

MHS Enhanced Service Advantage Cartridge with MST Tensioner HD Secondary Belt Cleaner

Installation, Operation and Maintenance Manual



MHS ESAC with CST Tensioner



MHS ESAC with MST Tensioner

MHS ESAC HD Secondary Cleaner

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

1.1 General Introduction

We at Flexco are very pleased that you have selected an MHS SAC HD Secondary 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 visit our website or contact our Customer Service Department:

Customer Service: 612-8818-2000

Visit 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 labor
- Lower maintenance budget costs
- Increased service life for the belt cleaner and other conveyor components

1.3 Service Option

The MHS ESAC HD Secondary 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

Before installing and operating the MHS SAC HD Secondary 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.

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 behavior 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.

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

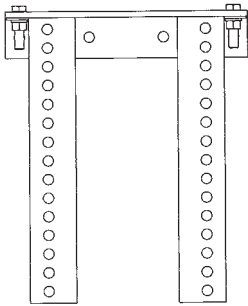
3.1 Checklist

- 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 (see 3.2 - Optional Installation Accessories)

Section 3 - Pre-installation Checks and Options

3.2 Optional Installation Accessories

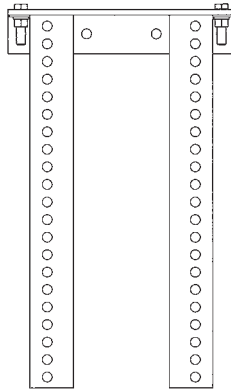
Versatile, adjustable brackets that can be mounted on the conveyor structure so the MHS HD Secondary Cleaner can be quickly and easily bolted into place. Pole extenders are also available for wide, non-standard conveyor structures.



76071

Standard Mounting Bracket Kit

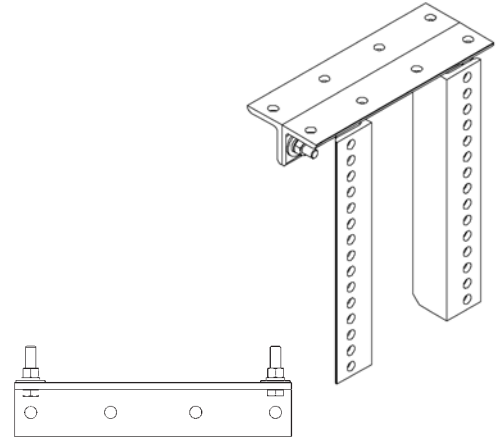
- For most secondary cleaner installs.
- 325mm W x 388mm L
- Includes 2 brackets



76072

Long Mounting Bracket Kit

- For installations that require extra length legs.
- 325mm W x 538mm L
- Includes 2 brackets



76073

Optional Top Angle Kit

- Used with both standard and long mounting bracket kits for additional mounting options.
- 325mm L
- Includes 2 brackets

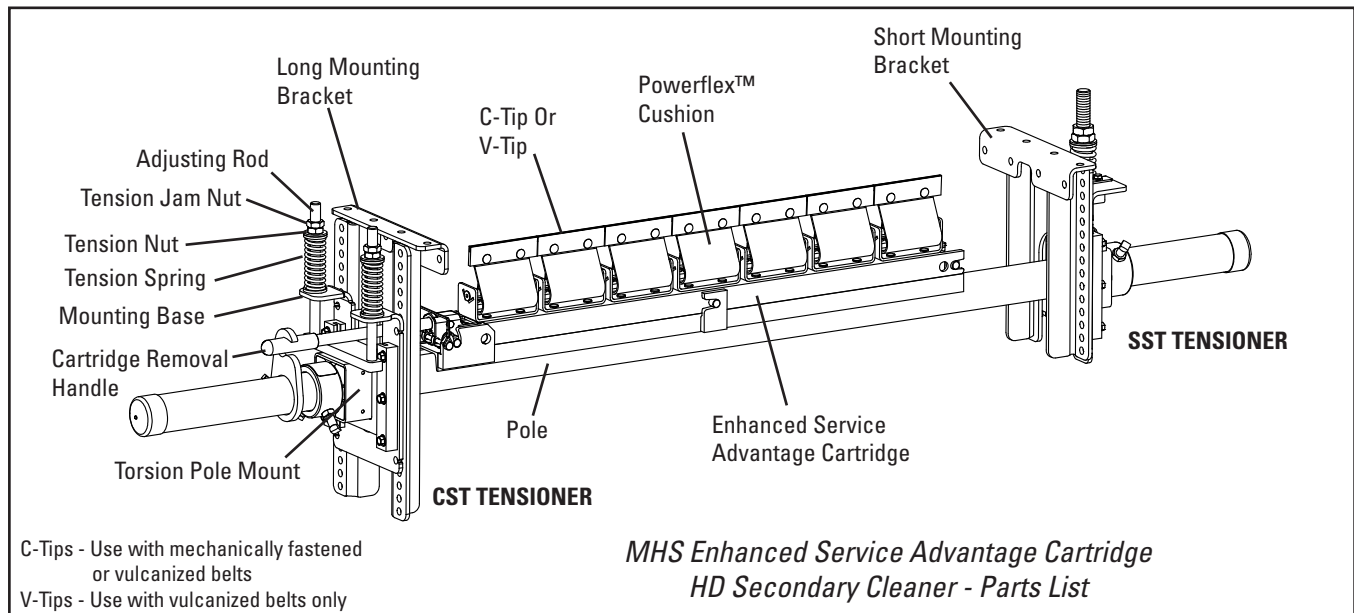
Optional Mounting Kits

Description	Ordering Number	Item Code	Wt. Kg.
Standard Mounting Bracket Kit *	SSTSMB	76071	15.5
Long Mounting Bracket Kit *	SSTLMB	76072	19.7
Optional Top Angle Kit *	SSTOTA	76073	4.8

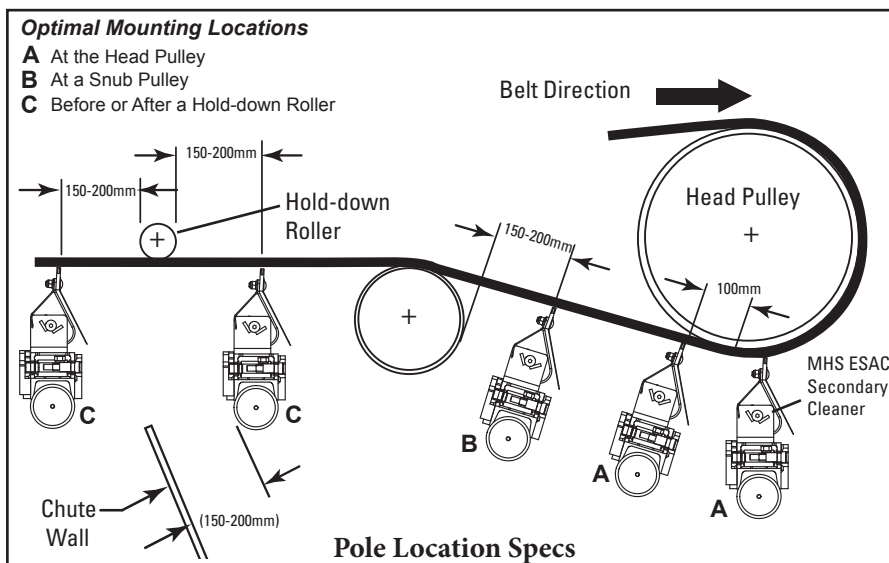
*Hardware Included

Section 4.1 - Installation Instructions - CST Tensioner Single Cartridge

MHS Service Advantage Cartridge HD Secondary Belt Cleaner

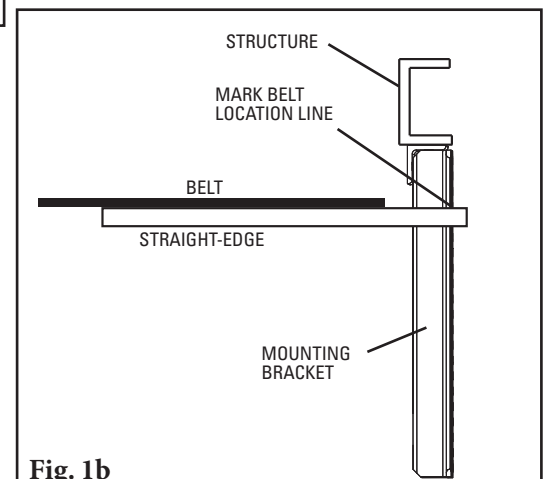
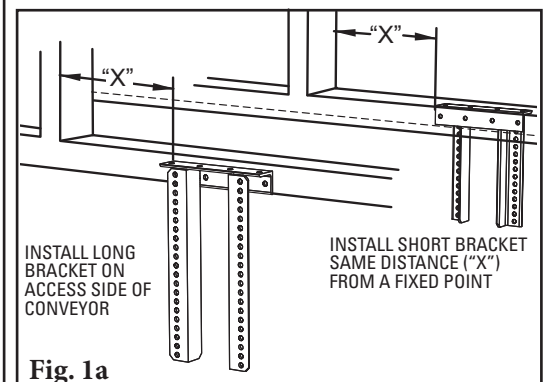


Physically lock out and tag the conveyor at the power source before you begin cleaner installation.



1a. Install the mounting brackets. Position the long mounting bracket on the structure on the side of the conveyor from which the cleaner will be installed and serviced. With the long bracket installed, take a measurement "X" from a fixed point on the structure to the mounting bracket and transfer to the opposite side of the structure; mount short mounting bracket in this location (Fig. 1a).

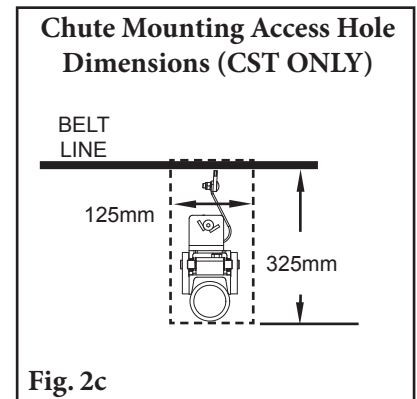
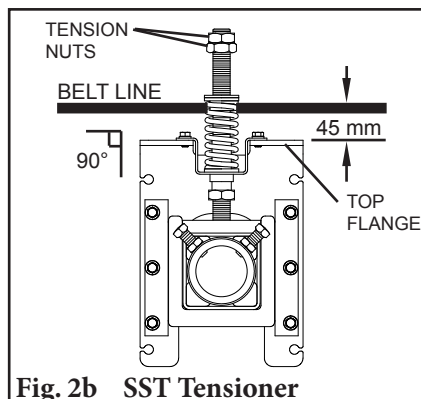
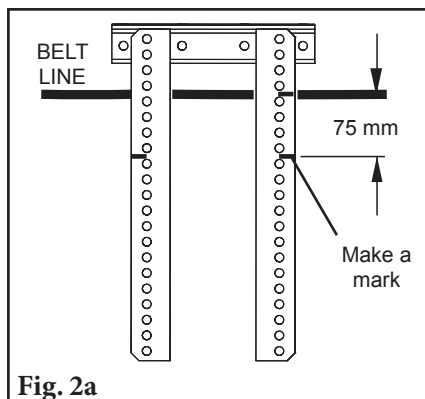
1b. Transfer the belt location line to the mounting bracket. Using a straight-edge pushed up to the bottom of the belt, mark the mounting bracket (Fig. 1b). Repeat on opposite side.



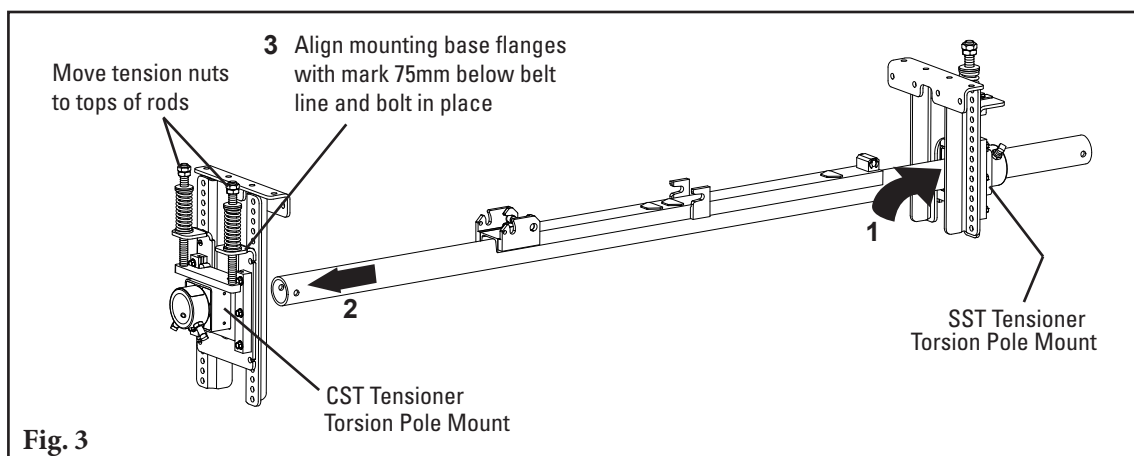
Section 4.1 - Installation Instructions - CST Tensioner Single Cartridge

2. **Install the SST mounting base.** On the cartridge access (service) side of the conveyor, make a mark on the long bracket 75mm below the belt line (Fig. 2a); this will be needed in Step 3. On the opposite side, bolt the SST tensioner mounting base into position so the top flange of the base is 45mm below the belt line (Fig. 2b). Adjust the tension nut to the top of the adjusting rod.

NOTE: For chute mounting, a belt location line must be drawn on the chute wall so the mounting bases can be aligned with the belt. Cut an access hole as shown for the CST tensioner (Fig. 2c). Also cut an access hole as needed for the SST tensioner.



3. **Install the pole.** Remove the cartridge from the pole. Slide the pole into the SST torsion pole mount as far as needed. Then locate the other end into the CST tensioner torsion pole mount and attach the mounting base to the long bracket, aligning the flanges with the previously marked position (Fig. 3). Adjust tension nuts to the tops of the adjusting rods.

