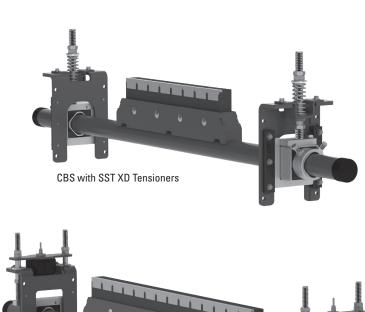
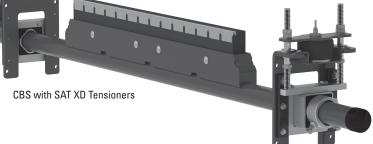
CBS Continuous Blade Secondary Cleaner

Installation, Operation and Maintenance Manual







CBS 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 CBS Continuous Blade 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.

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 CBS Continuous Blade 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 CBS Continuous Blade 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, 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.

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

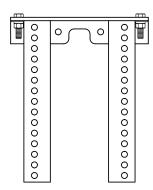
3.1 Checklist

- 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 Installation Accessories

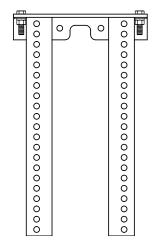
Versatile, adjustable brackets that can be mounted on the conveyor structure so the CBS Continuous Blade Secondary Cleaner can be quickly and easily bolted into place. Pole extenders are also available for wide, non-standard conveyor structures.



SST Standard Mounting Bracket Kit (for SST XD Tensioner)

(Item Code: 76071)

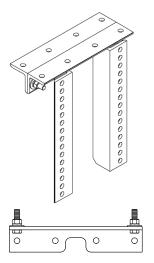
- For most secondary cleaner installs.
- 13 x 15 1/2" (325 x 388 mm)



SST Long Mounting Bracket Kit (for SST XD Tensioner)

(Item Code: 76072)

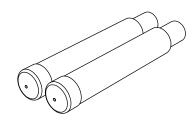
- For installations that require extra length legs.
- 13 x 21 1/2" (325 x 538 mm)



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.
- 13" (325 mm) Length



Pole Extender Kit (incl. 2 pole extenders)

(Item Code: 76024)

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

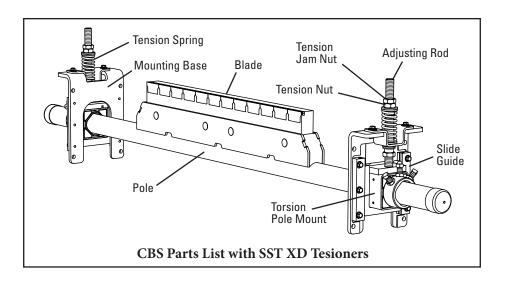
Optional Mounting Kits (includes 2 brackets/bars)

DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
Standard Mounting Bracket Kit *	SSTSMB	76071	34.3
Long Mounting Bracket Kit *	SSTLMB	76072	43.5
Optional Top Angle Kit *	SSTOTA	76073	10.5
Pole Extender Kit	MAPEK	76024	21.9

*Hardware Included Lead time: 1 working day



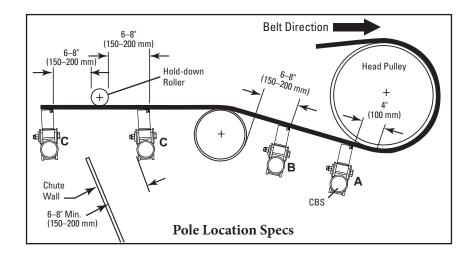
4.1 CBS - SST XD Tensioner



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

Tools Needed:

- 9/16" (14 mm) Wrench
- 3/4" (19 mm) Wrench
- 7/8" (22 mm) Wrench
- 1-3/8" (35 mm) Wrench
 OR Large Adjustable/
 Crescent Wrenches (x2)
- Clamps (x2)
- Torch (as needed)
- Welder (as needed)
- Tape Measure
- Level
- Marking Pen or Soapstone

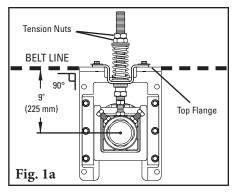


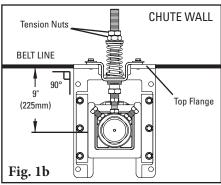
4.1 CBS - SST XD Tensioner

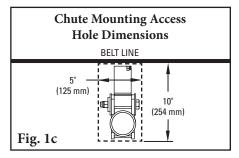
1. Install the spring tensioner mounting bases. (For push-up tensioning refer to additional instructions on page 11.) Clamp one mounting base into position so the top flange of the base is aligned with the belt line (Fig. 1a). Bolt or weld the mounting base in place. Locate and install the mounting base on the opposite side. Adjust the tension nuts on each side so the center of the torsion pole mount is 9" (225mm) below the belt line.

