MSP Ultra High-Temp Precleaner

Installation, Operation and Maintenance Manual





MSP Ultra High-Temp Precleaner

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 Flexco precleaner 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:

Customer Service: USA: 1-800-541-8028

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 MSP Ultra High-Temp Precleaner 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 Engineer or your Flexco Distributor.

Section 2 - Safety Considerations and Precautions

Before installing and operating the MSP Ultra High-Temp Precleaner, it is important to review and understand the following safety information.

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

2.1 Stationary Conveyors

The following activities are performed on stationary conveyors:

- Installation
- Blade replacement
- Repairs

- Tension adjustments
- Cleaning

A DANGER

It is imperative that OSHA/MSHA Lockout/Tagout (LOTO) regulations, 9 CFR 1910.147, be followed before undertaking the preceding activities. Failure to use LOTO exposes workers to uncontrolled behavior of the belt cleaner caused by movement of the conveyor belt. Severe injury or death can result.

Before working:

- Lockout/Tagout the conveyor power source
- Disengage any takeups
- Clear the conveyor belt or clamp securely in place

A WARNING

Use Personal Protective Equipment (PPE):

- Safety eyewear
- Hardhats
- Safety footwear

Close quarters, springs and heavy components create a worksite that compromises a worker's eyes, feet and skull.

PPE must be worn to control the foreseeable hazards associated with conveyor belt cleaners. Serious injuries can be avoided.

2.2 Operating Conveyors

There are two routine tasks that must be performed while the conveyor is running:

- Inspection of the cleaning performance
- Dynamic troubleshooting

A DANGER

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

A WARNING

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.

A WARNING

Conveyor chutes contain 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 3.3 Optional Installation Accessories)
 - · Are there obstructions that may require cleaner location adjustments (see 3.2 Cleaner Location Adjustments)

Section 3 - Pre-installation Checks and Options (cont.)

3.2 Cleaner Location Adjustments

In certain applications it is necessary to modify the location of the precleaner pole due to permanent obstacles that obstruct the desired location. Relocating the pole location can be done easily and does not hinder the performance of the cleaner as long as the "C" dimension is maintained.

NOTE: In the following example we will be lowering the pole location in the "Y" direction, but the same method could also be applied in the "X" direction.

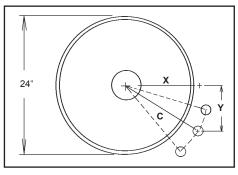
Conveyor situation:

Pulley Diameter: 24"

X=12"

Y=9"

C=15"



- 1. **Determine the given location dimensions and define the change needed. After laying out the** given X & Y dimensions, determine the distance of the modification required for adequate clearance of the pole and tensioning system. (In the example we decide to lower the pole 2" to clear the support structure).
- 2. Write down known dimensions. We can now determine two of the three required dimension which will allow us to find the third. We know we cannot alter the "C" dimension, so this will remain the same. Also we are required to lower the unit in the "Y" dimension 2", so we add 2" to the given "Y" dimension.

$$Y = 9 + 2 = 11$$
"

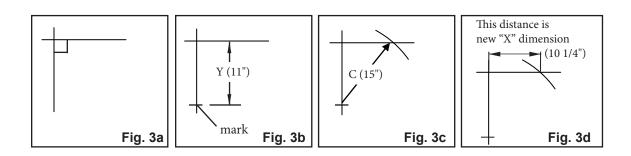
$$C = 15''$$

3. **Determine final dimension.** On a flat vertical surface, using a level, draw one horizontal line and one vertical line creating a right triangle (Fig 3a). Measure down from the intersection the determined "Y" dimension and mark (Fig 3b). With the tape measure starting at the modified "Y" mark, swing the tape across the "X" line and mark at the "C" dimension where it crosses the "X" line (Fig 3c). Measure from the intersection to the "C" intersection and this will be your new "X" dimension (Fig. 3d).

$$X = 10 \ 3/16$$
"

$$Y = 11"$$

$$C = 15''$$



Section 3 - Pre-Installation Checks and Options (cont.)

Optional Installation Accessories 3.3

Versatile, adjustable brackets and plates that can be mounted on the conveyor structure so precleaners and secondary cleaners can be easily and quickly bolted into place.