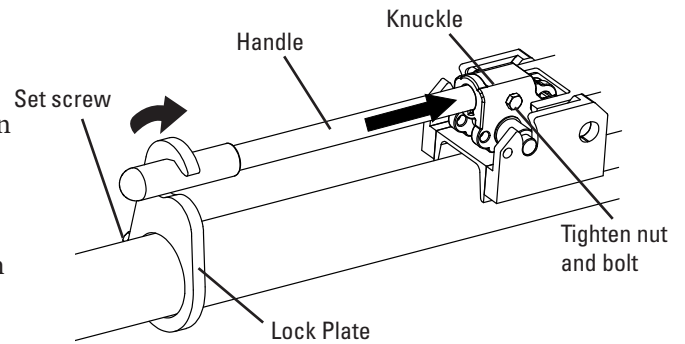


Section 4.1 - Installation Instructions - CST Tensioner Single Cartridge

4. Different Cartridge Installation Methods.

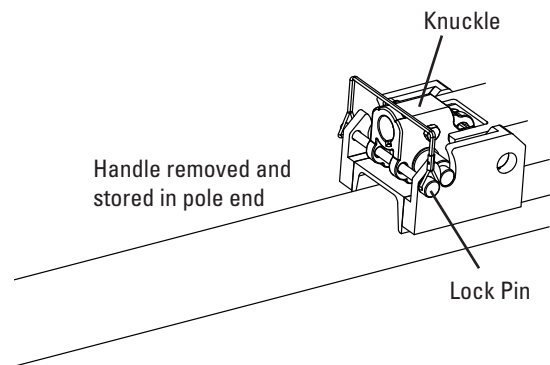
Option A: Handle always on cartridge.

1. Slide the handle into the already installed knuckle, then tighten with supplied bolt/nut hardware.
2. Slide the cartridge onto the pole and lock down the knuckle onto the pole.
3. Slide the lock plate onto the pole, over the handle, then lock with the set screw.



Option B: Handle stored inside pole.

1. Set the cartridge onto the pole, then slide the handle into the already installed knuckle.
2. Lock down the knuckle onto the pole, then remove handle and place into open pole end.
3. Using the lock pins provided, lock the knuckle and the handle in place.



5. **Set the blade angle.** Center the pole/blades on the belt. Rotate the pole until the tips align with the white “MHS Standard” side of the tip setup gauge provided (Fig. 5a). Tighten the two locking bolts on each torsion pole mount to lock the pole in place (Fig. 5b). There should be no blade-to-belt contact while locking the pole in the correct position. If contact occurs, double check the dimension from Step 1.

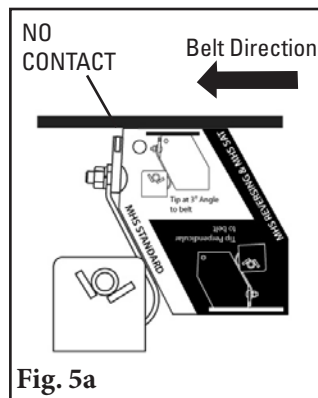


Fig. 5a

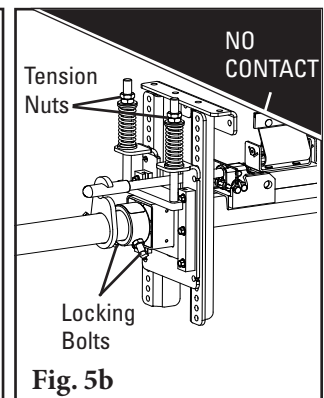
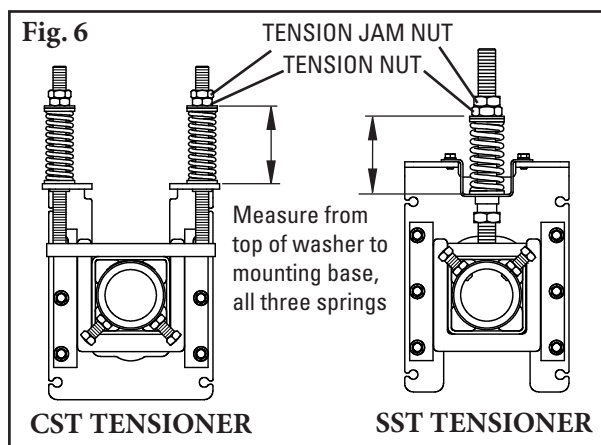


Fig. 5b

Section 4.1 - Installation Instructions - CST Tensioner Single Cartridge

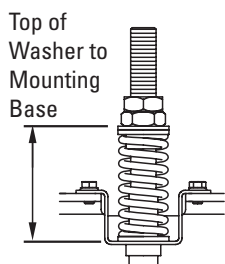


6. **Set the blade tension.** Loosen the top tension jam nuts on both sides. Tighten the tension nuts until the correct spring compression is reached (Fig. 6). Spring compression is determined by belt width. See chart below for the correct spring length for your belt width. Tighten top tension jam nuts.

**Spring Length Chart
for SST Spring Tensioner**

BLADE WIDTH	WHITE SPRING	SILVER SPRING	BLACK SPRING
600mm	78mm	99mm	N/A
750mm	72mm	97mm	N/A
900mm	N/A	94mm	98mm
1050mm	N/A	91mm	95mm
1200mm	N/A	88mm	93mm
1350mm	N/A	86mm	91mm
1500mm	N/A	83mm	89mm
1800mm	N/A	N/A	84mm

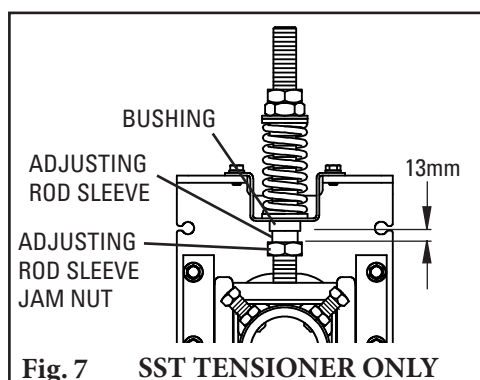
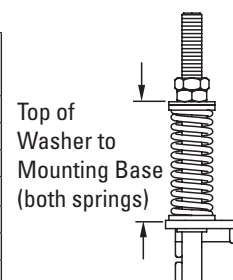
Shading indicates preferred spring option



**Spring Length Chart
for CST Spring Tensioner**

BLADE WIDTH	WHITE SPRING	SILVER SPRING	BLACK SPRING	GOLD SPRING
600mm	78mm	99mm	N/A	N/A
750mm	72mm	97mm	N/A	N/A
900mm	N/A	94mm	98mm	N/A
1050mm	N/A	91mm	95mm	N/A
1200mm	N/A	88mm	93mm	N/A
1350mm	N/A	86mm	91mm	N/A
1500mm	N/A	83mm	89mm	103mm
1800mm	N/A	N/A	84mm	101mm
2100mm	N/A	N/A	80mm	99mm
2400mm	N/A	N/A	N/A	97mm
3000mm	N/A	N/A	N/A	93mm

Shading indicates preferred spring option



7. **Set adjusting rod sleeve (SST Tensioner only).** After setting the blade tension, screw the adjusting rod sleeve into the UHMW bushing until 13mm is showing (Fig. 7). Tighten the adjusting rod sleeve jam nut.

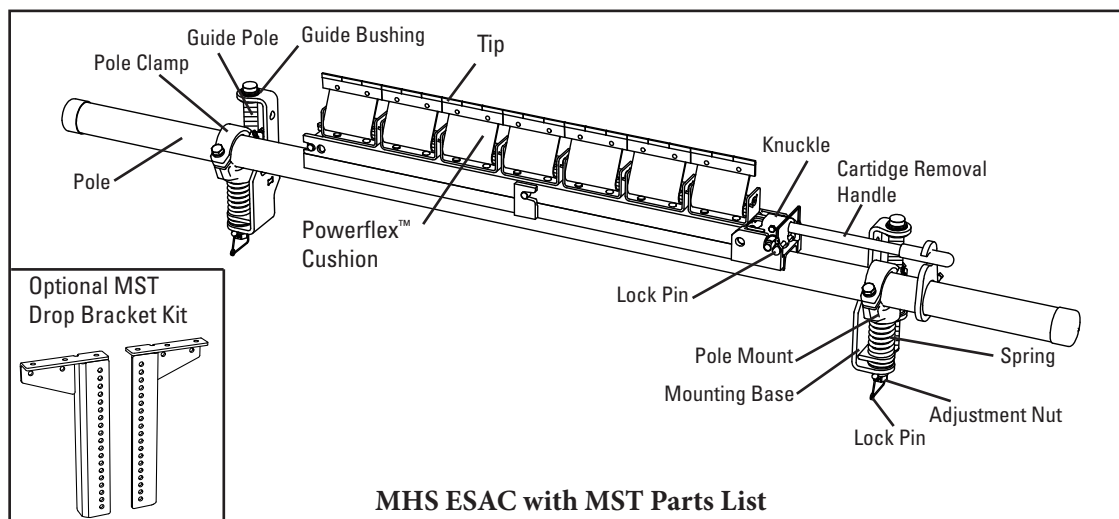
8. **IMPORTANT: Apply the Spring Tension Labels to the conveyor structure for future blade retensioning.**

9. **Test run the cleaner and inspect the cleaning performance.** If vibration occurs or more cleaning efficiency is desired, increase the blade tension by making 3mm compression adjustments on the tension springs.

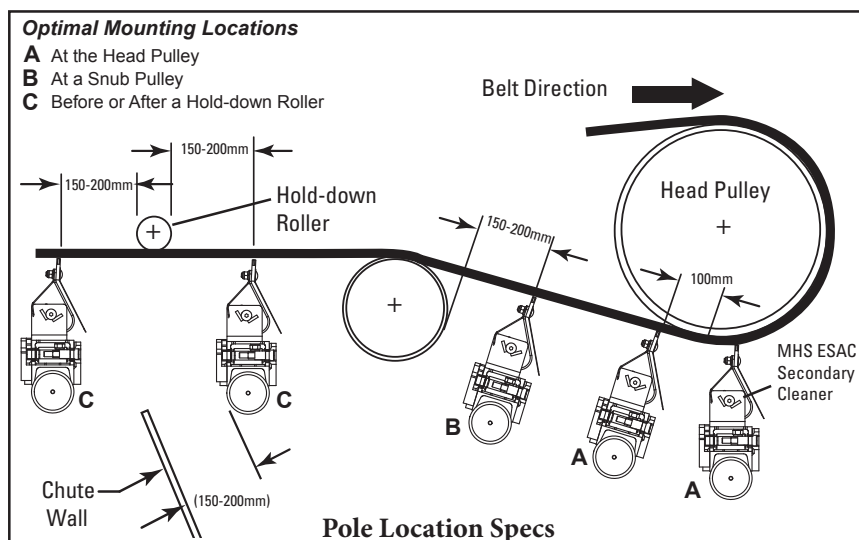
SEE PAGE 20 FOR CARTRIDGE REPLACEMENT INSTRUCTIONS.

Section 4.2 - Installation Instructions - MST Tensioner Single Cartridge

MHS Enhanced Service Advantage Cartridge with MST Standard & Reversing Secondary Cleaners for belts 450-1800mm

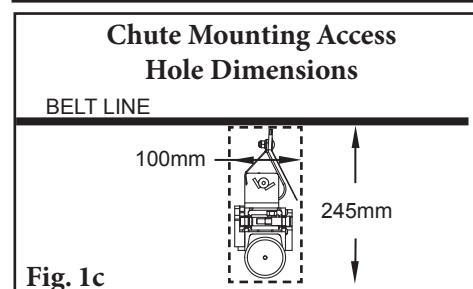
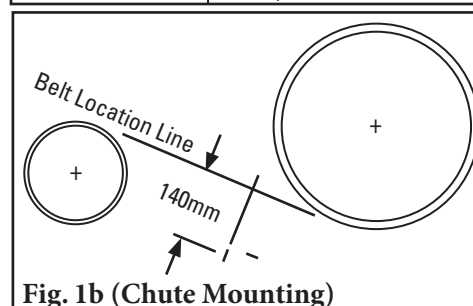
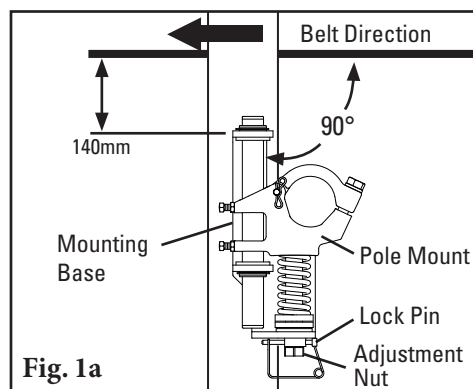


Physically lock out and tag the conveyor at the power source before you begin cleaner installation.



- 1. Install the spring tensioner mounting bases.** The preferred mounting orientation relative to belt direction is shown in Fig. 1a; if necessary the tensioners may be mounted with the opposite belt direction. Clamp the mounting base into position so the top flange is 140mm below the bottom of the belt. Bolt or weld the mounting base in place. Locate and install the mounting base on the opposite side. Remove the tensioner lock pins and turn the adjustment nuts to fully lower the pole mount.

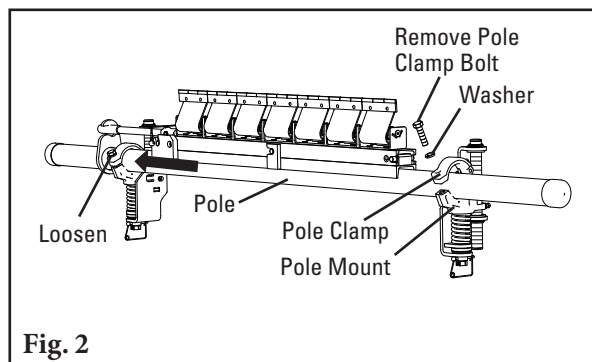
Note: For chute mounting, a belt location line must be drawn on the chute wall so the mounting base can be aligned 140mm below the belt (Fig. 1b). Cut access holes as needed.