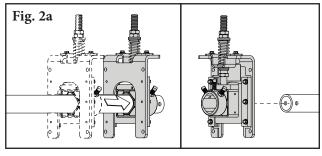
NOTE: For chute mounting, a belt location line must be drawn on the chute wall so the mounting base can be aligned with the belt (Fig. 1b). Cut access holes as needed (Fig. 1c).

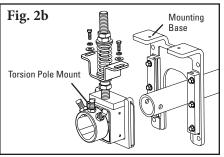
2. Install the pole. Slide the pole into one torsion pole mount as far as needed and locate the other end into the opposite mount (Fig. 2a). If there is not enough space, remove one of the torsion pole mounts from the mounting base, slide the pole through the mounting base and reassemble (Fig. 2b).











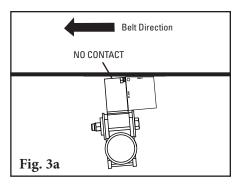


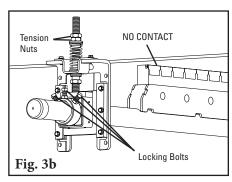
4.1 CBS - SST XD Tensioner

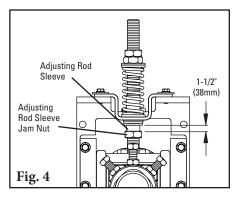
3. Set the blade angle. Center the pole/blades on the belt. Rotate the pole until the blade lays back 5° using the setup gauge provided (Fig. 3a). Tighten the three locking bolts on each torsion pole mount to lock the pole in place. Best practice is to first tighten the middle bolt before tightening 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.

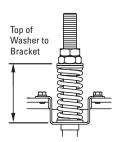
NOTE: For optimal cleaning performance, it is recommended that mechanical fasteners on the belt be skived.

- **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, determined by spring length. See the chart for the correct spring length for your belt width.
- 5. **Set adjusting rod sleeve.** After setting the blade tension, screw the adjusting rod sleeve(s) into the UHMW bushing until 1-1/2" (38mm) 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 1/8" (3mm) compression adjustments on the tension springs.









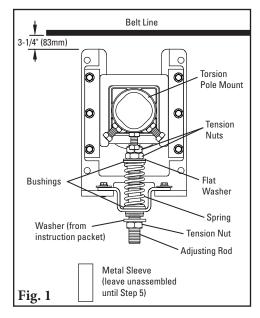
SST XD Spring Length Chart

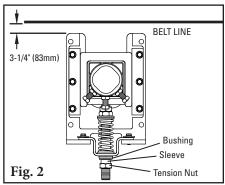
	or AB opring Longin Ghart												
_	Belt Width		White Springs		ver ings	Black Springs		Go Spri					
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm				
18	450	3 3/8	86	4	102	N/A	N/A	N/A	N/A				
24	600	3 1/8	79	3 7/8	98	N/A	N/A	N/A	N/A				
30	750	2 7/8	73	3 3/4	95	N/A	N/A	N/A	N/A				
36	900	N/A	N/A	3 3/4	95	3 7/8	98	N/A	N/A				
42	1050	N/A	N/A	3 5/8	92	3 3/4	95	N/A	N/A				
48	1200	N/A	N/A	3 1/2	89	3 5/8	92	N/A	N/A				
54	1350	N/A	N/A	3 3/8	86	3 5/8	92	3 3/4	95				
60	1500	N/A	N/A	3 1/4	83	3 1/2	89	3 3/4	95				
72	1800	N/A	N/A	N/A	N/A	3 3/8	86	3 5/8	92				
84	2100	N/A	N/A	N/A	N/A	3 1/8	79	3 1/2	89				
96	2400	N/A	N/A	N/A	N/A	N/A	N/A	3 3/8	86				

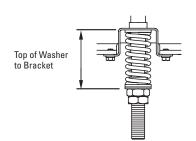
Shading indicates preferred spring option.

4.2 CBS - SST XD - Push-up Tensioning

- 1. Reconfigure the standard pull-up tensioner to the push-up style. Remove the 3 tension nuts, flat washer, 2 bushings, spring, sleeve and hat bracket; reassemble (Fig. 1) with 2 tension nuts, flat washer, 2 bushings, spring and hat bracket on upper end of adjusting rod. Add the washer (from instruction packet) and third 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 3-1/4" (83mm) below the belt (Fig. 2).
- **3. Install the cleaner pole and set the blade angle.** Follow the installation steps from the cleaner instructions on page 10.
 - **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. First, remove the bottom tension nut and washer from the adjusting rod. Next, turn the two upper tension nuts until the spring is compressed to the length shown on the Spring Length Chart below. Then 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).







