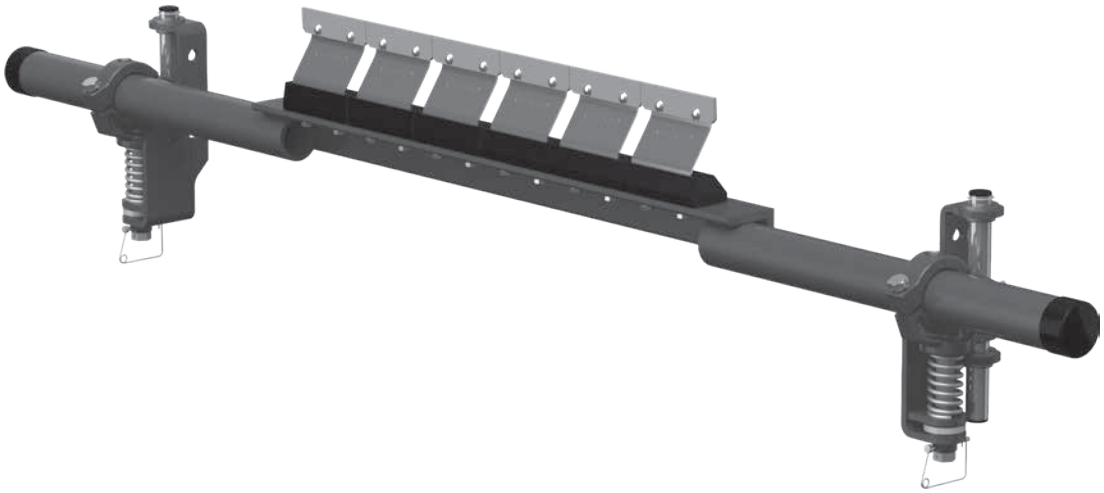
FMS Secondary Cleaner

Installation, Operation and Maintenance Manual



FLEXCO

MHS HD 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.

Table of Contents

Section 1 - Important Information

1.1 General Introduction

We at Flexco are very pleased that you have selected an FMS 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 contact your field representative or our Customer Service Department:

Customer Service: +27-11-608-4180

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 FMS 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 FMS 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
- Tension adjustments
- Blade replacement
- Cleaning
- Repairs

⚠ DANGER

It is imperative that OSHA/MSHA Lockout/Tagout (LOTO) regulations, 29 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

⚠ 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

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.

⚠ 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.

Section 3 - Pre-installation Checks and Options

3.1 Checklist

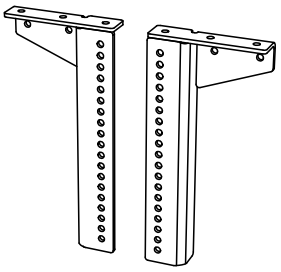
- Check that the cleaner size is correct for the beltline width
- Check the belt cleaner carton and make sure all the parts are included
- Review the “Tools Needed” list on the top of the installation instructions
- Check the conveyor site:
  - Will the cleaner be installed on a chute
  - Is the install 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

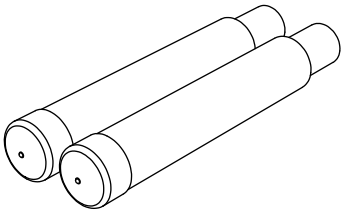
Optional Mounting Kits (includes 2 brackets/bars)			
Description	**Ordering Number**	**Item Code**	**Wt. Kg.**
Pole Extender Kit	MAPEK	76024	9.9
MST Drop Bracket Kit	MSTDB	79434	12.6

