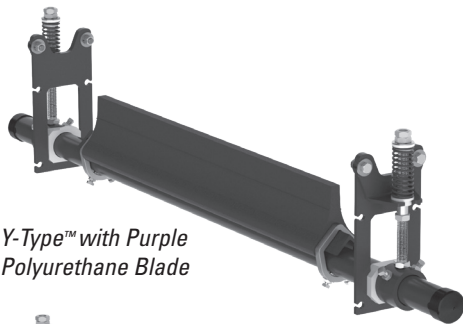
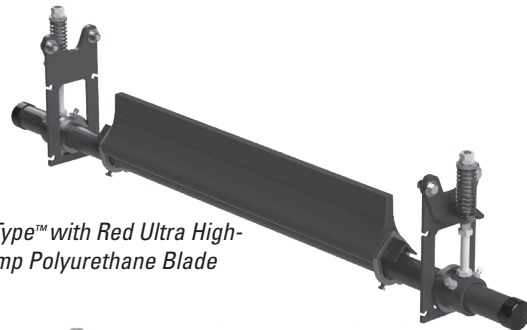


Y-Type™ Standard-Duty Secondary Belt Cleaner

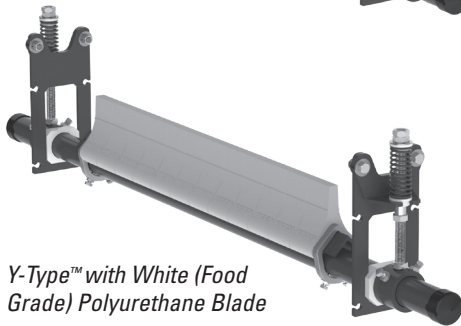
Installation, Operation and Maintenance Manual



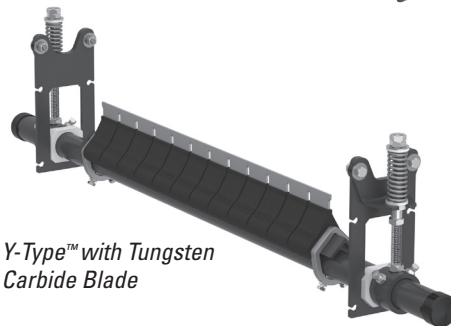
*Y-Type™ with Purple
Polyurethane Blade*



*Y-Type™ with Red Ultra High-
Temp Polyurethane Blade*



*Y-Type™ with White (Food
Grade) Polyurethane Blade*



*Y-Type™ with Tungsten
Carbide Blade*

Y-Type™ Secondary Belt 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 Y-Type™ Secondary 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 visit our web site or contact 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 Y-Type™ Secondary Belt 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 Y-Type™ Secondary Belt Cleaner, it is important to review and understand the following safety information.

There are set-up, maintenance and operational activities involving both **stationary** and **operating** conveyors. Each case has a safety protocol.

2.1 Stationary Conveyors

The following activities are performed on stationary conveyors:

- Installation
- Blade replacement
- Repairs
- Tension adjustments
- Cleaning

DANGER

It is imperative that 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

Belt cleaners can become projectile hazards. Stay as far from the cleaner as practical and use safety eyewear and headgear. Missiles can inflict serious injury.

WARNING

Never adjust anything on an operating cleaner. 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.

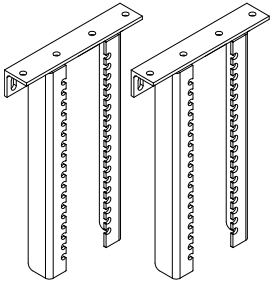
Section 3 – Pre-installation Checks and Options

3.1 Checklist

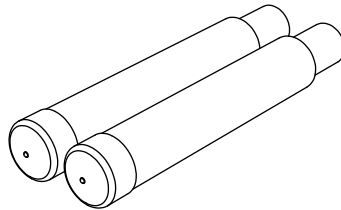
- Check that the cleaner size is correct for the beltline width.
- Check the belt cleaner carton and make sure all the parts are included.
- Review the “Tools Needed” list on the top of the installation instructions.
- Check the conveyor site:
 - Will the cleaner be installed on a chute?
 - Is the install on an open head pulley requiring mounting structure? (see 3.2 - Optional Installation Accessories)

3.2 Optional Installation Accessories

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



YST SD Drop Bracket Kit
(incl. 2 brackets)
(Item Code: 113390)



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

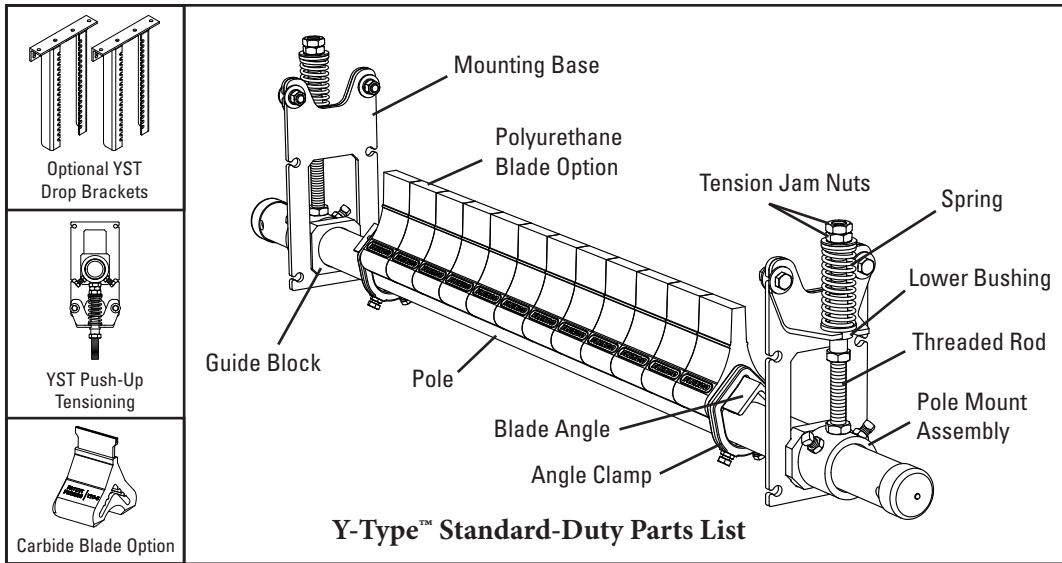
Optional Mounting Kits (includes 2 brackets/bars)

DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
Pole Extender Kit	MAPEK	76024	21.9
YST SD Drop Bracket Kit	YSTDBK2	113390	32.0

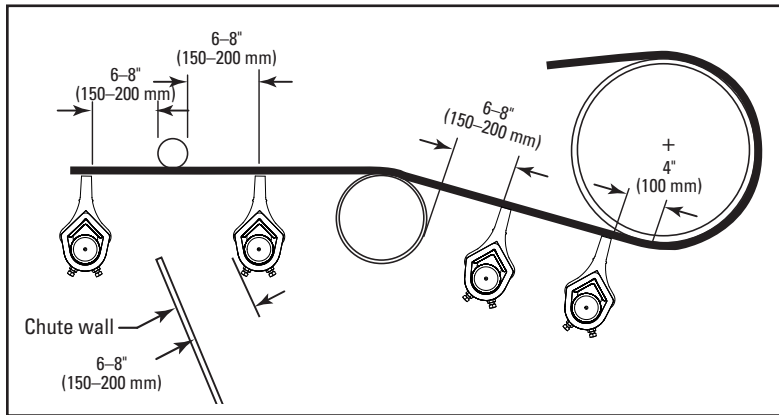
Lead time: 1 working day

Section 4 – Installation Instructions

4.1 Y-Type™ - Pull-Up Tensioning



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



Before You Begin:

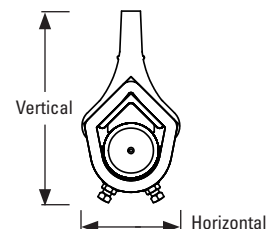
- For chute mounting it may be necessary to cut an access hole to allow for installation and inspections (dimensions in Step 1).
- Follow all safety precautions when using a cutting torch.
- If welding, protect all fastener threads from weld spatter.
- For cleaner clearance requirements see chart.

