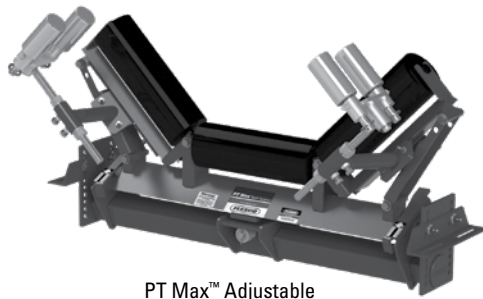


# PT Max™ Adjustable Belt Trainer

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## Installation, Operation and Maintenance Manual

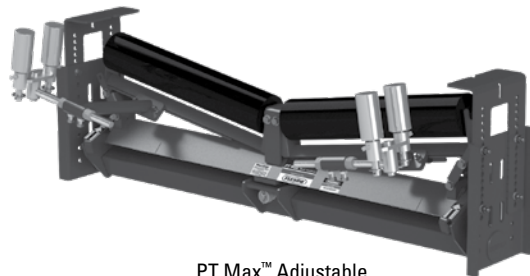
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PT Max™ Adjustable  
Top Side



PT Max™ Adjustable  
Return Side



PT Max™ Adjustable  
V-Return

# PT Max™ Adjustable Belt Trainer

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Serial Number: _____
Purchase Date: _____
Purchased From: _____
Installation Date: _____

Serial number information can be found on the Serial Number Label located on the top frame of the unit.

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

---

## 1.1 General Introduction

We at Flexco are very pleased that you have selected a PT Max™ Adjustable 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: USA: 1-800-541-8028**

**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 belt trainer. 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.**

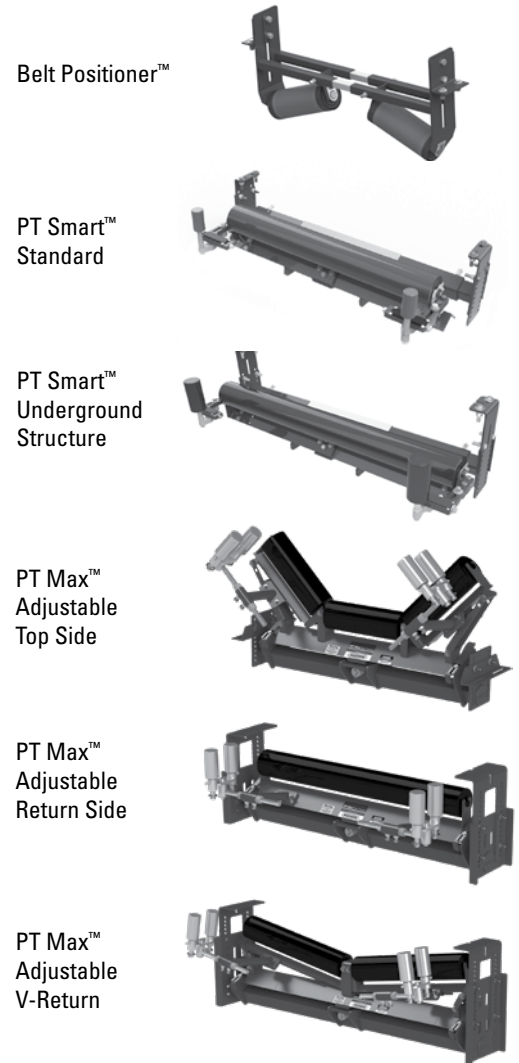
## 1.2 User Benefits

Belt mistracking is a common problem that produces various problems, ranging from belt and structure damage to product spillage and safety issues. By utilizing the PT Max Adjustable, 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, 800 PIW max tension on Small, Medium and Large; 1200 PIW max tension on Extra Large. Also works on reversing belts.
PT Smart™	Medium-duty belts up to 1600 PIW max tension. Belt width + 3" idler. Belt thickness 1" maximum.
PT Smart™ Underground	Medium-duty belts up to 1600 PIW max tension. Belt width + 9" idler. Belt thickness 1" maximum. Fits underground structure.
PT Max™ Adjustable Top Side	Heavy-duty belts up to 3000 PIW max (generally over 3/4" (19mm) thick) Belt width 36" - 60" (900 - 1500mm)
HD PT Max™ Adjustable Top Side	Heavy-duty belts up to 6000 PIW max tension. Belt width 54" - 84" (1350 - 2100mm)
PT Max™ Adjustable Return Side and V-Return	Heavy-duty belts up to 3000 PIW max. (generally up to 1" (25mm) thick) Belt width 36" - 60" (900 - 1500mm)
HD PT Max™ Adjustable Return Side and V-Return	Heavy-duty belts up to 6000 PIW max tension. Belt width 54" - 84" (1350 - 2100mm)



CONVEYOR CRITERIA	BELT POSITIONER™	PT SMART™	PT SMART™ UNDERGROUND	PT MAX™ ADJUSTABLE TOP SIDE	HD PT MAX™ ADJUSTABLE TOP SIDE	PT MAX™ ADJUSTABLE RETURN SIDE and V-RETURN	HD PT MAX™ ADJUSTABLE 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*	50' (15 M)	20' (6 M)	20' (6 M)	20' (6 M)	20' (6 M)	20' (6 M)	20' (6 M)
Approx. "downstream" effect*	50' (15 M)	120' - 150' (36 - 45 M)	120' - 150' (36 - 45 M)	150' - 200' (45 - 61 M)	150' - 200' (45 - 61 M)	150' - 200' (45 - 61 M)	150' - 200' (45 - 61 M)

\*Typical results; actual results may vary

\*Disk idlers have the potential to reduce these numbers

## Section 2 - Safety Considerations and Precautions

---

Before installing and operating the PT Max™ Adjustable 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.

---

### 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 OSHA/MSHA Lockout/Tagout (LOTO) regulations, 9 CFR 1910.147, be followed before undertaking the preceding activities. Failure to use LOTO exposes workers to uncontrolled behavior of the belt trainer caused by movement of the conveyor belt or belt trainer. Severe injury or death can result.

#### **Before working:**

- Lockout/Tagout the conveyor power source
- Clear the conveyor area where work is to take 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.

### 2.2 Operating Conveyors

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

- Inspection of belt trainer performance
- Dynamic troubleshooting

#### **DANGER**

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

#### **WARNING**

Conveyors contain moving hazards. Stay as far from the trainer as practical and use safety eyewear and headgear.

#### **WARNING**

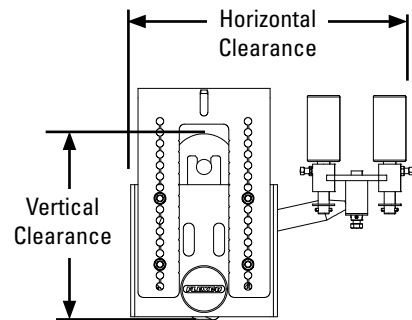
Never adjust anything on an operating belt trainer. Flailing hardware can cause serious injury or death.

# Section 3 - Pre-installation Checks and Options

## 3.1 Checklist

- Check the model and size of the belt trainer. Is it the right one for your beltline?
  1. If using a return-side trainer, verify the trainer is the correct choice for the belt. Flat return trainers are only effective on flat return belts. For V-returns, contact Flexco.
- Check the PT Max™ Adjustable to be sure all the parts are included in the shipment.
  1. Trainer
  2. Rollers
  3. Mounting hardware
  4. Instruction kit
- Review the “Tools Needed” section on the front of the installation instructions.
- Prepare the conveyor site:
  1. Identify the point(s) of mistracking, expecting 150’–200’ (45–61 m) of downstream influence.
  2. Position the unit 20’ (6.1 m) after the start of the mistracking.
  3. Identify an opening per clearance dimensions pictured below.
  4. Remove any existing tracking devices that fall in the estimated tracking range.
  5. 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.

Horizontal Clearance	Standard Duty		Heavy Duty	
	36" - 48"	54" - 60"	54" - 60"	72" - 84"
Return/Top/V-Return	33"	37"	38"	52"
Vertical Clearance	Standard Duty		Heavy Duty	
	Return/Top		20"	
	V-Return		20-1/2"	