Lead time: 1 working day



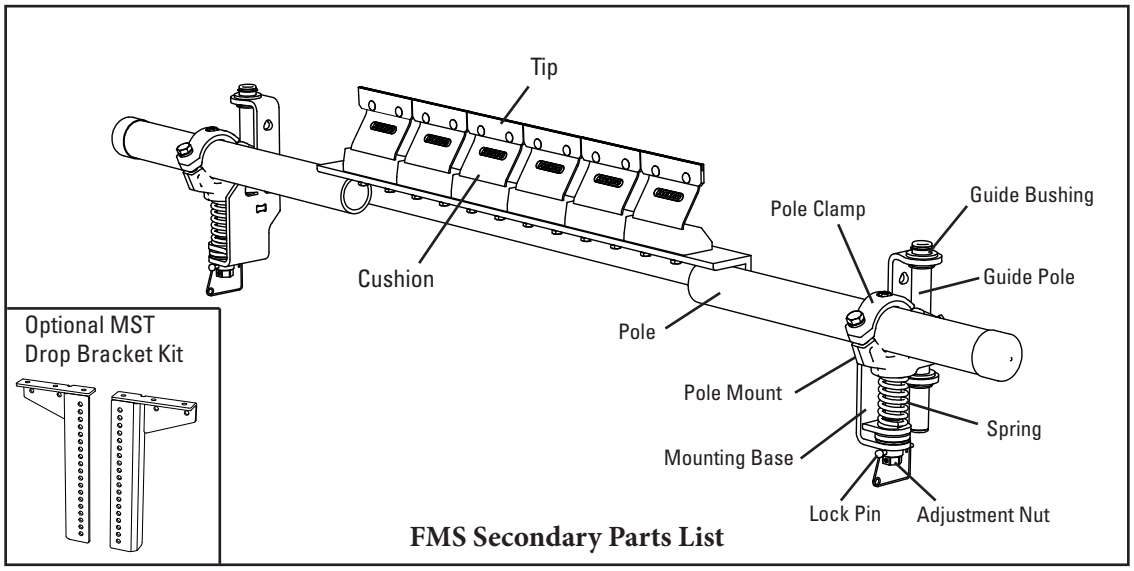
79434
MST Drop Bracket Kit (includes 2 brackets)

76024
Pole Extender Kit (includes 2 pole extenders)
- For cleaner sizes 1800mm and larger
- Provides 750mm of extended pole length



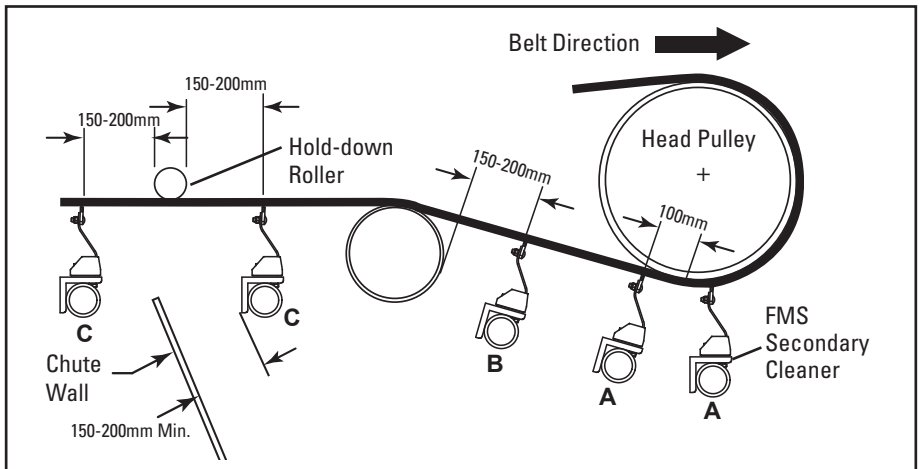
Section 4 - Installation Instructions

4.1 FMS Secondary Cleaner
for belts 450-1800mm



FMS Secondary Parts List

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



Pole Location Specs

Tools Needed

- Adjustable Wrench OR
- 10mm Wrench
- 14mm Wrench
- 19mm Wrench
- 25mm Wrench
- 29mm Wrench
- Tape Measure
- Ratchet With 19mm Socket
- Ratchet With 19mm Socket
- (2) 152mm C-Clamps (for Temporary Positioning of Mounting Brackets)
- Cutting Torch and/or Welder
- Marking Pen
- Level
- Allen Key Set

Section 4 - Installation Instructions

4.1 FMS Secondary Cleaner

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 102mm (4") 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 102mm below the belt (Fig. 1b). Cut access holes as needed.