75830

Optional Mounting Bar Kit

(with bolts, nuts and washers)

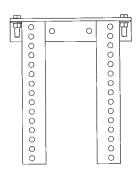
- For mounting precleaners on open head pulleys.
- Weld on both sides of pulley and bolt on steel plates.
- 1-1/2" W x 16" L with (4) 5/8-11 tapped holes



76537

Mounting Plate Kit (incl. 2 plates)

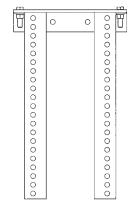
- For use with Mounting Bars to mount cleaners on open head pullevs.
- 16" x 32" (400 x 800mm) with (4) 5/8" holes



76071

Standard Mounting Bracket Kit

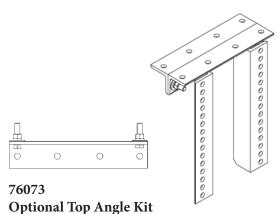
- For most secondary cleaner installs.
- 13" W x 15 1/2" L



76072

Long Mounting Bracket Kit

- For installations that require extra length legs.
- 13" W x 21 1/2" L



- Used with both standard and long mounting bracket kits for additional mounting options.
- 13" L

Optional Mounting Kits (in	cl. 2 brackets	s/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
Optional Mounting Bar Kit *	MMBK	75830	19.5
Mounting Plate Kit (incl. 2 plates)	MMPK	76537	140.0

*Hardware Included Lead time: 1 working day

Pole Extender Kit	(incl. 2 exte	nders)	
DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
Pole Extender Kit	MAPEK	76024	21.9

Provides 30" (750mm) of extended pole length.

Lead time: 1 working day

	0
	0

Section 3 - Pre-Installation Checks and Options (cont.)

3.4 Correct Blade Installation and Tensioning

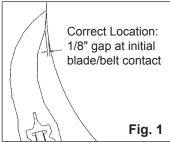
For optimal cleaning efficiency and long wear life, the Ultra High-Temp ConShear[™] blade must be located and tensioned correctly on the belt head pulley. If the cleaner pole is in the wrong location the performance of the new blade may be adversely affected. See "Possible Problems" below. For tensioning, please follow these instructions.

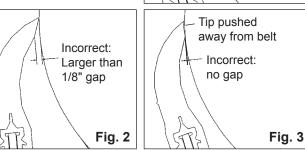
Correct Location:

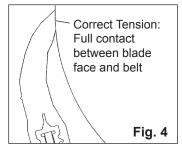
When blade contact is made against the head pulley (prior to tensioning) there should be a 1/16" to 1/8" gap at the bottom of the blade face (Fig. 1).

Possible Problems:

- Pole location too far out The initial blade/belt contact gap will be larger than 1/8" (Fig. 2). If the blade is correctly tensioned it may flip through before it is fully worn. If tensioned too lightly, it will develop the "smile effect" quickly and not clean properly.
- Pole location too far in If there is no gap at the initial blade/belt contact (Fig. 3), the tip of the blade may not be touching the belt. In this case, the blade will push away and lose its shearing (cleaning) effect. The blade may also develop a flap at the tip which may trap material.





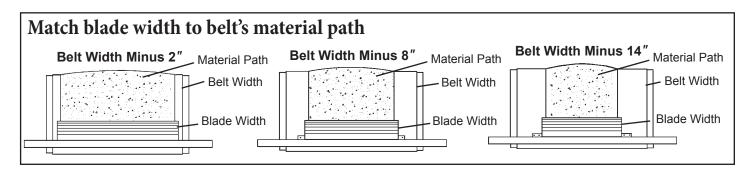


Correct Tensioning:

The blade should be tensioned until the gap is gone (Fig. 4).

The "Material Path" Option

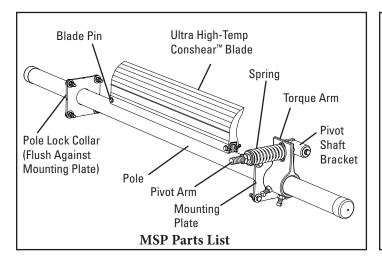
For optimal cleaning and reduced blade retensioning, the cleaner blade width should be sized to fit the material path of the belt. The material path is typically the center 2/3 of the belt width. Choosing a blade only slightly wider than the material path can decrease differential blade wear which reduces blade retensioning maintenance, as well as reducing the frequency of blade replacement.

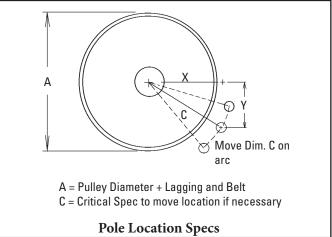




Section 4 - Installation Instructions - MSP Ultra High-Temp Precleaner

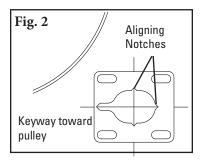
4.1 MSP Ultra High-Temp Precleaner





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

- 1. Locate the correct pole position. Measure and determine Dimension A (see instructions above). Find Dimension A on the Pole Location Chart at right and determine Dimensions X, Y and C. Measure out horizontally from the center of the pulley shaft Dim X and mark. From that mark, draw a long vertical line down, then measure and mark Dim Y. This indicates the location of the center of the cleaner pole. Measure and mark both sides. NOTE: If the location is obstructed, use Dim. C and move on an arc from the center of the pulley shaft to find an open position. Dim. C must remain constant to correctly locate the pole (see drawing above). NOTE: For open head installs, first add mounting support materials to the structure.
- 2. Mark and cut the mounting plate holes. Using the mounting plate template provided in the instruction packet, position the large pole access hole on the chute, aligning the hole notches with the layout lines. Position the keyway toward the pulley. Trace the pole cutout and mounting holes (Fig. 2). Cut the holes on both sides of the chute. NOTE: Hole cutouts are slotted for later adjustment if needed.