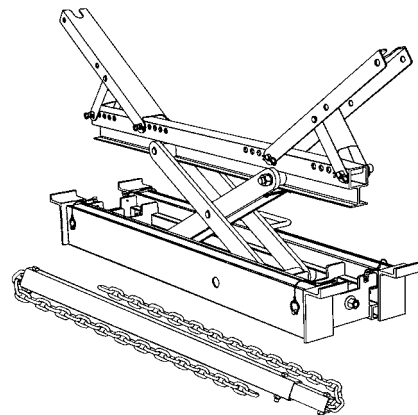


## 3.2 Optional Installation Accessories

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

### Flex-Lifter™ Conveyor Belt Lifter

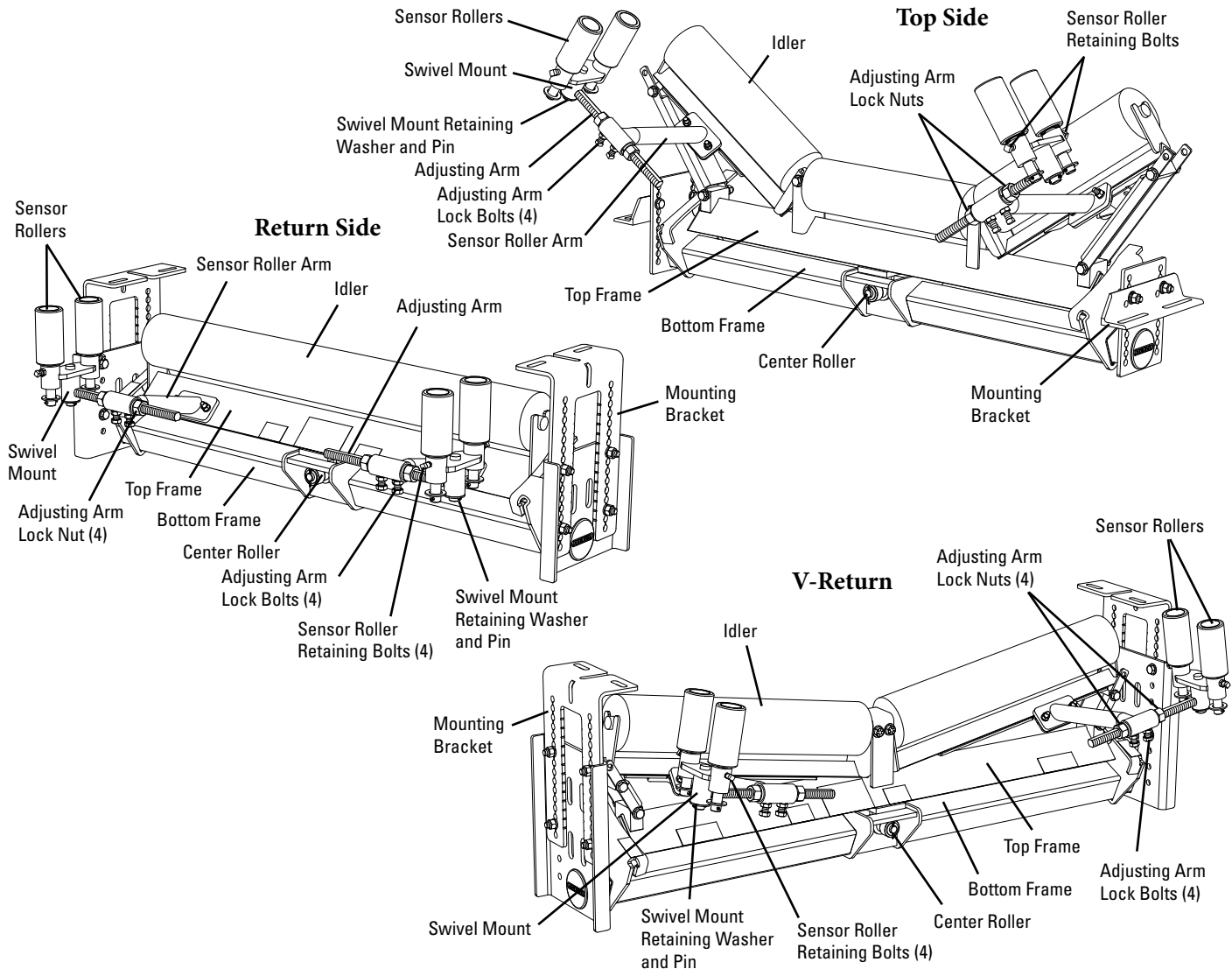
Description	Ordering Number	Item Code
Medium Flex-Lifter 36" - 60" (900 - 1500 mm)	FL-M	76469
Large Flex-Lifter 48" - 72" (1200 - 1800 mm)	FL-L	76470
XL Flex-Lifter 72" - 96" (1800-2400 mm)	FL-XL	76983



### 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™ Adjustable. The Flex-Lifter has the highest safe lift rating available at 4000 lbs. (1810 kg) for Medium and Large, and 6000 lbs. (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 36"–60" (900 - 1500mm), Large for belt widths 48"–72" (1200 - 1800mm), and XL for belt widths 72"–96" (1800 - 2400mm).

# Section 4 - Installation Instructions - PT Max™ Adjustable



***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, Return Side, or V-Return models.
- A serial number label is located on the top frame of the unit. Please use this number in any correspondence.
- The PT Max™ Adjustable 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.
- 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
- 15/16" Wrench
- 1-1/8" Wrench
- Medium or Large Adjustable Wrench
- (2) Pipe Wrenches
- Cutting Torch
- (2) Come-Alongs (3/4 Ton Minimum)
- Any necessary equipment for moving and lifting heavy components



# Section 4 - Installation Instructions

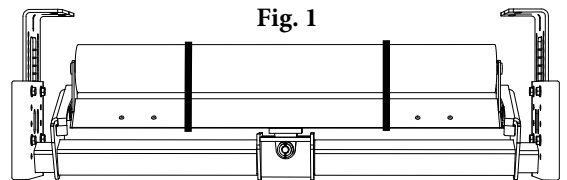
## Conveyor Site Preparation

1. Identify the point(s) of mistracking, expecting 150–200' (45–60M) of downstream influence.
2. Position the unit 20' (6M) after the start of the mistracking.
3. Identify an opening of at least 20" (506mm) for Standard model, or 21-1/2" (546mm) for HD model.
4. Remove any existing tracking devices that fall in the estimated tracking range of the PT Max™ Adjustable. Multiple different tracking devices may reduce or prevent the PT Max Adjustable from tracking as intended. This also includes disc idlers.

## PT Max™ Adjustable Preparation and Installation on the Conveyor

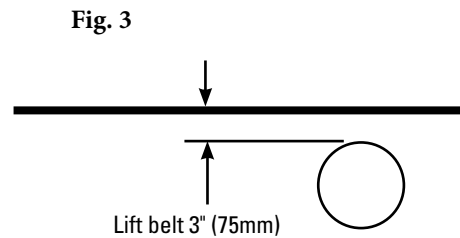
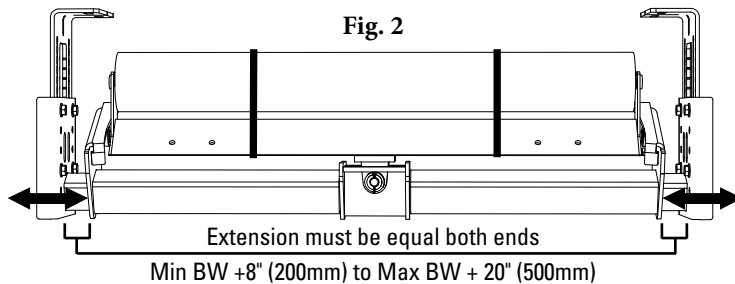
1. **Remove the sensor roller assemblies from the box.** Pull the components out of the box and set aside for installation after the unit is installed on the conveyor.

2. **Ensure idlers are secured in the unit.** Do not remove plastic ties from idlers yet. Failure to ensure the idlers are secure may result in serious injury if an idler falls out (Fig. 1).



3. **Adjust/telescope extending brackets to match width of structure.**

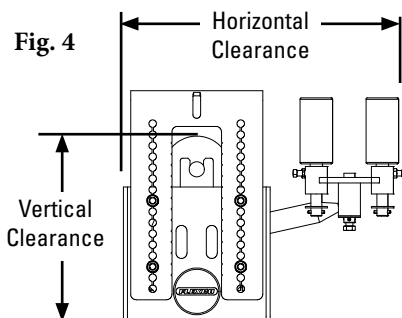
The PT Max will arrive with a measurement from CEMA standards (belt width +9"/225mm). After measuring the structure, slide extending bracket horizontally until mounting brackets are in line with your structure width. A square head set screw on the inside of the base frame is provided to tighten extending bracket. Ensure mainframe is centered within 1/8" (3mm) on the extending brackets (equal length of extenders showing on both sides (Fig. 2). Please note the minimum/maximum extension below.



4. **Lift the belt where the trainer will be installed.** At the site where the trainer will be installed, lift the belt 3" (75mm) off the rollers that will be replaced (Fig. 3). **CAUTION:** Some lifting equipment or tools may be required depending upon the weight of the belt.

5. **Remove existing idler.** Unbolt the return roller and mounting brackets and remove it from the conveyor. **NOTE:** If the conveyor has disc idlers, replace one idler before and one idler after the location where the trainer will be installed. Disc idlers can negatively impact the performance of the PT Max Adjustable's pivot/tilt function.

6. **Verify clearance for the lower sections of the PT Max Adjustable where it is to be located on the conveyor (Fig. 4).** With site engineer's approval, remove any obstructions such as structure supports or separation pans.



Horizontal Clearance	Standard Duty		Heavy Duty	
	36" - 48"	54" - 60"	54" - 60"	72" - 84"
Return/Top/V-Return	33"	37"	38"	52"
Vertical Clearance	Standard Duty		Heavy Duty	
	Return/Top		20"	
	V-Return		20-1/2"	

## Section 4 - Installation Instructions

- 7. 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. The design of the mounting brackets offers a variety of installation options.
- 8. Secure the PT Max Adjustable unit to the conveyor structure.** Square and center the unit with the structure. Secure the unit to the structure with mounting bolts, lock washers and nuts, and tighten. Remove plastic ties from all idlers.
- 9. Determine the roll height or drop of leading and trailing idler.** Using the adjustable mounting brackets, alter the height of the unit to provide 1/2" to 1" (13 to 25mm) lift on the belt (Fig. 5). Lifting the belt higher can restrict pivot/tilt movement.