Section 4.2 - Installation Instructions - MST Tensioner Single Cartridge

MHS Enhanced Service Advantage Cartridge with MST Standard & Reversing Secondary Cleaners

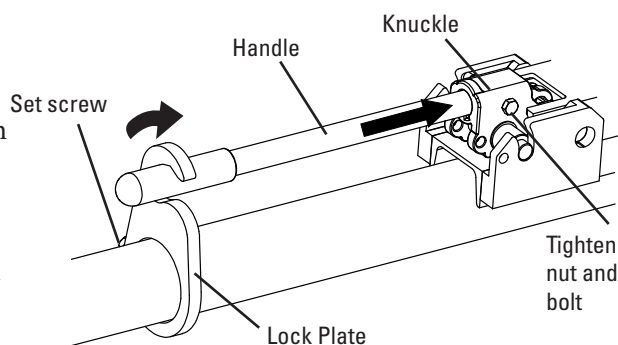
2. **Install the cartridge pole.** Remove pole clamp bolt and lift or remove top half of pole clamp from the tensioner on the near side of the conveyor, and loosen pole clamp bolt on the opposite side. Slide the pole across the conveyor and through the loosened pole clamp, then place the near end of pole in remaining pole clamp (Fig. 2). Replace top half of pole clamp, reinstall the bolt and tighten both bolts finger tight.



3. Different Cartridge Installation Methods.

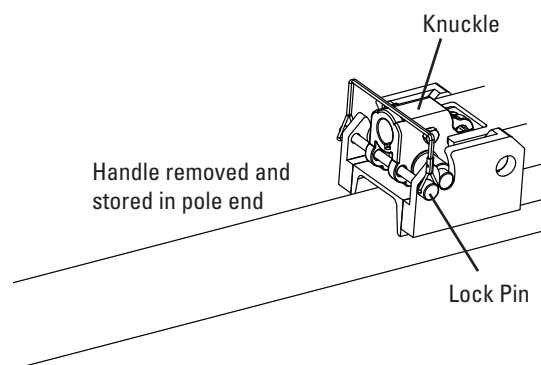
Option A: Handle always on cartridge.

1. Slide the handle into the already installed knuckle, then tighten with supplied bolt/nut hardware.
2. Slide the cartridge onto the pole and lock down the knuckle onto the pole.
3. Slide the lock plate onto the pole, over the handle, then lock with the set screw.



Option B: Handle stored inside pole.

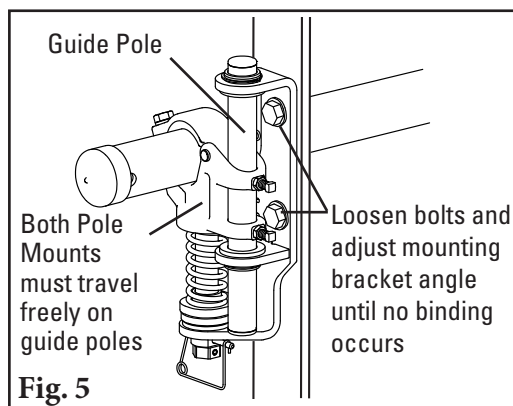
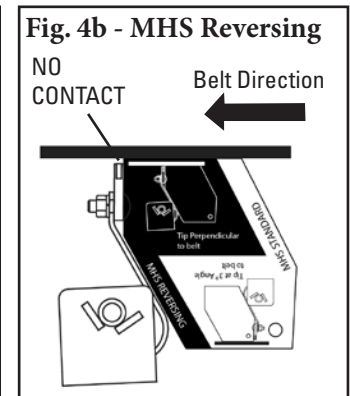
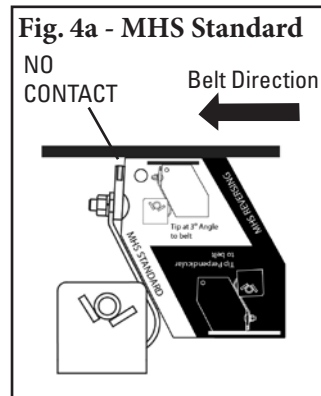
1. Set the cartridge onto the pole, then slide the handle into the already installed knuckle.
2. Lock down the knuckle onto the pole, then remove handle and place into open pole end.
3. Using the lock pins provided, lock the knuckle and the handle in place.



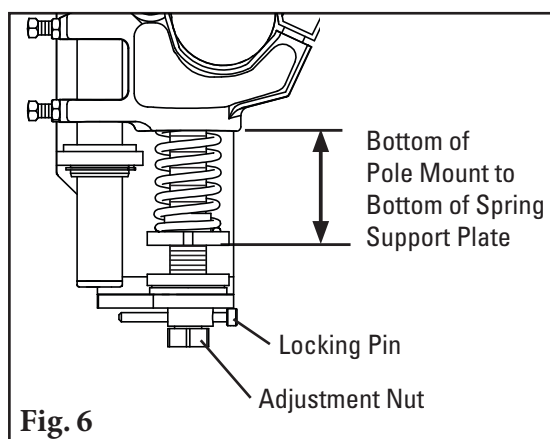
Section 4.2 - Installation Instructions - MST Tensioner Single Cartridge

MHS Enhanced Service Advantage Cartridge with MST Standard & Reversing Secondary Cleaners

4. **Set the blade angle.** Center the pole/blades on the belt. **For MHS Standard:** Rotate the pole until the tips align with the white “MHS Standard” side of the tip setup gauge provided (Fig. 4a). **For MHS Reversing:** Rotate the pole until the tips are perpendicular to the belt, using the black “MHS Reversing” side of the tip setup gauge provided (Fig. 4b). Tighten the pole clamp bolt on each pole mount to lock the pole in place. There should be no blade-to-belt contact while locking the pole in the correct position. If contact occurs, double check the dimension from Step 1.



5. **Ensure the tensioner travels freely.** Pull up and push down on each pole end to ensure the pole mount travels freely on the guide pole. If there is any sign of binding, loosen the bolts on the mounting base and pivot until the tensioner moves freely (Fig. 5). Retighten bolts.
6. **Set the blade tension.** Turn the adjustment nuts until the correct spring compression is reached (Fig. 6). Spring compression is determined by the spring length. See the chart below for the correct spring length for your belt width. Replace locking pins.



MST Tensioner Spring Length Chart

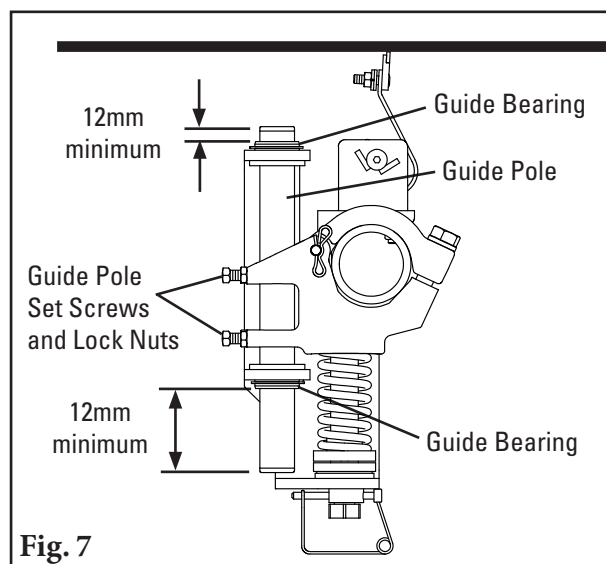
Blade Width	2 White Springs	2 Silver Springs	2 Black Springs
mm	mm	mm	mm
450	73	86	89
600	67	86	86
750	60	83	86
900	54	79	83
1050	48	76	79
1200	N/A	73	79
1350	N/A	73	76
1500	N/A	70	73
1800	N/A	64	70

Shading indicates preferred spring option.

Section 4.2 - Installation Instructions - MST Tensioner Single Cartridge

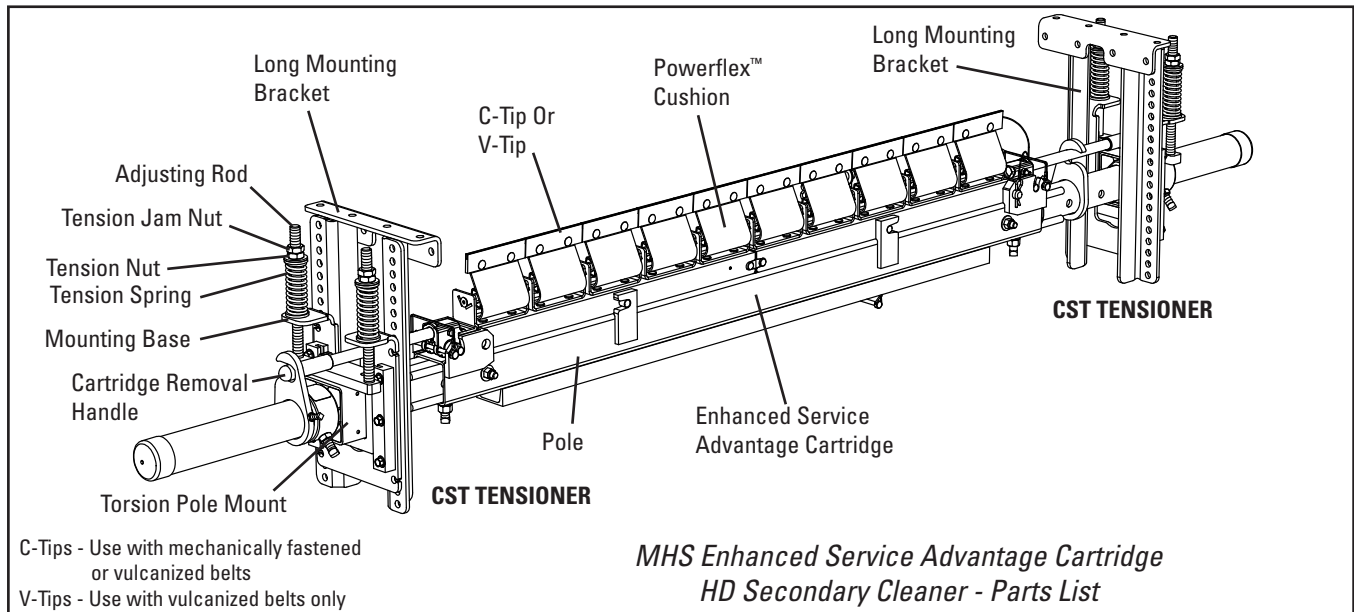
MHS Enhanced Service Advantage Cartridge with MST Standard & Reversing Secondary Cleaners

8. **Secure guide poles.** Ensure the ends of the guide pole extend at least 12mm outside top and bottom guide bearings. If adjustment is necessary, loosen guide pole set screws and lock nuts, then tap guide pole up or down. Tighten guide pole set screws and lock nuts (Fig. 7).
9. **Check movement of each tensioner** to ensure they do not bind up. If there are binding concerns, refer to Step 4.
10. **Test run the cleaner and inspect the cleaning performance.** If vibration occurs or more cleaning efficiency is desired, increase the blade tension by making 3.18mm (1/8") compression adjustments on the tension springs.



Section 4.3 - Installation Instructions - CST Tensioner Dual Cartridge

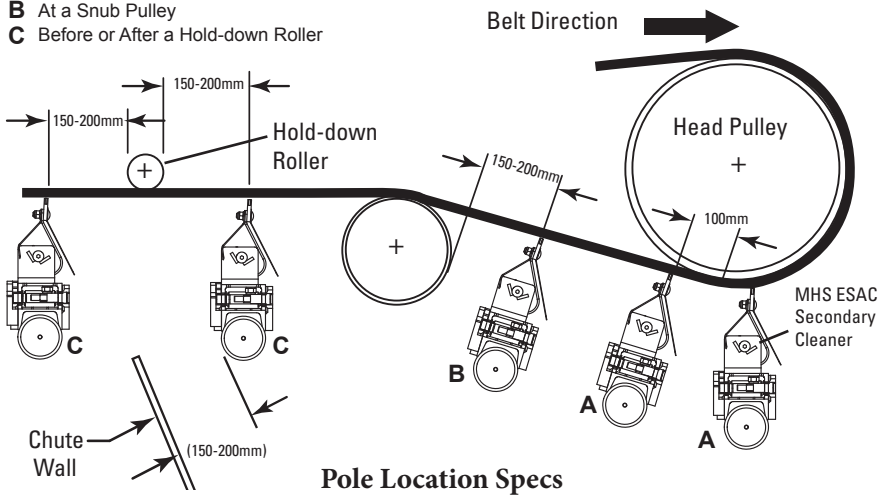
MHS Enhanced Service Advantage Cartridge HD Secondary Belt Cleaner



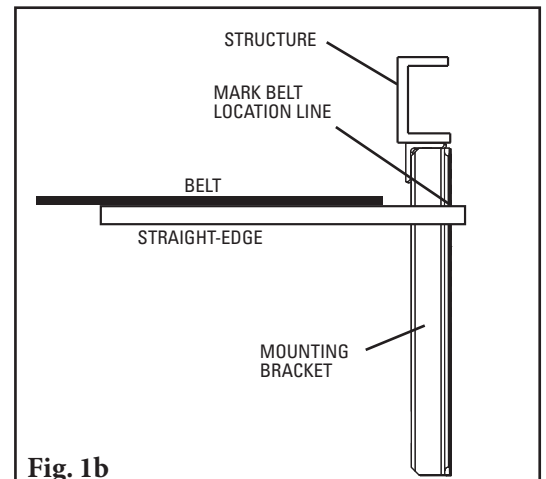
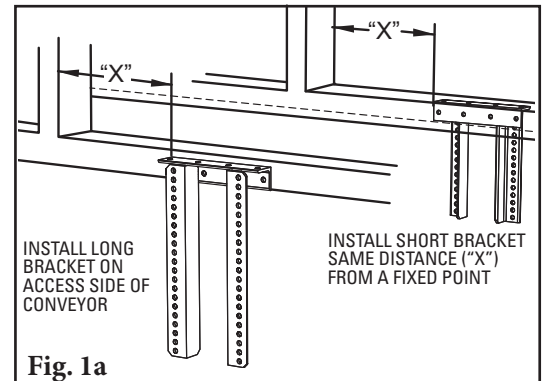
Physically lock out and tag the conveyor at the power source before you begin cleaner installation.