Pole Lo	Pole Location Chart			
Α	Х	Y	С	
16	7 1/8	9	11 1/2	
17	7 7/8	9	12	
18	8 1/4	9	12 1/4	
19	9	9	12 3/4	
20	9 3/8	9	13	
21	10	9	13 1/2	
22	10 3/4	9	14	
23	11 3/8	9	14 1/2	
24	12	9	15	
25	12 5/8	9	15 1/2	
26	13 1/4	9	16	
27	13 7/8	9	16 1/2	
28	14 3/8	9	17	
29	15	9	17 1/2	
30	15 5/8	9	18	
31	16 1/8	9	18 1/2	
32	16 3/4	9	19	
33	17 1/4	9	19 1/2	
34	17 7/8	9	20	
35	18 3/8	9	20 1/2	
36	19	9	21	
37	19 1/2	9	21 1/2	
38	20	9	22	
39	20 5/8	9	22 1/2	
40	21 1/8	9	23	
41	21 3/4	9	23 1/2	
42	22 1/4	9	24	

Section 4 - Installation Instructions - MSP Ultra High-Temp Precleaner

3. Install the mounting plates. Bolt the mounting plates to the chute with bolts provided. Center plates on the slotted holes and tighten bolts (Fig. 3).

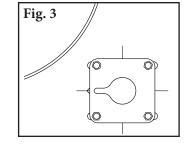


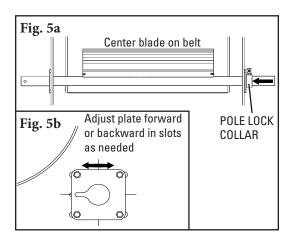
Fig. 4

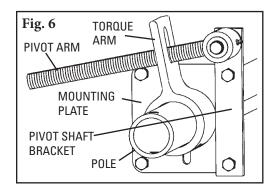
A.

B.

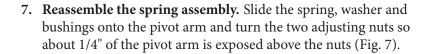
4. Install the pole. Remove both blade pins and blade from the pole and insert the pole in through the mounting plates (Fig. 4).

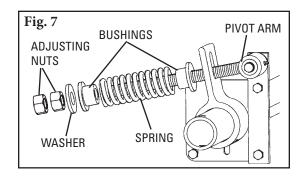
5. Center the cleaner on the belt and lock in place. Reinstall the blade with both blade pins. Center the blade on the belt and install the pole lock collar onto the pole (on the end opposite the end to be used for the tensioner), snugly up to the mounting plate (Fig. 5a). Rotate the blade up to the belt and check to insure that the blade is square to the pulley face. If not, loosen a mounting plate on one side and adjust the plate forward or backward to square the blade to the pulley, and retighten the bolts (Fig. 5b).

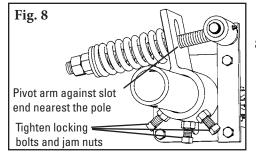




6. Install the QMT spring tensioner. Remove the adjusting nuts and springs from the pivot rod. Insert the pivot arm through the slot in the torque arm. Slide the torque arm onto the pole end (be sure the rotation of the arm is correct to tension the blade) and rotate it until the pivot shaft bracket lines up with the desired bolt holes (Fig. 6). Remove bolts, nuts and washers from mounting plate and reinstall through pivot shaft bracket and mounting plate.





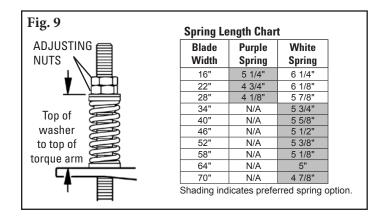


8. Tension the blade to the belt. Rotate the blade until it contacts the belt. While holding the spring bushing flat on the torque arm, rotate the torque arm until the pivot arm is against the end of the slot nearest the pole. Tighten the locking bolts and jam nuts on the torque arm (Fig. 8). NOTE: The torque arm should be up against the mounting plate.