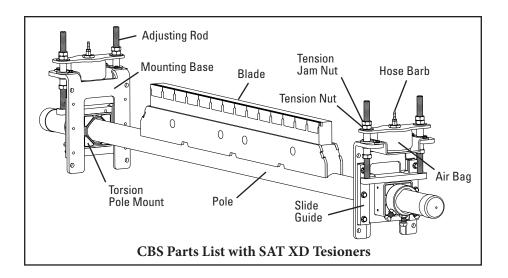
SST XD Spring Length Chart

	51 712 6pmg = 5mg m 5mm t												
_	Belt Width		nite ings	Silver Springs		Black Springs			old ings				
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm				
18	450	3 3/8	86	4	102	N/A	N/A	N/A	N/A				
24	600	3 1/8	79	3 7/8	98	N/A	N/A	N/A	N/A				
30	750	2 7/8	73	3 3/4	95	N/A	N/A	N/A	N/A				
36	900	N/A	N/A	3 3/4	95	3 7/8	98	N/A	N/A				
42	1050	N/A	N/A	3 5/8	92	3 3/4	95	N/A	N/A				
48	1200	N/A	N/A	3 1/2	89	3 5/8	92	N/A	N/A				
54	1350	N/A	N/A	3 3/8	86	3 5/8	92	3 3/4	95				
60	1500	N/A	N/A	3 1/4	83	3 1/2	89	3 3/4	95				
72	1800	N/A	N/A	N/A	N/A	3 3/8	86	3 5/8	92				
84	2100	N/A	N/A	N/A	N/A	3 1/8	79	3 1/2	89				
96	2400	N/A	N/A	N/A	N/A	N/A	N/A	3 3/8	86				

Shading indicates preferred spring option.



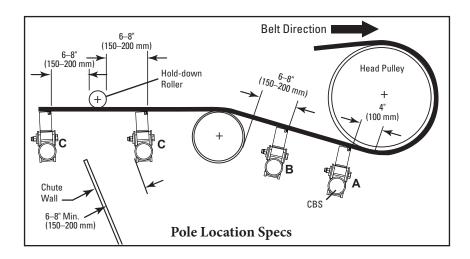
4.3 CBS - SAT XD Tensioner



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

Tools Needed:

- 9/16" (14 mm) Wrench
- 3/4" (19 mm) Wrench
- 7/8" (22 mm) Wrench
- 1-3/8" (35 mm) Wrench **OR** Large Adjustable/ Crescent Wrenches (x2)
- Clamps (x2)
- Torch (as needed)
- Welder (as needed)
- Tape Measure
- Level
- Marking Pen or Soapstone

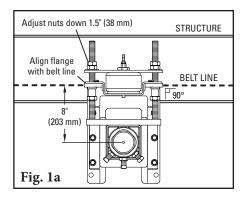


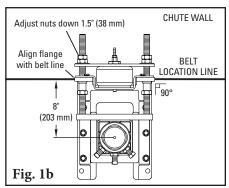
4.3 CBS - SAT XD Tensioner

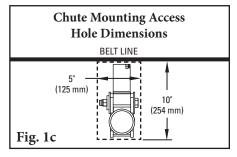
1. Install the air/water tensioner mounting bases. (For push-up tensioning refer to additional instructions on page 15.) Clamp one mounting base into position so the top flange of the base is aligned with the belt. Bolt or weld the mounting base in place and adjust threaded rod nuts 1-1/2" (38mm) down from top of threaded rods (Fig. 1a). Repeat on opposite side.

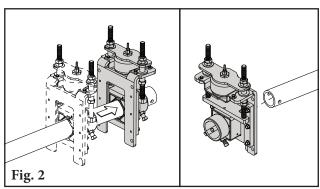
NOTE: For chute mounting, a belt location line must be drawn on the chute wall so the mounting base can be aligned with the belt (Fig. 1b). Cut access holes as needed (Fig. 1c).

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 torsion pole mounts from the mounting base, slide the pole through the mounting base and reassemble.











4.3 CBS - SAT XD Tensioner

3. Set the blade angle. Center the pole/blades on the belt. Rotate the pole until the blade lays back 5° using the 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.

NOTE: For optimal cleaning performance, it is recommended that mechanical fasteners on the belt be skived.

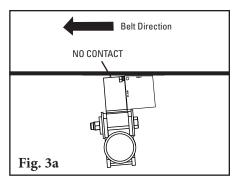
4. Set the blade tension. With the parts supplied, attach a line to each air bag and run the lines to the outlet side of the control box (Fig. 4).

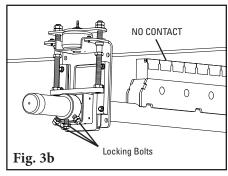
NOTE: Be sure lines are safely away from the belt. Connect the line from the inlet side of the box to the site's supply or air tank. Test the connections for leaks and set the pressure. The pressure may be reduced to suit the application. See the chart for the correct air pressure for your belt width.

