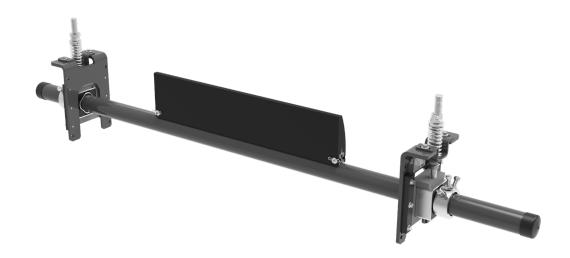
MDWS Secondary Belt Cleaner

Installation, Operation & Maintenance Manual





MDWS DryWipe Secondary Cleaner

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

Serial number information can be found on the Serial Number Label included in the Information Packet found in the cleaner carton.

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 Belt Cleaner for your conveyor system.

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

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

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

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 MDWS DryWipe 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 MDWS DryWipe 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

A 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 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.

A 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.

A DANGER

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

A 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.

A WARNING

Never adjust anything on an operating cleaner. Unforseeable 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

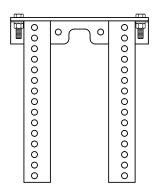
3.1 Checklist

- 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 Mounting Kits

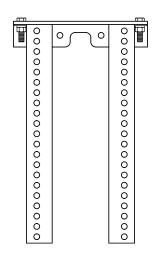
Versatile, adjustable brackets and plates that can be mounted on the conveyor structure so precleaners and secondary cleaners can be easily and quickly bolted into place. Pole extenders are also available for wide, non-standard conveyor structures.



SST Standard Mounting Bracket Kit (for SST XD Tensioner)

(Item Code: 76071)

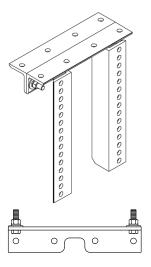
- For most secondary cleaner installs.
- 325 x 388 mm (13 x 15-1/2")



SST Long Mounting Bracket Kit (for SST XD Tensioner)

(Item Code: 76072)

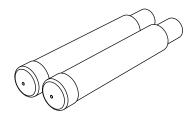
- For installations that require extra length legs.
- 325 x 538 mm (13 x 21-1/2")



SST Optional Top Angle Kit (for SST XD Tensioner)

(Item Code: 76073)

- Used with both standard and long mounting bracket kits for additional mounting options.
- 325 mm (13") Length



Pole Extender Kit (incl. 2 pole extenders)

(Item Code: 76024)

- For cleaner sizes 1800 mm (72") and larger
- Provides 750 mm (30") of extended pole length

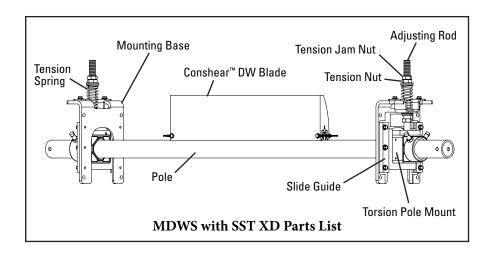
Optional Mounting Kits (includes 2 brackets/bars)

DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. KG
Standard Mounting Bracket Kit *	SSTSMB	76071	15.6
Long Mounting Bracket Kit *	SSTLMB	76072	19.7
Optional Top Angle Kit *	SSTOTA	76073	4.8
Pole Extender Kit	MAPEK	76024	9.9

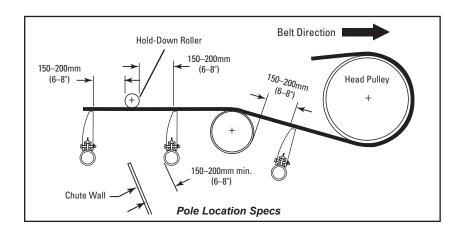
*Hardware Included Lead time: 1 working day



4.1 MDWS - SST XD Tensioner

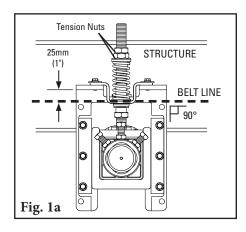


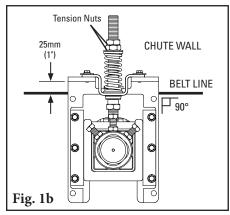
PHYSICALLY LOCK OUT AND TAG THE CONVEYOR AT THE POWER SOURCE BEFORE YOU BEGIN CLEANER INSTALLATION.



1. Install the spring tensioner mounting bases. Clamp the mounting base into position so the top flange of the base is 25 mm (1") above the belt (Fig. 1a). Bolt or weld the mounting base in place. Locate and install the mounting base on the opposite side.

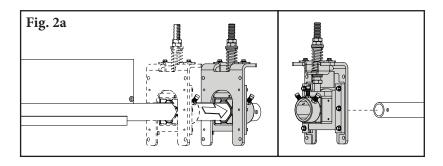
NOTE: For chute mounting, a belt location line must be drawn on the chute wall so the mounting base can be positioned 25 mm (1") above the belt (Fig. 1b). Cut access holes as needed.