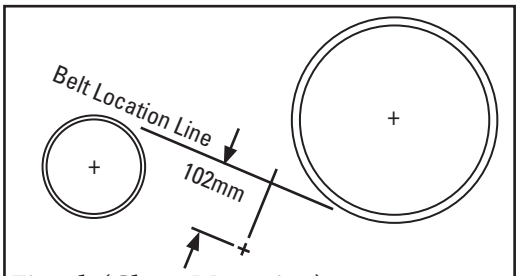


Fig. 1b (Chute Mounting)

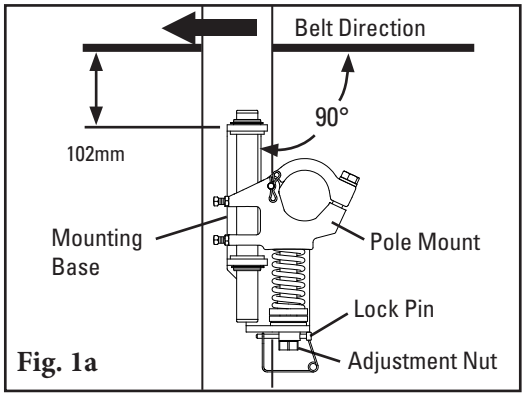


Fig. 1a

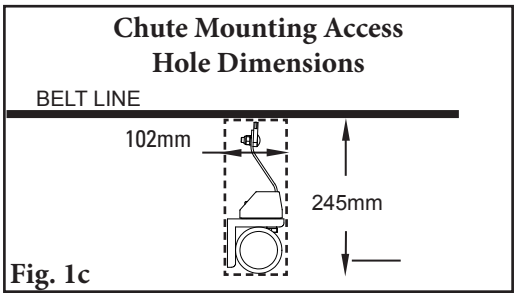


Fig. 1c

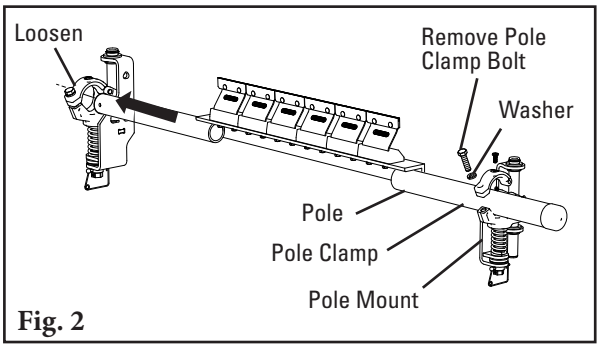


Fig. 2

2. **Install the 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.

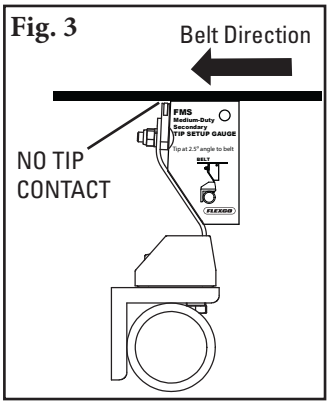


Fig. 3

3. **Set the blade angle.** Center the pole/blades on the belt. Rotate the pole until the tips align with the FMS tip setup gauge provided (Fig. 3). Tighten the pole clamp bolt on each pole mount to lock the pole in place. Use allen key to lock in set screw. 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 - Installation Instructions

4.1 FMS Secondary Cleaner

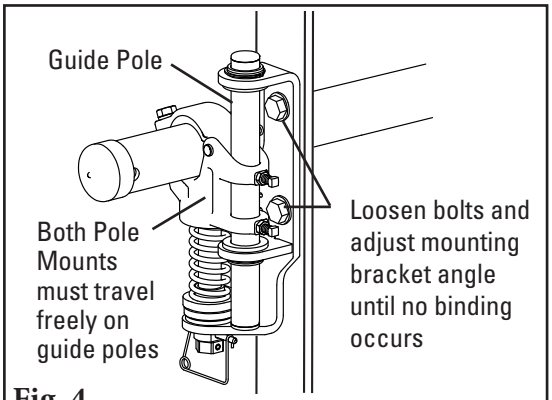


Fig. 4

4. **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. 4). Retighten bolts.

5. **Set the blade tension.** Turn the adjustment nuts until the correct spring compression is reached (Fig. 5). Spring compression is determined by the spring length. See the chart below for the correct spring length for your belt width. Replace locking pins.

