### 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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Tel: +27-11-608-4180 • Fax: +27-11-454-5821 • E-mail: [flexco@flexco.co.za](mailto:flexco@flexco.co.za)

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