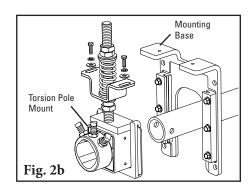


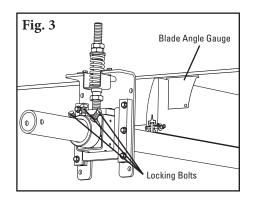
4.1 MDWS - SST XD Tensioner

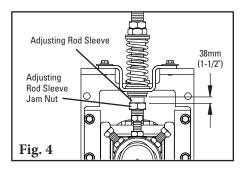
2. Install the pole. Slide the pole into one torsion pole mount as far as needed and locate the other end into the opposite mount (Fig. 2a). If there is not enough space, remove one of the torsion pole mounts from the mounting base, slide the pole through the mounting base and reassemble (Fig. 2b).



- 3. Set the blade angle. Center the pole/blade on the belt. Using the angle gauge provided, rotate the blade up to the belt to the preset angle. Tighten the three locking bolts on each torsion pole mount to lock the pole in place. Best practice is to first tighten the middle bolt before tightening the outer bolts to ensure everything is secure (Fig. 3). There should be no blade-to-belt contact while locking the pole in the correct position. If contact occurs, lower the pole by turning the adjusting rod tension nuts and reset the angle.
- **4. Set the blade tension.** Loosen the top tension jam nuts on both sides. Turn the tension nuts until the correct spring compression is reached. Spring compression is determined by spring length. See the chart above for the correct spring length for your belt width.
- **5. Set adjusting rod sleeve.** After setting the blade tension, screw the adjusting rod sleeve into the UHMW bushing until 38 mm (1-1/2") is showing (Fig. 4). Tighten the adjusting rod sleeve jam nut.
- **6.** 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 mm (1/8") compression adjustments on the tension springs.







SST XD Spring Length Chart

	nde dth		ite ings		Silver Black Springs Springs				old ings		
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.		
450	18	86	3 3/8	102	4	N/A	N/A	N/A	N/A		
600	24	79	3 1/8	98	3 7/8	N/A	N/A	N/A	N/A		
750	30	73	2 7/8	95	3 3/4	N/A	N/A	N/A	N/A		
900	36	N/A	N/A	95	3 3/4	98	3 7/8	N/A	N/A		
1050	42	N/A	N/A	92	3 5/8	95	3 3/4	N/A	N/A		
1200	48	N/A	N/A	89	3 1/2	92	3 5/8	N/A	N/A		
1350	54	N/A	N/A	86	3 3/8	92	3 5/8	95	3 3/4		
1500	60	N/A	N/A	83	3 1/4	89	3 1/2	95	3 3/4		
1800	72	N/A	N/A	N/A	N/A	86	3 3/8	92	3 5/8		
2100	84	N/A	N/A	N/A	N/A	79	3 1/8	89	3 1/2		
2400	96	N/A	N/A	N/A	N/A	N/A	N/A	86	3 3/8		
2700	108	N/A	N/A	N/A	N/A	N/A	N/A	89	3 1/2		
3000	120	N/A	N/A	N/A	N/A	N/A	N/A	86	3 3/8		

 $Shading\ indicates\ preferred\ spring\ option.$



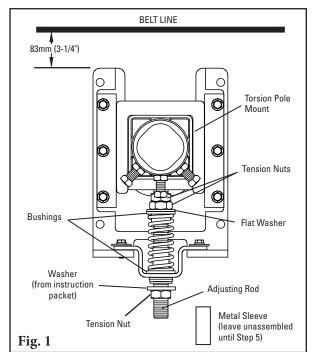


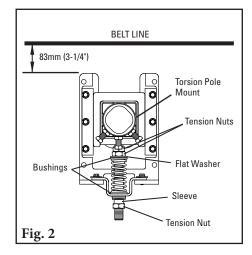
4.2 MDWS - SST XD Push-Up Tensioning

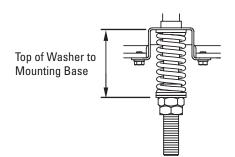
- 1. Reconfigure the standard pull-up tensioner to the push-up style. Remove the 3 tension nuts, the flat washer, 2 bushings, the spring, the sleeve and the hat bracket; reassemble (Fig. 1) with 2 tension nuts, the flat washer, 2 bushings, the spring and the hat bracket on the upper end of the adjusting 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 83 mm (3-1/4") 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 9.

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 two upper tension nuts until the spring is compressed to the length shown on the Spring Length Chart below. Tighten the two tension nuts together to prevent loosening.
- 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. 2).