Tools Needed

- 5/8" (16mm) Wrench
- 1/2" (13mm) Wrench
- 3/4" (19mm) Wrench
- 1 1/8" (29mm) Wrench
- OR Large Adjustable/ Crescent Wrench & Channel Locks
- Tape Measure
- Ratchet with 3/4" (19mm) Socket
- (x2) 6" C-Clamps (for Temporary Positioning of Mounting Brackets)
- Cutting Torch and/or Welder (as needed)
- Marking Pen or Soapstone

Clearance Requirements for Installation

	Vertical	Horizontal
Y-Type Polyurethane	8-1/4" (210mm)	4-1/4" (108mm)
Y-Type Carbide	7-3/4" (184mm)	4-1/4" (108mm)



Section 4 – Installation Instructions

4.1 Y-Type™ - Pull-Up Tensioning

- 1. Install spring tensioner mounting bases.** Clamp mounting base into position so top holes of mounting bracket are located the proper distance below bottom of belt (Fig. 1). With flippable bracket positioned for pull-up tensioning, bolt the mounting base in place first (Fig. 1). Locate and mark mounting base position on other side but do not install at this time.

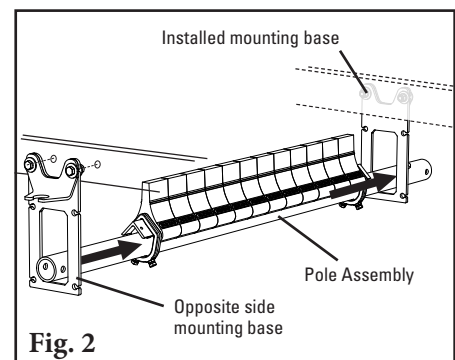
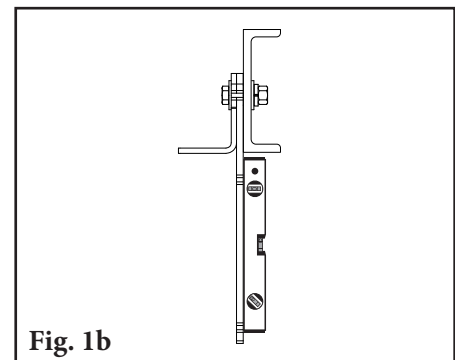
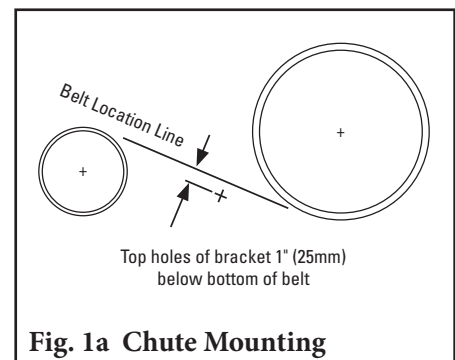
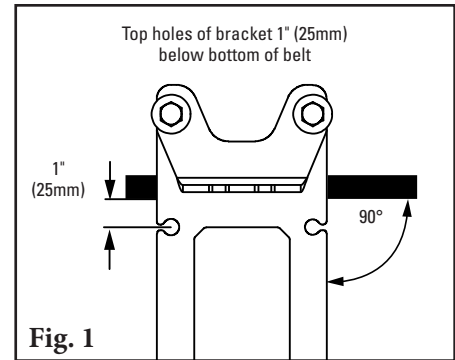
For chute mounting: A belt location line must first be established. Draw a line on chute replicating this location. If the head pulley and snub pulley are close, it may be necessary to assume an approximate belt line between the two. In the determined location draw a line perpendicular to belt line. Make a mark at the proper distance below bottom of belt (Fig. 1a).

Locate a mounting bracket perpendicular to belt location line (Fig. 1a), aligning top holes of mounting bracket with mark made in previous step. Bolt bracket in place. Repeat this step on opposite side. Cut access holes using provided mounting template.

NOTE: The mounting brackets must be aligned perpendicular to the belt.

NOTE: If structure or chute is angled or out of alignment, ensure the tensioner or mounting brackets are plumb (Fig. 1b).

- 2. Install the pole.** Insert pole assembly into installed mounting base from the inside. Then slide opposite side mounting base onto pole and bolt in place (Fig. 2).



Section 4 – Installation Instructions

4.1 Y-Type™ - Pull-Up Tensioning

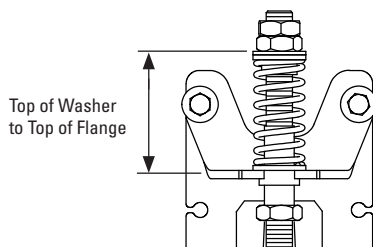
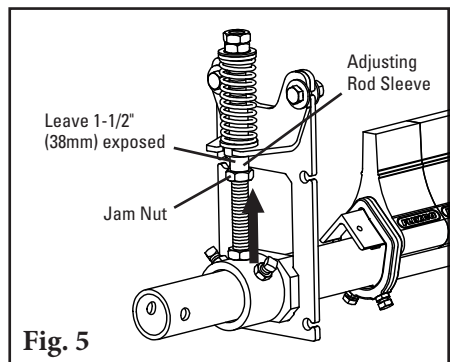
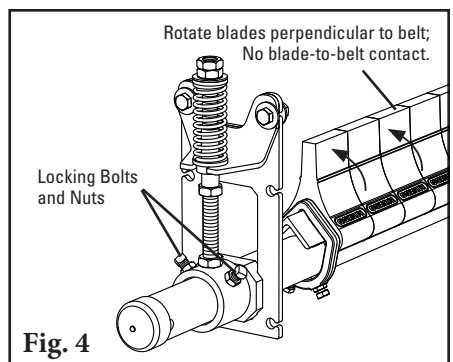
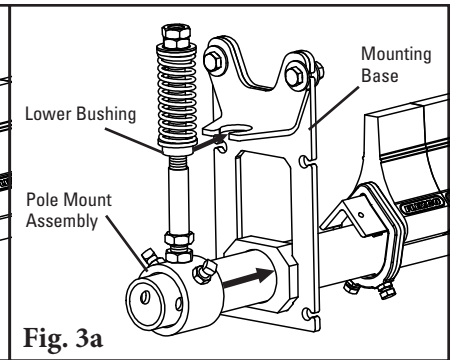
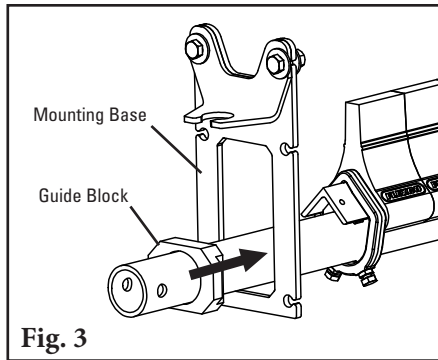
3. **Assemble tensioners.** Slide guide blocks over each end of pole and position in mounting base as shown (Fig. 3). Slide tensioner assembly over each end of pole and position lower bushing into mounting base (Fig. 3a).