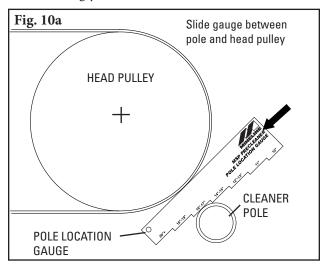


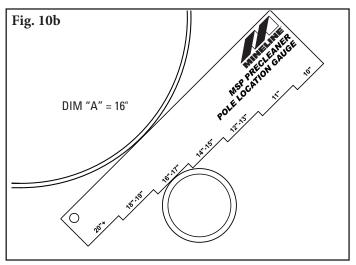
Section 4 - Installation Instructions - MSP Ultra High-Temp Precleaner

9. Set the correct blade tension. Refer to the chart on the pivot shaft bracket for the spring length required for the blade width. Lightly pull the pivot arm toward the end of the torque arm slot nearest the pole and turn the adjusting nuts until the required spring length is achieved (Fig. 9). Tighten jam nut.



10. Confirm correct pole location. After the cleaner is installed, slide the Pole Location Gauge (provided in the instruction packet) between the cleaner pole and the pulley, until it stops at a step (Fig. 8a). Read the flat area where the pole is resting (Fig. 8b). This diameter should be equal to Dim A used in Step 1. NOTE: If the diameter reading on the Pole Location Gauge does not read the same as in Step 1, check the "C" dimension and correct accordingly.





Test run the cleaner. Run the conveyor for at least 15 minutes and inspect the cleaning performance. Check the spring length for proper tensioning. Make adjustments as necessary.

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.



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 MSP Ultra High-Temp Precleaner 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 the spring length is the correct length for optimal tensioning
- If the belt looks clean or if there are areas that are dirty
- If the 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 the 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

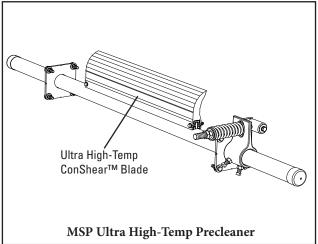
If any of the above conditions exist, a determination should be made on when the conveyor can be stopped for cleaner maintenance.

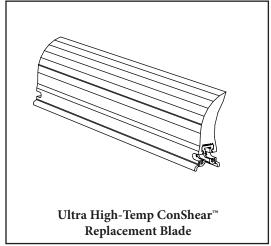
6.3 Routine Physical Inspection (every 6-8 weeks)

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.
- Check both blade pins and retaining clips for proper installation and condition. 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 14.
- When maintenance tasks are completed, test run the conveyor to ensure the cleaner is performing properly

6.4 Blade Replacement Instructions

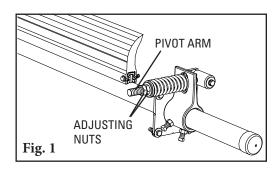




Physically lock out and tag the conveyor at the power source before you begin cleaner installation.

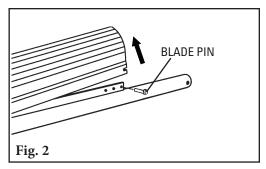
Tools Needed:

- Tape measure
- (2) 1½" wrenches or crescent wrenches
- Wire brush (for cleaning pole)
- Small putty knife (for cleaning pole)
- 1. Remove the tension. Loosen the adjusting nuts and turn them out until they are flush with the pivot arm (Fig. 1). This releases the tension of the blade on the belt.



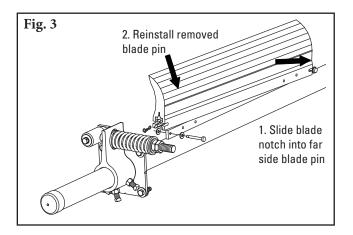
2. Remove the worn blade. Remove one blade pin and remove the blade from the pole (Fig. 2). Clean all fugitive material from the pole.

NOTE: If blade is hard to remove use a screwdriver or hammer to loosen it and then remove.



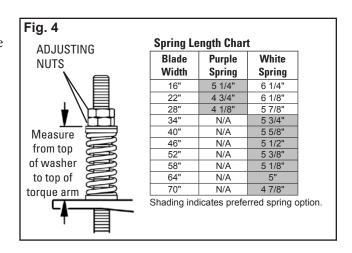
6.4 Blade Replacement Instructions

3. Install the new blade. Slide the new blade onto the pole, locking it into the far blade pin, then reinstall the removed blade pin, washer and clip (Fig. 3).



4. Reset the correct blade tension. Refer to the chart for the spring length required for the blade width. Lightly pull the pivot arm toward the end of the torque arm slot nearest the pole and turn the adjusting nut until the required spring length is achieved (Fig. 4). Tighten jam nut.

NOTE: The chart is also on the cleaner's pivot shaft bracket for future reference for retensioning maintenance.