Optimal Mounting Locations

- A** At the Head Pulley
- B** At a Snub Pulley
- C** Before or After a Hold-down Roller



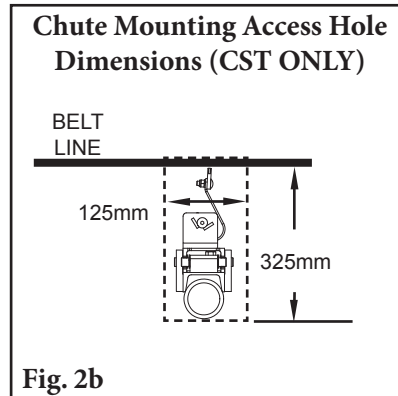
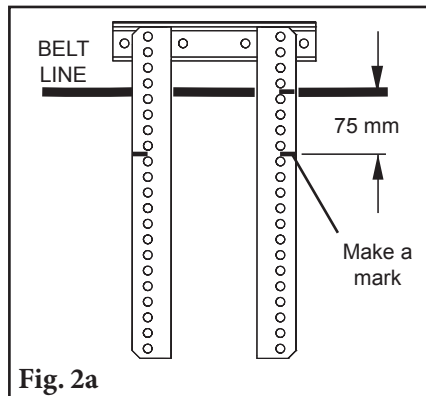
- 1a. Install the mounting brackets.** Position one long mounting bracket on the structure on the side of the conveyor from which the cleaner will be installed and serviced. With the bracket installed, take a measurement "X" from a fixed point on the structure to the mounting bracket and transfer to the opposite side of the structure; mount the other mounting bracket in this location (Fig. 1a).
- 1b. Transfer the belt location line to the mounting bracket.** Using a straight-edge pushed up to the bottom of the belt, mark the mounting bracket (Fig. 1b). Repeat on opposite side.



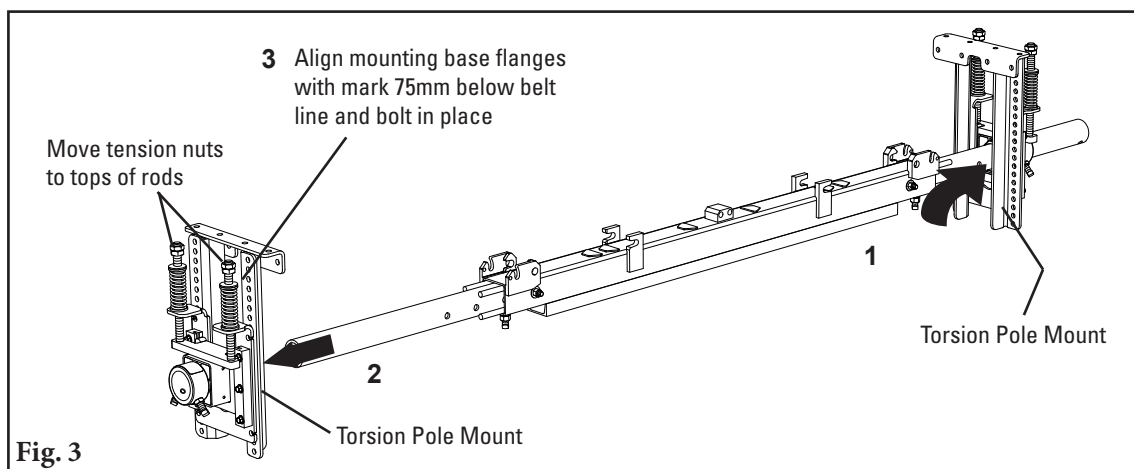
Section 4.3 - Installation Instructions - CST Tensioner Dual Cartridge

2. **Install one CST mounting base.** On both sides of the conveyor, make a mark on the long brackets 75mm below the belt line (Fig. 2a); this will be needed in Step 3.

NOTE: For chute mounting, a belt location line must be drawn on the chute wall so the mounting bases can be aligned with the belt. Cut an access hole as shown for the CST tensioner (Fig. 2b).



3. **Install the pole.** Remove the cartridges from the pole. Slide the pole into one CST torsion pole mount as far as needed. Then locate the other end into the other CST tensioner torsion pole mount and attach the mounting base to the long bracket, aligning the flanges with the previously marked position (Fig. 3). Adjust tension nuts to the tops of the adjusting rods.

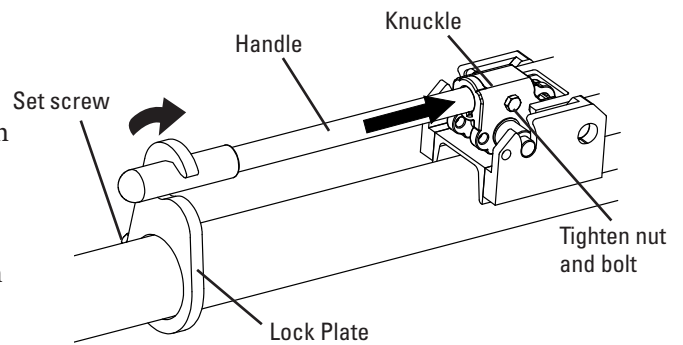


Section 4.3 - Installation Instructions - CST Tensioner Dual Cartridge

4. Different Cartridge Installation Methods.

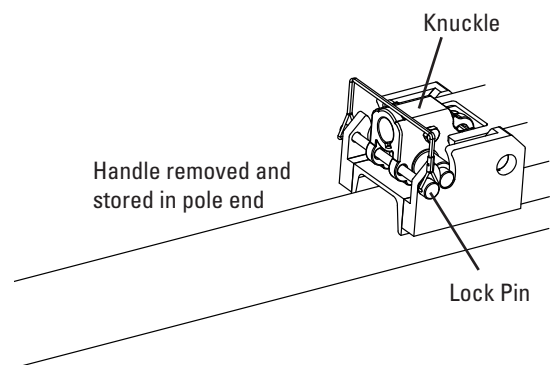
Option A: Handle always on cartridge.

1. Slide the handle into the already installed knuckle, then tighten with supplied bolt/nut hardware.
2. Slide the cartridge onto the pole and lock down the knuckle onto the pole.
3. Slide the lock plate onto the pole, over the handle, then lock with the set screw.
4. Repeat for other side.

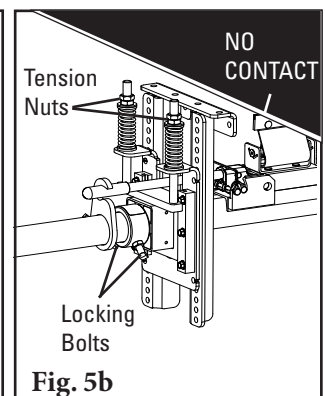
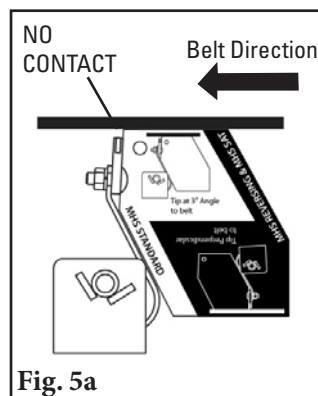


Option B: Handle stored inside pole.

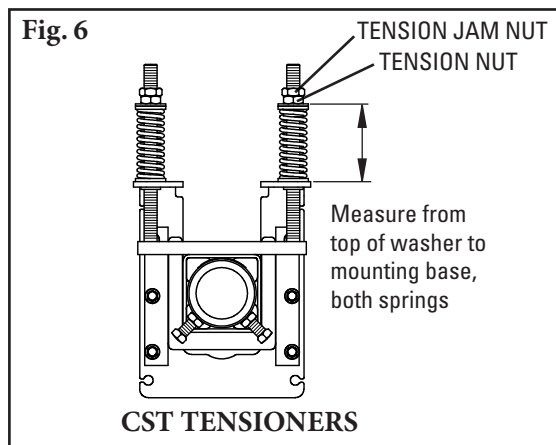
1. Set the cartridge onto the pole, then slide the handle into the already installed knuckle.
2. Lock down the knuckle onto the pole, then remove handle and place into open pole end.
3. Using the lock pins provided, lock the knuckle and the handle in place.
4. Repeat for other side.



5. **Set the blade angle.** Center the pole/blades on the belt. Rotate the pole until the tips align with the white “MHS Standard” side of the tip setup gauge provided (Fig. 5a). Tighten the two locking bolts on each torsion pole mount to lock the pole in place (Fig. 5b). There should be no blade-to-belt contact while locking the pole in the correct position. If contact occurs, double check the dimension from Step 1.



Section 4.3 - Installation Instructions - CST Tensioner Dual Cartridge

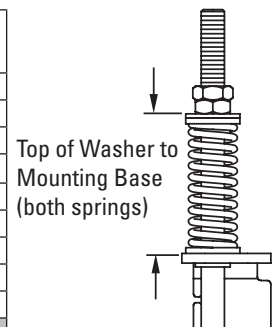


6. **Set the blade tension.** Loosen the top tension jam nuts on both sides. Tighten the tension nuts until the correct spring compression is reached (Fig. 6). Spring compression is determined by belt width. See chart below for the correct spring length for your belt width. Tighten top tension jam nuts.

**Spring Length Chart
for CST Spring Tensioner**

BLADE WIDTH	WHITE SPRING	SILVER SPRING	BLACK SPRING	GOLD SPRING
600mm	78mm	99mm	N/A	N/A
750mm	72mm	97mm	N/A	N/A
900mm	N/A	94mm	98mm	N/A
1050mm	N/A	91mm	95mm	N/A
1200mm	N/A	88mm	93mm	N/A
1350mm	N/A	86mm	91mm	N/A
1500mm	N/A	83mm	89mm	103mm
1800mm	N/A	N/A	84mm	101mm
2100mm	N/A	N/A	80mm	99mm
2400mm	N/A	N/A	N/A	97mm
3000mm	N/A	N/A	N/A	93mm

Shading indicates preferred spring option



7. **IMPORTANT: Apply the Spring Tension Labels to the conveyor structure for future blade retensioning.**
8. **Test run the cleaner and inspect the cleaning performance.** If vibration occurs or more cleaning efficiency is desired, increase the blade tension by making 3mm compression adjustments on the tension springs.

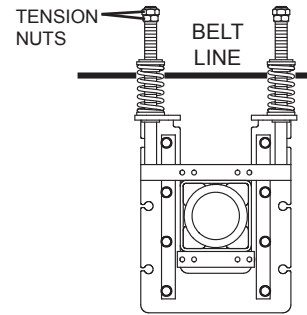
SEE NEXT PAGE FOR CARTRIDGE REPLACEMENT INSTRUCTIONS.

Section 4.4 - Cartridge Replacement Instructions

MHS Enhanced Service Advantage Cartridge HD Secondary Belt Cleaner

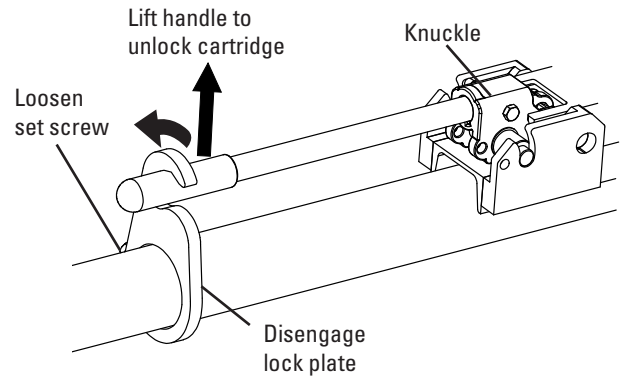
Physically lock out and tag the conveyor at the power source before you begin cleaner installation.

1. **Release tension on the cleaner.** Loosen both the tension jam nut and tension nut on all adjusting rods until the nuts are at the tops of the adjusting rods (Fig. 1).



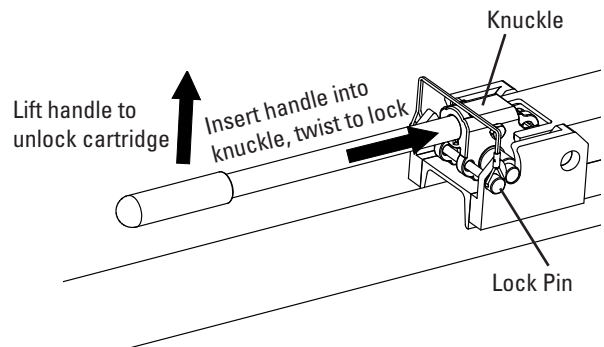
2. **Different Cartridge Removal Methods.**
Option A: Handle always on cartridge.

1. Loosen the lock plate set screw and disengage lock plate from handle.
2. Lift the handle to unlock the knuckle and cartridge, then pull cartridge out.
3. If using dual cartridge cleaner, repeat for other side.



Option B: Handle stored inside pole.

1. Remove lock pins holding handle and knuckle in place.
2. Slide the handle into the knuckle and twist to lock.
3. Lift the handle to unlock the knuckle and cartridge, then pull cartridge out.
4. If using dual cartridge cleaner, repeat for other side.

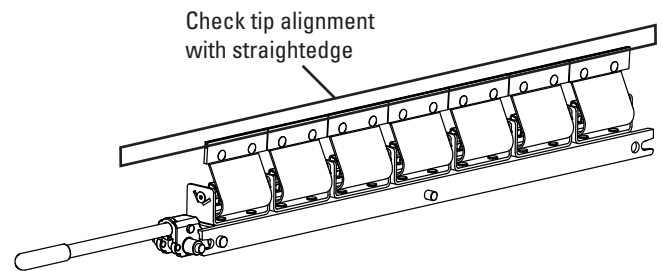


Section 4.4 - Cartridge Replacement Instructions

4. **Replace the worn tips.** **NOTE:** If using a dual cartridge cleaner, please use the provided Cartridge Tip Alignment Tool to ensure the tips on both cartridges are located at the same height. It is recommended to use a second cartridge with new tips and cushions already installed for a quick change-out. However, new cleaner tips can be installed on the pulled cartridge on-site if needed.