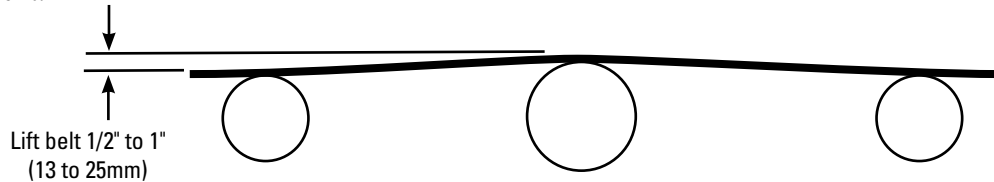
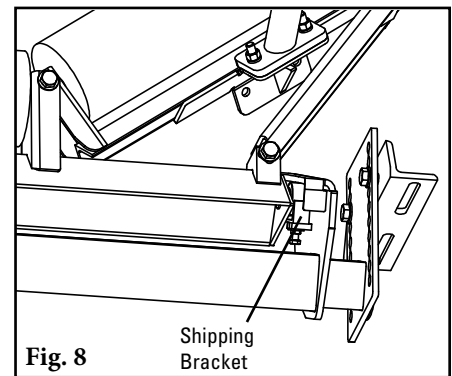
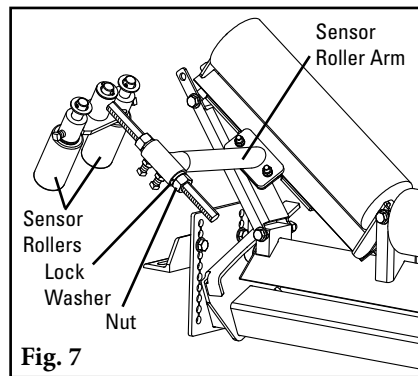
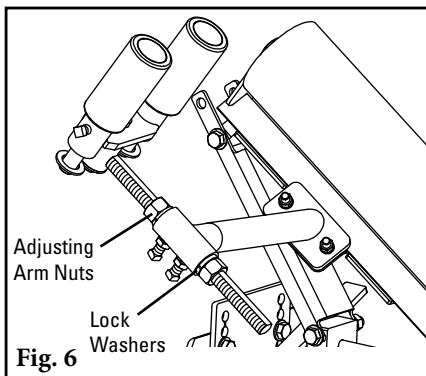


Fig. 5

- 10. Lower the belt onto the trainer.**

- 11. Insert sensor rollers into the unit.** Insert the sensor roller assemblies into the sensor roller arms in the working (outward) position (Fig. 6). Assemble the lock washers and nuts finger tight, allowing the sensor rollers to hang down (Fig. 7).

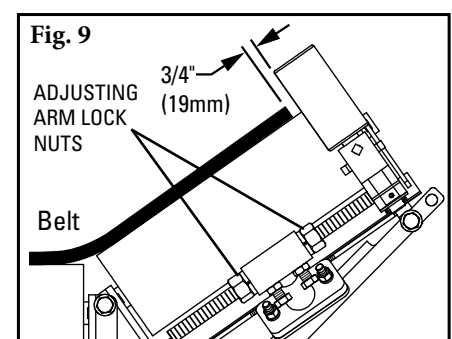
- 12. Remove shipping lock bracket from base frame (Fig. 8).** Failure to do so will prevent the trainer from functioning as intended.



- 13. Check for clearance as the unit moves.** Pivot the unit in both directions to ensure there are no obstructions to its movement. **Note:** Unit may be difficult to move manually due to the weight of the belt.

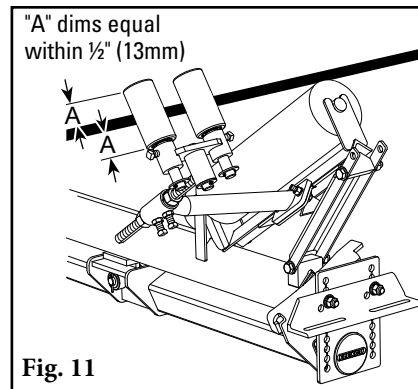
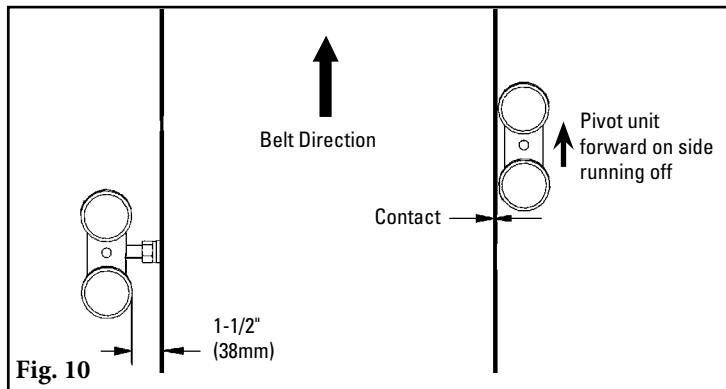
- 14. Adjust unit to the belt.** **Note:** Final adjustments of the trainer to the beltline depend on where the belt is currently running on the structure. If the belt is running centered on the structure see Option 1; if it is not centered on the structure use the adjustment steps in Option 2.

**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 3/4" (19mm) from the belt edges by using the adjusting arm nuts (Fig. 9).



## Section 4 - Installation Instructions

**Option 2 (Belt not centered on structure): Pivot the unit forward on the side the belt is running off.** 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 1-1/2" (38mm) clearance gap (Fig. 10).

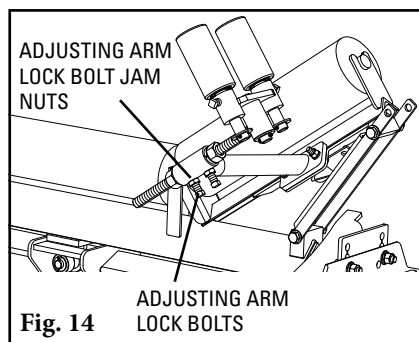
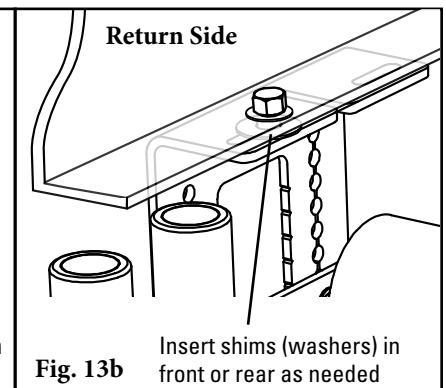
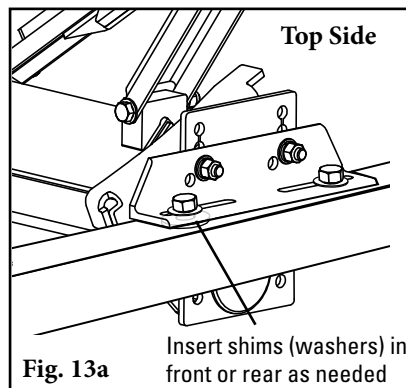
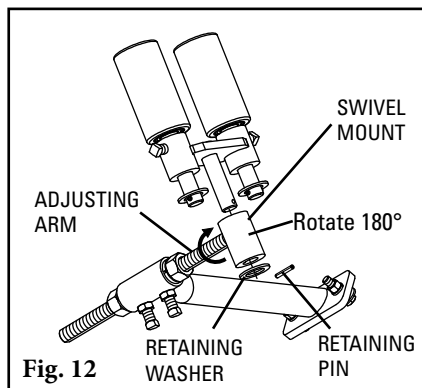


**16. Check the belt's running location on the face of the sensor rollers.** For maximum results, the belt's line of travel must be centered on the face of the sensor rollers within 1/2" (13mm) (Fig. 11).

**If the belt is not centered:**

**Option A.** Lower the sensor rollers to center on the belt, or for more clearance if needed (this will lower the sensor rollers 1" (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. 12).

**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 bracket on both sides of the unit (Fig. 13).



**17. Lock the adjusting arms in place (Fig. 14).** Once the training path has been set and confirmed, loosen the adjusting arm lock bolt jam nuts and tighten the adjusting arm lock bolts. Re-tighten the adjusting arm lock bolt jam nuts. Repeat on opposite side.

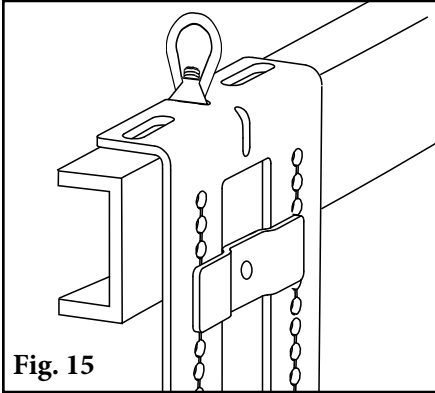
**18. Run the conveyor to verify the training results.** If adjustment is needed, adjust one set of sensor rollers in and the opposite side out an equal amount. **NOTE:** If the conveyor has disc idlers, the belt may not get the full downstream tracking effect.

## Section 4 - Installation Instructions

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### Underground Mounting Instructions

19. To attach mounting brackets to 4" or 5" channel structure, use included J-bolt plates as shown (customer supplied J-bolt). (Fig. 15).