4. **Secure pole.** Center pole/blades on belt and rotate pole until blades are perpendicular to belt. Tighten the two locking bolts and nuts on each tensioner assembly to lock pole in place (Fig. 4).

5. **Set blade tension.** Loosen top tension jam nut on both sides and turn nuts until correct spring compression is reached. Spring compression is determined by spring length. See chart below for correct spring length for your specific cleaner (polyurethane or carbide) and belt width.

6. **Set adjusting rod sleeve.** After setting blade tension, screw adjusting rod sleeve up into the UHMW bushing until 1-1/2" (38mm) is showing (Fig. 5). Tighten adjusting rod sleeve jam nut.

7. **Confirm pole moves freely.** After adding tension, push the pole down and confirm it rebounds/moves freely. If there is any binding confirm the tensioners are plumb. Loosen locking bolts and nuts and adjust the collar until tensioner moves freely, then tighten the locking bolts and nuts (Fig. 4).



YST SD Spring Length Chart

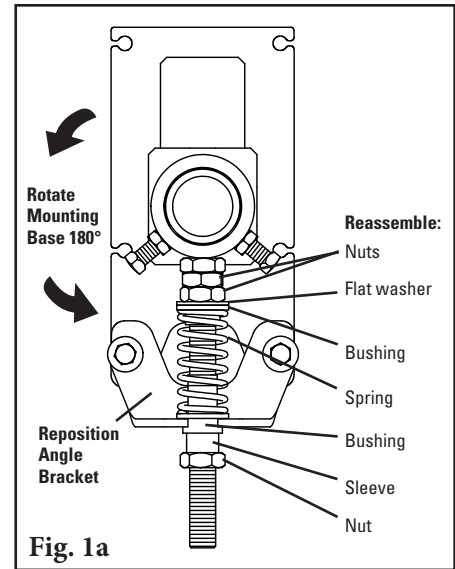
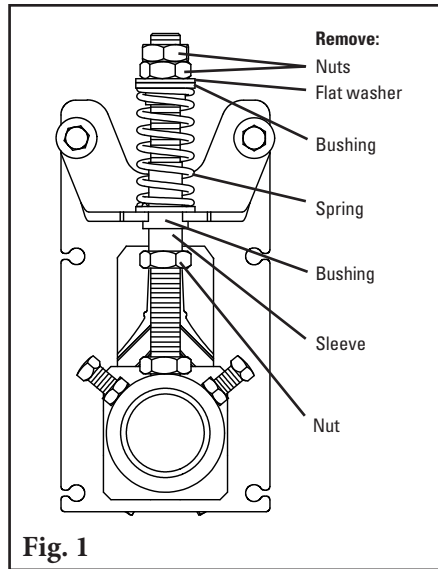
Blade Width		Carbide Tip		Purple/White Polyurethane Tip				Red UHT Polyurethane Tip			
		Silver Springs		Yellow Springs		Purple Springs		Yellow Springs		Purple Springs	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
18	450	4 1/8	105	3 1/4	83	3 5/8	92	3 1/8	79	3 5/8	92
24	600	4	102	2 7/8	73	3 3/8	86	2 3/4	70	3 3/8	86
30	750	3 7/8	98	2 5/8	67	3 1/8	79	2 1/2	64	3 1/8	79
36	900	3 3/4	95	2 1/4	57	2 7/8	73	2 1/4	57	2 7/8	73
42	1050	3 5/8	92	NA	NA	2 5/8	67	NA	NA	2 5/8	67
48	1200	3 1/2	89	NA	NA	2 3/8	60	NA	NA	2 3/8	60

Shading indicates preferred spring option.

Section 4 – Installation Instructions

4.2 Y-Type™ - Push-Up Tensioning

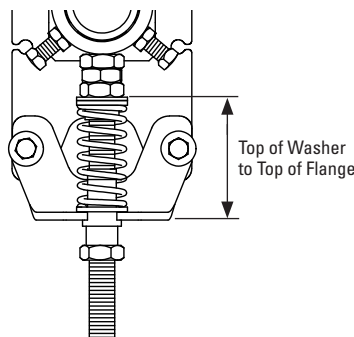
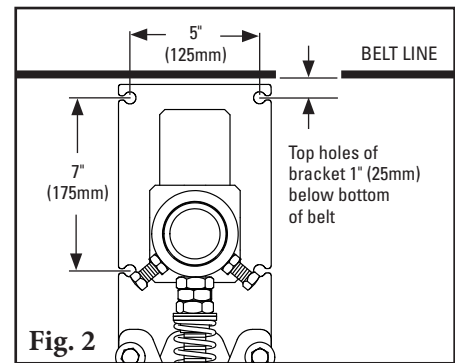
- 1. Reconfigure the standard pull-up tensioner to the push-up style.** Remove the 3 nuts, flat washer, 2 bushings, spring, and sleeve (Fig. 1). Rotate the mounting base so the two flanges point downward and reposition the angle bracket. Reassemble components on the threaded rod in the order shown (Fig. 1a).
- 2. Install the tensioner mounting bases.** Mount the bases to the structure or chute so that the top holes in the brackets are 1" (25mm) below the bottom of the belt (Fig. 2).



- 3. Install the cleaner pole and set the blade angle.** Follow the installation Steps 2–4 from the cleaner instructions on Pages 8 and 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.** Turn the 2 upper tension nuts until the spring is compressed to the length shown on the chart. Tighten the 2 tension nuts together to prevent loosening.
- 5. Confirm that the pole moves freely.** After adding tension, push the pole down and confirm that it rebounds/moves freely. If there is any binding, confirm that the tensioners are plumb. Loosen the locking bolts and nuts and adjust the collar until the tensioner moves freely, then tighten the locking bolts and nuts.



YST SD Spring Length Chart

Blade Width	Carbide Tip		Purple/White Polyurethane Tip				Red UHT Polyurethane Tip				
	Silver Springs		Yellow Springs		Purple Springs		Yellow Springs		Purple Springs		
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
18	450	4 1/8	105	3 1/4	83	3 5/8	92	3 1/8	79	3 5/8	92
24	600	4	102	2 7/8	73	3 3/8	86	2 3/4	70	3 3/8	86
30	750	3 7/8	98	2 5/8	67	3 1/8	79	2 1/2	64	3 1/8	79
36	900	3 3/4	95	2 1/4	57	2 7/8	73	2 1/4	57	2 7/8	73
42	1050	3 5/8	92	NA	NA	2 5/8	67	NA	NA	2 5/8	67
48	1200	3 1/2	89	NA	NA	2 3/8	60	NA	NA	2 3/8	60

Shading indicates preferred spring option.