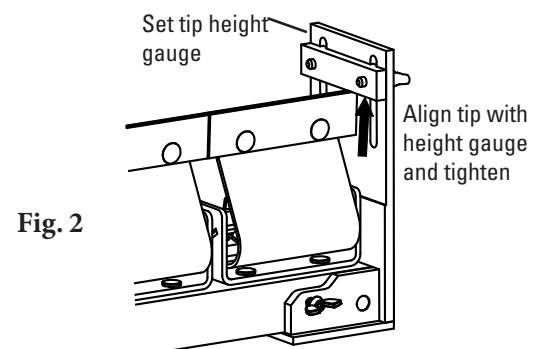
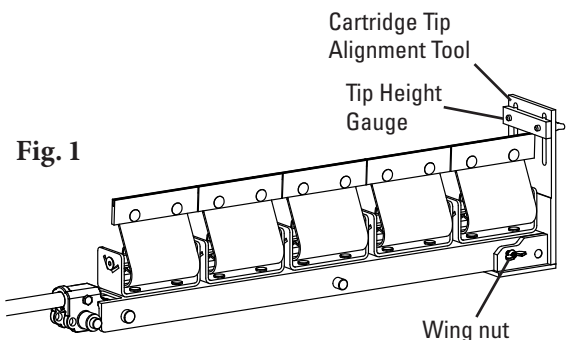
Single Cartridge:

1. Remove all tips with hardware from the used cartridge.
2. Install all new tips and hardware without fully tightening.
3. Tighten one of the tips on one end of the cartridge.
4. Visually align all others while tightening remaining tips, ensuring a flat profile across all tips. Check with a straightedge. When finished, all tips should move freely without catching on the next tip and have no gaps larger than 1mm (approximate thickness of a credit card).



Dual Cartridge:

1. Remove all tips with hardware from the used cartridges.
2. Install all new tips and hardware without fully tightening.
3. On one cartridge, place the Cartridge Tip Alignment Tool on the end with the notch and alignment holes. Using those alignment holes, tighten the tool to the cartridge with wing nut (Fig. 1).
4. Set the tip height gauge on the Cartridge Tip Alignment Tool so that the loosely installed tip can push up into the corner of the tool (Fig. 2).
5. Tighten the first tip while holding it tight to the Cartridge Tip Alignment Tool (Fig. 2).
6. Visually align all others while tightening remaining tips, ensuring a flat profile across all tips. Check with a straightedge. When finished, all tips should move freely without catching on the next tip and have no gaps larger than 1mm (approximate thickness of a credit card).
7. Repeat Steps 3, 5 and 6 for second cartridge, making sure to keep the tip height gauge locked in place so that both cartridges will be aligned when assembled to the pole.



DO NOT RESET TIP HEIGHT GAUGE WHEN SWITCHING TO SECOND CARTRIDGE

Section 4.4 - Cartridge Replacement Instructions

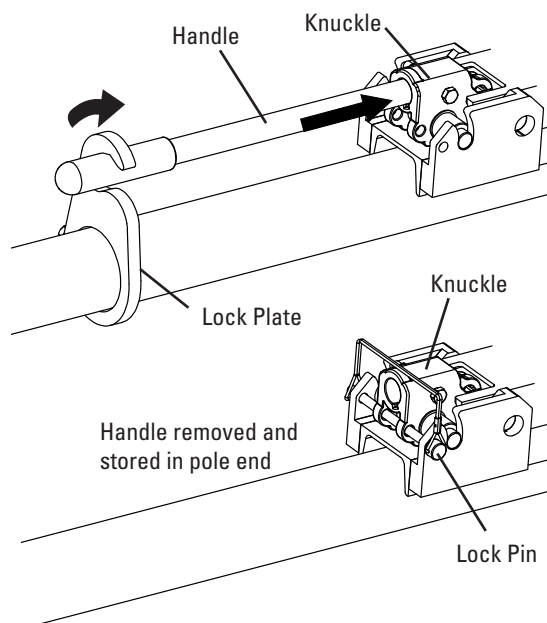
5. Insert the reconditioned or replacement cartridge.

Option A: Handle always on cartridge.

1. Slide the cartridge onto the pole and lock down the knuckle onto the pole.
2. Slide the lock plate onto the pole, over the handle, then lock with the set screw.
3. If using dual cartridge, repeat for other side.

Option B: Handle stored inside pole.

1. Set the cartridge onto the pole, then slide the handle into the already installed knuckle.
2. Lock down the knuckle onto the pole, then remove handle and place into open pole end.
3. Using the lock pins provided, lock the knuckle and the handle in place.
4. If using dual cartridge, repeat for other side.

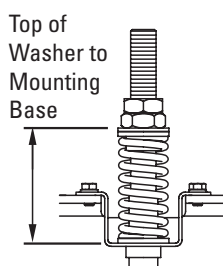


6. Retension the cleaner tips to the belt. Turn the tension nuts until the correct spring length is reached for your blade width. See Spring Length Charts at right (or on the cleaner).

Spring Length Chart for SST Spring Tensioner

BLADE WIDTH	WHITE SPRING	SILVER SPRING	BLACK SPRING
600mm	78mm	99mm	N/A
750mm	72mm	97mm	N/A
900mm	N/A	94mm	98mm
1050mm	N/A	91mm	95mm
1200mm	N/A	88mm	93mm
1350mm	N/A	86mm	91mm
1500mm	N/A	83mm	89mm
1800mm	N/A	N/A	84mm

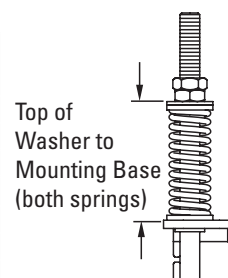
Shading indicates preferred spring option



Spring Length Chart for CST Spring Tensioner

BLADE WIDTH	WHITE SPRING	SILVER SPRING	BLACK SPRING	GOLD SPRING
600mm	78mm	99mm	N/A	N/A
750mm	72mm	97mm	N/A	N/A
900mm	N/A	94mm	98mm	N/A
1050mm	N/A	91mm	95mm	N/A
1200mm	N/A	88mm	93mm	N/A
1350mm	N/A	86mm	91mm	N/A
1500mm	N/A	83mm	89mm	103mm
1800mm	N/A	N/A	84mm	101mm
2100mm	N/A	N/A	80mm	99mm
2400mm	N/A	N/A	N/A	97mm
3000mm	N/A	N/A	N/A	93mm

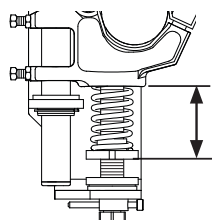
Shading indicates preferred spring option



MST Tensioner Spring Length Chart

Blade Width	2 White Springs	2 Silver Springs	2 Black Springs
mm	mm	mm	mm
450	73	86	89
600	67	86	86
750	60	83	86
900	54	79	83
1050	48	76	79
1200	N/A	73	79
1350	N/A	73	76
1500	N/A	70	73
1800	N/A	64	70

Shading indicates preferred spring option.

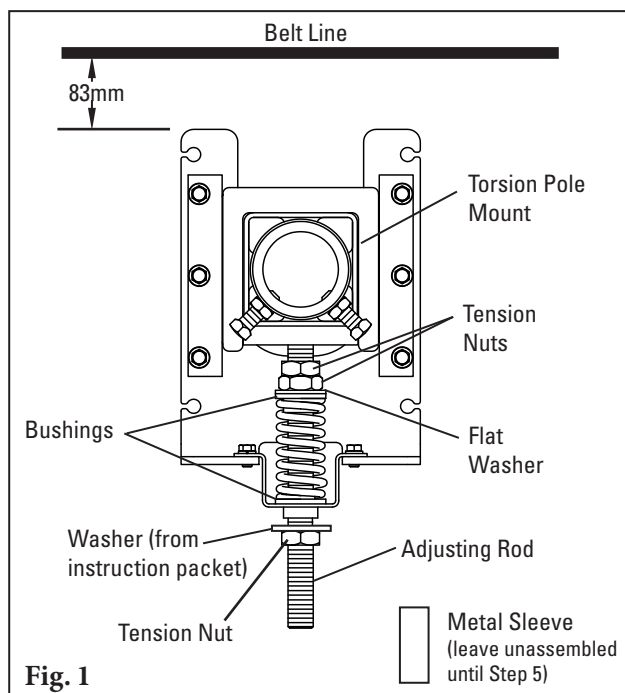


Bottom of Pole Mount to Bottom of Spring Support Plate

7. Test run the cleaner and inspect the cleaning performance. If vibration occurs or more cleaning efficiency is desired, increase the blade tension by making 3mm compression adjustments on the tension springs.

Section 4.5 - Push-up Tensioning Instructions

For SST Tensioner/Single-Side Access Only



1. **Reconfigure the standard pull-up tensioner to the push-up style.** Remove the 3 tension nuts, the flat washer, 2 bushings, the spring, the sleeve and the hat bracket; reassemble (Fig. 1) with 2 tension nuts, the flat washer, 2 bushings, the spring and the hat bracket on the upper end of the adjusting rod. Add washer (from instruction packet) and 3rd tension nut to bottom of adjusting rod.

2. **Install the tensioner mounting bases.** Mount the bases to the structure or chute so that the tops of the base legs are 83mm below the belt (Fig. 1).

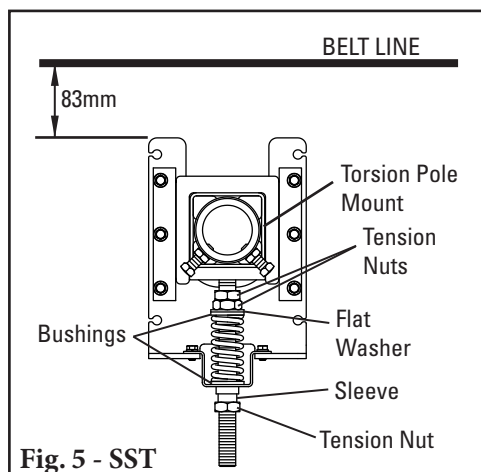
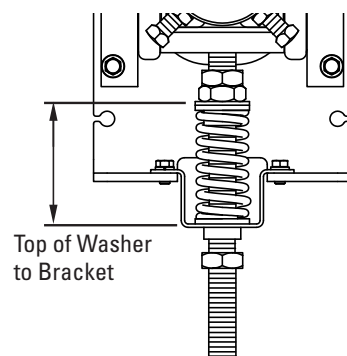
3. **Install the cleaner pole and set the blade angle.** Follow the installation steps from the cleaner instructions on Page 8 . **Note:** be sure the lock bolts on the torsion pole mount have been securely tightened to lock the pole in place before moving to Step 4.

4. **Set the blade tension.** Remove the bottom tension nut and washer from the adjusting rod. Turn the 2 upper tension nuts until the spring is compressed to the length shown on the Spring Length Chart at right. Tighten the 2 tension nuts together to prevent loosening.

Spring Length Chart for SST Spring Tensioner

BLADE WIDTH	WHITE SPRING	SILVER SPRING	BLACK SPRING
600mm	78mm	99mm	N/A
750mm	72mm	97mm	N/A
900mm	N/A	94mm	98mm
1050mm	N/A	91mm	95mm
1200mm	N/A	88mm	93mm
1350mm	N/A	86mm	91mm
1500mm	N/A	83mm	89mm
1800mm	N/A	N/A	84mm

Shading indicates preferred spring option



5. **Replace the sleeve.** Position the sleeve over the adjusting rod and turn it until it is in the middle of the bushing. Replace the bottom tension nut and tighten until it locks the sleeve in place (Fig. 5).

Section 5 - Pre-Operation Checklist and Testing

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

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 MHS ESAC HD Belt 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 should look for:

- If spring length is the correct length for optimal tensioning
- If belt looks clean or if there are areas that are dirty
- If 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 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
- Significant signs of carryback

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.
- 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 ones on Page 11.
- When maintenance tasks are completed, test run the conveyor to ensure the cleaner is performing properly

Section 6 - Maintenance

6.4 Maintenance Log

Conveyor Name/No. _____

Date: _____

Work done by: _____

Service Quote # _____

Activity: _____

Date: _____

Work done by: _____

Service Quote # _____

Activity: _____

Date: _____

Work done by: _____

Service Quote # _____

Activity: _____

Date: _____

Work done by: _____

Service Quote # _____

Activity: _____

Date: _____

Work done by: _____

Service Quote # _____

Activity: _____

Date: _____

Work done by: _____

Service Quote # _____

Activity: _____

Date: _____

Work done by: _____

Service Quote # _____

Activity: _____

Section 6 - Maintenance

6.5 Cleaner Maintenance Checklist

Belt Cleaner: _____ Serial Number: _____

Beltline Information:

Beltline Number: _____ Belt Condition: _____

Belt Width: ☐ 600mm ☐ 750mm ☐ 900mm ☐ 1050mm ☐ 1200mm ☐ 1350mm ☐ 1500mm ☐ 1800mm ☐ 2100mm ☐ 2400mm ☐ 3000mm

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 blades installed: _____ Date blades inspected: _____ Estimated blade life: _____