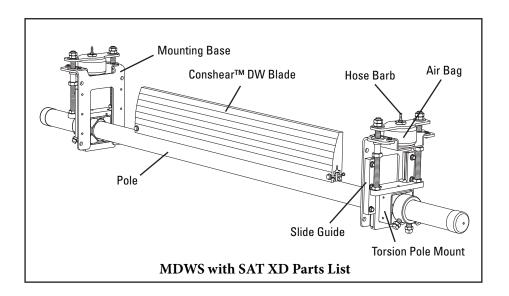


SST XD Spring Length Chart

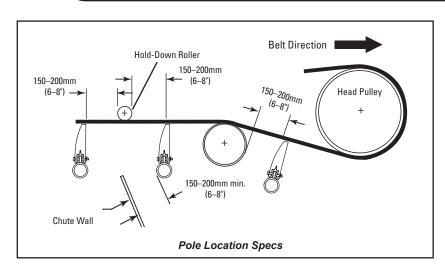
	nde dth	l .	White Springs		Silver Springs						old ings
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.		
450	18	86	3 3/8	102	4	N/A	N/A	N/A	N/A		
600	24	79	3 1/8	98	3 7/8	N/A	N/A	N/A	N/A		
750	30	73	2 7/8	95	3 3/4	N/A	N/A	N/A	N/A		
900	36	N/A	N/A	95	3 3/4	98	3 7/8	N/A	N/A		
1050	42	N/A	N/A	92	3 5/8	95	3 3/4	N/A	N/A		
1200	48	N/A	N/A	89	3 1/2	92	3 5/8	N/A	N/A		
1350	54	N/A	N/A	86	3 3/8	92	3 5/8	95	3 3/4		
1500	60	N/A	N/A	83	3 1/4	89	3 1/2	95	3 3/4		
1800	72	N/A	N/A	N/A	N/A	86	3 3/8	92	3 5/8		
2100	84	N/A	N/A	N/A	N/A	79	3 1/8	89	3 1/2		
2400	96	N/A	N/A	N/A	N/A	N/A	N/A	86	3 3/8		
2700	108	N/A	N/A	N/A	N/A	N/A	N/A	89	3 1/2		
3000	120	N/A	N/A	N/A	N/A	N/A	N/A	86	3 3/8		

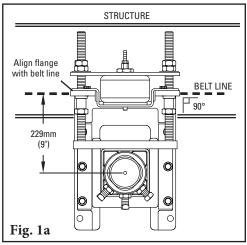
Shading indicates preferred spring option.

4.3 MDWS - SAT XD Tensioner



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

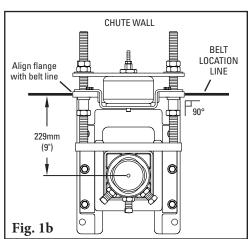




1. Install the air/water tensioner mounting bases. Clamp the mounting base into position so the top flange is even with the belt (Fig. 1a). Bolt the mounting base in place. Locate and install the mounting base on the opposite side.

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

NOTE: If push-up tensioning is needed because of space restriction or obstruction, follow steps on Page 13 to reconfigure the tensioners.



4.3 MDWS - SAT XD Tensioner

2. Install the pole. Slide the pole into one torsion pole mount as far as needed and locate the other end into the opposite mount (Fig. 2). If there is not enough space, remove one of the mounting bases, slide the pole through the torsion pole mount, and remount the base.

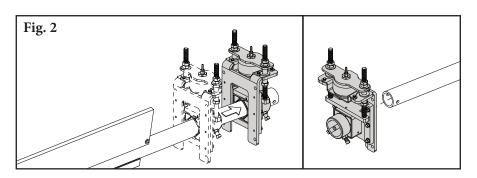


Fig. 3a

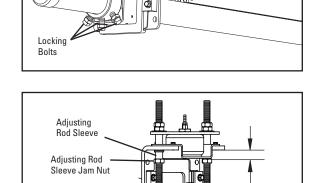
Fig. 4

- 3. Set the blade angle. Center the pole/blade on the belt. Rotate the pole until the blade is perpendicular to the belt, using the blade setup gauge provided (Fig. 3a). Tighten the three locking bolts on each torsion pole mount to lock the pole in place. Best practice is to first tighten the middle bolt before tightening the outer bolts to ensure everything is secure (Fig. 3b). 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.
- **4. Set adjusting rod sleeve.** After setting the blade tension, screw the adjusting rod sleeve into the UHMW bushing until 38 mm (1-1/2") is showing (Fig. 4). Tighten the adjusting rod sleeve jam nut.
- 5. Connect the supply lines and set tension pressure. With the parts supplied, attach a line to each air bag and run the lines to the outlet side of the control box (Fig. 5).

NOTE: Be sure lines are safely away from the belt. Connect the line from the inlet side of the box to the site's supply or air tank. Test the connections for leaks and set the pressure per the chart

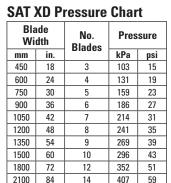
below. Pressure may be reduced to suit application.