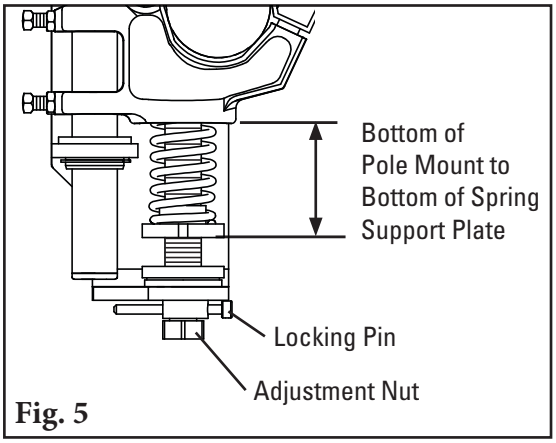


Fig. 5

MST Tensioner Spring Length Chart

Blade Width		2 White Springs		2 Silver Springs		2 Black Springs	
mm	in.	mm	in.	mm	in.	mm	in.
450	18	73	2 7/8	89	3 1/2	89	3 1/2
600	24	67	2 5/8	86	3 3/8	89	3 1/2
750	30	60	2 3/8	83	3 1/4	86	3 3/8
900	36	54	2 1/8	79	3 1/8	83	3 1/4
1050	42	N/A	N/A	76	3	79	3 1/8
1200	48	N/A	N/A	73	2 7/8	79	3 1/8
1350	54	N/A	N/A	70	2 3/4	76	3
1500	60	N/A	N/A	70	2 3/4	73	2 7/8
1800	72	N/A	N/A	N/A	N/A	70	2 3/4

Shading indicates preferred spring option.

6. **Secure guide poles.** Ensure the ends of the guide pole extend at least 13mm) 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. 6).

7. **Check movement of each tensioner** to ensure they do not bind up. If there are binding concerns, refer to Step 4.

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.

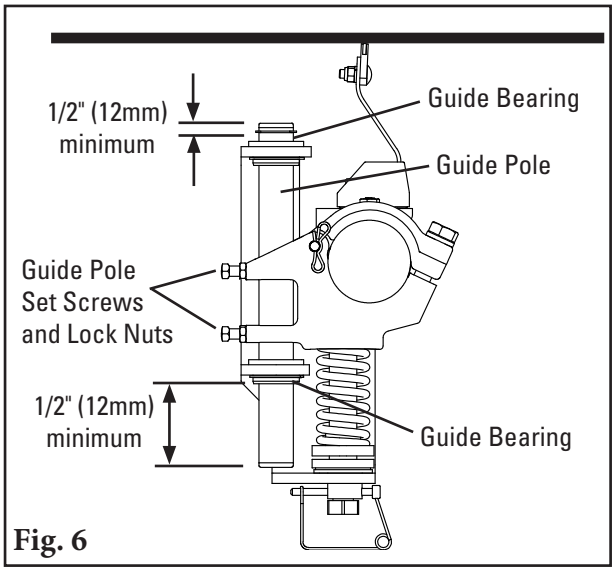


Fig. 6

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 FMS 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 one on page 10.
- When maintenance tasks are completed, test run the conveyor to ensure the cleaner is performing properly.

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 #: _____

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Date: _____ Work done by: _____ Service Quote #: _____

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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

Site: _____ **Inspected by**: _____ **Date:** _____

Belt Cleaner: _____ **Serial Number:** _____

Beltline Information:

Beltline Number: _____ Belt Condition: _____

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

Belt Speed:_____ fpm Belt Thickness: _____

Belt Splice:_____ Condition of Splice:_____ Number of Splices:_____ ☐ Skived ☐ Unskived

Material conveyed: _____

Days per week run:_____ Hours per day run:_____

Blade Life:

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

Is blade making complete contact with belt? ☐ Yes ☐ No

Distance from wear line: Left _____ Middle _____ Right _____

Blade condition: ☐ Good ☐ Grooved ☐ Smiled ☐ Not contacting belt ☐ Damaged

Measurement of spring: Required _____ Currently _____

For SAT2 Tensioner only: Air/Nitrogen Pressure Required _____ Currently _____
Inspect SAT2 bags and lines