Are blades making complete contact with belt? ☐ Yes ☐ No

Blade wear: 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: ☐ Slide 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
Vibration	Cleaner secure bolts not set	Ensure all locking nuts are tight (Loctite)
	Cleaner not set up correctly	Ensure cleaner set up properly (check tip angle with gauge)
	Belt tension too high	Ensure cleaner can conform to belt, or replace with alternate Flexco secondary cleaner
	Belt flap	Introduce hold-down roller to flatten belt
	Cleaner over-tensioned	Ensure cleaner is correctly tensioned
	Cleaner under-tensioned	Ensure cleaner is correctly tensioned
Material buildup on cleaner	Cleaner not set up correctly	Ensure cleaner set up properly (1°-3° into belt)
	Buildup on chute	Ensure cleaner is not located too close to back of chute, allowing buildup
	Cleaner being overburdened	Introduce Flexco precleaner
	Excessive sticky material	Frequently clean unit of buildup
Damaged belt cover	Cleaner over-tensioned	Ensure cleaner is correctly tensioned
	Cleaner blade damage	Check blade for wear, damage and chips, replace where necessary
	Attack angle not correct	Ensure cleaner set up properly (check tip angle with gauge)
	Material buildup in chute	Frequently clean unit of buildup
Cleaner not conforming to belt	Cleaner not set up correctly	Ensure cleaner set up properly (check tip angle with gauge)
	Belt tension too high	Ensure cleaner can conform to belt (introduce hold-down roller), or replace with alternate Flexco secondary cleaner
	Belt flap	Introduce hold-down roller to flatten belt
	Cleaner cannot conform	Ensure cleaner can conform to belt (introduce hold-down roller), or replace with alternate Flexco secondary cleaner
Material passing cleaner	Cleaner not set up correctly	Ensure cleaner set up properly (check tip angle with gauge)
	Cleaner tension too low	Ensure cleaner is correctly tensioned
	Cleaner blades worn/damaged	Check blades for wear, damage and chips, replace where necessary
	Cleaner being overburdened	Introduce Flexco precleaner
	Belt flap	Introduce hold-down roller to flatten belt
	Belt worn or grooved	Introduce water spray pole
	Cleaner cannot conform	Ensure cleaner can conform to belt (introduce hold-down roller), or replace with alternate Flexco secondary cleaner
Damage to mechanical fastener	Incorrect cleaner blade selection	Change blade type to accommodate fastener style (C-Tip or V-Tip)
	Belt not skived correctly	Spot and redo splice correctly, lowering the profile flush or below belt surface
	Blade angle incorrect	Reset with gauge
Missing material in belt center only	Cupped Belt	Install hold-down roller and reset blade angle with gauge
	Cleaner blade worn/damaged	Check blade for wear, damage and chips, replace where necessary
Missing material on outer edges only	Cupped Belt	Install hold-down roller and reset blade angle with gauge
	Cleaner blade worn/damaged	Check blade for wear, damage and chips, replace where necessary

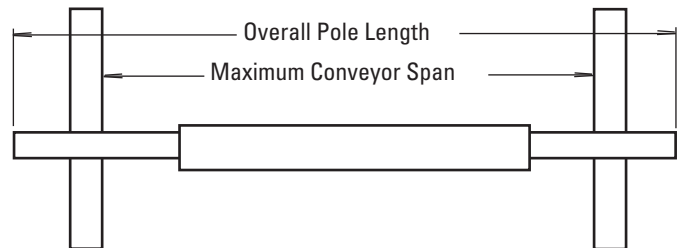
Section 8 - Specs and CAD Drawings

8.1 Specs and Guidelines

Pole Length Specifications*

VERSION	CLEANER SIZE	BLADE WIDTH	POLE LENGTH	MAXIMUM CONVEYOR SPAN
	mm	mm	mm	mm
Single	600	600	1950	1650
	750	750	2100	1800
	900	900	2250	1950
	1050	1050	2400	2100
	1200	1200	2550	2250
	1350	1350	2700	2400
	1500	1500	2850	2550
	1800	1800	3150	2850
Dual	1500	1500	3000	2700
	1800	1800	3300	3000
	2100	2100	3600	3300
	2400	2400	3900	3600
	3000	3000	4500	4200

*For special extra long pole length requirements a Pole Extender Kit (#76024) is available that provides 750mm of extended pole length. Pole Diameter - 73mm



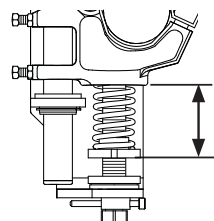
Clearance Guidelines for Installation

VERSION	HORIZONTAL CLEARANCE REQUIRED	VERTICAL CLEARANCE REQUIRED
	mm	mm
Single	114	279
Dual	114	318

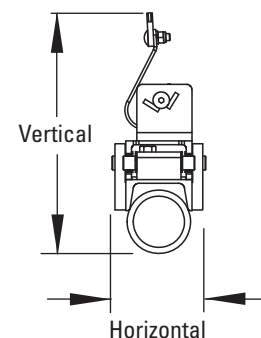
MST Tensioner Spring Length Chart

Blade Width	2 White Springs	2 Silver Springs	2 Black Springs
mm	mm	mm	mm
450	73	86	89
600	67	86	86
750	60	83	86
900	54	79	83
1050	48	76	79
1200	N/A	73	79
1350	N/A	73	76
1500	N/A	70	73
1800	N/A	64	70

Shading indicates preferred spring option.



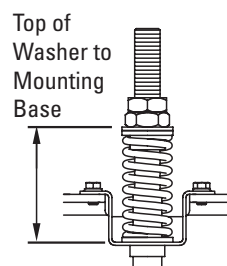
Bottom of Pole Mount to Bottom of Spring Support Plate



Spring Length Chart for SST Spring Tensioner

BLADE WIDTH	WHITE SPRING	SILVER SPRING	BLACK SPRING
600mm	78mm	99mm	N/A
750mm	72mm	97mm	N/A
900mm	N/A	94mm	98mm
1050mm	N/A	91mm	95mm
1200mm	N/A	88mm	93mm
1350mm	N/A	86mm	91mm
1500mm	N/A	83mm	89mm
1800mm	N/A	N/A	84mm

Shading indicates preferred spring option

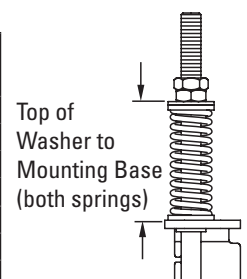


Top of Washer to Mounting Base

Spring Length Chart for CST Spring Tensioner

BLADE WIDTH	WHITE SPRING	SILVER SPRING	BLACK SPRING	GOLD SPRING
600mm	78mm	99mm	N/A	N/A
750mm	72mm	97mm	N/A	N/A
900mm	N/A	94mm	98mm	N/A
1050mm	N/A	91mm	95mm	N/A
1200mm	N/A	88mm	93mm	N/A
1350mm	N/A	86mm	91mm	N/A
1500mm	N/A	83mm	89mm	103mm
1800mm	N/A	N/A	84mm	101mm
2100mm	N/A	N/A	80mm	99mm
2400mm	N/A	N/A	N/A	97mm
3000mm	N/A	N/A	N/A	93mm

Shading indicates preferred spring option



Top of Washer to Mounting Base (both springs)

Specifications:

- Maximum Belt Speed6M/sec
- Temperature Rating-35°C to 82°C
- Useable Blade Wear Length9mm
- Blade Materials.....C-Tip: Impact Resistant Tungsten Carbide (works with mechanical fasteners)
V-Tip: Long Life Tungsten Carbide (for vulcanized belts only)
- Available for Belt Widths.....600 to 3000 mm. Other sizes available upon request.

Patent Pending

8.2 CAD Drawing - MHS SAC with C-Tips - Single Cartridge

Technical drawing of a pole assembly, showing three views: a side view, a top view, and a cross-section view.

Side View Dimensions:

- POLE LENGTH 'B'
- BELT WIDTH 'A'
- BELT WIDTH+5" (125 mm) MIN
- BELT WIDTH+42" (1050 mm) MAX
- [75] 3
- [73] $\phi 2.88$

Top View Dimensions:

- [25]
- [38] 1.50
- [76] 3.00
- [330] 13.00
- [254] 10.00
- [14] $\phi .56$
- [216] 8.50

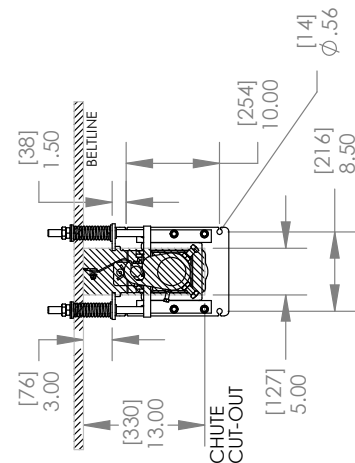
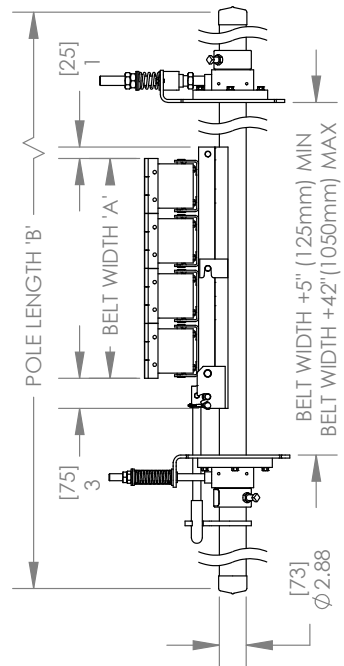
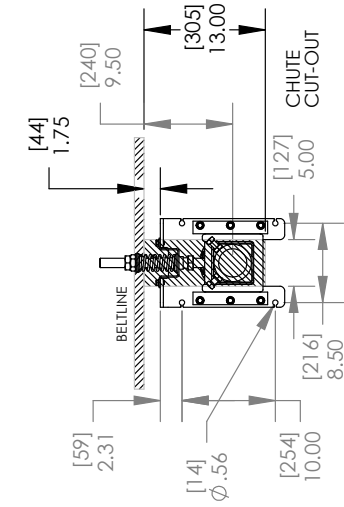
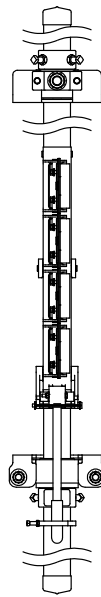
Cross-section View Dimensions:

- [44] 1.75
- [240] 9.46
- [330] 13.00
- [127] 5.00
- [59] 2.31
- [14] $\phi .56$
- [254] 10.00
- [216] 8.50
- BELT LINE
- CHUTE CUT-OUT

Section 8 - Specs and CAD Drawings

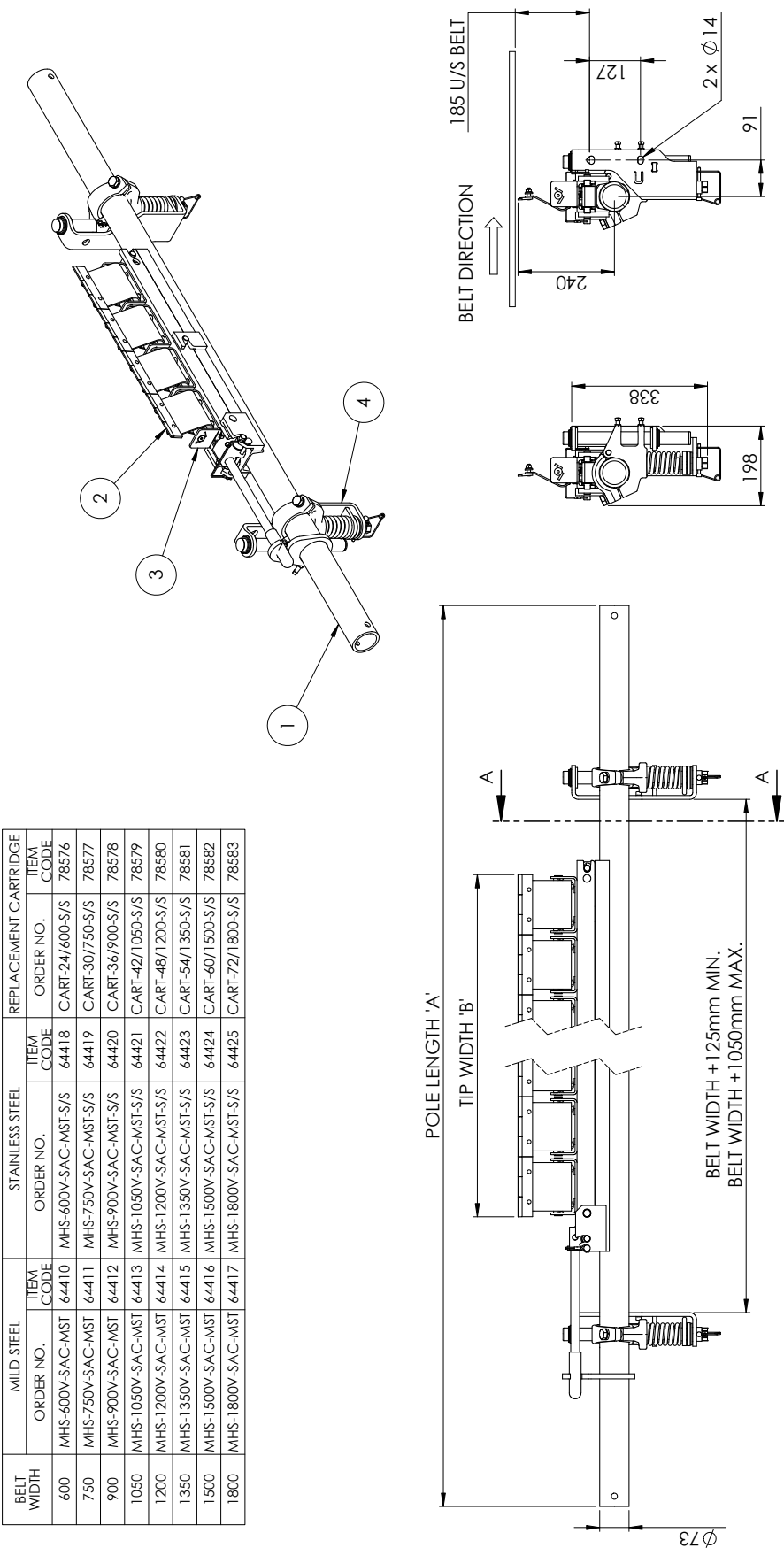
8.3 CAD Drawing - MHS SAC with V-Tips - Single Cartridge