6. Test run the cleaner and inspect the cleaning performance. If vibration occurs, increase tip layback by a small amount (approx. 3 degrees).



Belt Direction

38mm (1-1/2")

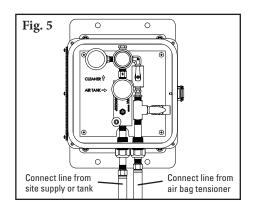


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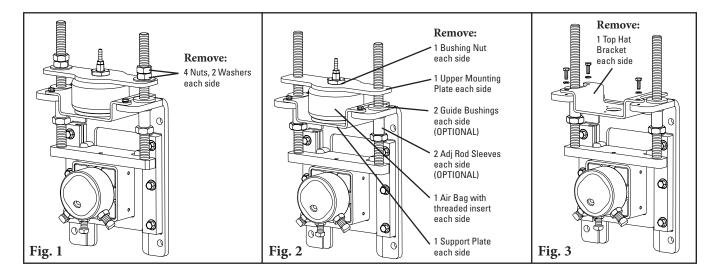
2400

96

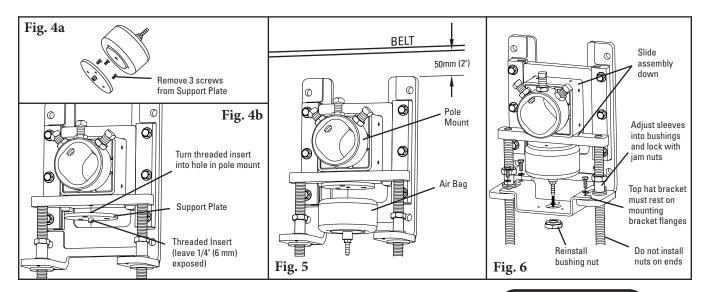


4.4 MDWS - SAT XD Push-Up Tensioning

- 1. Disassemble guide kit. Remove nuts and washers from both sides of tensioner (Fig. 1).
- Disassemble upper mounting plate and air bag. Remove and save bushing nut. Remove and discard upper mounting plate. Remove (unscrew) and save air bag, threaded insert and support plate (Fig. 2).
 Optional: Remove guide bushings and adjusting rod sleeves. It will not affect the tensioner if left in place.
- 3. Remove and save top hat bracket and its hardware (Fig. 3).
- 4. Flip over PAT mounting bracket assembly. The two flanges are now at the bottom.



- 5. Reassemble the SAT XD Tensioner. Remove three screws from air bag support plate (Fig. 4a). Turn the threaded insert into the support plate. Also turn part of the threaded insert into the hole on pole mount. (Fig. 4b). Ensure 6 mm (1/4") of threaded insert is still exposed, then turn the air bag onto the threaded insert and tighten (Fig. 5).
- **6. Reassemble top hat bracket.** Ensure bracket is resting on flanges of mounting bracket. Screw sleeves into bushings and tighten locknuts (Fig. 6).
- 7. **Slide pole mount/threaded rods/air bag assembly down** with hose barb through hole in top hat bracket and reinstall bushing nut (Fig. 6).
- **8.** Complete installation by following the steps on page 12.



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 MDWS DryWipe 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 spring gap is correct 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.
- When maintenance tasks are completed, test run the conveyor to ensure the cleaner is performing properly.

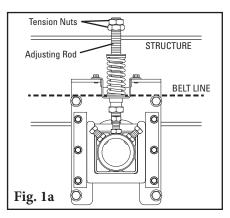


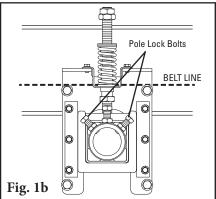
6.4 Blade Replacement Instructions

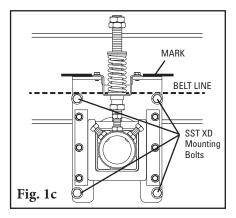
Physically lock out and tag the conveyor at the power source before you begin blade installation.

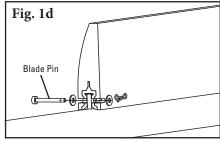
1. Release the blade tension and remove worn blade tips.

- **a.** Loosen the tension nuts on both tensioners to the top of the adjusting rod (Fig. 1a). If using air tensioner, release air pressure. If accessible, remove blade pins from the blade and remove the worn blade (Fig. 1d).
- **b.** Loosen the pole lock bolts on both ends (Fig. 1b) and allow the blade to rotate downward. If accessible, remove the blade pins from the blade and remove the blade (Fig. 1d).
- c. Make a mark on the structure or mounting bracket above one SST XD/SAT XD tensioner. Remove the SST XD/SAT XD mounting bolts, nuts, and washers from one tensioner (Fig. 1c) then remove the tensioner and pole.
- **d.** Remove the blade pins from the blade and remove blade (Fig. 1d).
- e. Insert new blade and blade pins.