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.
- If vibration occurs or more cleaning efficiency is desired, increase blade tension by making 1/8" (3mm) compression adjustments on the tension springs.
- 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 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 Y-Type™ Secondary 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 can determine if:

- Spring length is correct length for optimal tensioning.
- Pole can move up and down with no binding of the tensioners.
- Belt looks clean or if there are areas that are dirty.
- Blade is worn out and needs to be replaced.
- There is damage to the blade or other cleaner components.
- Fugitive material is built up on cleaner or in transfer area.
- There is cover damage to the belt.
- There is vibration or bouncing of the cleaner on the belt.
- There is material buildup on snub pulley (if used).
- Significant signs of carryback exist.

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, perform a physical inspection of the cleaner through the following tasks:

- Clean material buildup from cleaner blade and pole.
- Verify pole can move smoothly up and down.
- Closely inspect blade for wear and any damage. Replace if needed.
- Ensure full blade to belt contact.
- Inspect cleaner pole for damage.
- Inspect all fasteners for tightness and wear. Tighten or replace as needed.
- Replace any worn or damaged components.
- Check tension of cleaner blade to belt. Adjust tension if necessary using the steps on Pages 9 and 10.
- When maintenance tasks are completed, test run conveyor to ensure cleaner is performing properly.

Section 6 – Maintenance

6.4 Blade Replacement Instructions (Carbide or Polyurethane)

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

1. Lower the cleaner away from the belt.

Loosen the jam nuts on the threaded rods to remove the tension and lower the cleaner (Fig. 1 & 1a). If mounted on a chute, remove the near side tensioner assembly to access the blade cartridge.

2. Remove the blade angle from pole.

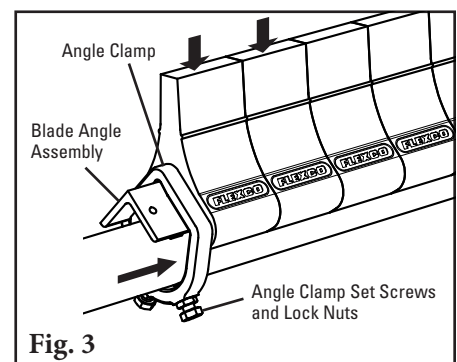
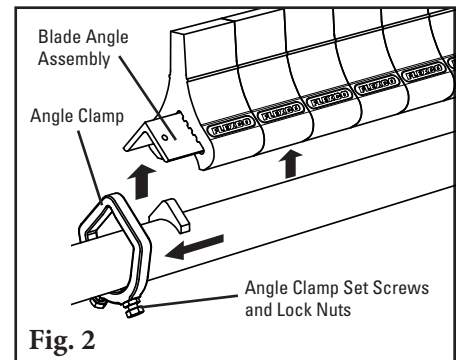
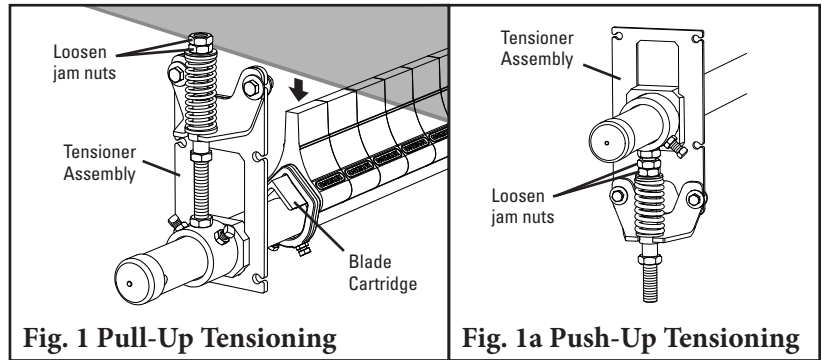
Loosen the angle clamp lock nuts and the set screws on both sides of the cleaner (Fig. 2). Slide the angle clamps off of each end of angle and remove the blade angle assembly from the pole.

3. Replace the cushions. Cushions may be removed from the angle by sliding them off each end, or the entire angle with all cushions may be replaced at once.

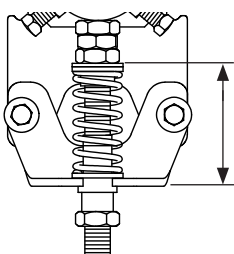
4. Reinstall the blade angle. Set the new cushions and the angle back on the pole and slide the angle clamps back onto the angle (Fig. 3). Tighten the angle clamp set screws and lock nuts on both sides. Verify that the blades are centered and perpendicular to the belt.

5. Set the blade tension. Turn the adjustment nuts until the correct spring compression is reached. Spring compression is determined by spring length. See the chart below for correct spring length for your belt width.

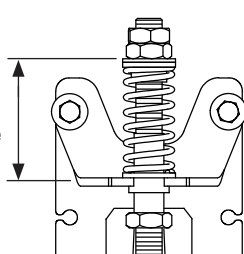
6. Test run the cleaner and inspect cleaning performance. If vibration occurs or more cleaning efficiency is desired, increase the blade tension by making 1/8" (3mm) compression adjustments on tension springs.



Push-Up Tensioning



Pull-Up Tensioning



YST SD Spring Length Chart

Blade Width	Carbide Tip		Purple/White Polyurethane Tip				Red UHT Polyurethane Tip				
	Silver Springs		Yellow Springs		Purple Springs		Yellow Springs		Purple Springs		
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
18	450	4 1/8	105	3 1/4	83	3 5/8	92	3 1/8	79	3 5/8	92
24	600	4	102	2 7/8	73	3 3/8	86	2 3/4	70	3 3/8	86
30	750	3 7/8	98	2 5/8	67	3 1/8	79	2 1/2	64	3 1/8	79
36	900	3 3/4	95	2 1/4	57	2 7/8	73	2 1/4	57	2 7/8	73
42	1050	3 5/8	92	NA	NA	2 5/8	67	NA	NA	2 5/8	67
48	1200	3 1/2	89	NA	NA	2 3/8	60	NA	NA	2 3/8	60

Shading indicates preferred spring option.

Section 6 – Maintenance

6.5 Maintenance Log

Conveyor Name/No. _____

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

Activity: _____

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

Activity: _____

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

Activity: _____

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

Activity: _____

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

Activity: _____

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

Activity: _____

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

Activity: _____

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 Condition: _____

Belt Width: 18" 24" 30" 36" 42" 48"
(450mm) (600mm) (750mm) (900mm) (1050mm) (1200mm)

Head Pulley Diameter (Belt & Lagging): _____ 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

Blade wear: Left _____ Middle _____ Right _____

Blade condition: Good Grooved Smiled Not contacting belt Damaged

Measurement of spring: Required _____ Currently _____

Was Cleaner Adjusted: Yes No

Pole Condition: Good Bent Worn

Lagging: 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)
	Belt tension too high	Ensure cleaner can conform to belt, or replace with alternate Flexco secondary cleaner
	Belt flap	Introduce hold-down roller to flatten belt
	Cleaner over-tensioned	Ensure cleaner is correctly tensioned
	Cleaner under-tensioned	Ensure cleaner is correctly tensioned
Material buildup on cleaner	Cleaner not set up correctly	Ensure cleaner set up properly (check tip angle)
	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
Cleaner not conforming to belt	Cleaner not set up correctly	Ensure cleaner set up properly (check tip angle)
	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)
	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
	Cleaner cannot conform	Ensure cleaner can conform to belt, introduce hold-down roller, or replace with alternate Flexco secondary cleaner
Missing material in belt center only	Cupped Belt	Install hold-down roller and reset blade angle
	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
	Cleaner blade worn/damaged	Check blade for wear, damage and chips, replace where necessary
Tensioners binding	Tensioners not aligned properly	Adjust mounting bases until tensioners travel without binding. Refer to instructions for alignment requirements