SPECIFICATIONS			SAC MHS V CLEANER		SA CARTRIDGE POLE		SA CARTRIDGE	
BELT WIDTH 'A' (in)	BELT WIDTH 'A' (mm)	POLE LENGTH 'B' (in)	POLE LENGTH 'B' (mm)	# OF BLADES	ORDER NUMBER	ITEM CODE	ORDER NUMBER	ITEM CODE
24	600	78	1981	4	MHS-24V-ESAC	77853	SACPL-24/600	77887
30	700	84	2133	5	MHS-30V-ESAC	77854	SACPL-30/750	77888
36	900	90	2286	6	MHS-36V-ESAC	77855	SACPL-36/900	77889
42	1050	96	2438	7	MHS-42V-ESAC	77856	SACPL-42/1050	77890
48	1200	102	2590	8	MHS-48V-ESAC	77857	SACPL-48/1200	77891
54	1350	108	2743	9	MHS-54V-ESAC	77858	SACPL-54/1350	77892
60	1500	114	2895	10	MHS-60V-ESAC	77859	SACPL-60/1500	77893
72	1800	126	3200	12	MHS-72V-ESAC	77860	SACPL-72/1800	77894



Section 8 - Specs and CAD Drawings

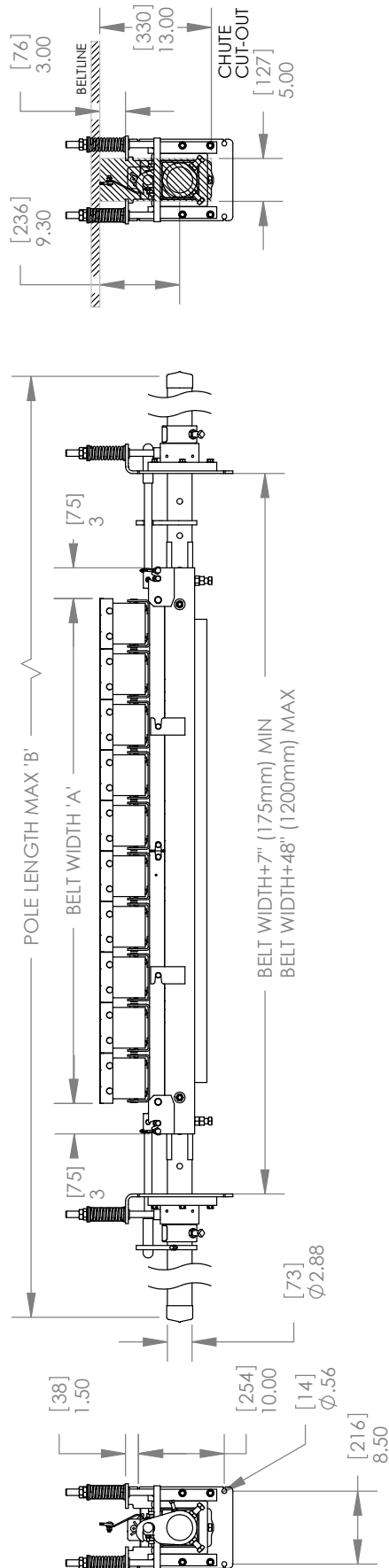
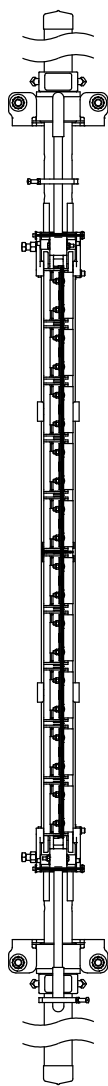
8.4 CAD Drawing - MHS ESAC with MST Tensioner



Section 8 - Specs and CAD Drawings

8.5 CAD Drawing - MHS SAC with C-Tips - Dual Cartridge

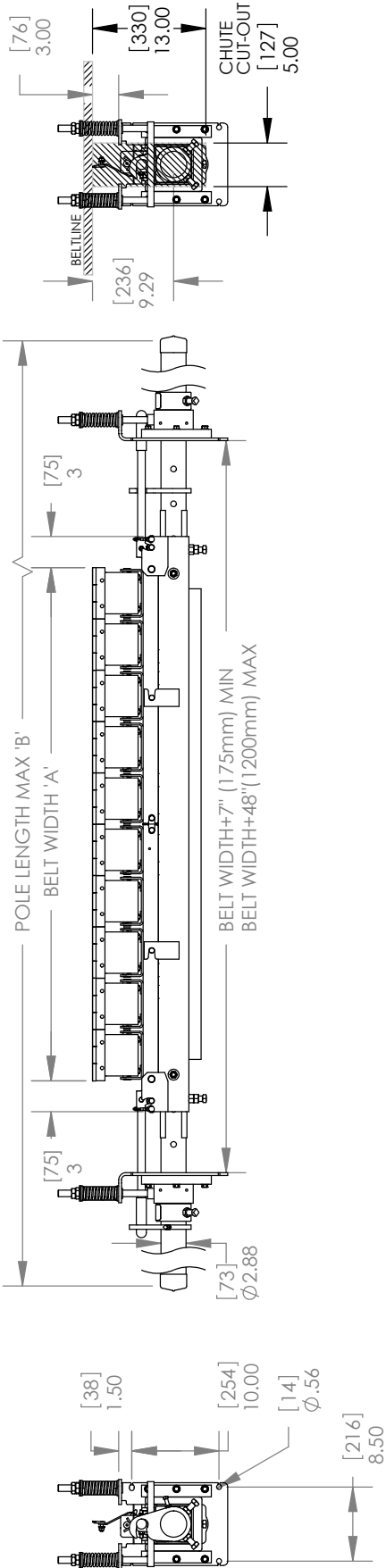
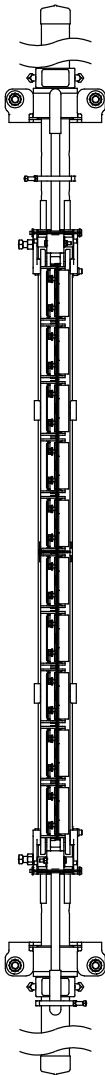
SPECIFICATIONS			SAC MHS C CLEANER		SAC CENTER POLE		SA CARTRIDGE SET	
BELT WIDTH 'A' (in)	MAX POLE LENGTH 'B' (in)	# OF BLADES	ORDER NUMBER	ITEM CODE	ORDER NUMBER	ITEM CODE	ORDER NUMBER	ITEM CODE
60	120	10	MHS-60-E2SAC	77848	SACPL2-60/1500	77895	CART2-60/1500	77908
72	1800	132	MHS-72-E2SAC	77849	SACPL-72/1800	77896	CART2-72/1800	77909
84	2100	144	MHS-84-E2SAC	77850	SACPL-84/2100	77897	CART2-84/2100	77910
96	2400	156	MHS-96-E2SAC	77851	SACPL-96/2400	77898	CART2-96/2400	77911
120	3000	180	MHS-120-E2SAC	77852	SACPL-120/3000	77899	CART2-120/3000	77912



Section 8 - Specs and CAD Drawings

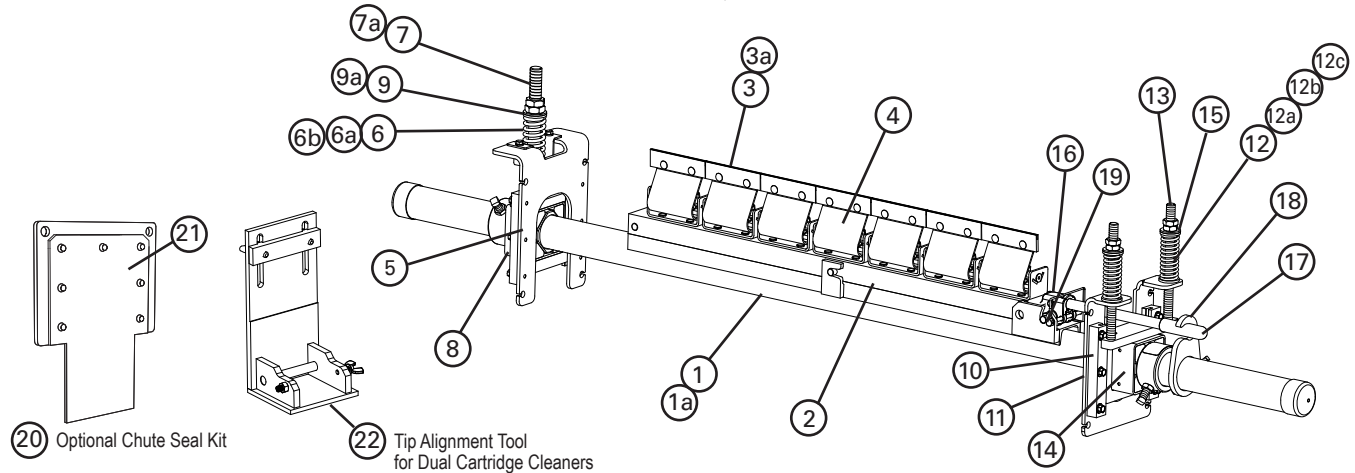
8.6 CAD Drawing - MHS SAC with V-Tips - Dual Cartridge

SPECIFICATIONS				SAC MHS V CLEANER		SAC CENTER POLE		SA CARTRIDGE SET	
BELT WIDTH 'A' (in)	MAX POLE LENGTH 'B' (mm)		# OF BLADES	ORDER NUMBER	ITEM CODE	ORDER NUMBER	ITEM CODE	ORDER NUMBER	ITEM CODE
60	1500	120	3000	MHS-60V-E2SAC	77861	SACPL2-60/1500	77895	CART2-60/1500	77908
72	1800	132	3300	MHS-72V-E2SAC	77862	SACPL-72/1800	77896	CART2-72/1800	77909
84	2100	144	3600	MHS-84V-E2SAC	77863	SACPL-84/2100	77897	CART2-84/2100	77910
96	2400	156	3900	MHS-96V-E2SAC	77864	SACPL-96/2400	77898	CART2-96/2400	77911
120	3000	180	4500	MHS-120V-E2SAC	77865	SACPL-120/3000	77899	CART2-120/3000	77912



Section 9 - Replacement Parts

9.1 MHS SAC HD Mild Steel Secondary Cleaners



Replacement Parts

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	Wt. kgs.
1	SAC Cartridge Pole 600 mm	SACPL-24/600	77887	29.7
	SAC Cartridge Pole 750 mm	SACPL-30/750	77888	32.3
	SAC Cartridge Pole 900 mm	SACPL-36/900	77889	35.0
	SAC Cartridge Pole 1050 mm	SACPL-42/1050	77890	37.6
	SAC Cartridge Pole 1200 mm	SACPL-48/1200	77891	40.3
	SAC Cartridge Pole 1350 mm	SACPL-54/1350	77892	42.9
	SAC Cartridge Pole 1500 mm	SACPL-60/1500	77893	45.6
	SAC Cartridge Pole 1800 mm	SACPL-72/1800	77894	50.9
	SAC Cartridge Center Pole 1500 mm (Dual)	SACPL2-60/1500	77895	35.1
	SAC Cartridge Center Pole 1800 mm (Dual)	SACPL2-72/1800	77896	40.6
	SAC Cartridge Center Pole 2100 mm (Dual)	SACPL2-84/2100	77897	46.2
	SAC Cartridge Center Pole 2400 mm (Dual)	SACPL2-96/2400	77898	51.8
	SAC Cartridge Center Pole 3000 mm (Dual)	SACPL2-120/3000	77899	64.5
1a	Extender Pole (for use with Dual Cartridge Center Pole)	MHP-EP	76392	24.5
2	SAC Cartridge 600 mm	CART-24/600	77900	1.6
	SAC Cartridge 750 mm	CART-30/750	77901	2.0
	SAC Cartridge 900 mm	CART-36/900	77902	2.3
	SAC Cartridge 1050 mm	CART-42/1050	77903	2.7
	SAC Cartridge 1200 mm	CART-48/1200	77904	3.0
	SAC Cartridge 1350 mm	CART-54/1350	77905	3.4
	SAC Cartridge 1500 mm	CART-60/1500	77906	3.8
	SAC Cartridge 1800 mm	CART-72/1800	77907	4.5
	SAC Cartridge 1500 mm (Dual)	CART2-60/1500	77908	3.9
	SAC Cartridge 1800 mm (Dual)	CART2-72/1800	77909	4.6
	SAC Cartridge 2100 mm (Dual)	CART2-84/2100	77910	5.3
	SAC Cartridge 2400 mm (Dual)	CART2-96/2400	77911	6.0
	SAC Cartridge 3000 mm (Dual)	CART2-120/3000	77912	7.6
3	C-Tip*	CT6	74535	0.3
3a	V-Tip* (for vulcanized belts only)	RSA150	73628	0.6
4	PowerFlex™ Cushion*	SPFC	78701	1.9
5	SST HD Mounting Base Kit* (includes 1 mounting base and 2 slide guides)	SSTHDMK	77870	4.6
6	SST Spring - White (1 ea.) for belts 450-750 mm	STS-W	75846	0.2
6a	SST Spring - Silver (1 ea.) for belts 900-1200 mm	STS-S	75843	0.4
6b	SST Spring - Black (1 ea.) for belts 1350-2100 mm	STS-B	75844	0.5
7	SST Adj Rod Kit* (incl. 1 rod, 2 nuts, 2 bushings, 1 washer) for belts 450-1500 mm	STAK	75847	1.3
7a	SST HD Adj Rod Kit* (incl. 1 rod, 2 nuts, 2 HD bushings, 1 washer) for belts 1800-2100 mm	STAKHD	75892	1.4
8	SST HD Torsion Pole Mount* (1 ea.)	SSTHDPM	77868	6.8