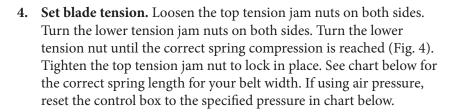


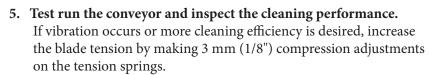
Section 6 – Maintenance

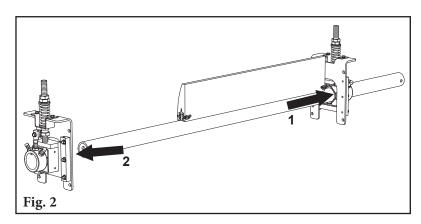
6.4 Blade Replacement Instructions

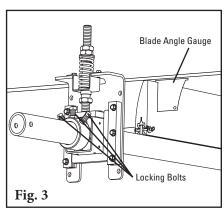
- 2. Reinstall the pole and tensioner. (If not removed skip to Step 3.) Slide pole into mounted tensioner (Fig. 2). Remount SST XD/SAT XD tensioner using marks made in Step 1c (Fig. 2).
- 3. Set blade angle. (If the pole was not turned down or removed, skip to Step 4.) Center the pole/blades on the belt. Using the tip gauge, align the blade so the top of the gauge is aligned with the belt (Fig. 3). Tighten the three locking bolts on each tensioner to lock the

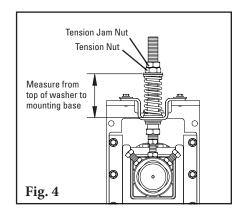
pole in place. Best practice is to first tighten the middle bolt before tightening the outer bolts to ensure everything is secure (Fig. 3).











SST XD Spring Length Chart

Bla Wi		Wł Spri	nite ings	Silver Springs		Black Springs		Gold Springs	
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
450	18	86	3 3/8	102	4	N/A	N/A	N/A	N/A
600	24	79	3 1/8	98	3 7/8	N/A	N/A	N/A	N/A
750	30	73	2 7/8	95	3 3/4	N/A	N/A	N/A	N/A
900	36	N/A	N/A	95	3 3/4	98	3 7/8	N/A	N/A
1050	42	N/A	N/A	92	3 5/8	95	3 3/4	N/A	N/A
1200	48	N/A	N/A	89	3 1/2	92	3 5/8	N/A	N/A
1350	54	N/A	N/A	86	3 3/8	92	3 5/8	95	3 3/4
1500	60	N/A	N/A	83	3 1/4	89	3 1/2	95	3 3/4
1800	72	N/A	N/A	N/A	N/A	86	3 3/8	92	3 5/8
2100	84	N/A	N/A	N/A	N/A	79	3 1/8	89	3 1/2
2400	96	N/A	N/A	N/A	N/A	N/A	N/A	86	3 3/8
2700	108	N/A	N/A	N/A	N/A	N/A	N/A	89	3 1/2
3000	120	N/A	N/A	N/A	N/A	N/A	N/A	86	3 3/8

Shading indicates preferred spring option.

SAT XD Pressure Chart

Blade Width		No. Blades	Pressure		
mm	in.	Diaucs	kPa	psi	
450	18	3	103	15	
600	24	4	131	19	
750	30	5	159	23	
900	36	6	186	27	
1050	42	7	214	31	
1200	48	8	241	35	
1350	54	9	269	39	
1500	60	10	296	43	
1800	72	12	352	51	
2100	84	14	407	59	
2400	96	16	462	67	



Section 6 - Maintenance

6.5 Maintenance Log

Conveyor Name/No		
Date:	Work done by:	Service Quote #:
Activity:		
Date:	Work done by:	Service Quote #:
Activity.		
D .	W. 1. 1. 1	
		Service Quote #:
		Service Quote #:
Activity:		
Deter	Wade days buy	Samina Quata #
	Work done by:	
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