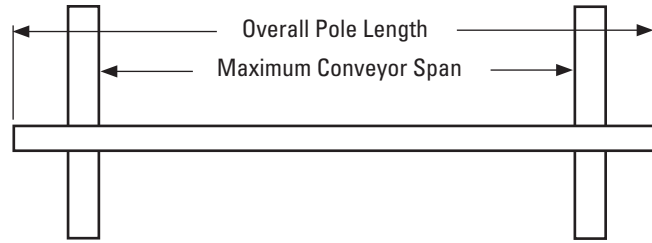
Section 8 – Specifications and CAD Drawings

8.1 Specifications and Guidelines

Pole Length Specifications

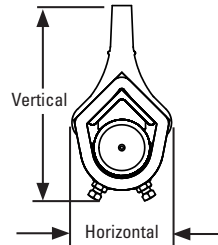
CLEANER SIZE		POLE LENGTH		MAXIMUM CONVEYOR SPAN	
in.	mm	in.	mm	in.	mm
18	450	48	1200	40	1025
24	600	54	1350	46	1175
30	750	60	1500	52	1325
36	900	66	1650	58	1475
42	1050	72	1800	64	1625
48	1200	78	1950	70	1775

Pole Length - Belt +30" (750mm)
 Pole Diameter - 2-3/8" (60mm)



Clearance Guidelines for Installation

CLEANER TYPE	BELT WIDTH/ CLEANER SIZE		HORIZONTAL CLEARANCE REQUIRED		VERTICAL CLEARANCE REQUIRED	
	in.	mm	in.	mm	in.	mm
Y-Type Polyurethane	18-48	450-1200	4-1/4	110	8-1/4	210
Y-Type Carbide	18-48	450-1200	4-1/4	110	7-3/4	184



Y-Type Blade Specifications

Cushion	Durometer	Temperature Range
Purple (Standard)	86A	-30 to 180°F -35 to 82°C
White (Food Grade) ‡	83A	-30 to 180°F -35 to 82°C
Red (Ultra High-Temp)	90A	Up to 400°F (200°C) Spikes to 450°F (232°C)
Carbide	86A	-30 to 180°F -35 to 82°C

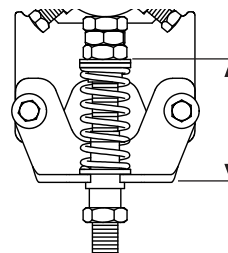
‡ All ingredients used in the polyurethane formulation of this blade comply with the relevant requirements of 21 CFR (FDA Code of Federal Regulations) for use in repeated bulk dry food applications

YST SD Spring Length Chart

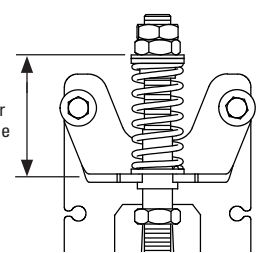
Blade Width		Carbide Tip		Purple/White Polyurethane Tip				Red UHT Polyurethane Tip			
		Silver Springs		Yellow Springs		Purple Springs		Yellow Springs		Purple Springs	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
18	450	4 1/8	105	3 1/4	83	3 5/8	92	3 1/8	79	3 5/8	92
24	600	4	102	2 7/8	73	3 3/8	86	2 3/4	70	3 3/8	86
30	750	3 7/8	98	2 5/8	67	3 1/8	79	2 1/2	64	3 1/8	79
36	900	3 3/4	95	2 1/4	57	2 7/8	73	2 1/4	57	2 7/8	73
42	1050	3 5/8	92	NA	NA	2 5/8	67	NA	NA	2 5/8	67
48	1200	3 1/2	89	NA	NA	2 3/8	60	NA	NA	2 3/8	60

Shading indicates preferred spring option.

Push-Up Tensioning



Pull-Up Tensioning



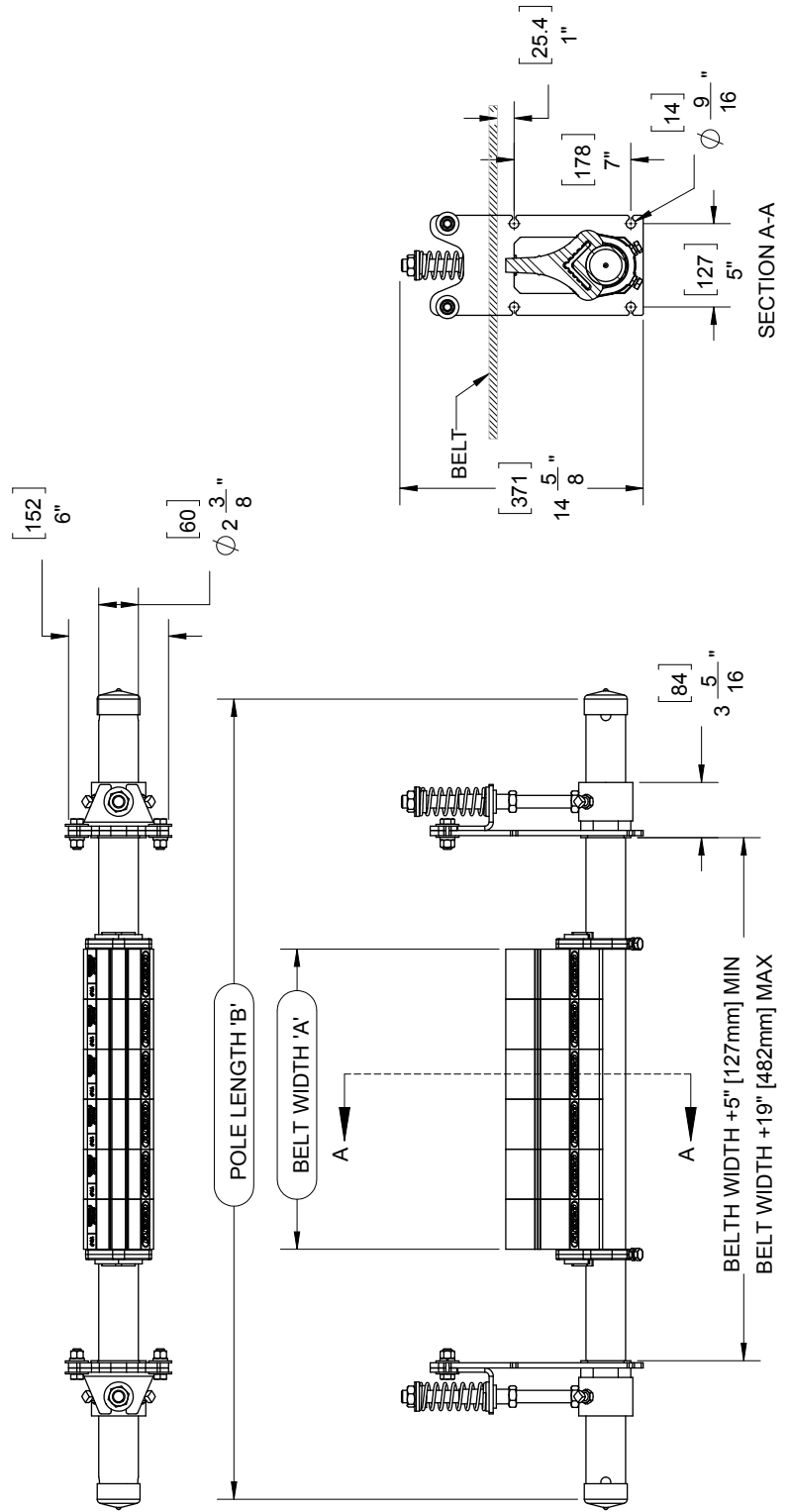
Specifications:

- Maximum Belt Speed600 FPM (3M/sec)
- Usable Blade Wear Length.....2" (50mm) (Polyurethane)
1/4" (6mm) (Carbide)
- Blade MaterialsPurple: Polyurethane (proprietary blend for abrasion resistance and long wear)
White: Polyurethane (chemical resistant/food grade)
Red: Polyurethane (ultra high-temp)
Carbide: Tungsten Carbide
- Available for Belt Widths18 to 48" (450 to 1200mm). Other sizes available upon request.
- CEMA Cleaner RatingClass 2 (Standard-duty with polyurethane blades)
Class 3 (Standard-duty with Carbide blades)

Section 8 – Specifications and CAD Drawings

8.2 CAD Drawing – Y-Type™ Polyurethane

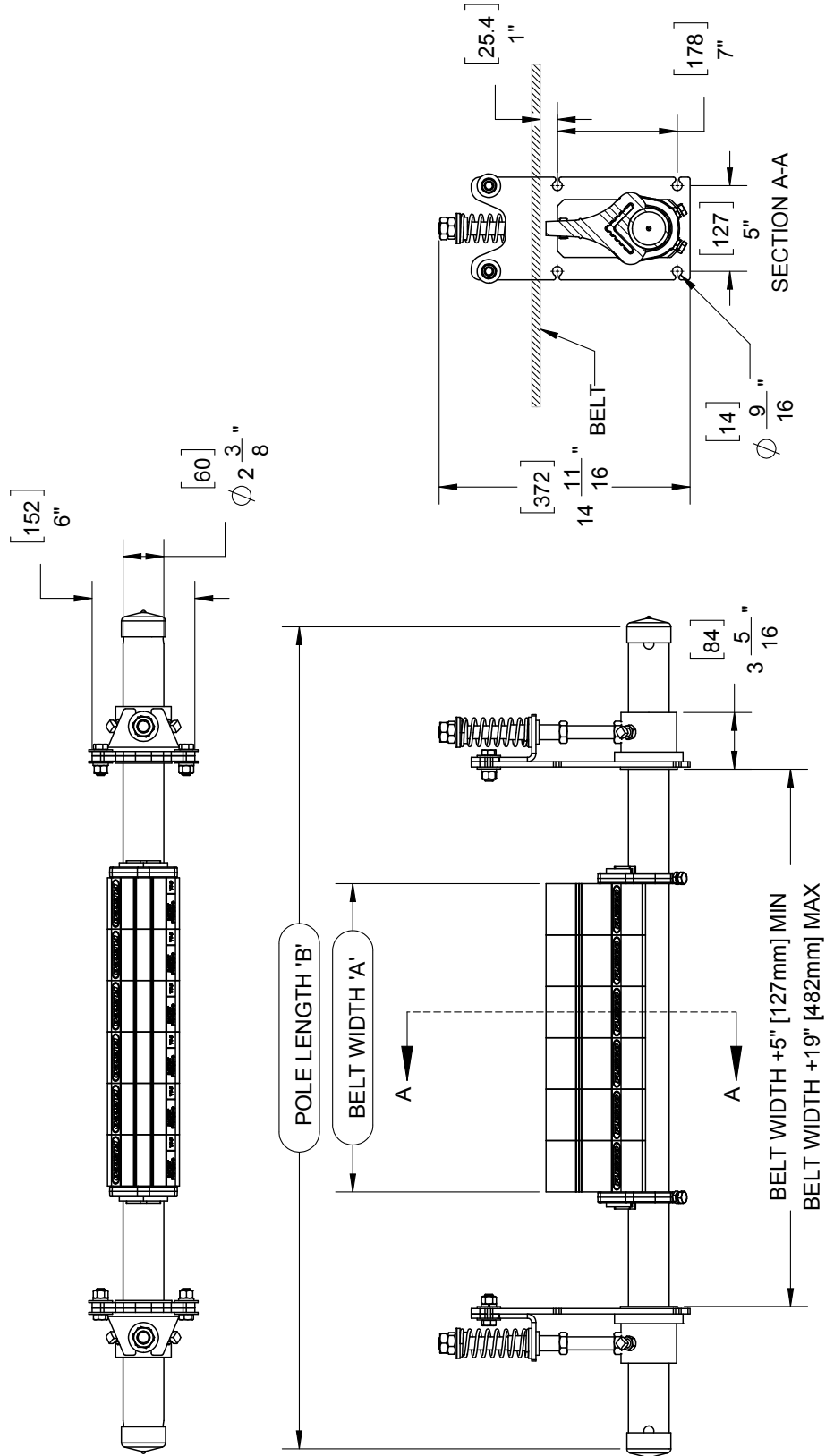
SPECIFICATIONS			BLADE TYPE	ORDER NUMBER	ITEM CODE	ITEM 1		ITEM 2	
BELT WIDTH 'A'	POLE LENGTH 'B'	ORDER NUMBER				ITEM CODE	ORDER NUMBER	ITEM CODE	
(IN)	(IN)	(mm)							
18	48	1219	PURPLE WHITE	YT-18S YTW-18S	79765 79771	YTP-18/450	79587	YTA-18/450	79593
24	54	1371	PURPLE WHITE	YT-24S YTW-24S	79766 79772	YTP-24/600	79588	YTA-24/600	79594
30	60	1524	PURPLE WHITE	YT-30S YTW-30S	79767 79773	YTP-30/750	79589	YTA-30/750	79595
36	66	1676	PURPLE WHITE	YT-36S YTW-36S	79768 79774	YTP-36/900	79590	YTA-36/900	79596
42	72	1829	PURPLE WHITE	YT-42S YTW-42S	79769 79775	YTP-42/1050	79591	YTA-42/1050	79597
48	78	1981	PURPLE WHITE	YT-48S YTW-48S	79770 79776	YTP-48/1200	79592	YTA-48/1200	79598