Test run the cleaner. Run the conveyor for at least 15 minutes and inspect the cleaning performance. Check the spring length for proper tensioning. Make adjustments as necessary.

6.5 Maintenance Log

Conveyor Name/No.			
Date:	Work done by:	Service Quote #	
Activity:			
		Service Quote #	
Date:	Work done by:	Service Quote #	
		Service Quote #	
		Service Quote #	
	Work done by:	Service Quote #	
Activity.			
	•	Service Quote #	
Activity:			

Section 6 - Maintenance (cont.)

6.6 Cleaner Maintenance Checklist

Mineline Belt Cleaner: Some	erial Number:
Blade Width: Belt minus 2" (50mm) Be	elt minus 8" (200mm) Belt minus 14" (355mm)
Beltline Information: Beltline Number: Belt Condition:	
Belt Width: 24" 30" 36" 42 (600mm) (750mm) (900mm) (1	2" 48" 54" 60" 72" 050mm) (1200mm) (1350mm) (1500mm) 1800mm)
Head Pulley Diameter (Belt & Lagging):	Belt Speed:fpm Belt Thickness:
Belt Splice Condition of Splice	Number of splices SkivedUnskived
Material conveyed	
Days per week run Hours per day r	un
Blade Life: Date blade installed: Date blade insp	ected: Estimated blade life:
Is blade making complete contact with belt?	es No
Distance from wear line: LEFT M	IDDLE RIGHT
Blade condition: Good Grooved S	miled Not contacting belt Damaged
Measurement of spring: Required C	urrently
Was Cleaner Adjusted: Yes N	0
Pole Condition: Good B	ent Worn
Lagging: Slide lag Ceramic	Rubber Other None
Condition of lagging: Good Bad O	ther
Cleaner's Overall Performance: (Rate the follow Appearance: Comments:	ving 1 - 5, 1 = very poor - 5 = very good)
Location: Comments:	
Maintenance: Comments:	
Performance: Comments:	
Other Comments:	

Section 7 - Troubleshooting

Problem	Possible Cause	Possible Solutions
	Cleaner under-tensioned	Adjust to correct tension - see chart
Poor Cleaning	Cleaner over-tensioned	Adjust to correct tension - see chart
Performance	Cleaner installed in wrong location	Verify "C" dimension, relocate to correct dimension
	Cleaner blade worn or damaged	Replace cleaner blade
	Tension on cleaner too high/low	Adjust to correct tension - see chart
	Cleaner not located correctly	Check cleaner location for correct dimensions
Rapid Blade Wear	Blade attack angle incorrect	Check cleaner location for correct dimensions
	Material too abrasive for blade	Option: if vulcanized belt, switch to alternate cleaner with metal blades
	Mechanical splice damaging blade	Repair, skive or replace splice
Center wear on	Blade wider than material path	Replace blade with width to match material path
blade (smile effect)	Tension on cleaner too high/low	Adjust to correct tension - see chart
	Mechanical splice damaging blade	Repair, skive or replace splice
Unusual wear or	Belt damaged or ripped	Repair or replace belt
damage to blade	Cleaner not correctly located	Verify "C" dimension, relocate to correct dimension
	Damage to pulley or pulley lagging	Repair or replace pulley
	Cleaner not located correctly	Verify "C" dimension, relocate to correct dimension
	Blade attack angle incorrect	Verify "C" dimension, relocate to correct dimension
	Cleaner running on empty belt (dry)	Use a spray pole when the belt is empty
Vibration or noise	Cleaner tension too high/low	Adjust to correct tension or slight adjust to diminish
	Cleaner locking bolts not secure	Check and tighten all bolts and nuts
	Cleaner not square to head pulley	Verify "C" dimension, relocate to correct dimension
	Material buildup in chute	Clean up build-up on cleaner and in chute
	Cleaner tension not set correctly	Ensure correct tension/increase tension slightly
Cleaner being	Sticky material is overburdening cleaner	Increase tension; replace with cleaner with metal tips; replace with larger size cleaner
pushed away from pullety	Cleaner not set up correctly	Confirm location dimensions are equal on both sides
	Pole too far out ("C" dimension too large)	Verify "C" dimension, relocate to correct dimension



Section 8 - Specs and CAD Drawing

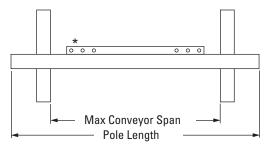
8.1 Specifications and Guidelines

Pole Length Specifications*

Cleaner Size		Pole L	ength.	Maxi Convey	mum or Span
in.	mm	in.	mm	in.	mm
24	600	78	1950	68	1700
30	750	84	2100	74	1850
36	900	90	2250	80	2000
42	1050	96	2400	86	2150
48	1200	102	2550	92	2300
54	1350	108	2700	98	2450
60	1500	114	2850	104	2600
72	1800	126	3150	116	2900

^{*} For special extra long pole length requirements a Pole Extender Kit (#76024) is available that provides 30" (750mm) of extended pole length.