6.6 Cleaner Maintenance Checklist

Site:			Inspected	by:				Date:			
Belt Cleaner:			Serial Number:								
Beltline Information Beltline Number:			_ Belt Cond	dition:							
	⊐ 600m (24")	m □ 750mm (30")	□ 900mm □ (36")			m □ 1350mm (54")				□ 2400mm (96")	
Belt Speed:	fpm	Belt Thi	ckness:								
Belt Splice:	(Condition of Sp	lice:	Numb	er of Splic	es:	*It is recom	☐ Unskived mended that be skived.	mechanical	fasteners	
Material conveyed:											
Days per week run:		H	lours per day	run:							
Blade Life: Date blade installed	:		Date blade in	spected:_		Estin	nated blade lit	fe:			
Is blade making com	nplete c	ontact with be	lt?	□ Yes	□ No)					
Blade wear:	Le	ft	М	iddle		Right					
Blade condition:		□ Good	☐ Groove	d 🗆	l Smiled	□ Not c	ontacting belt	□ Da	amaged		
Measurement of spi	ring:	Requ	ired		Curre	ntly	_				
For SAT XD Tensiono Inspect SAT XD bag			r/Nitrogen Pr	essure Red	quired		Currentl	У	-		
Was Cleaner Adjust	ted:	☐ Yes	s □ No)							
Pole Condition:		□ Good	□ Bent	□ Wo	rn						
Lagging:	□ Sid	e Lag 🗆 🗆] Ceramic	□ Rub	ber	□ Other	□ None				
Condition of lagging	:	□ Good	□ Bac		Other:						
Cleaner's Overall Po	erforma	ince:	(Rate the f	ollowing 1	- 5, 1= ver	y poor - 5 = ve	ry good)				
Appearance:	□:	Comments:									
Location::	□:	Comments:									
Maintenance::	□:	Comments:									
Performance::	□:	Comments:									
Other comments:						·					



Section 7 - Troubleshooting

Problem	Possible Cause	Possible Solutions			
	Cleaner secure bolts not set.	Ensure all locking nuts are tight (Loctite).			
	Cleaner not set up correctly.	Ensure cleaner set up properly (check blade angle with gauge).			
Vibration.	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.			
	Cleaner not set up correctly.	Ensure cleaner set up properly (check blade angle with gauge).			
Material buildup on cleaner.	Buildup on chute.	Ensure cleaner is not located too close to back of chute, allowing buildup.			
cleaner.	Cleaner being overburdened.	Introduce Flexco precleaner.			
	Excessive sticky material.	Frequently clean unit of buildup.			
	Cleaner over-tensioned.	Ensure cleaner is correctly tensioned.			
Damaged belt cover.	Cleaner blade damage.	Check blade for wear, damage and chips, replace where necessary.			
Damaged ben cover.	Attack angle not correct.	Ensure cleaner set up properly (check blade angle with gauge).			
	Material buildup in chute.	Frequently clean unit of buildup.			
	Cleaner not set up correctly.	Ensure cleaner set up properly (check blade angle with gauge).			
Cleaner not	Belt tension too high.	Ensure cleaner can conform to belt (introduce hold-down roller), or replace with alternate Flexco secondary cleaner.			
conforming to belt.	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.			
	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 blade for wear, damage and chips, replace where necessary.			
Material passing	Cleaner being overburdened.	Introduce Flexco precleaner.			
cleaner.	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.	Belt not skived correctly.	Spot and redo splice correctly, lowering the profile flush or below belt surface.			
Missing material in	Cupped Belt.	Install hold-down roller and reset blade angle with gauge.			
belt center only.	Cleaner blade worn/damaged.	Check blade for wear, damage and chips, replace where necessary.			
Missing material on	Cupped Belt.	Install hold-down roller and reset blade angle with gauge.			
outer edges only.	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*

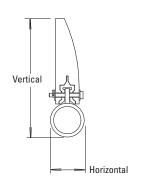
	CLEANER SIZE		BLADE WIDTH		POLE LENGTH		MAXIMUM CONVEYOR SPAN	
mm	in.	mm	in.	mm	in.	mm	in.	
600	24	700	28	2100	84	1700	68	
750	30	850	34	2250	90	1850	74	
900	36	1000	40	2400	96	2000	80	
1050	42	1150	46	2550	102	2150	86	
1200	48	1300	52	2700	108	2300	92	
1350	54	1450	58	2850	114	2450	98	
1500	60	1600	64	3000	120	2600	104	
1800	72	1900	76	3150	126	2900	116	
2100	84	2200	88	3450	138	3200	128	
2400	96	2500	100	3750	150	3500	140	

Overall Pole Length

Maximum Conveyor Span

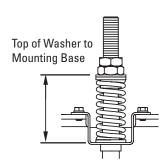
Clearance Guidelines for Installation

<u> </u>								
HORIZ	ONTAL	VERTICAL						
CLEARANCI	E REQUIRED	UIRED CLEARANCE REQUIRED						
mm	in.	mm	in.					
100	4	250	10					



SST XD Spring Length Chart

Blade Width		White Springs		Silver Springs		Black Springs		Gold Springs	
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
450	18	86	3 3/8	102	4	N/A	N/A	N/A	N/A
600	24	79	3 1/8	98	3 7/8	N/A	N/A	N/A	N/A
750	30	73	2 7/8	95	3 3/4	N/A	N/A	N/A	N/A
900	36	N/A	N/A	95	3 3/4	98	3 7/8	N/A	N/A
1050	42	N/A	N/A	92	3 5/8	95	3 3/4	N/A	N/A
1200	48	N/A	N/A	89	3 1/2	92	3 5/8	N/A	N/A
1350	54	N/A	N/A	86	3 3/8	92	3 5/8	95	3 3/4
1500	60	N/A	N/A	83	3 1/4	89	3 1/2	95	3 3/4
1800	72	N/A	N/A	N/A	N/A	86	3 3/8	92	3 5/8
2100	84	N/A	N/A	N/A	N/A	79	3 1/8	89	3 1/2
2400	96	N/A	N/A	N/A	N/A	N/A	N/A	86	3 3/8
2700	108	N/A	N/A	N/A	N/A	N/A	N/A	89	3 1/2
3000	120	N/A	N/A	N/A	N/A	N/A	N/A	86	3 3/8