# Section 5 - Pre-Operation Checklist and Testing

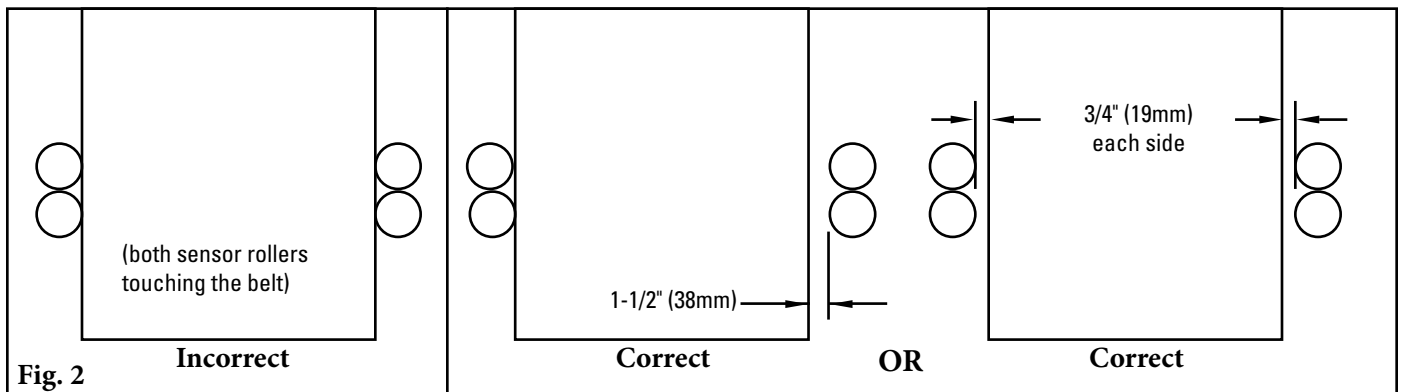
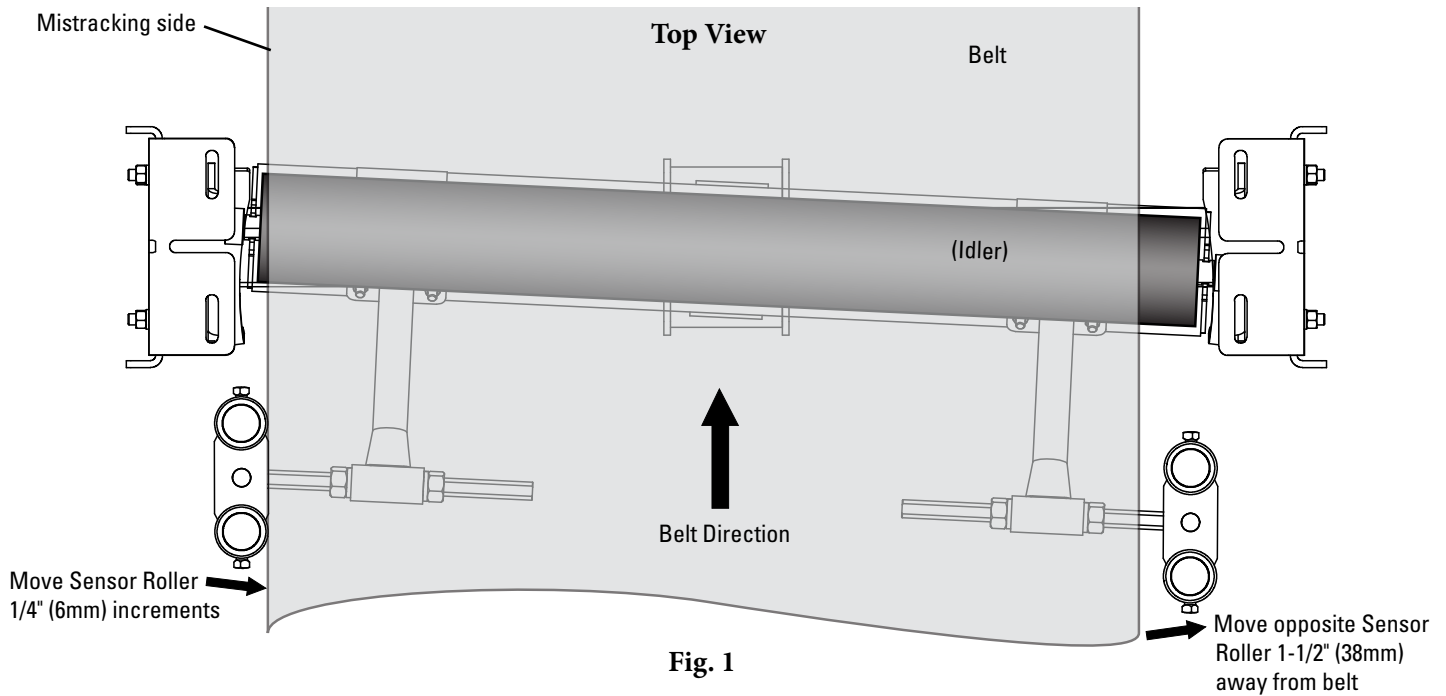
## 5.1 Pre-Op Checklist

- 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 center. Make adjustments of 1/4" (6mm) at a time (**Fig. 1**). Do not pinch the belt between the sensor rollers - sensor rollers overall should be 1-1/2" (38mm) wider than the belt (**Fig. 2**).

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



## Section 6 - Maintenance

---

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™ Adjustable 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 Adjustable 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 Adjustable 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.

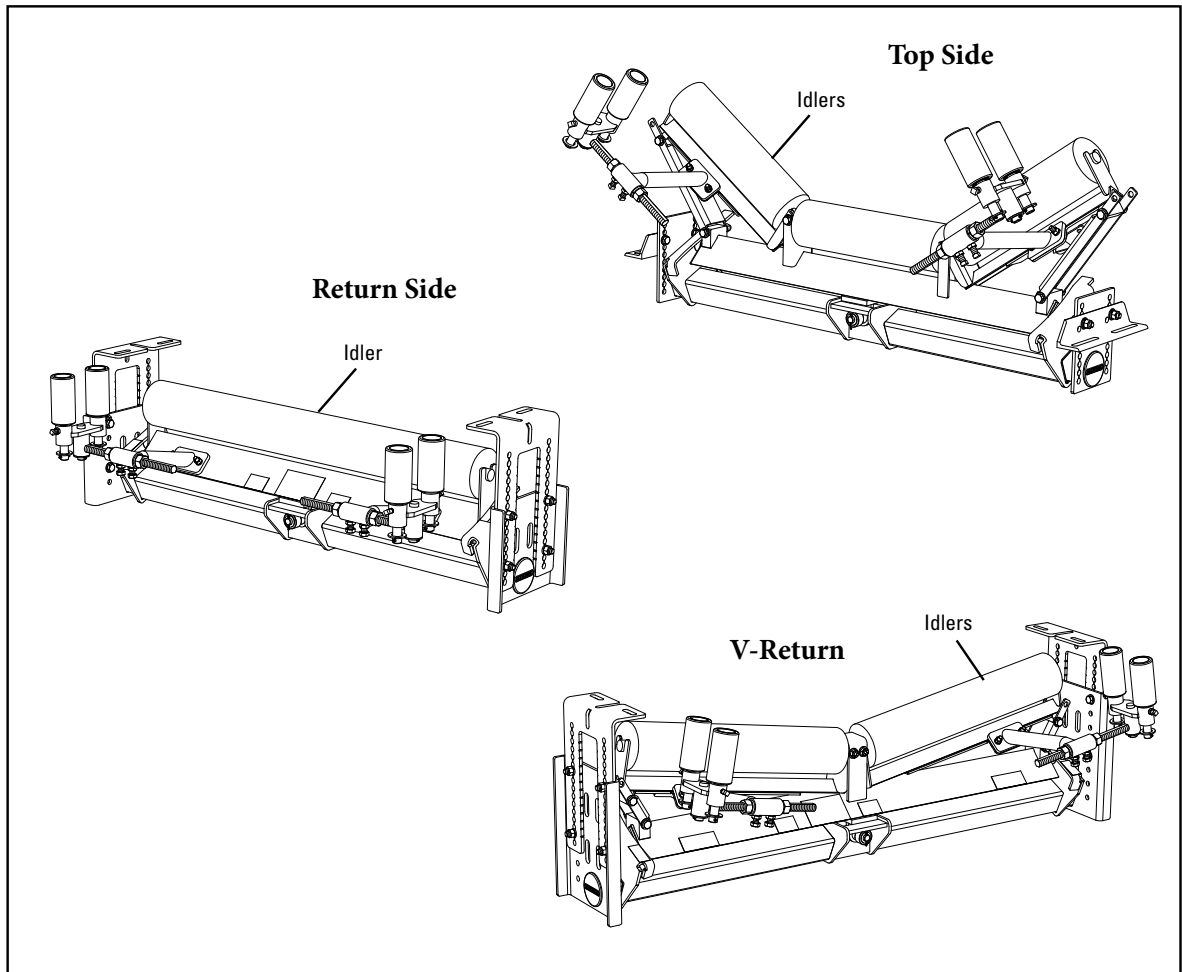
### 6.3 Routine Physical Inspection (every 6-8 weeks)

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 rollers 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 Idler Replacement Instructions



**Physically lock out and tag out 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. 3" (75mm) off the trainer.
2. **Remove idler(s).**
3. **Install new idler(s).** 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."

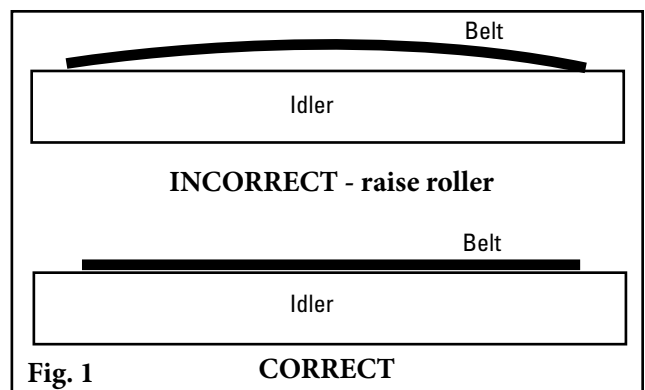
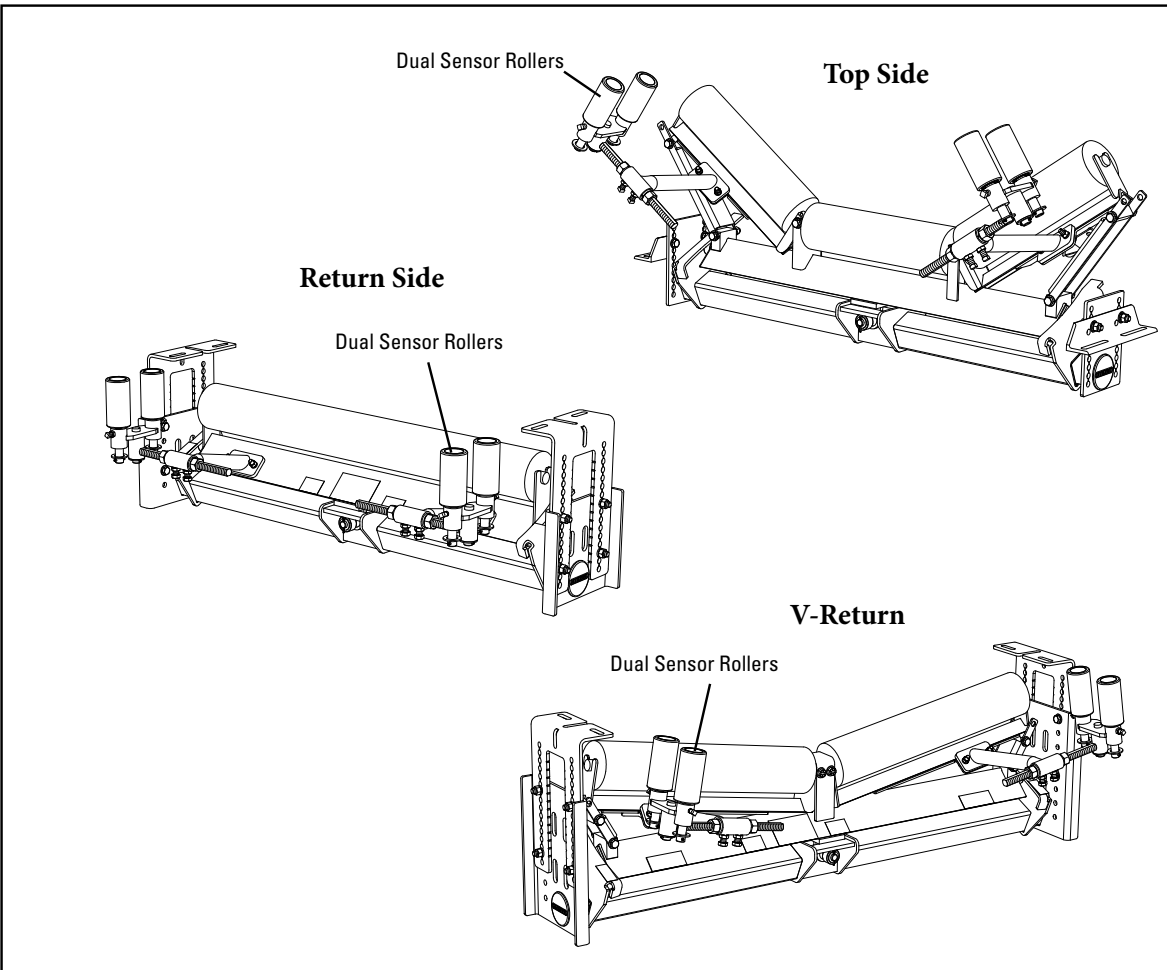