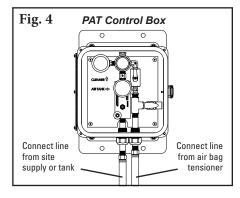
- 5. Set adjusting rod sleeve. After setting the blade tension, screw the adjusting rod sleeve(s) into the UHMW bushing until 1-1/2" (38mm) is showing (Fig. 5). Tighten the adjusting rod sleeve jam nut.
- 6. Test run the cleaner and inspect the cleaning performance. If vibration occurs, increase blade layback by a small amount.

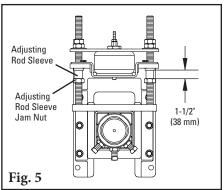
SAT XD Pressure Chart

Bo Wi	elt dth	Pres	sure
in.	mm	psi	kPa
18	450	15	103
24	600	19	131
30	750	23	159
36	900	27	186
42	1050	31	214
48	1200	35	241
54	1350	39	269
60	1500	43	296
72	1800	51	352
84	2100	59	407
96	2400	67	462





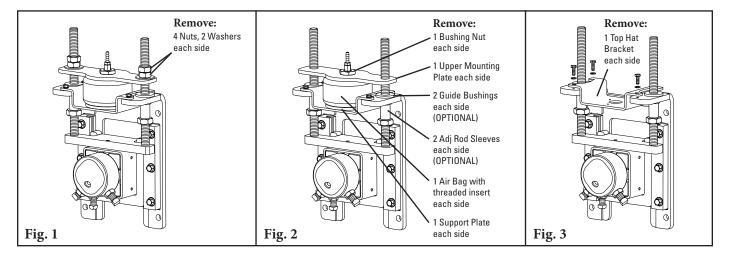




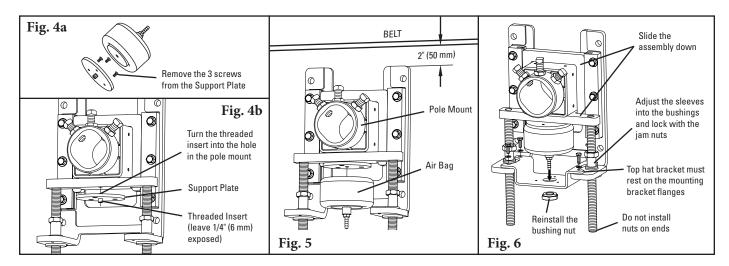
4.4 CBS - SAT XD - Push-up Tensioning

- 1. Disassemble guide kit. Remove nuts and washers from both sides of tensioner (Fig. 1).
- 2. 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 these are 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 1/4" (6mm) 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 (Fig. 6). Adjust rod sleeves into bushings and lock with jam nuts.
- 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 14.



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 CBS 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 Pages 10 & 14 (SST XD or SAT XD).
- 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:			
		Service Quote #:	
Activity:			
Date:	Work done by:	Service Quote #:	
Activity:			
		Service Quote #:	
Activity:			
Date:	Work done by:	Service Quote #:	
Activity:			
Date:	Work done by:	Service Quote #:	
Activity:			
	Work done by:	Service Quote #:	
Activity:			

Section 6 - Maintenance

6.5 Cleaner Maintenance Checklist

Site:				Inspected b	y:		Date:					
Belt Cleaner	f:					Serial I	Number:					
Beltline Info Beltline Num				Belt Cond	ition:							
Belt Width:	□ 18" (450mm)	□ 24" (600mm)	□ 30" (750mm)	□ 36" (900mm)	□ 42" (1050mm)	□ 48" (1200mm)	□ 54" (1350mm)	□ 60" (1500mm)	□ 72" (1800mm)	□ 84" (2100mm)	□ 96" (2400mm)	
Belt Speed:_		fpm	Belt Thickr	ness:								
Belt Splice:_		Conditi	on of Splic	e:	_ Number	of Splices:_	[□ Skived □] Unskived	*Mechanical recommende	fasteners ed for skived belts	
Material con	nveyed:											
Days per we	ek run:		Hou	ırs per day ı	run:							
Blade Life: Date blade in	nstalled:		Da	nte blade ins	spected:		Estima	ted blade life	:			
Is blade mak	ing compl	ete contact	t with belt?		☐ Yes	□No						
Blade wear:		Left		Mi	ddle		Right					
Blade condit	tion:	□ G	ood	☐ Grooved	□Sr	niled	□ Not con	tacting belt	□ Dar	naged		
Measureme	nt of sprin	g:	Require	d	_	Currently						
For SAT XD 1 Inspect SAT		•	Air/N	litrogen Pre	ssure Requii	red	_	Currently				
Was Cleane	r Adjusted	l:	□ Yes	□No								
Pole Conditi	on:	□ Go	od l	□ Bent	□ Worn							
Lagging:		□ Side Lag		eramic	□ Rubbe	r 🗆 ()ther	□ None				
Condition of	lagging:	I	□ Good	□Bad	□ 0t	her						
Cleaner's Ov	erall Perf	ormance:		(Rate the fo	ollowing 1 - 5	, 1= very pod	or - 5 = very	good)				
Appearance	: [⊒: Com	nments:									
Location::		⊐: Com	nments:									
Maintenance	e::	⊐: Com	nments:									
Performance	e:: [⊐: Com	nments:				· · · · · · · · · · · · · · · · · · ·					
Other comm	ents:											