SAT XD Pressure Chart

Blade Width		No. Blades	Pressure		
mm	in.	Diaucs	kPa	psi	
450	18	3	103	15	
600	24	4	131	19	
750	30	5	159	23	
900	36	6	186	27	
1050	42	7	214	31	
1200	48	8	241	35	
1350	54	9	269	39	
1500	60	10	296	43	
1800	72	12	352	51	
2100	84	14	407	59	
2400	96	16	462	67	

Shading indicates preferred spring option.

Specifications:

• Temperature Rating -35 to 82°C (-30 to 180°F)

Blade Height 185mm (7-1/4")

Blade Polyurethane with UHMW additive (softer durometer to squeegee

water off and additive to enhance blade life)

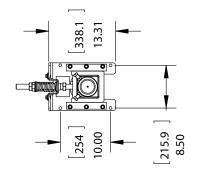
CEMA Cleaner Rating...... Class 4

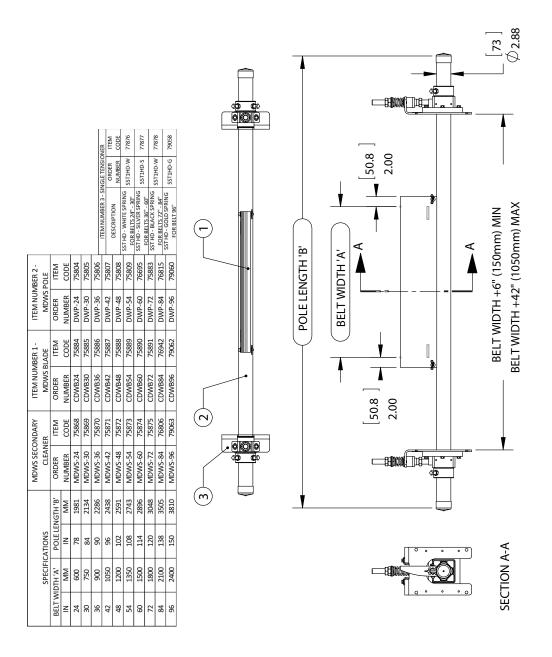


^{*}For special extra long pole length requirements a Pole Extender Kit (#76024) is available that provides 750 mm (30") of extended pole length. See Page 7. Pole Diameter - 73 mm (2-7/8")