Was Cleaner Adjusted: ☐ Yes ☐ No

Pole Condition: ☐ Good ☐ Bent ☐ Worn

Lagging: ☐ Side Lag ☐ Ceramic ☐ Rubber ☐ Other ☐ None

Condition of lagging: ☐ Good ☐ Bad ☐ Other_____

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

Appearance: ☐ Comments:_____

Location: ☐ Comments:_____

Maintenance: ☐ Comments:_____

Performance: ☐ Comments:_____

Other comments: _____

_____

_____

_____

_____

_____

Section 7 - Troubleshooting

Problem	Possible Cause	Possible Solutions
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) 1°-3° into belt
	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
	UHMW bearing worn out or missing	Replace bearing
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) 1°-3° into belt
	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) 1°-3° into belt
	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) 1°-3° into belt
	Cleaner tension too low	Ensure cleaner is correctly tensioned
	Cleaner blade worn/damaged	Check blade 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 or brush cleaner
	Cleaner cannot conform	Ensure cleaner can conform to belt (introduce hold-down roller), or replace with alternate Flexco secondary cleaner
	Blade in backwards	Install blade correctly and set correct tension
Damage to mechanical fastener	Incorrect cleaner blade selection	Change blade type to accomodate fastener style (C or V)
	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
MST Tensioners binding	Tensioners not aligned properly	Adjust mounting bases until tensioners travel without binding
	Material buildup on tensioner guide pole	Clean off guide pole

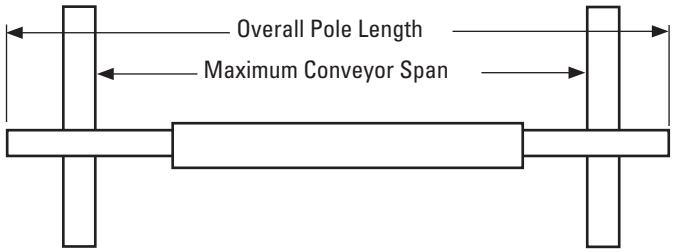
Section 8 - Specs and CAD Drawings

8.1 Specs and Guidelines

Pole Length Specifications*

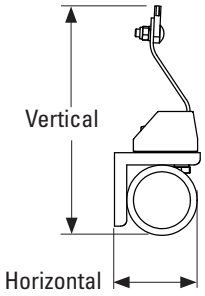
CLEANER SIZE		BLADE WIDTH		POLE LENGTH		MAXIMUM CONVEYOR SPAN	
mm	in.	mm	in.	mm	in.	mm	in.
450	18	450	18	1800	72	1550	62
600	24	600	24	1950	78	1700	68
750	30	750	30	2100	84	1850	74
900	36	900	36	2250	90	2000	80
1050	42	1050	42	2400	96	2150	86
1200	48	1200	48	2550	102	2300	92
1350	54	1350	54	2700	108	2450	98
1500	60	1500	60	2850	114	2600	104
1800	72	1800	72	3150	126	2900	116
2100	84	2100	84	3450	138	3200	128
2400	96	2400	96	3750	150	3500	140

*For special extra long pole length requirements a Pole Extender Kit (#76024) is available that provides 750mm of extended pole length. See Page 7.
Pole Diameter - 73mm



Clearance Guidelines for Installation

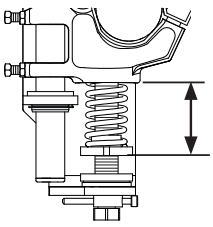
HORIZONTAL CLEARANCE REQUIRED		VERTICAL CLEARANCE REQUIRED	
mm	in.	mm	in.
89	3-1/2	245	10



MST Tensioner Spring Length Chart

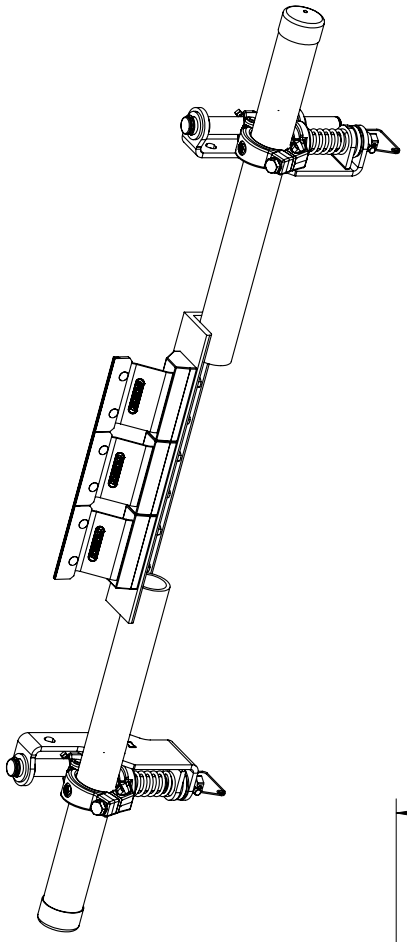
Blade Width		2 White Springs		2 Silver Springs		2 Black Springs	
mm	in.	mm	in.	mm	in.	mm	in.
450	18	73	2 7/8	89	3 1/2	89	3 1/2
600	24	67	2 5/8	86	3 3/8	89	3 1/2
750	30	60	2 3/8	83	3 1/4	86	3 3/8
900	36	54	2 1/8	79	3 1/8	83	3 1/4
1050	42	N/A	N/A	76	3	79	3 1/8
1200	48	N/A	N/A	73	2 7/8	79	3 1/8
1350	54	N/A	N/A	70	2 3/4	76	3
1500	60	N/A	N/A	70	2 3/4	73	2 7/8
1800	72	N/A	N/A	N/A	N/A	70	2 3/4