Section 8 – Specifications and CAD Drawings

8.3 CAD Drawing – Y-Type™ Ultra High Temp Polyurethane

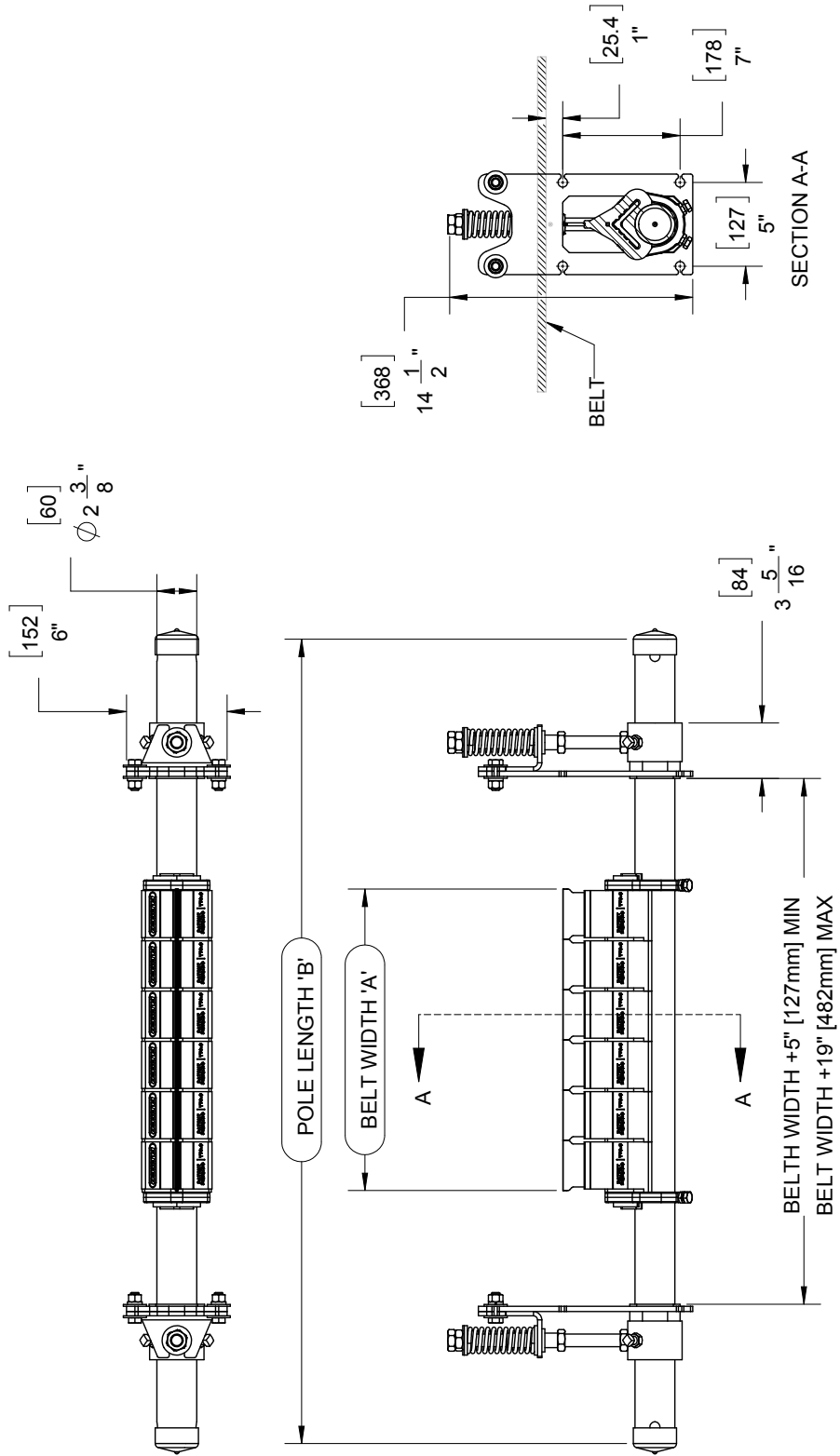
SPECIFICATIONS		ITEM 1		ITEM CODE	ITEM 2	
		POLE			BLADE ANGLE	
BELT WIDTH 'A'	POLE LENGTH 'B'	ORDER NUMBER	ITEM CODE	ORDER NUMBER	ITEM CODE	
(IN)	(IN)					
(mm)	(mm)					
18	48	YTR-18S	91798	YTP-18/450	79587	79593
24	60	YTR-24S	91799	YTP-24/600	79588	79594
30	70	YTR-30S	91800	YTP-30/750	79589	79595
36	90	YTR-36S	91801	YTP-36/900	79590	79596
42	105	YTR-42S	91802	YTP-42/1050	79591	79597
48	120	YTR-48S	91803	YTP-48/1200	79592	79598



Section 8 – Specifications and CAD Drawings

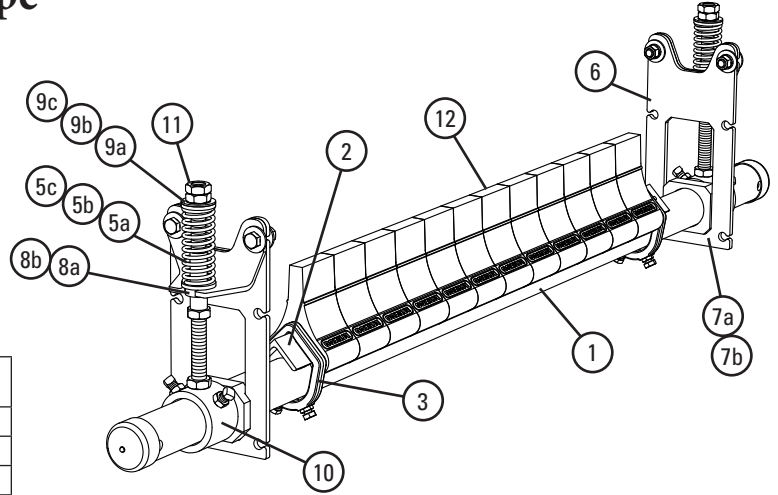
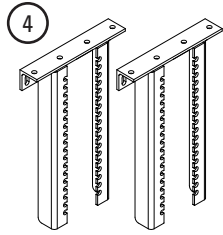
8.4 CAD Drawing – Y-Type™ Carbide

SPECIFICATIONS			ORDER NUMBER	ITEM CODE	ITEM (1) POLE		ITEM (2) BLADE ANGLE					
BELT WIDTH 'A'	POLE LENGTH 'B'	ORDER NUMBER			ITEM CODE	ORDER NUMBER	ITEM CODE					
(IN)	(IN)	(mm)	18	450	48	1219	YT-TC-18S	79759	YTP-18/450	79587	YTA-18/450	79593
24	600	54	1371	YT-TC-24S	79760	YTP-24/600	79588	YTA-24/600	79594			
30	700	60	1524	YT-TC-30S	79761	YTP-30/750	79589	YTA-30/750	79595			
36	900	66	1676	YT-TC-36S	79762	YTP-36/900	79590	YTA-36/900	79596			
42	1050	72	1829	YT-TC-42S	79763	YTP-42/1050	79591	YTA-42/1050	79597			
48	1200	78	1981	YT-TC-48S	79764	YTP-48/1200	79592	YTA-48/1200	79598			