Fig. 1

CORRECT

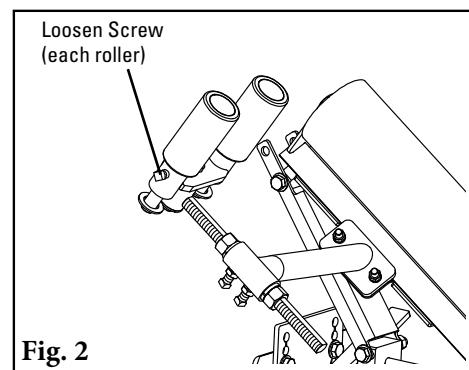
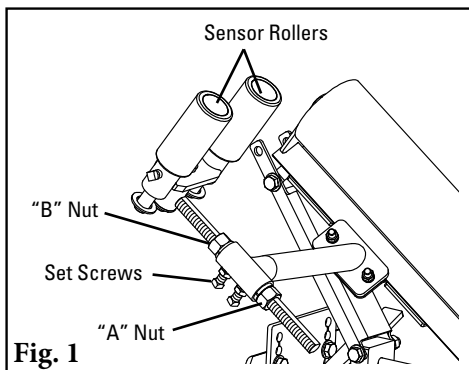
## Section 6 - Maintenance

### 6.5 Sensor Roller Replacement Instructions



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

1. Loosen set screws, turn “A” nut to the end of the rod then turn “B” nut to move sensor rollers away from the belt (Fig. 1).
2. Loosen screws at base of sensor rollers and remove from adjuster arm (Fig. 2).
3. Install new sensor rollers, retighten 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: \_\_\_\_\_

---

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

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## 6.7 Belt Trainer Maintenance Checklist

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

### Beltline Information:

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

Belt Width:  36"  42"  48"  54"  60"  72"  84"  
900mm 1050mm 1200mm 1350mm 1500mm 1800mm 2100mm

Belt Speed \_\_\_\_\_ Belt Thickness \_\_\_\_\_

### Idler Life:

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

Idlers condition: \_\_\_\_\_

### Sensor Rollers Life (Right Side):

Date rollers installed: \_\_\_\_\_ Date rollers inspected: \_\_\_\_\_ Estimated roller life: \_\_\_\_\_

Roller condition: \_\_\_\_\_

### Sensor Rollers Life (Left Side):

Date rollers installed: \_\_\_\_\_ Date rollers inspected: \_\_\_\_\_ Estimated roller life: \_\_\_\_\_

Roller condition: \_\_\_\_\_

### PT Max Adjustable Frame Condition:

Good  Bent  Rusted

### Overall PT Max Adjustable Performance: (Rate the following 1 - 5; 1=very poor, 5=very good)

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

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

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

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

Other Comments: \_\_\_\_\_

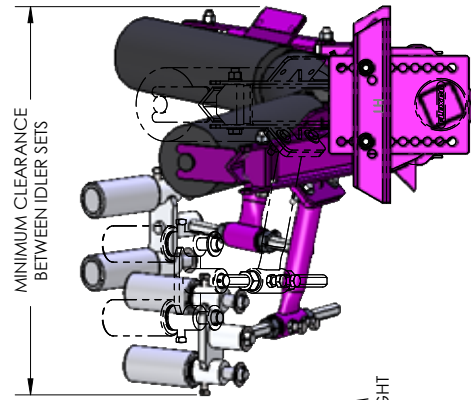
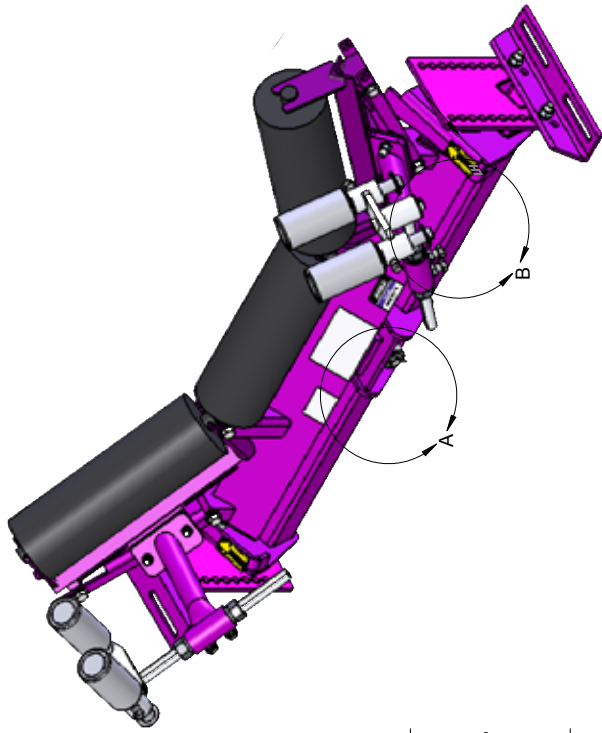
## Section 7 - Troubleshooting

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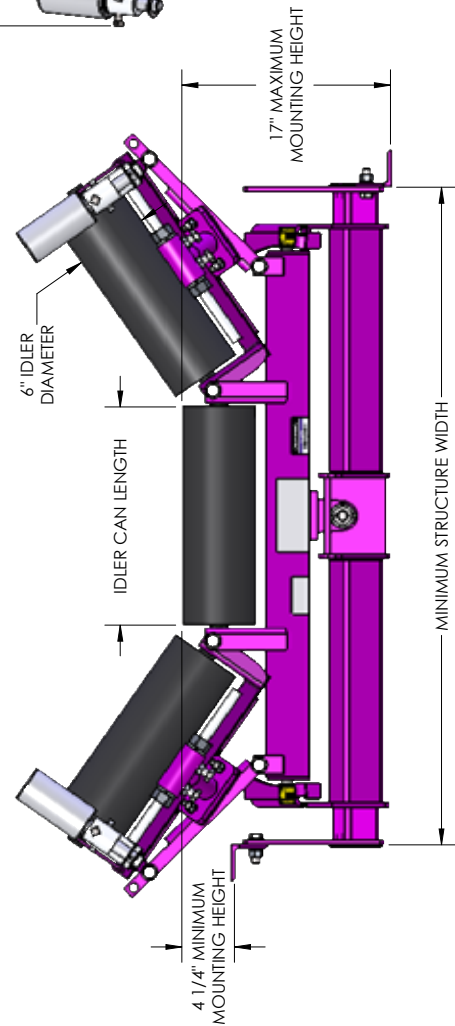
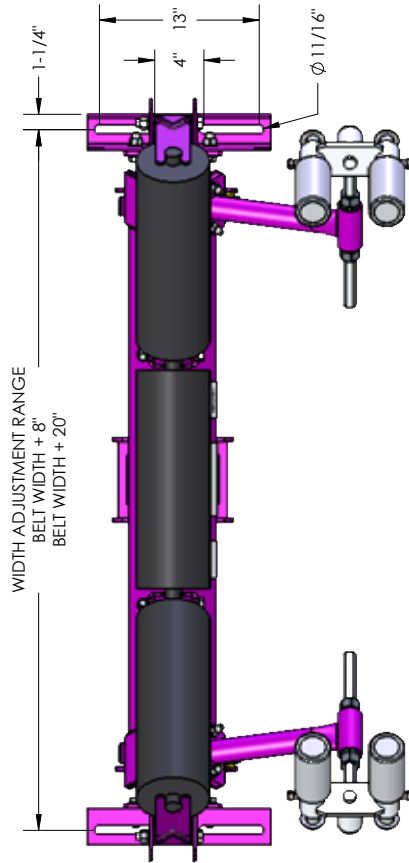
<b>Problem</b>	<b>Possible Cause</b>	<b>Possible Solutions</b>
Little to no effect on trouble area of belt	Unit installed in wrong location	Relocate unit 20' (6M) after start of problem area of belt
	Incorrect tension on unit	Increase height of unit to provide 1/2" - 1" (13-25mm) lift on belt
	Unit mis-adjusted	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 1/2" - 1" (13-25mm) lift on belt
Belt contacting both side sensors	Unit mis-adjusted	Adjust sensors to provide the 3/4" (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 idler roller

