MSP Precleaner

Installation, Operation and Maintenance Manual





www.flexco.com

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.

Section 1 - Important Information	4
1.1 General Introduction	4
1.2 User Benefits	4
1.3 Service Option	4
Section 2 - Safety Considerations and Precautions	5
2.1 Stationary Conveyors	5
2.2 Operating Conveyors	5
Section 3 - Pre-Installation Checks and Options	6
3.1 Checklist	
3.2 Cleaner Location Adjustments	7
3.3 Optional Installation Accessories	8
3.4 Correct Blade Installation and Tensioning	9
Section 4 - Installation Instructions	10
Section 5 - Pre-Operation Checklist and Testing	13
5.1 Pre-Op Checklist	
5.2 Test Run the Conveyor	13
5.2 Test Run the Conveyor Section 6 - Maintenance	
	14
Section 6 - Maintenance	14
Section 6 - Maintenance	14
Section 6 - Maintenance 6.1 New Installation Inspection 6.2 Routine Visual Inspection	14
Section 6 - Maintenance 6.1 New Installation Inspection 6.2 Routine Visual Inspection 6.3 Routine Physical Inspection	14
Section 6 - Maintenance 6.1 New Installation Inspection 6.2 Routine Visual Inspection 6.3 Routine Physical Inspection 6.4 Blade Replacement Instructions	14
Section 6 - Maintenance 6.1 New Installation Inspection 6.2 Routine Visual Inspection 6.3 Routine Physical Inspection 6.4 Blade Replacement Instructions 6.5 Maintenance Log	14 14 14 14 15 17 18
 Section 6 - Maintenance	14 14 14 14 15 17 17 18 18
 Section 6 - Maintenance	
 Section 6 - Maintenance	
 Section 6 - Maintenance	
 Section 6 - Maintenance 6.1 New Installation Inspection 6.2 Routine Visual Inspection 6.3 Routine Physical Inspection 6.4 Blade Replacement Instructions 6.5 Maintenance Log 6.6 Cleaner Maintenance Checklist Section 7 - Troubleshooting Section 8 - Specs and CAD Drawing 8.1 Specs and Guidelines 8.2 CAD Drawing Section 9 - Replacement Parts	
 Section 6 - Maintenance	

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: +27-11-608-4180

Visit www.flexco.com for other Flexco locations and products.

Please read this manual thoroughly and pass it on to any others who will be directly responsible for installation, operation and maintenance of this cleaner. While we have tried to make the installation and service tasks as easy and simple as possible, it does however require correct installation and regular inspections and adjustments to maintain top working condition.

1.2 User Benefits

Correct installation and regular maintenance will provide the following benefits for your operation:

- Reduced conveyor downtime
- Reduced man-hour labor
- Lower maintenance budget costs
- Increased service life for the belt cleaner and other conveyor components

1.3 Service Option

The MSP 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.

Before installing and operating the MSP 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
- Tension adjustments

nts • Cleaning

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

Repairs

- 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

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

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: 600 mm X = 300 mm Y = 225 mmC = 375 mm



- 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 50 mm 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 50 mm, so we add 50 mm to the given "Y" dimension.

X = ? mm Y = 225 mm + 50 mm = 275 mm C = 375 mm

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 = 255 mm Y = 275 mm C = 375 mm





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.



• 326 mm W x 388 mm L

0

0

0

0

Π

• 325 mm W x 528 mm L



Optional Mounting Kits (incl. 2 brackets/bars)

ORDERING NUMBER	ITEM CODE	WT. KG.
SSTSMB	76071	15.6
SSTLMB	76072	19.7
SSTOTA	76073	4.8
MMBK	75830	8.4
ММРК	76537	63.5
	NUMBER SSTSMB SSTLMB SSTOTA MMBK	NUMBER CODE SSTSMB 76071 SSTLMB 76072 SSTOTA 76073 MMBK 75830

*Hardware Included

Lead time: 1 working day

Pole Extender Kit (incl. 2 extenders)

DESCRIPTION	ORDERING	ITEM	WT.
	NUMBER	CODE	KG.
Pole Extender Kit	MAPEK	76024	9.9

Provides 750mm of extended pole length. Lead time: 1 working day

Specs and Notes:

- Standard brackets are 13"W x 15 1/2"L.
- Long brackets are 13"W x 21-1/2"L.
- Mounting bars are 1-1/2"W x 16" L with (4) 5/8-11 tapped holes.
- Mounting plates are 16"W x 32"L with (4) 5/8 holes.