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 tip angle with gauge)				
	Belt tension too high	Ensure cleaner can conform to belt, or replace with alternate Flexco secondary cleaner				
Vibration	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				
	Nylon bearing worn out or missing	Replace nylon bearing				
	Cleaner not set up correctly	Ensure cleaner set up properly (5° laid back)				
Material buildup	Buildup on chute	Ensure cleaner is not located too close to back of chute, allowing buildup				
on cleaner	Cleaner being overburdened	Introduce Flexco precleaner				
	Excessive sticky material	Frequently clean unit of buildup				
	Cleaner over-tensioned	Ensure cleaner is correctly tensioned				
D 11. 14	Cleaner blade damage	Check blade for wear, damage and chips, replace where necessary				
Damaged belt cover	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 set up correctly	Ensure cleaner set up properly (check tip 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 blade 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				
	Blade in backwards	Install blade correctly and set correct tension				
	Incorrect cleaner blade selection	Change blade type to accomodate fastener style (UC or UF)				
Damage to mechanical fastener	Belt not skived correctly	Spot and redo splice correctly, lowering the profile flush or below belt surface				
Tuoterier	Blade angle incorrect	Reset with gauge				
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	Cupped Belt	Install hold-down roller and reset blade angle with gauge				
on outer edges only	Cleaner blade worn/damaged	Check blade for wear, damage and chips, replace where necessary				

8.1 Specs and Guidelines

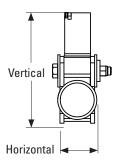
Pole Length Specifications*

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

Overall Pole Length Maximum Conveyor Span

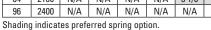
Clearance Guidelines for Installation

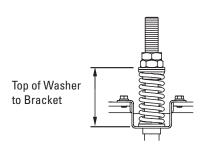
HORIZ CLEARANCI	ONTAL E REQUIRED	VERT CLEARANCI	
in.	mm	in.	mm
4-1/2	115	10	254



SST XD Spring Length Chart

	Belt Width		White Springs		ver ings			Go Spri	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
18	450	3 3/8	86	4	102	N/A	N/A	N/A	N/A
24	600	3 1/8	79	3 7/8	98	N/A	N/A	N/A	N/A
30	750	2 7/8	73	3 3/4	95	N/A	N/A	N/A	N/A
36	900	N/A	N/A	3 3/4	95	3 7/8	98	N/A	N/A
42	1050	N/A	N/A	3 5/8	92	3 3/4	95	N/A	N/A
48	1200	N/A	N/A	3 1/2	89	3 5/8	92	N/A	N/A
54	1350	N/A	N/A	3 3/8	86	3 5/8	92	3 3/4	95
60	1500	N/A	N/A	3 1/4	83	3 1/2	89	3 3/4	95
72	1800	N/A	N/A	N/A	N/A	3 3/8	86	3 5/8	92
84	2100	N/A	N/A	N/A	N/A	3 1/8	79	3 1/2	89
96	2400	N/A	N/A	N/A	N/A	N/A	N/A	3 3/8	86





SAT XD Pressure Chart

1000aio oilait								
Bo Wi	elt dth	Pres	sure					
in.	mm	psi	kPa					
18	450	15	103					
24	600	19	131					
30	750	23	159					
36	900	27	186					
42	1050	31	214					
48	1200	35	241					
54	1350	39	269					
60	1500	43	296					
72	1800	51	352					
84	2100	59	407					
96	2400	67	462					

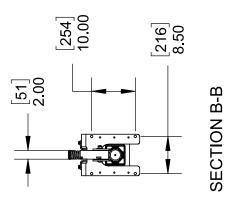
Specifications:

- Maximum Belt Speed800 FPM (4 m/s)
- Temperature Rating-30 to 180°F (-35 to 82°C)