# Section 8 - Specs and CAD Drawings

## 8.1 CAD Drawing - PT Max™ Adjustable Top Side



SPECIFICATIONS			IDLER (1)	
BELT WIDTH (in)	ORDER NUMBER	ITEM CODE	ORDER NUMBER	ITEM CODE
36	PTMA36T	90362	SE6-T36	90227
42	PTMA42T	90363	SE6-T42	90228
48	PTMA48T	90364	SE6-T48	90229
54	PTMA54T	90365	SE6-T54	90230
60	PTMA60T	90366	SE6-T60	90231

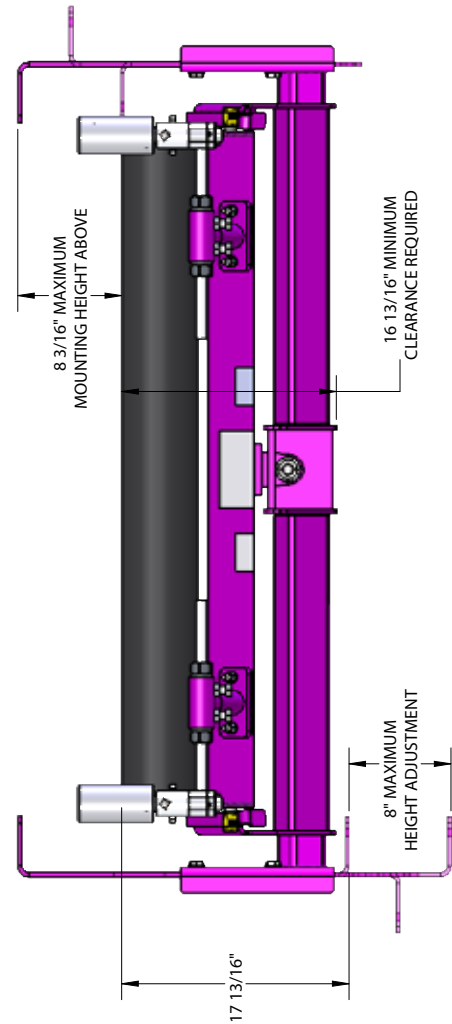
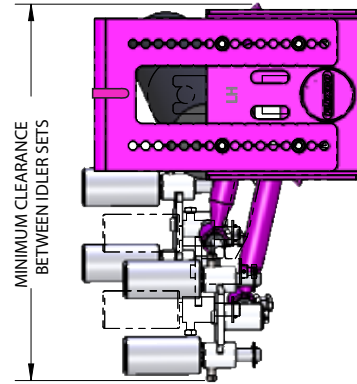
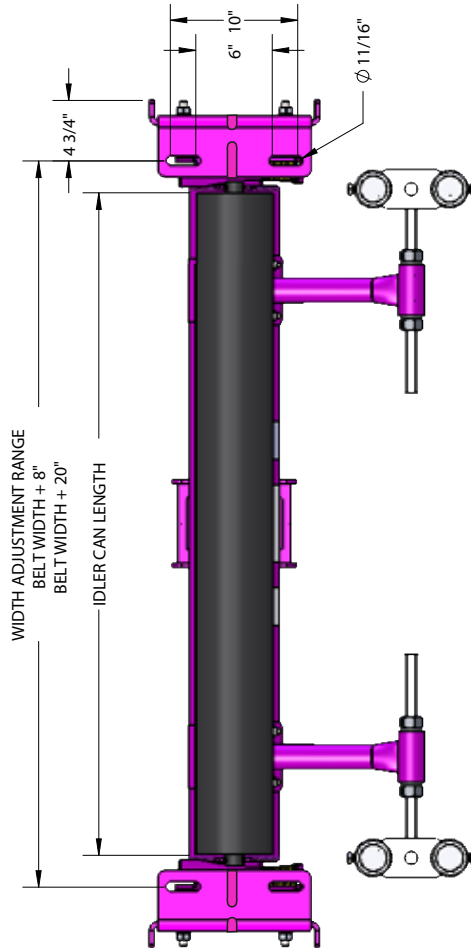
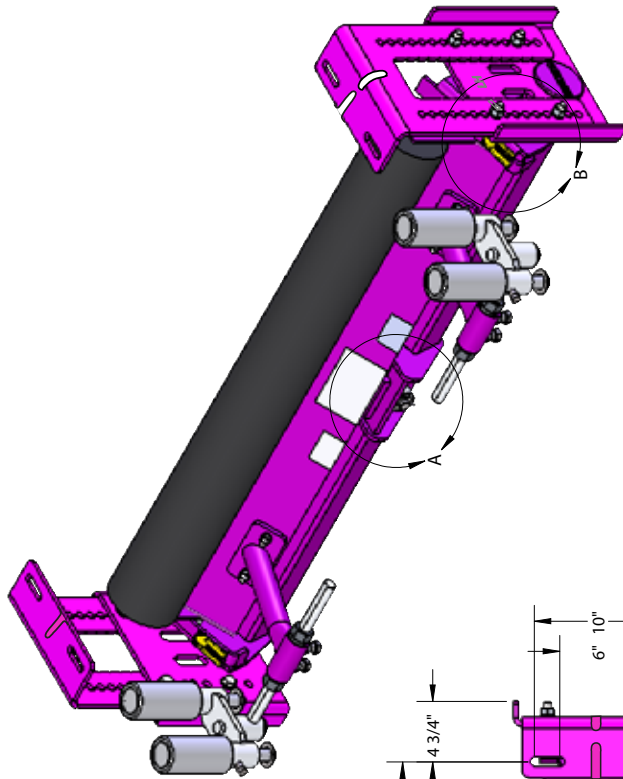




# Section 8 - Specs and CAD Drawings

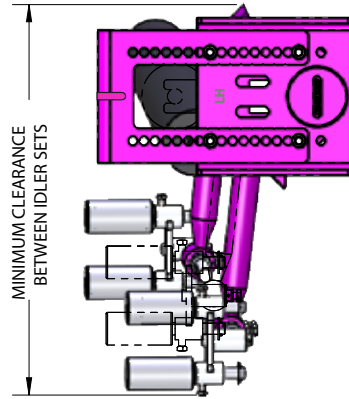
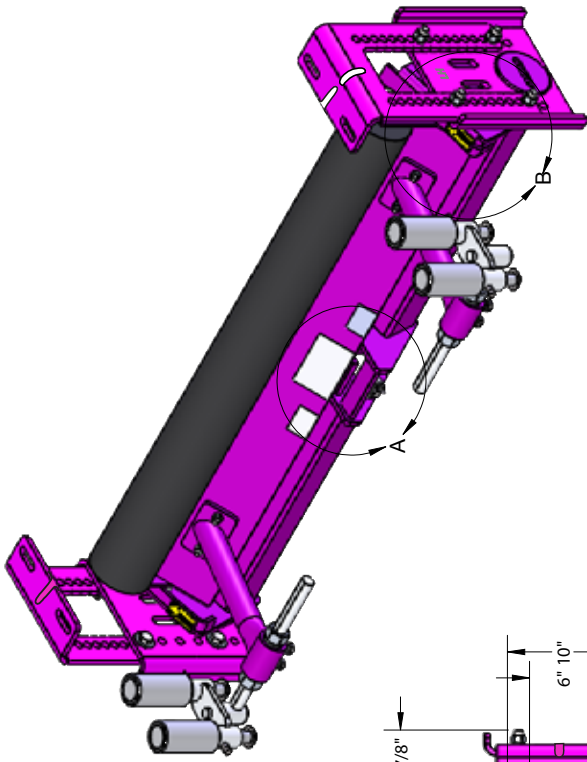
## 8.3 CAD Drawing - PT™ Adjustable Max Return

SPECIFICATIONS				IDLER (1)	
BELT WIDTH (in)	ORDER NUMBER	ITEM CODE	IDLER CAN LENGTH (in)	ORDER NUMBER	ITEM CODE
36	PTMA36R	90367	40	SE6-R36	90220
42	PTMA42R	90368	46	SE6-R42	90221
48	PTMA48R	90369	52	SE6-R48	90222
54	PTMA54R	90370	58	SE6-R54	90223
60	PTMA60R	90371	64	SE6-R60	90224

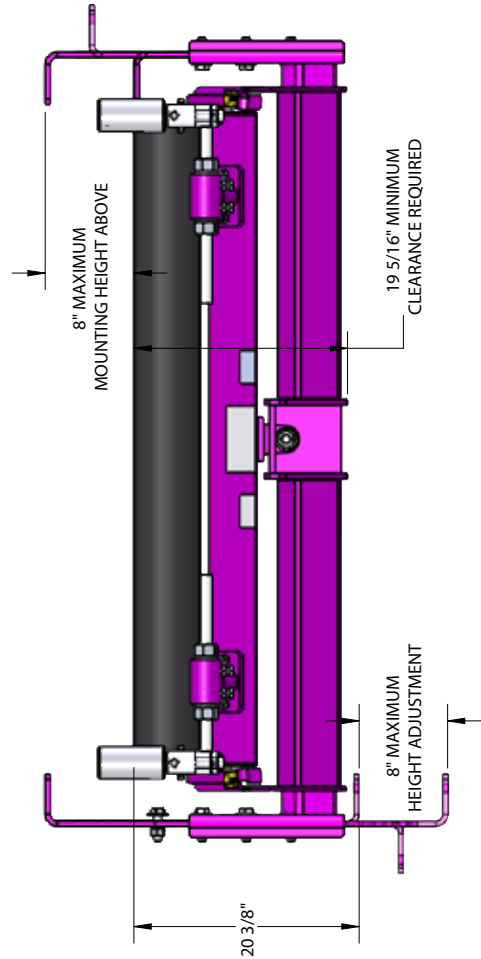
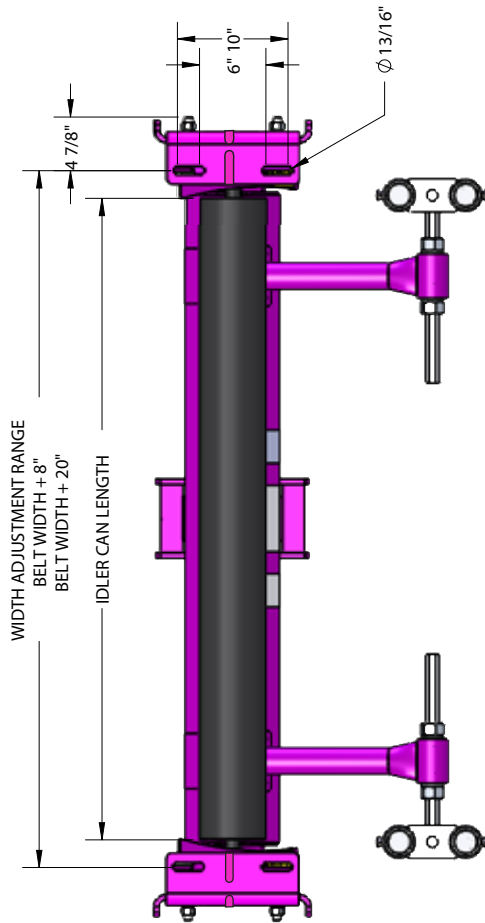