8

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

3.4 Correct Blade Installation and Tensioning

For optimal cleaning efficiency and long wear life, the 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 to 3mm 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 3 mm (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.









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

Tools Needed:

- 14mm (9/16") Wrench
- 16mm (5/8") Wrench
- 19mm (3/4") Wrench
- 24mm (15/16") Wrench
- 35mm (1-3/8") Wrench
- OR
 - Large Adjustable/Crescent Wrenches (x2)
- Torch (as needed)
- Welder (as needed)
- Tape Measure
- Level
- Marking Pen or Soapstone
- 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 Location Chart

I OIC LOU	ation Cr	iuit	
Α	Х	Y	С
400	179	230	291
425	195	230	301
450	207	230	309
475	223	230	320
500	235	230	329
525	249	230	339
550	266	230	352
575	283	230	365
600	299	230	377
625	314	230	390
650	330	230	402
675	346	230	415
700	360	230	427
725	374	230	439
775	389	230	452
775	403	230	464
825	417	230	477
825	432	230	489
850	446	230	501
875	460	230	514
900	474	230	526
925	488	230	539
950	502	230	552
975	516	230	565
1000	529	230	576
1025	542	230	589
1050	557	230	602

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. 3
- **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.
- **7. Reassemble the spring assembly.** Slide the spring, washer and bushings onto the pivot arm and turn the two adjusting nuts so about 6 mm of the pivot arm is exposed above the nuts (Fig. 7).





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.



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.



Blade	Purple	White	Gold
Width	Spring	Spring	Spring
400	133	159	N/A
550	121	156	N/A
700	105	149	N/A
850	N/A	146	156
1000	N/A	143	156
1150	N/A	140	152
1300	N/A	137	149
1450	N/A	130	149
1600	N/A	127	146
1750	N/A	124	143
1900	N/A	N/A	143
2050	N/A	N/A	140
2100	N/A	N/A	133
2250	N/A	N/A	130
2400	N/A	N/A	130
2550	N/A	N/A	127

Shading indicates preferred spring option.

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.

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 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 12.
- When maintenance tasks are completed, test run the conveyor to ensure the cleaner is performing properly

Section 6 - Maintenance

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) 38 mm 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.







Section 6 - Maintenance

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.



Spring L	Spring Length Chart					
Blade Width	Purple Spring	White Spring	Gold Spring			
400	133	159	N/A			
550	121	156	N/A			
700	105	149	N/A			
850	N/A	146	156			
1000	N/A	143	156			
1150	N/A	140	152			
1300	N/A	137	149			
1450	N/A	130	149			
1600	N/A	127	146			
1750	N/A	124	143			
1900	N/A	N/A	143			
2050	N/A	N/A	140			
2100	N/A	N/A	133			
2250	N/A	N/A	130			
2400	N/A	N/A	130			
2550	N/A	N/A	127			

Shading indicates preferred spring option.

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 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 #:
	·	
Date:	Work done by:	Service Quote #:
,		
Date:	Work done by:	Service Ouote #:
Date	Work done by:	Service Quote #·
Date	Work done by:	Service Quote #:
1x11v11y		



Section 6 - Maintenance (cont.)