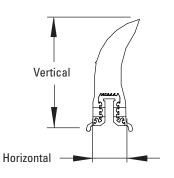
Pole Diameter - 2-7/8" (73mm)

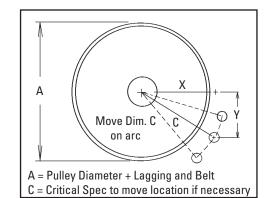


*Each pole size can be used with a blade size either belt width minus 2" (50mm), belt width minus 8" (200mm), or belt width minus 14" (350mm).

Clearance Guidelines for Installation

Horiz Clearance	ontal Required	Vert Clearance	
in.	mm	in.	mm
4	100	10	250

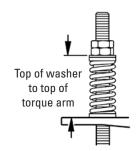




Spring Length Chart

Spring 5 1/4"	Spring
5 1/4"	
U ./ I	6 1/4"
4 3/4"	6 1/8"
4 1/8"	5 7/8"
N/A	5 3/4"
N/A	5 5/8"
N/A	5 1/2"
N/A	5 3/8"
N/A	5 1/8"
N/A	5"
N/A	4 7/8"
	4 1/8" N/A N/A N/A N/A N/A N/A

Shading indicates preferred spring option.



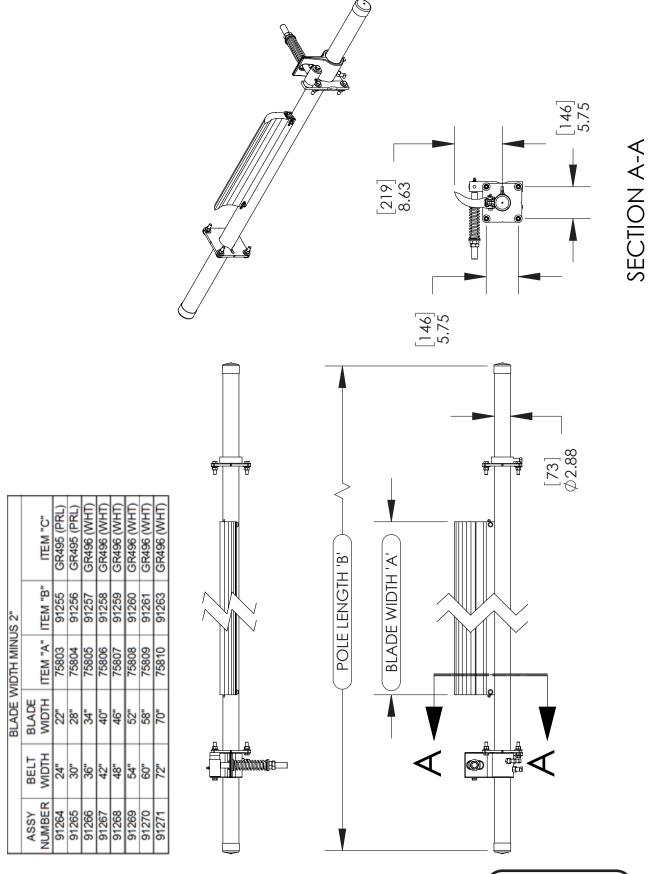
•	Maximum Belt Speed	700 FPM (3.5M/sec)
•	Temperature Rating	Up to 400°F (200°C)
		with spikes to 450°F (232°C)
•	Minimum Pulley Diameter	16" (400mm)
•	Blade Height	7-1/4" (185mm)
•	Usable Blade Wear Length	4" (100mm)
	Blade Material	
•	Available for Belt Widths	24" to 72" (600 to 1800mm).
		Other sizes available upon request.
•	CEMA Cleaner Rating	Class 3

Pole Location Chart

Α	Х	Υ	С
16	7 1/8	9	11 1/2
17	7 7/8	9	12
18	8 1/4	9	12 1/4
19	9	9	12 3/4
20	9 3/8	9	13
21	10	9	13 1/2
22	10 3/4	9	14
23	11 3/8	9	14 1/2
24	12	9	15
25	12 5/8	9	15 1/2
26	13 1/4	9	16
27	13 7/8	9	16 1/2
28	14 3/8	9	17
29	15	9	17 1/2
30	15 5/8	9	18
31	16 1/8	9	18 1/2
32	16 3/4	9	19
33	17 1/4	9	19 1/2
34	17 7/8	9	20
35	18 3/8	9	20 1/2
36	19	9	21
37	19 1/2	9	21 1/2
38	20	9	22
39	20 5/8	9	22 1/2
40	21 1/8	9	23
41	21 3/4	9	23 1/2
42	22 1/4	9	24