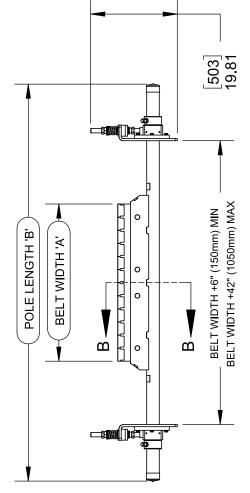


^{*}For special extra long pole length requirements a Pole Extender Kit (#76024) is available that provides 30' (750mm) of extended pole length. See Page 7. Pole Diameter - 2-7/8" (73mm)

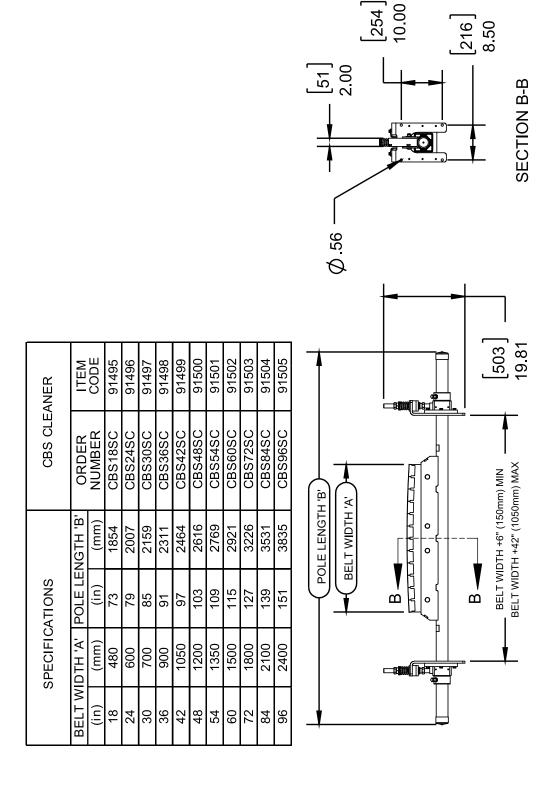
8.2 CAD Drawing - CBS Flat - SST XD



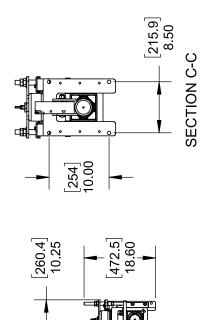
EANER	ITEM	CODE	79936	79937	79938	79939	79940	79941	79942	79943	79944	79945	79946
CBS CLEANER	ORDER	NUMBER	CBS18SF	CBS24SF	CBS30SF	CBS36SF	CBS42SF	CBS48SF	CBS54SF	CBS60SF	CBS72SF	CBS84SF	CBS96SF
	POLE LENGTH 'B'	(mm)	1829	1981	2134	2286	2438	2591	2743	5896	3200	3205	3810
ATIONS	POLE LE	(in)	72	78	84	06	96	102	108	114	126	138	150
SPECIFIC	SPECIFICATIONS TH 'A' PC	(mm)	480	009	200	006	1050	1200	1350	1500	1800	2100	2400
	BELT WIDTH 'A'	(in)	18	54	30	98	42	48	24	09	72	84	96



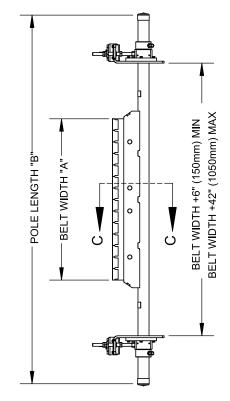
8.3 CAD Drawing - CBS Curved - SST XD



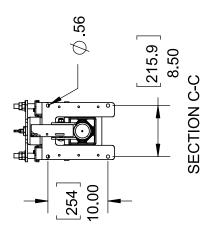
8.4 CAD Drawing - CBS Flat - SAT XD

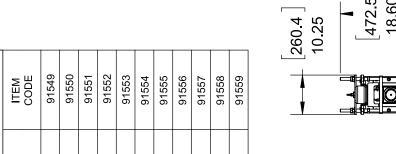


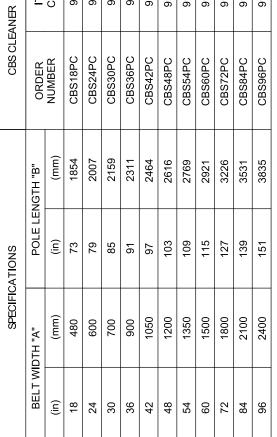
	1	-											
CBS CLEANER	ITEM	CODE	79958	79959	09662	79961	79962	79963	79964	79965	99662	79967	79968
	ORDER	NUMBER	CBS18PF	CBS24PF	CBS30PF	CBS36PF	CBS42PF	CBS48PF	CBS54PF	CBS60PF	CBS72PF	CBS84PF	CBS96PF
SPECIFICATIONS	POLE LENGTH "B"	(mm)	1854	2007	2159	2311	2464	2616	2769	2921	3226	3531	3835
	POLE LEI	(in)	73	62	85	91	26	103	109	115	127	139	151
	SPECIFIC	480	009	700	006	1050	1200	1350	1500	1800	2100	2400	
	BELT WIDTH "A"	(in)	18	24	30	36	42	48	54	09	72	84	96