Section 9 – Replacement Parts List

9.1 Replacement Parts List- Y-Type™



Replacement Parts

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
1	18" (450mm) Y-Type™ Pole	YTP-18/450	79587	20.2
	24" (600mm) Y-Type Pole	YTP-24/600	79588	22.7
	30" (750mm) Y-Type Pole	YTP-30/750	79589	25.2
	36" (900mm) Y-Type Pole	YTP-36/900	79590	27.7
	42" (1050mm) Y-Type Pole	YTP-42/1050	79591	30.2
	48" (1200mm) Y-Type Pole	YTP-48/1200	79592	32.7
2	18" (450mm) Y-Type Cushion Angle	YTA-18/450	79593	5.7
	24" (600mm) Y-Type Cushion Angle	YTA-24/600	79594	7.3
	30" (750mm) Y-Type Cushion Angle	YTA-30/750	79595	8.9
	36" (900mm) Y-Type Cushion Angle	YTA-36/900	79596	10.4
	42" (1050mm) Y-Type Cushion Angle	YTA-42/1050	79597	12.0
	48" (1200mm) Y-Type Cushion Angle	YTA-48/1200	79598	13.6
3	Y-Type Angle Clamp* (2 Clamps)	YTAC	79623	2.2
4	YST Drop Bracket Kit (2 Brackets)	YSTDBK2	113390	32.0
5a	YST Spring Yellow	YSTS-Y	79795	0.3
5b	YST Spring Purple	YSTS-P	79796	0.4
5c	YST Spring Silver (Y-Type Carbide Cleaners)	CTS-S	77743	0.5
6	YST Mounting Bracket (incl. Angle Bracket)	YSTMB	79843	3.3
7a	YST Guide Block Kit (Pair)	YSTGBK	79845	0.4
7b	YST Guide Block Kit UHT (Pair)	YSTGBK-R	91811	0.4
8a	YST Lower Bushing Kit (Pair)	YSTLBK	79846	0.1
8b	YST Lower Bushing Kit UHT (Pair)	YSTLBK-R	91812	0.1
9a	YST Top Bushing Kit White (Pair)	YSTTBK-W	79847	0.1
9b	YST Top Bushing Kit Black (Pair)	YSTTBK-B	79855	0.1
9c	YST Top Bushing Kit UHT (Pair)	YSTBKPU-R	91813	0.1
10	YST Pole Mount Kit*	YSTPMK	79848	4.3
11	YST Adjusting Rod Nut Kit	YSTANK	79857	0.2
-	YST Tensioner w/Yellow Spring (Pair) (incl. 2 ea. item 5a, 6, 10, 11; 1 ea. items 7a, 8a, 9a)	YST-Y	79836	18.2
-	YST Tensioner w/Purple Spring (Pair) (incl. 2 ea. item 5b, 6, 10, 11; 1 ea. items 7a, 8a, 9a)	YST-P	79837	18.5
-	YST Tensioner w/Silver Spring (Pair) (incl. 2 ea. item 5c, 6, 10, 11; 1 ea. items 7a, 8a, 9b)	YST-S	79838	18.8
-	YST Tensioner w/Yellow Spring UHT (Pair) (incl. 2 ea. item 5a, 6, 10, 11; 1 ea. items 7b, 8b, 9c)	YST-Y-R	91814	18.2
-	YST Tensioner w/Purple Spring UHT (Pair) (incl. 2 ea. item 5b, 6, 10, 11; 1 ea. items 7b, 8b, 9c)	YST-P-R	91815	18.5

*Hardware included
Lead time: 1 working day

Replacement Blades/Blade Cartridges

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
12	Y-Type Carbide Blade (single)	YT-C	79574	1.1
-	18" (450mm) Y-Type Carbide Blade Cartridge	YCART-18/450-TC	79811	12.6
	24" (600mm) Y-Type Carbide Blade Cartridge	YCART-24/600-TC	79812	16.5
	30" (750mm) Y-Type Carbide Blade Cartridge	YCART-30/750-TC	79813	20.4
	36" (900mm) Y-Type Carbide Blade Cartridge	YCART-36/900-TC	79814	24.2
	42" (1050mm) Y-Type Carbide Blade Cartridge	YCART-42/1050-TC	79815	28.1
	48" (1200mm) Y-Type Carbide Blade Cartridge	YCART-48/1200-TC	79816	31.9
-	Y-Type Purple Polyurethane Blade (single)	YT-P	79573	1.2
-	18" (450mm) Y-Type Purple Blade Cartridge	YCART-18/450-P	79617	13.1
	24" (600mm) Y-Type Purple Blade Cartridge	YCART-24/600-P	79618	17.1
	30" (750mm) Y-Type Purple Blade Cartridge	YCART-30/750-P	79619	21.1
	36" (900mm) Y-Type Purple Blade Cartridge	YCART-36/900-P	79620	25.1
	42" (1050mm) Y-Type Purple Blade Cartridge	YCART-42/1050-P	79621	29.1
	48" (1200mm) Y-Type Purple Blade Cartridge	YCART-48/1200-P	79622	33.1
-	Y-Type White Polyurethane Blade (single)	YT-W	79572	1.2
-	18" (450mm) Y-Type White Blade Cartridge	YCART-18/450-W	79611	13.1
	24" (600mm) Y-Type White Blade Cartridge	YCART-24/600-W	79612	17.1
	30" (750mm) Y-Type White Blade Cartridge	YCART-30/750-W	79613	21.1
	36" (900mm) Y-Type White Blade Cartridge	YCART-36/900-W	79614	25.1
	42" (1050mm) Y-Type White Blade Cartridge	YCART-42/1050-W	79615	29.1
	48" (1200mm) Y-Type White Blade Cartridge	YCART-48/1200-W	79616	33.1
-	Y-Type Red Polyurethane Blade (single)	YT-R	91804	1.2
-	18" (450mm) Y-Type Red Blade Cartridge	YCART-18/450-R	91805	13.1
	24" (600mm) Y-Type Red Blade Cartridge	YCART-24/600-R	91806	17.1
	30" (750mm) Y-Type Red Blade Cartridge	YCART-30/750-R	91807	21.1
	36" (900mm) Y-Type Red Blade Cartridge	YCART-36/900-R	91808	25.1
	42" (1050mm) Y-Type Red Blade Cartridge	YCART-42/1050-R	91809	29.1
	48" (1200mm) Y-Type Red Blade Cartridge	YCART-48/1200-R	91810	33.1

Lead time: 1 working day

Spring Tensioner Selection Chart

Cleaner Blade Width	79838 YST-S	79836 YST-Y	79837 YST-P	91814 YST-Y-R	91815 YST-P-R
Carbide 18–48" (450–1200mm)	X				
Polyurethane 18–30" (450–750mm)		X			
Polyurethane 36–48" (900–1200mm)			X		
Red UHT PU 18–30" (450–750mm)				X	
Red UHT PU 36–48" (900–1200mm)					X

Blades Required per Cleaner Size

in.	18	24	30	36	42	48
mm	450	600	750	900	1050	1200
Blades Required	6	8	10	12	14	16

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:

EZP1 Precleaner



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

Flexco Slider and Impact Beds



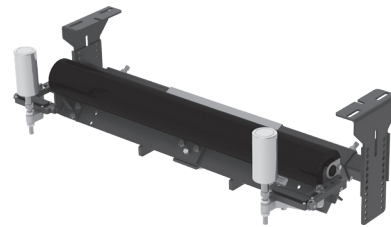
- Adjusting troughing angles for easy installation and adjustability
- Long-wearing UHMW for sealing the load zone
- Offered in both Light & Medium-duty designs to affordably fit your application

Inspection Door



- Multiple door sizes available for a variety of applications.
- Dust-tight silicone seal between mounting plate and chute wall.
- Latch mechanism is designed to allow easy adjustability to tightness of door seal.
- Optional hinged, bolted screen allows safe visual inspection and does not require removal for authorized workers to access the chute.

PT Smart™ 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
- Simple brackets and component construction ensure a quick and easy installation

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

Visit www.flexco.com for other Flexco locations and products, or to find an authorized distributor.

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