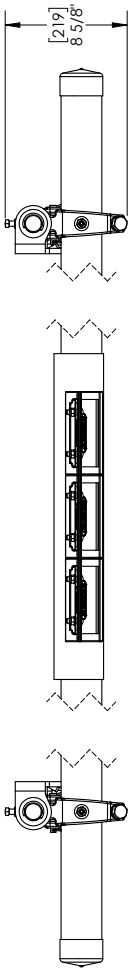
Shading indicates preferred spring option. Measure spring as shown.

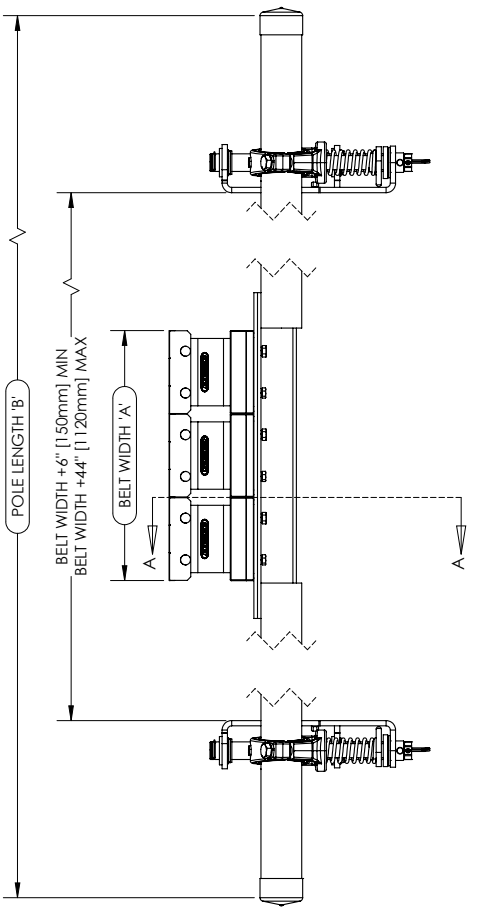


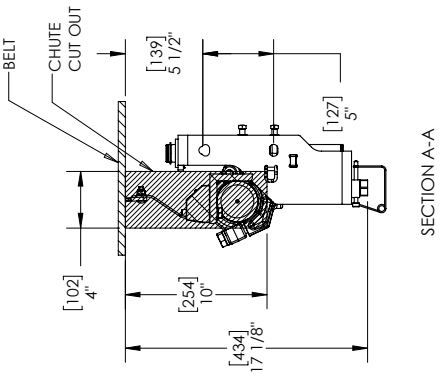
- Maximum Belt Speed..... 5m/s
- Temperature Rating..... -35°C to 148°C
- Usable Blade Wear Length..... 9mm
- Blade Materials..... C-Tip: Impact Resistant Tungsten Carbide (works with mechanical fasteners)
  V-Tip: Long Life Tungsten Carbide (for vulcanized belts only)
- Available for Belt Widths..... 450 to 1800mm. Other sizes available upon request.
- CEMA Cleaner Rating..... Class 4