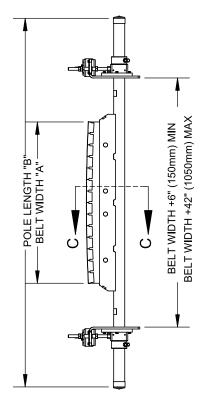


8.5 CAD Drawing - CBS Curved - SAT XD





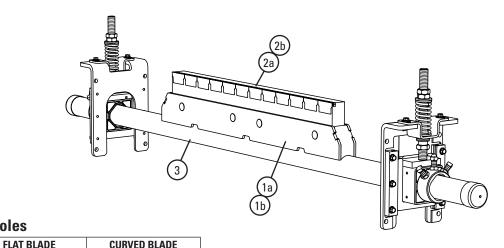






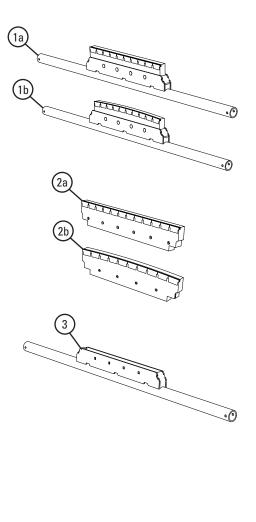
Section 9 - Replacement Parts

9.1 Replacement Parts List - Blades & Poles



Replacement Parts - Blades & Poles

		FLAT BLA	DE	CORVED BI		
		ORDERING	ITEM	ORDERING	ITEM	WT.
REF	DESCRIPTION	NUMBER	CODE	NUMBER	CODE	LBS.
	18" (450mm) CBS Blade/Pole	CBSBP18F	90101	CBSBP18C	91538	84.0
	24" (600mm) CBS Blade/Pole	CBSBP24F	90102	CBSBP24C	91539	98.0
	30" (750mm) CBS Blade/Pole	CBSBP30F	90103	CBSBP30C	91540	112.0
1a	36" (900mm) CBS Blade/Pole	CBSBP36F	90104	CBSBP36C	91541	126.0
(flat)	42" (1050mm) CBS Blade/Pole	CBSBP42F	90105	CBSBP42C	91542	140.0
	48" (1200mm) CBS Blade/Pole	CBSBP48F	90106	CBSBP48C	91543	154.0
1b (curved)	54" (1350mm) CBS Blade/Pole	CBSBP54F	90107	CBSBP54C	91544	168.0
(curveu)	60" (1500mm) CBS Blade/Pole	CBSBP60F	90108	CBSBP60C	91545	182.0
	72" (1800mm) CBS Blade/Pole	CBSBP72F	90109	CBSBP72C	91546	210.0
	84" (2100mm) CBS Blade/Pole	CBSBP84F	90110	CBSBP84C	91547	238.0
	96" (2400mm) CBS Blade/Pole	CBSBP96F	90111	CBSBP96C	91548	266.0
	18" (450mm) CBS Blade	CBSBLD18F	79947	CBSBLD18C	91527	16.0
	24" (600mm) CBS Blade	CBSBLD24F	79948	CBSBLD24C	91528	22.0
	30" (750mm) CBS Blade	CBSBLD30F	79949	CBSBLD30C	91529	27.0
_ [36" (900mm) CBS Blade	CBSBLD36F	79950	CBSBLD36C	91530	33.0
2a (flat)	42" (1050mm) CBS Blade	CBSBLD42F	79951	CBSBLD42C	91531	39.0
	48" (1200mm) CBS Blade	CBSBLD48F	79952	CBSBLD48C	91532	45.0
2b (curved)	54" (1350mm) CBS Blade	CBSBLD54F	79953	CBSBLD54C	91533	50.0
(curveu)	60" (1500mm) CBS Blade	CBSBLD60F	79954	CBSBLD60C	91534	56.0
	72" (1800mm) CBS Blade	CBSBLD72F	79955	CBSBLD72C	91535	67.0
	84" (2100mm) CBS Blade	CBSBLD84F	79956	CBSBLD84C	91536	79.0
	96" (2400mm) CBS Blade	CBSBLD96F	79957	CBSBLD96C	91537	90.0
	18" (450mm) CBS Repl Pole	CBSP18	91432			68.0
	24" (600mm) CBS Repl Pole	CBSP24	91433			76.0
	30" (750mm) CBS Repl Pole	CBSP30	91434			85.0
	36" (900mm) CBS Repl Pole	CBSP36	91435			93.0
	42" (1050mm) CBS Repl Pole	CBSP42	91436			101.0
3	48" (1200mm) CBS Repl Pole	CBSP48	91437			109.0
	54" (1350mm) CBS Repl Pole	CBSP54	91438			118.0
	60" (1500mm) CBS Repl Pole	CBSP60	91439			126.0
	72" (1800mm) CBS Repl Pole	CBSP72	91440			143.0
	84" (2100mm) CBS Repl Pole	CBSP84	91441			159.0
	96" (2400mm) CBS Repl Pole	CBSP96	91442			176.0