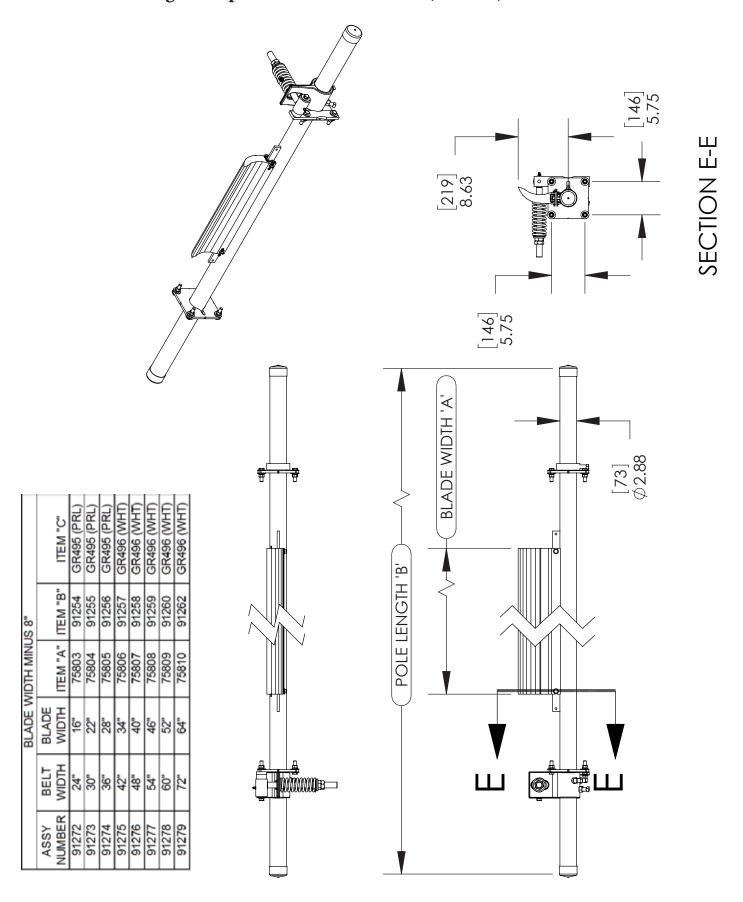
Section 8 - Specs and CAD Drawing (cont.)

8.2 MSP Ultra High-Temp - Belt Width Minus 2" (50mm)



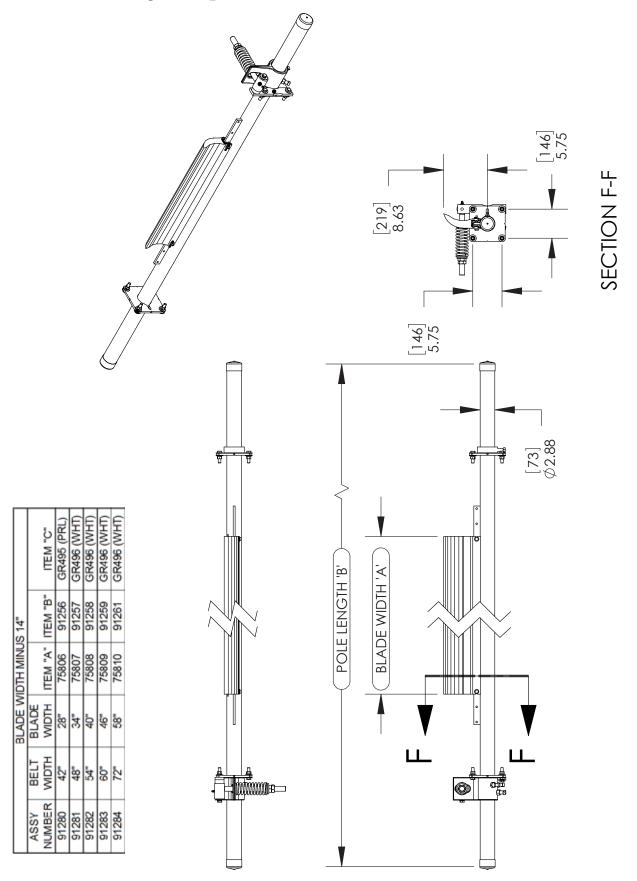
Section 8 - Specs and CAD Drawing (cont.)