Section 8 - Specs and CAD Drawings

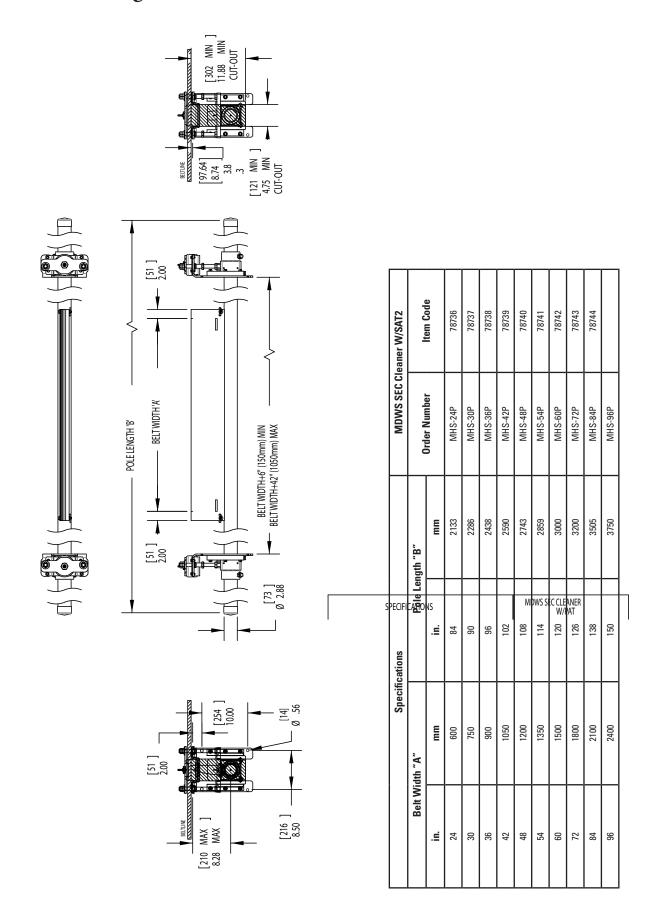
8.2 CAD Drawing - MDWS - SST XD





Section 8 - Specs and CAD Drawings

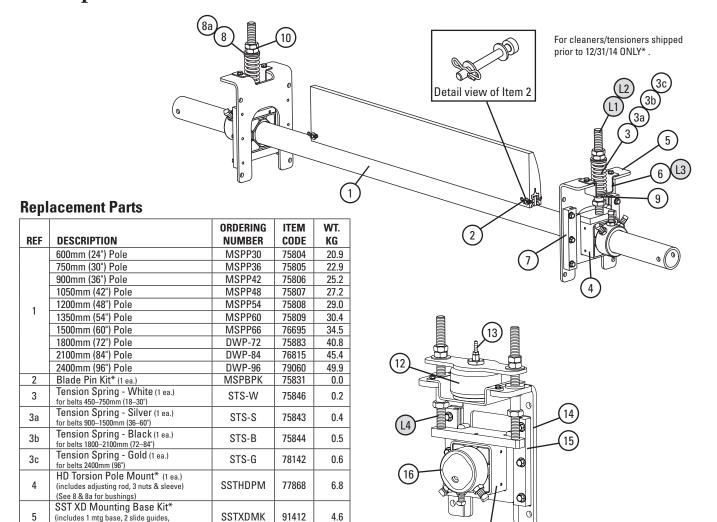
8.3 CAD Drawing - MDWS - SAT XD





Section 9 - Replacement Parts

9.1 Replacement Parts List



*Hardware Included Lead time: 1 working day

(includes 2 each items for belts 2400mm (96")

Spring Tensioner Selection Chart

top hat bracket & bottom bushing)

SST Slide Guide Kit* (incl. 2 slide guides)

SST Bushing Kit - White/Silver

SST Bushing Kit - Black/Gold

SST Lower Bushing Kit (pair)

Jam Nut Kit SST Tensioner

includes 2 each items 3, 4, 5, & 8a) for belts 450–750mm (18–30")

for belts 900–1200mm (36–48")
SST XD Spring Tensioner* - Black

(includes 2 each items 3b, 4, 5, & 8b) for belts 1350–2100mm (54–84") SST XD Spring Tensioner* - Gold

SST XD Spring Tensioner* - White

SST XD Spring Tensioner* - Silver

SST Hat Bracket (pair)

(includes 2 bushings)

6

8a

9

10

CLEANER SIZE	91408 SSTXD-W	91409 SSTXD-S	91410 SSTXD-B	91411 SSTXD-G
MDWS 600-750 mm (24-30")	Х			
MDWS 900-1500 mm (36-60")		Х		
MDWS 1800–2100 mm (72–84")			Х	
MDWS 2400 mm (96")				Х

SSTHB

STGK2

SSTBK-W

SSTBK-B

SSTLBK

JNK-C

SSTXD-W

SSTXD-S

SSTXD-B

SSTXD-G

79582

77867

76636

76637

79493

79893

91408

91409

91410

91411

1.6

0.5

0.0

0.0

0.0

0.1

27.5

27.8

28.1

28.4

SAT XD Replacement Parts

		ORDERING	ITEM	WT.
REF	DESCRIPTION	NUMBER	CODE	KG
11	SAT XD	SATXDNCB	78703	18.6
12	SAT Air/Water Bag Kit	SATB	76083	2.3
13	SAT 1/8" Hose Barb Kit	SATHB	76084	0.0
14	SAT XD Mounting Base Kit	SATXDMK	91415	5.3
15	ST Slide Guide Kit	STGK2	77867	0.5
16	SAT2 Torsion Pole Mount (incl. threaded rods & 6 nuts)	SAT2PM	78732	5.0

Lead time: 1 working day

Legacy Replacement Parts for Tensioners shipped prior to changeover announcement

L1	Adjusting Rod Kit (includes 1 rod, 2 nuts, 1 bushing, 1 washer) for belts 600–1500mm (24–60")	STAK	75847	1.3
L2	HD Adjusting Rod Kit (includes 1 rod, 2 nuts, 1 HD bushing, 1 washer) for belts 1800–2100mm (72–84*)	STAKHD	75892	1.4
L3	Legacy SST Hat Channel Kit	SSTHK	79070	0.7
L4	SAT2 Adjusting Rod Kit	SAT2AK	78733	2.3
-	SST Tensioner Bushing Update Kit	SST-BUK	76943	0.1

Section 10 - Other Flexco Conveyor Products

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

MMP Precleaner



- Extra cleaning power right on the head pulley
- A 250 mm (10") TuffShear™ blade provides increased blade tension on the belt to peel off abrasive materials
- The unique Visual Tension Check™ ensures optimal blade tensioning and quick, accurate retensioning
- Easy to install and simple to service

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

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

DRX™ 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

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 seize or freeze up
- Available for topside and return side belts

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