# Section 8 - Specs and CAD Drawings

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

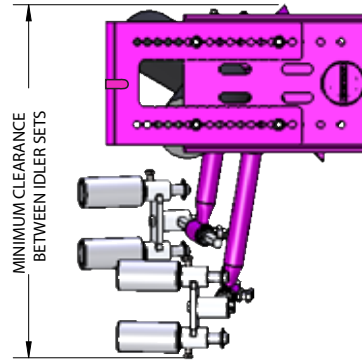
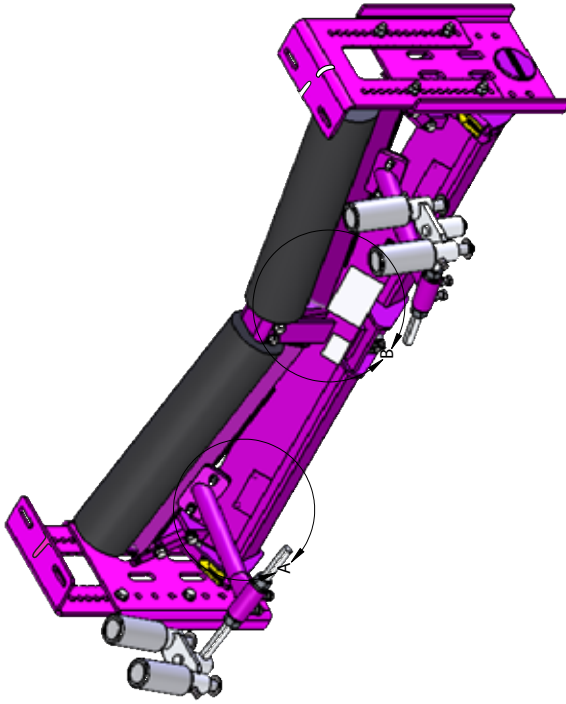


SPECIFICATIONS			IDLER (1)	
BELT WIDTH (in)	ORDER NUMBER	ITEM CODE	ORDER NUMBER	ITEM CODE
54	PTMAHD54R	90381	SE6-R54	90223
60	PTMAHD60R	90382	SE6-R60	90224
72	PTMAHD72R	90383	SE6-R72	90225
84	PTMAHD84R	90384	SE6-R84	90226

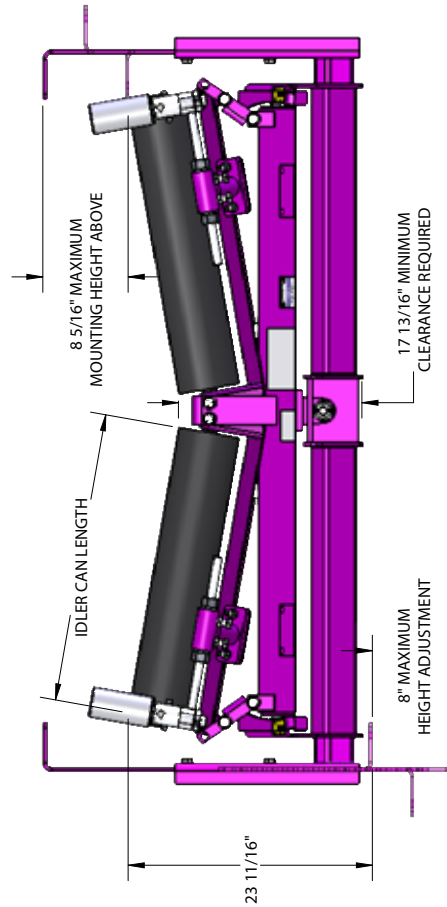
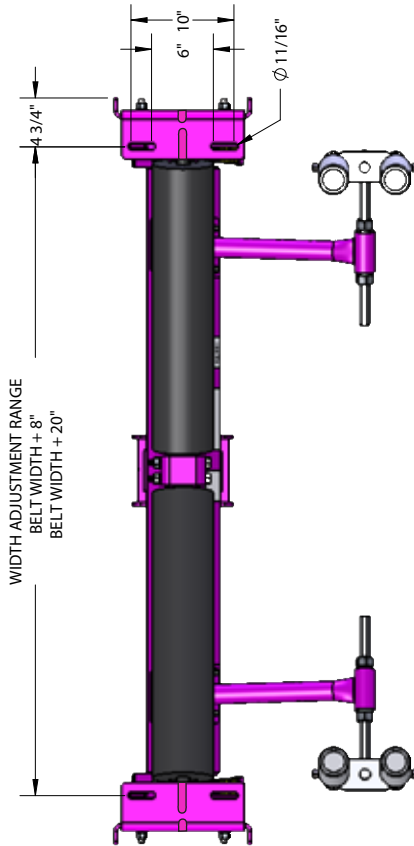


# Section 8 - Specs and CAD Drawings

## 8.5 CAD Drawing - PT Max™ Adjustable V-Return



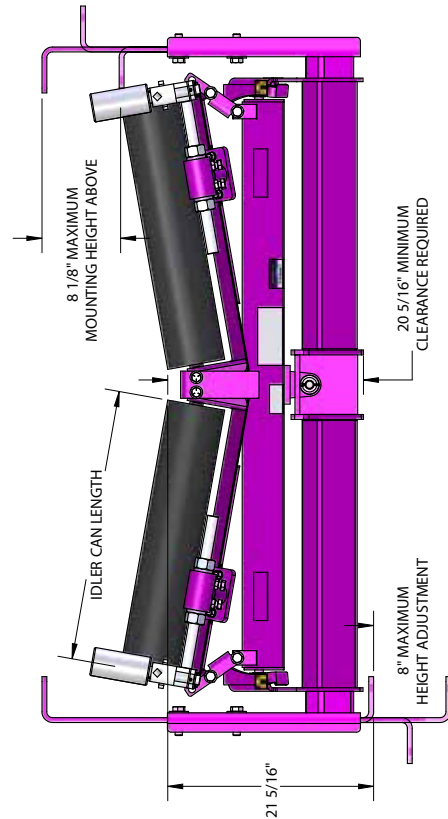
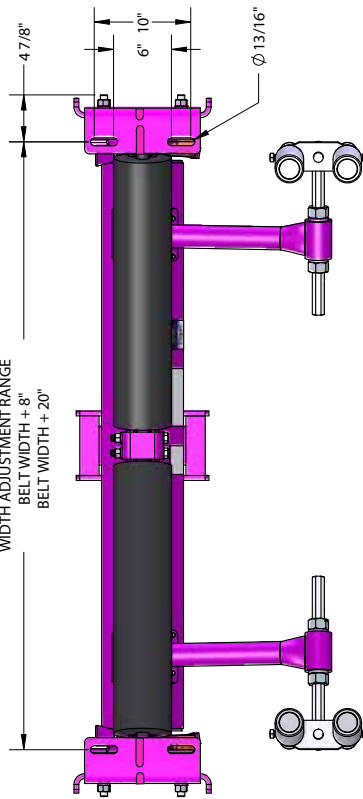
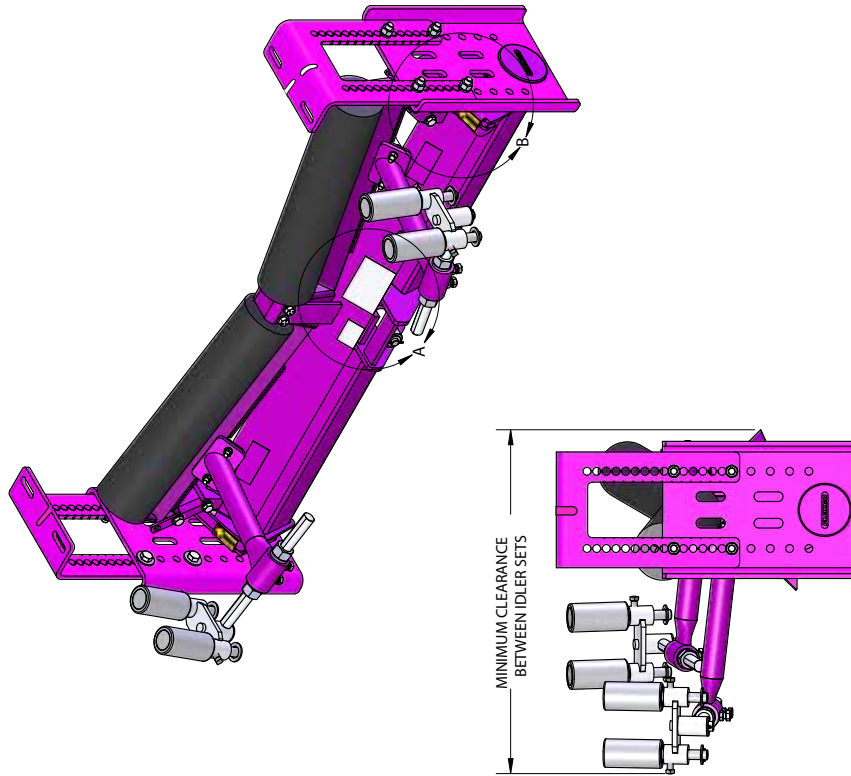
SPECIFICATIONS			MINIMUM CLEARANCE BETWEEN IDLER SETS (in)
BELT WIDTH (in)	ORDER NUMBER	ITEM CODE	IDLER CAN LENGTH (in)
36	PTMA36VR	90372	19 3/4
42	PTMA42VR	90373	21 3/4
48	PTMA48VR	90374	25 3/4
54	PTMA54VR	90375	28 1/8
60	PTMA60VR	90376	31 3/16