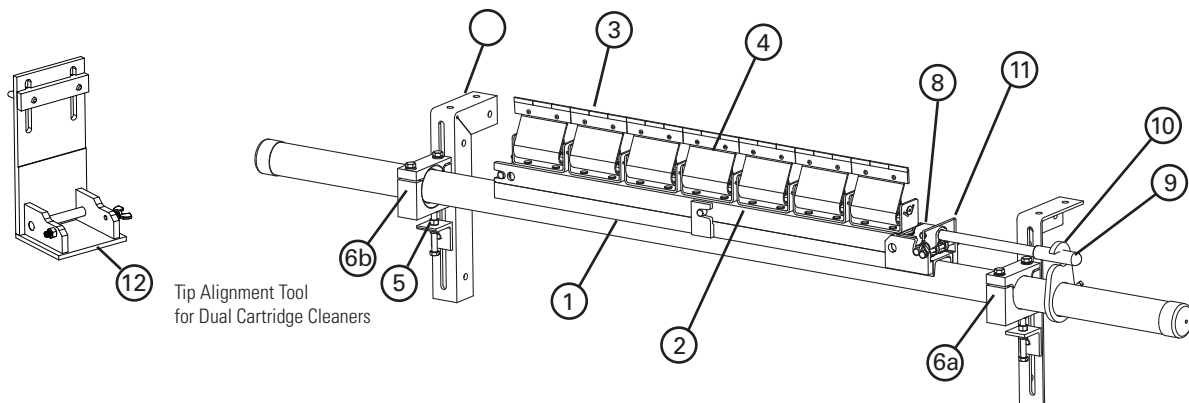
REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	Wt. kgs.
9	SST Bushing Kit - White/Silver	SSTBK-W	76636	0.1
9a	SST Bushing Kit - Black	SSTBK-B	76637	0.1
10	ST Slide Guide Kit	STGK2	77867	0.5
-	SST HD Cartridge Tensioner - White (includes 1 ea. item 5, 6, 7, 8) for belts 450-750 mm	SST1HDM-W	78517	13.7
-	SST HD Cartridge Tensioner - Silver (includes 1 ea. item 5, 6a, 7, 8) for belts 900-1200 mm	SST1HDM-S	78518	13.9
-	SST HD Cartridge Tensioner - Black (includes 1 ea. item 5, 6b, 7a, 8) for belts 1350-2100 mm	SST1HDM-B	78519	14.1
11	CST HD Mounting Base Kit*	CSTHDMK	77871	3.9
12	CST Spring - White (1 ea.) for belts 450-750 mm	CTS-W	77742	0.2
12a	CST Spring - Silver (1 ea.) for belts 900-1200 mm	CTS-S	77743	0.2
12b	CST Spring - Black (1 ea.) for belts 1350-2100 mm	CTS-B	77744	0.3
12c	CST Spring - Gold (1 ea.) for belts 2400-3000 mm	CTS-G	77745	0.4
13	CST Adj Rod Kit (incl. 2 rods, 4 nuts, 4 bushings, 2 washers)	CSTAK	77031	1.5
14	CST HD Torsion Pole Mount* (1 ea.)	CSTHDPM	77869	7.4
15	CST Bushing Kit (includes 4 bushings)	CSTBK	77037	0.0
-	CST HD Cartridge Tensioner - White (incl. 1 ea. item 11, 13, 14 and 2 ea. item 12) for belts 450-750 mm	CST1HDM-W	78513	13.7
-	CST HD Cartridge Tensioner - Silver (incl. 1 ea. item 11, 13, 14 and 2 ea. item 12a) for belts 900-1200 mm	CST1HDM-S	78514	13.7
-	CST HD Cartridge Tensioner - Black (includes 1 ea. item 11, 13, 14 and 2 ea. item 12b) for belts 1350-2100 mm	CST1HDM-B	78515	13.7
-	CST HD Cartridge Tensioner - Gold (includes 1 ea. item 11, 13, 14 and 2 ea. item 12c) for belts 2400-3000 mm	CST1HDM-G	78516	13.9
16	SAC Removal Knuckle	SACRKN	77882	1.5
17	SAC Removal Handle	SACRH	77883	1.4
18	SAC Handle Lock Plate	SACRHL	77884	0.8
19	Knuckle Retainer Pin	SACKRP	77885	0.1
20	SAC Chute Seal Kit	SACSK	77052	1.8
21	SAC Chute Seal Replacement Cover	SACSRC	77065	0.2
22	SAC Cartridge Tip Alignment Tool (Dual)	SAC2-TIP-TL	77866	1.1

*Hardware Included

Lead Time: 1 working day

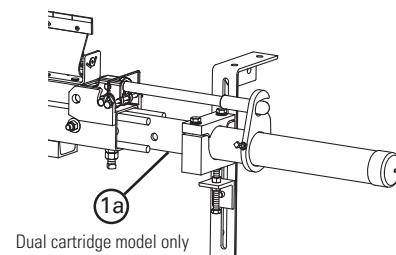
Section 9 - Replacement Parts

9.2 MHS SAC HD Stainless Steel Secondary Cleaners



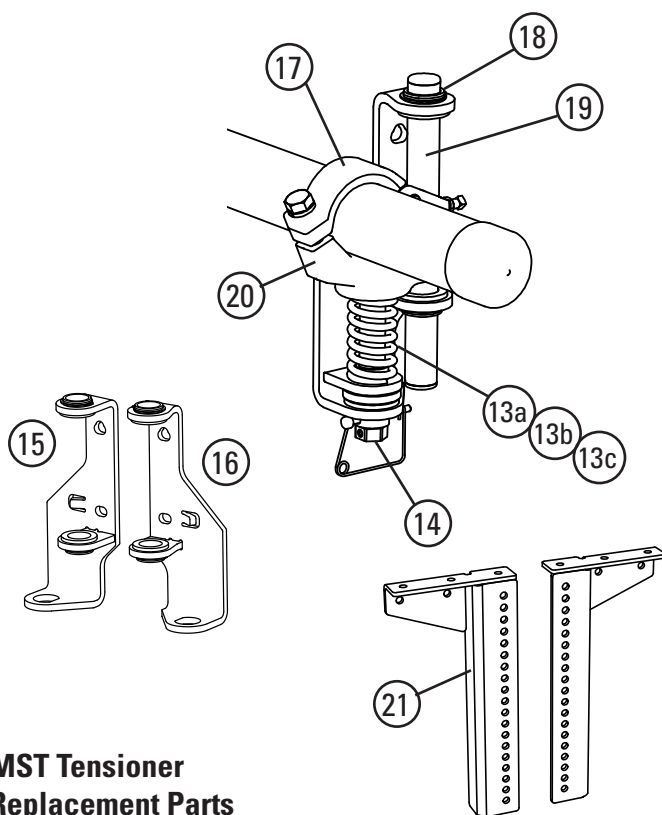
Replacement Parts

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. KGS.
1	SAC S/S Cartridge Pole 600 mm	SACPL-24/600-S/S	78371	29.7
	SAC S/S Cartridge Pole 750 mm	SACPL-30/750-S/S	78372	32.3
	SAC S/S Cartridge Pole 900 mm	SACPL-36/900-S/S	78373	35.0
	SAC S/S Cartridge Pole 1050 mm	SACPL-42/1050-S/S	78374	37.6
	SAC S/S Cartridge Pole 1200 mm	SACPL-48/1200-S/S	78375	40.3
	SAC S/S Cartridge Pole 1350 mm	SACPL-54/1350-S/S	78376	42.9
	SAC S/S Cartridge Pole 1500 mm	SACPL-60/1500-S/S	78377	45.6
	SAC S/S Cartridge Pole 1800 mm	SACPL-72/1800-S/S	78378	50.9
	SAC S/S Cartridge Center Pole 1500 mm (Dual)	SACPL2-60/1500-S/S	78379	35.1
	SAC S/S Cartridge Center Pole 1800 mm (Dual)	SACPL2-72/1800-S/S	78380	40.6
	SAC S/S Cartridge Center Pole 1950 mm (Dual)	SACPL2-78/1950-S/S	78642	43.9
	SAC S/S Cartridge Center Pole 2100 mm (Dual)	SACPL2-84/2100-S/S	78381	46.2
	SAC S/S Cartridge Center Pole 2450 mm (Dual)	SACPL2-96/2450-S/S	78382	51.8
	SAC S/S Cartridge Center Pole 3000 mm (Dual)	SACPL2-120/3000-S/S	78383	64.5
1a	S/S Extender Pole (for use with S/S Dual Cartridge Center Pole)	MHP-EP-S/S	77599	24.5
2	SAC Repl Cartridge S/S 600mm	CART-24/600-S/S	78576	4.5
	SAC Repl Cartridge S/S 750mm	CART-30/750-S/S	78577	5.6
	SAC Repl Cartridge S/S 900mm	CART-36/900-S/S	78578	6.7
	SAC Repl Cartridge S/S 1050mm	CART-42/1050-S/S	78579	7.8
	SAC Repl Cartridge S/S 1200mm	CART-48/1200-S/S	78580	8.9
	SAC Repl Cartridge S/S 1350mm	CART-54/1350-S/S	78581	10.0
	SAC Repl Cartridge S/S 1500mm	CART-60/1500-S/S	78582	11.3
	SAC Repl Cartridge S/S 1800mm	CART-72/1800-S/S	78583	13.5
	SAC Repl Cartridge S/S 1500mm (Dual)	CART2-60/1500-S/S	78584	11.2
	SAC Repl Cartridge S/S 1800mm (Dual)	CART2-72/1800-S/S	78585	13.4
	SAC Repl Cartridge S/S 1950mm (Dual)	CART2-78/1950-S/S	78635	14.5
	SAC Repl Cartridge S/S 2100mm (Dual)	CART2-84/2100-S/S	78586	15.6
	SAC Repl Cartridge S/S 2400mm (Dual)	CART2-96/2400-S/S	78587	17.8
	SAC Repl Cartridge S/S 3000mm (Dual)	CART2-120/3000-S/S	78588	22.6
3	S/S V-Tip* (for vulcanised belts only)	RVT6-S/S	76205	0.4
4	PowerFlex Cushion S/S*	SPFC-SS	78702	0.9
5	P/R Adjusting Bracket S/S	PAB-S/S	75515	0.4
6a	Cradle Clamp Block RH S/S	CRDLBLK-RH-S/S	A2825	1.2
6b	Cradle Clamp Block LH S/S	CRDLBLK-LH-S/S	A2826	1.2
7a	Mounting Bracket Kit RH S/S	PMBR-S/S	75521	3.8
7b	Mounting Bracket Kit LH S/S	PMBL-S/S	75518	3.8
8	SAC Removal Knuckle	SACRKN	77882	1.5
9	SAC Removal Handle S/S	SACRH-S/S	78397	1.4
10	SAC Handle Lock Plate S/S	SACRHL-S/S	78398	0.8
11	Knuckle Retainer Pin S/S	SACKRP-S/S	78399	0.1
-	SAC Removal Kit S/S (includes 1 ea. items 8,9,10,11)	SACRKT-S/S	78401	4.1
12	SAC Cartridge Tip Alignment Tool (Dual)	SAC2-TIP-TL	77866	1.1



Section 9 - Replacement Parts

9.3 Replacement Parts List - MST Tensioner



MST Tensioner Replacement Parts

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. KG.
13a	Tension Spring - White (1 ea.) for belts 18" - 30" (450-750mm)	STS-W	75846	0.2
13b	Tension Spring - Silver (1 ea.) for belts 36" - 54" (900-1350mm)	STS-S	75843	0.4
13c	Tension Spring - Black (1 ea.) for belts 60" - 72" (1500-1800mm)	STS-B	75844	0.5
14	MST Adjusting Mechanism	MSTAM	79435	1.3
15	MST Mounting Bracket LH (incl. bushings)	MST-MBL	79436	2.6
16	MST Mounting Bracket RH (incl. bushings)	MST-MBR	79437	2.6
17	MST HD Clamp*	MSTCHD	79439	1.1
18	MST Bushing Kit (incl. 4 bushings)	MSTBK	79440	0.1
19	MST Guide Pole	MSTGT	79441	0.7
20	MST HD Pole Mount*	MSTPMHD	79451	3.3
21	MST Drop Brackets (2)	MSTDB	79434	12.6
-	MST HD Tensioner w/White Spring (incl. 1 ea. items 15, 16, 18; 2 ea. items 13a, 14, 17, 19, 20)	MSTHD-W	79431	16.7
-	MST HD Tensioner w/Silver Spring (incl. 1 ea. items 15, 16, 18; 2 ea. items 13b, 14, 17, 19, 20)	MSTHD-S	79432	17.0
-	MST HD Tensioner w/Black Spring (incl. 1 ea. items 15, 16, 18; 2 ea. items 13c, 14, 17, 19, 20)	MSTHD-B	79433	17.3

*Hardware included

Shaded items are made to order. Lead time 3 weeks.

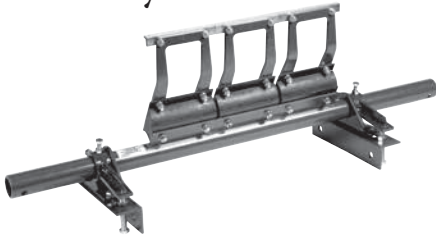
MST Spring Tensioner Selection Chart

CLEANER SIZE	79431 MSTHD-W	79432 MSTHD-S	79433 MSTHD-B
MHS 450 - 750mm	X		
MHS 900 - 1350mm		X	
MHS 1500 - 1800mm			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:

H-Type Primary Cleaner



- Works on reversing belts
- Available in power coated or stainless steel
- Optional Compression Spring Tensioner maintains uniform, constant blade tension to belt.
- Also available with long wearing polyurethane blades for use in mechanically spliced applications

Flexco Slider/Impact Beds



- * Exclusive Velocity Reduction Technology™ to better protect the belt
- * Slide-Out Service™ gives direct access to all impact bars for change-out
- * Impact bar supports for longer bar life
- * 4 models to custom fit to the application

U-Type Secondary Cleaner



- Works with mechanical splices
- Blade replacement made easy with removable plate. The job can be done in minutes
- The final cleaner in a cleaning system
- Locking Collar on tensioner allows for easy blade-to-belt setup

PT Max™ Belt Trainer



- Patented “pivot & tilt” design for superior training action
- Dual sensor rollers on each side to minimize 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 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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