8.2 CAD Drawing - FMS with MST Tensioners





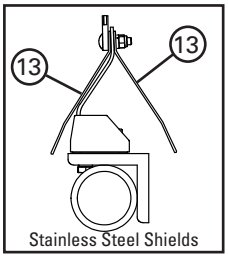




SPECIFICATIONS				FMS C CLEANER		ITEM ① POLE		ITEM ② SPRING	
BELT WIDTH 'A'		POLE LENGTH 'B'	# OF TIPS	ORDER NUMBER	ITEM CODE	ORDER NUMBER	ITEM CODE	P/N	COLOR
(in)	(mm)	(in)	(mm)						
18	450	72	1828	3	FMS-18	79637	MHSP-18	76178	75846	WHITE
24	600	78	2133	4	FMS-24	79638	MHSP-24	75918	75846	WHITE
30	700	84	2286	5	FMS-30	79639	MHSP-30	75919	75846	WHITE
36	900	90	2438	6	FMS-36	79640	MHSP-36	75920	75843	SILVER
42	1050	96	2590	7	FMS-42	79641	MHSP-42	75921	75843	SILVER
48	1200	102	2743	8	FMS-48	79642	MHSP-48	75922	75843	SILVER
54	1350	108	2895	9	FMS-54	79643	MHSP-54	75923	75843	SILVER
60	1500	114	3200	10	FMS-60	79644	MHSP-60	75924	75844	BLACK
72	1800	126	3750	12	FMS-72	79645	MHSP-72	75925	75844	BLACK

Section 9 - Replacement Parts

9.1 Replacement Parts List - FMS Secondary Cleaner



Replacement Parts

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. KG.
1	450mm Pole	MHSP-18	76178	21.0
	600mm Pole	MHSP-24	75918	23.5
	750mm Pole	MHSP-30	75919	25.9
	900mm Pole	MHSP-36	75920	28.5
	1050mm Pole	MHSP-42	75921	31.0
	1200mm Pole	MHSP-48	75922	33.5
	1350mm Pole	MHSP-54	75923	36.0
	1500mm Pole	MHSP-60	75924	38.6
	1800mm Pole	MHSP-72	75925	43.6
2a	C-Tip*	ICT6	74535	0.3
2b	V-Tip* (for vulcanized belts only)	RSA150	73628	0.6
3	FMS Cushion Kit*	FMSC	79699	1.9
4a	Tension Spring - White (1 ea.) for belts 450-750mm	STS-W	75846	0.2
4b	Tension Spring - Silver (1 ea.) for belts 900-1350mm	STS-S	75843	0.4
4c	Tension Spring - Black (1 ea.) for belts 1500-1800mm	STS-B	75844	0.5
5	MST Adjusting Mechanism	MSTAM	79435	1.3
6	MST Mounting Bracket LH (incl. bushings)	MST-MBL	79436	2.6
7	MST Mounting Bracket RH (incl. bushings)	MST-MBR	79437	2.6
8	MST HD Clamp*	MSTCHD	79439	1.1
9	MST Bushing Kit (incl. 4 bushings)	MSTBK	79440	0.1
10	MST Guide Pole	MSTGT	79441	0.7
11	MST HD Pole Mount*	MSTPMHD	79451	3.3
12	MST Drop Brackets (2)	MSTDB	79434	12.6
13	P SS Shield	PSSS	74773	0.2
-	MST HD Tensioner w/White Spring* (incl. 1 ea. items 6, 7; 2 ea. items 4a, 5, 8, 10 & 11)	MSTHD-W	79431	16.7
-	MST HD Tensioner w/Silver Spring* (incl. 1 ea. items 6, 7; 2 ea. items 4b, 5, 8, 10 & 11)	MSTHD-S	79432	17.0
-	MST HD Tensioner w/Black Spring* (incl. 1 ea. items 6, 7; 2 ea. items 4c, 5, 8, 10 & 11)	MSTHD-B	79433	17.3

*Hardware Included
Lead time: 1 working day

MST Spring Tensioner Selection Chart

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

U.S. Patent No. 6,823,983

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 250mm (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

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

MDWS DryWipe Secondary Cleaner

- Wipes the belt dry as final cleaner in system
- Automatic blade tensioning to the belt
- Easy, visual blade tension check
- Simple, one-pin blade replacement

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

236 Albert Amon Rd • Meadowdale Ext. 7 • Germiston 1614 • South Africa
Tel: +27-11-608-4180 • Fax: +27-11-454-5821 • E-mail: flexco@flexco.co.za

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