# Section 8 - Specs and CAD Drawings

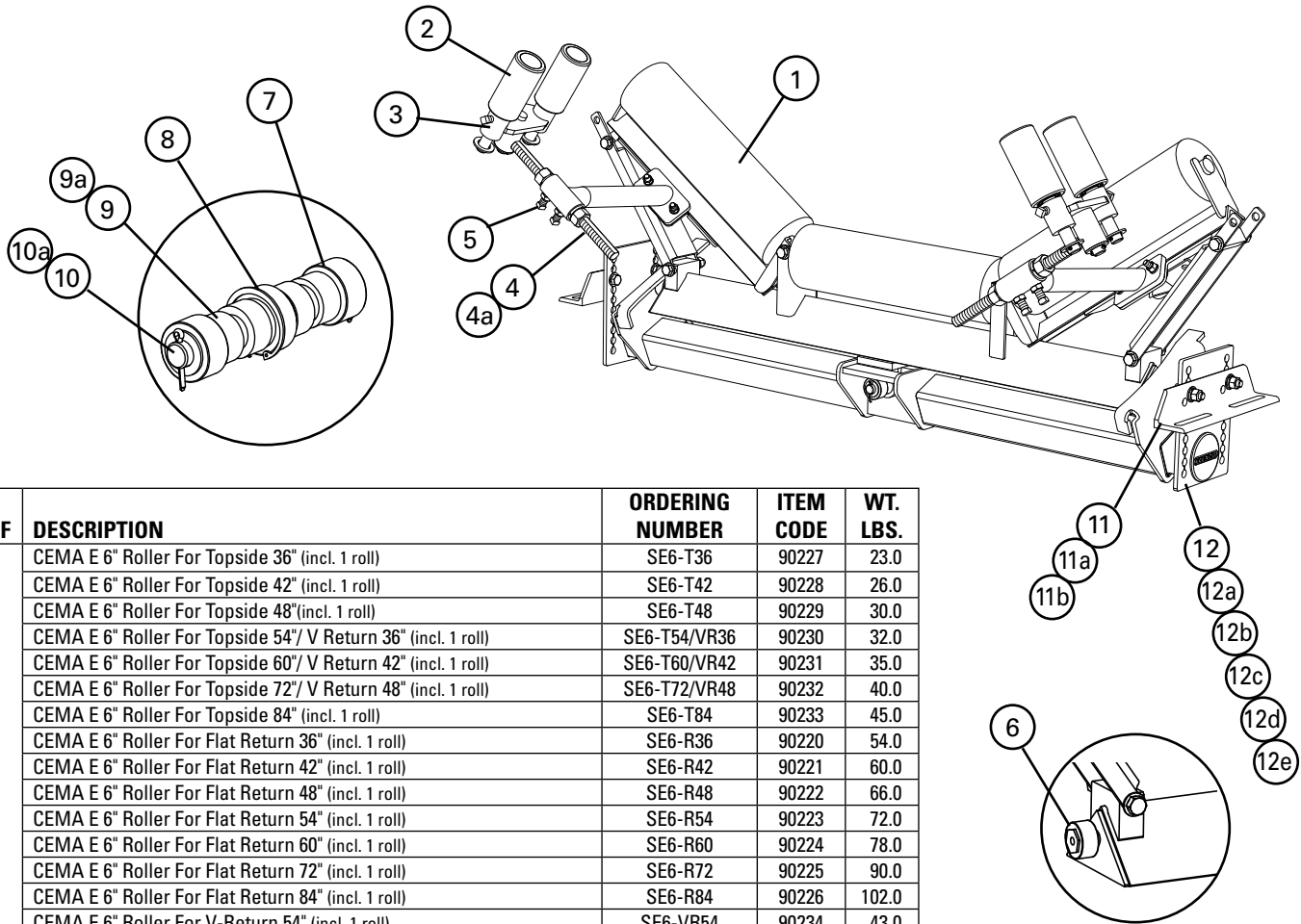
## 8.6 CAD Drawing - PT Max™ Adjustable V-Return HD



SPECIFICATIONS			MINIMUM CLEARANCE BETWEEN IDLER SETS (in)
BELT WIDTH (in)	ORDER NUMBER	ITEM CODE	IDLER CAN LENGTH (in)
54	PTMAHD54VR	90385	28 1/8
60	PTMAHD60VR	90386	31 3/16
72	PTMAHD72VR	90387	37 1/4
84	PTMAHD84VR	90388	43 3/8

# Section 9 - Replacement Parts

## 9.1 Replacement Parts List



REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
1	CEMA E 6" Roller For Topside 36" (incl. 1 roll)	SE6-T36	90227	23.0
	CEMA E 6" Roller For Topside 42" (incl. 1 roll)	SE6-T42	90228	26.0
	CEMA E 6" Roller For Topside 48" (incl. 1 roll)	SE6-T48	90229	30.0
	CEMA E 6" Roller For Topside 54"/ V Return 36" (incl. 1 roll)	SE6-T54/VR36	90230	32.0
	CEMA E 6" Roller For Topside 60"/ V Return 42" (incl. 1 roll)	SE6-T60/VR42	90231	35.0
	CEMA E 6" Roller For Topside 72"/ V Return 48" (incl. 1 roll)	SE6-T72/VR48	90232	40.0
	CEMA E 6" Roller For Topside 84" (incl. 1 roll)	SE6-T84	90233	45.0
	CEMA E 6" Roller For Flat Return 36" (incl. 1 roll)	SE6-R36	90220	54.0
	CEMA E 6" Roller For Flat Return 42" (incl. 1 roll)	SE6-R42	90221	60.0
	CEMA E 6" Roller For Flat Return 48" (incl. 1 roll)	SE6-R48	90222	66.0
	CEMA E 6" Roller For Flat Return 54" (incl. 1 roll)	SE6-R54	90223	72.0
	CEMA E 6" Roller For Flat Return 60" (incl. 1 roll)	SE6-R60	90224	78.0
	CEMA E 6" Roller For Flat Return 72" (incl. 1 roll)	SE6-R72	90225	90.0
	CEMA E 6" Roller For Flat Return 84" (incl. 1 roll)	SE6-R84	90226	102.0
	CEMA E 6" Roller For V-Return 54" (incl. 1 roll)	SE6-VR54	90234	43.0
	CEMA E 6" Roller For V-Return 60" (incl. 1 roll)	SE6-VR60	90235	47.0
	CEMA E 6" Roller For V-Return 72" (incl. 1 roll)	SE6-VR72	90236	54.0
	CEMA E 6" Roller For V-Return 84" (incl. 1 roll)	SE6-VR84	90319	57.0
2	Sensor Roller 2.0* (3" solid roller)(1 ea.)	MSR2	79378	7.0
3	Swivel Mount Kit 2.0*	PMSMK2	79380	5.5
4	PT Max Adjusting Arm Kit	PTMAAK	90194	6.0
4a	PT Max Adjusting Arm Kit Heavy Duty	PTMAAKHD	90195	9.0
5	Frame Arm Screw Kit (incl. 4 screws and 4 jam nuts)	PTMAFASK	90196	1.2
6	Outer Roller Kit (incl. 2 rollers, roller thimbles, and bolts, nuts, and washers)	PTMAORK	90197	1.0
7	Center Roller Kit (incl. 2 rollers, 2 washers, and 2 cotter pins)	MCRK	74923	1.2
8	Center Bearing	MCB	74925	1.7
9	Center Shaft Spacer Kit (incl. 2 spacers)	MCSK	74927	0.3
9a	Center Shaft Spacer Kit Heavy Duty (incl. 2 spacers)	MCSKHD	74928	0.5
10	Center Shaft	MCS	74930	4.0
10a	Center Shaft Heavy Duty	MCSHD	74931	13.0
11	Frame Mount Kit Topside	PTMAFMKT	90185	14.6
11a	Frame Mount Kit Flat/V-Return	PTMAFMKR	90186	42.0
11b	Frame Mount Kit Flat/V-Return Heavy Duty	PTMAFMKHDR	90187	49.4
12	Extender Kit Topside	PTMAEKT	90188	33.9
12a	Extender Kit Topside Heavy Duty	PTMAEKHDT	90191	49.9
12b	Extender Kit Flat Return	PTMAEKR	90189	57.1
12c	Extender Kit Flat Return Heavy Duty	PTMAEKHDR	90192	86.4
12d	Extender Kit V-Return	PTMAEKVR	90190	76.0
12e	Extender Kit V-Return Heavy Duty	PTMAEKHDVR	90193	112.1
-	Center Bearing Kit (incl. 1 ea. Items 7, 8, 9, and 10)	MCBK	76025	8.0
-	Center Bearing Kit Heavy Duty (incl. 1 ea. Items 7, 8, 9a, and 10a)	MCBKHD	76026	17.0

\*Hardware included  
Lead time: 1 working day

## 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:

### EZP1 Precleaner



- Patented ConShear™ blade renews its cleaning edge as it wears
- Visual Tension Check™ for optimal blade tensioning and simple retensioning
- Quick and easy one-pin blade replacement
- Material Path Option™ for optimal cleaning and reduced maintenance

### 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 Plows



- 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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