8.3 MSP Ultra High-Temp - Belt Width Minus 8" (200mm)



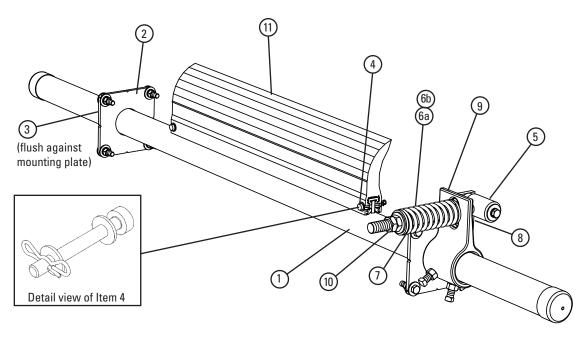
Section 8 - Specs and CAD Drawing (cont.)

8.4 MSP Ultra High-Temp - Belt Width Minus 14" (350mm)



Section 9 - Replacement Parts

9.1 Replacement Parts List



Replacement Parts

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
	24" (600mm) Pole	MSPP24	75803	42.5
	30" (750mm) Pole	MSPP30	75804	46.0
	36" (900mm) Pole	MSPP36	75805	50.5
	42" (1050mm) Pole	MSPP42	75806	55.5
1	48" (1200mm) Pole	MSPP48	75807	60.0
	54" (1350mm) Pole	MSPP54	75808	64.0
	60" (1500mm) Pole	MSPP60	75809	67.0
	72" (1800mm) Pole	MSPP72	75810	76.0
	84" (2100mm) Pole	MSPP84	76807	88.6
2	Mounting Plate Kit* (2 ea.)	MSPMPK	75811	8.3
3	Pole Lock* (1 ea.)	MSPPL	75816	1.9
4	Blade Pin Kit* (1 ea.)	MSPBPK	75831	0.1
5	Pivot Arm Kit* (1 ea.)	QMTPAK	76096	4.3
6a	Tension Spring - Purple (1 ea.) for blades 16" - 28" (400 - 700mm)	QMTS-P	75845	0.6
6b	Tension Spring - White (1 ea.) for blades 34" - 70" (850 - 1750mm)	PSTS-W	75898	1.7
7	QMT Bushing Kit - Ultra High-Temp (2 ea.) QMT-ATEX		90435	0.2
8	Pivot Shaft Bracket Kit* (1 ea.)	QMTPSBK	76099	4.3
9	Torsion Arm Kit* (1 ea.)	PSTA	75896	11.4
10	Jam Nut Kit QMT Tensioner	JNK-C	79893	0.3
-	QMT Ultra High-Temp Tensioner* - Purple (incl. 1 ea. Items 5, 6a, 7, 8, & 9) for blade widths 16" - 28" (400 - 700mm)	QMT-A-P	91285	20.4
-	QMT Ultra High-Temp Tensioner* - White (incl. 1 ea. Items 5, 6b, 7, 8, & 9) for blades 34* - 70* (850 - 1750mm)	ΩMT-A-W	91286	21.8

*Hardware Included Lead Time: 1 working day

Ultra High-Temp ConShear™ Blades

REF	BLADE WIDTH		ORDERING	ITEM	WT.
NEF	in.	mm	NUMBER	CODE	LBS.
	16	400	CRB-UHT16	91254	7.3
	22	550	CRB-UHT22	91255	10.1
	28	700	CRB-UHT28	91256	12.8
	34	850	CRB-UHT34	91257	15.5
11	40	1000	CRB-UHT40	91258	18.3
''	46	1150	CRB-UHT46	91259	21.0
	52	1300	CRB-UHT52	91260 23.8	23.8
	58	1450	CRB-UHT58	91261	26.5
	64	1600	CRB-UHT64	91262	29.2
	70	1750	CRB-UHT70	91263	32.0

Order blade width for your belt width's material path: Belt Width Minus 2" (50mm), Belt Width Minus 8" (200mm) or Belt Width Minus 14" (350mm).

Lead Time: 1 working day

Spring Tensioner Selection Chart

Cleaner Blade Width	91285 QMT-A-P	91286 QMT-A-W
UHT ConShear 16"-28" (400-700mm)	X	
UHT ConShear 34"-70" (850-1750mm)		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:

MHS Secondary Cleaner with Service Advantage Cartridge



- An easy slide-out cartridge for service
- Cartridge design to speed up blade-change maintenance
- Patented PowerFlex Cushions for superior cleaning performance
- Compatible with Flexco mechanical splices

Flexco Specialty Belt Cleaners



- "Limited space" cleaners for tight conveyor applications
- High Temp cleaners for severe, high heat applications
- A rubber fingered cleaner for chevron and raised rib belts
- Multiple cleaner styles in stainless steel for corrosive applications

DRX Impact Beds



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

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

Belt Plows



- A belt cleaner for the tail pulley
- Exclusive blade design quickly spirals debris off the belt
- Economical and easy to service
- Available in vee or diagonal models



The Flexco Vision

To become the leader in maximising belt conveyor productivity for our customers worldwide through superior service and innovation.