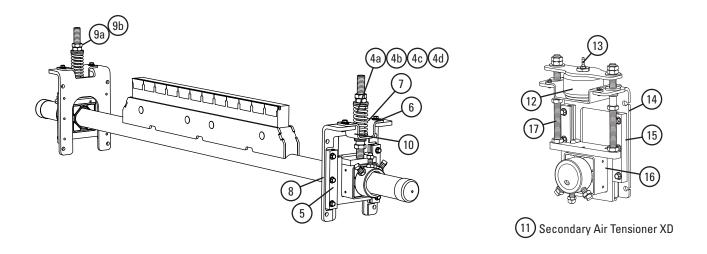


Shaded items are made to order. Lead time: 3 weeks

*Hardware Included Lead time: 1 working day

Section 9 - Replacement Parts

9.2 Replacement Parts List - SST XD/SAT XD Tensioners



Replacement Parts - SST XD Tensioner

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
4a	Tension Spring — White (1 ea.) for belts 18–30" (450–750mm)	STS-W	75846	0.5
4b	Tension Spring — Silver (1 ea.) for belts 36–48" (900–1200mm)	STS-S	75843	0.8
4c	Tension Spring — Black (1 ea.) for belts 54–84" (1350–2100mm)	STS-B	75844	1.0
4d	Tension Spring — Gold (1 ea.) for belts 96" (2400mm)	STS-G	78142	1.3
5	HD Torsion Pole Mount* (1 ea.) (includes HD adjusting rod, nuts & sleeve) (See 9a & 9b for bushings)	SSTHDPM	77868	15.0
6	SST XD Mounting Base Kit* (includes 1 mtg base, 2 slide guides, top hat bracket & bottom bushing)	SSTXDMK	91412	10.2
7	SST Hat Bracket (pair)	SSTHB	79582	3.0
8	Slide Guide Kit* (incl. 2 slide guides)	STGK2	77867	1.1
9a	SST Bushing Kit - White/Silver (includes 2 bushings)	SSTBK-W	76636	0.1
9b	SST Bushing Kit - Black/Gold (includes 2 bushings)	SSTBK-B	76637	0.1
10	SST Lower Bushing Kit (pair)	SSTLBK	79493	0.2
_	SST XD Spring Tensioner* – White (includes 2 each items 4a, 5, 6, & 9a) for belts 18–30" (450–750mm)	SSTXD-W	91408	60.6
_	SST XD Spring Tensioner* – Silver (includes 2 each items 4b, 5, 6, & 9a) for belts 36–48" (900–1200mm)	SSTXD-S	91409	61.4
_	SST XD Spring Tensioner* – Black (includes 2 each items 4c, 5, 6, & 9b) for belts 54-84" (1350–2100mm)	SSTXD-B	91410	62.0
_	SST XD Spring Tensioner* – Gold (includes 2 each items 4d, 5, 6, & 9b) for belts 96" (2400mm)	SSTXD-G	91411	62.6

*Hardware Included Lead time: 1 working day

Replacement Parts - SAT XD Tensioner

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
11	SAT XD	SATXDNCB	91414	41.0
12	SAT Air/Water Bag Kit	SATB	76083	5.1
13	SAT 1/8" Hose Barb Kit	SATHB	76084	0.1
14	SAT XD Mounting Base Kit	SATXDMK	91415	11.6
15	ST Slide Guide Kit	STGK2	77867	1.1
16	SAT2 Torsion Pole Mount	SAT2PM	78732	11.1
17	SAT2 Adjusting Rod Kit	SAT2AK	78733	5.0

Lead time: 1 working day

Spring Tensioner Selection Chart

-pg				
CLEANER SIZE	91408 SSTXD-W	91409 SSTXD-S	91410 SSTXD-B	91411 SSTXD-G
CBS 18-30" (450-750mm)	Х			
CBS 36-48" (900-1200mm)		Х		
CBS 54-84" (1350-2100mm)			Х	
CBS 96" (2400mm)				Х

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:



- Extra cleaning power right on the head pulley
- A 10" (250mm) 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

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

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 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