6.6 Cleaner Maintenance Checklist

Site: Inspected	d by: Date:
Belt Cleaner:	Serial Number:
Blade Width: 🗆 Belt minus 50mm	□ Belt minus 200mm □ Belt minus 355mm
Beltline Information: Beltline Number: Belt Cor	ndition:
Belt Width: 🗆 600mm 🗆 750mm 🗆 900mm 🗆 1050m	mm 🗆 1200mm 🖾 1350mm 🗖 1500mm 🗖 1800mm 🗖 2100mm
Head Pulley Diameter (Belt & Lagging):	Belt Speed: m/s Belt Thickness:
Belt Splice: Condition of Splice:	Number of Splices:
Material conveyed:	
Days per week run: Hours per da	ay run:
	ected: Estimated blade life:
Is blade making complete contact with belt?	
	Middle Right
	red □ Smiled □ Not contacting belt □ Damaged
Measurement of spring: Required	Currently
Was Cleaner Adjusted:	No
Pole Condition:	□ Worn
Lagging: 🗆 Side Lag 🗆 Ceramic	□ Rubber □ Other □ None
Condition of lagging: 🛛 Good 🗆 Ba	ad 🗆 Other
Cleaner's Overall Performance: (Rate the	e following 1 - 5, 1= very poor - 5 = very good)
Appearance: Comments:	
Location: Comments:	
Maintenance: Comments:	
Performance: Comments:	
Other comments:	

Problem	Possible Cause	Possible Solutions	
	Cleaner under-tensioned	Adjust to correct tension - see chart	
De en Cleaning	Cleaner over-tensioned	Adjust to correct tension - see chart	
Poor Cleaning 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	
TT. 1	Belt damaged or ripped	Repair or replace belt	
Unusual wear or 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	



8.1 Specs and Guidelines

Pole Length Specifications*

Cleaner Size		Pole Length		Maxi Convey	mum or Span
mm	in.	mm	in.	mm	in.
600	24	1950	78	1700	68
750	30	2100	84	1850	74
900	36	2250	90	2000	80
1050	42	2400	96	2150	86
1200	48	2550	102	2300	92
1350	54	2700	108	2450	98
1500	60	2850	114	2600	104
1800	72	3150	126	2900	116
2100	84	3450	138	3200	128

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

Pole Diameter - 73mm

Clearance Guidelines for Installation

Horizontal Clearance Required		Vertical Clearance Required	
mm	in.	mm in.	
100	4	250	10

Spring Length Chart

Blade Width	Purple Spring	White Spring	Gold Spring
400	133	159	N/A
550	121	156	N/A
700	105	149	N/A
850	N/A	146	156
1000	N/A	143	156
1150	N/A	140	152
1300	N/A	137	149
1450	N/A	130	149
1600	N/A	127	146
1750	N/A	124	143
1900	N/A	N/A	143
2050	N/A	N/A	140
2100	N/A	N/A	133
2250	N/A	N/A	130
2400	N/A	N/A	130
2550	N/A	N/A	127

Shading indicates preferred spring option.

Specifications:

Maximum Belt Speed	3.5m/s
Temperature Rating	35°C to 82°C
Minimum Pulley Diameter	250mm
Blade Height	185mm
Usable Blade Wear Length	100mm
Blade Material	Polyurethane (proprietary blend for
	abrasion resistance and long wear)
Available for Belt Widths	600 to 2100mm
	Other sizes available upon request.
CEMA Cleaner Rating	Class 3
·	

Top of washer to top of torque arm

U.S. Patent No. D482,508S



*Each pole size can be used with a blade size either belt width minus 50mm, belt width minus 200mm, or belt width minus 350mm.





Pole Location Chart

A X Y C						
400	179	230	291			
425	195	230	301			
450	207	230	309			
475	223	230	320			
500	235	230	329			
525	249	230	339			
550	266	230	352			
575	283	230	365			
600	299	230	377			
625	314	230	390			
650	330	230	402			
675	346	230	415			
700	360	230	427			
725	374	230	439			
775	389	230	452			
775	403	230	464			
825	417	230	477			
825	432	230	489			
850	446	230	501			
875	460	230	514			
900	474	230	526			
925	488	230	539			
950	502	230	552			
975	516	230	565			
1000	529	230	576			
1025	542	230	589			
1050	557	230	602			

8.2 CAD Drawing





BLADE WIDTH MINUS 2"		BLADE WIDTH MINUS		NUS 8"		
ASSY	BELT	BLADE		ASSY	BELT	BLADE
NUMBER	WIDTH	WIDTH		NUMBER	WIDTH	WIDTH
75787	24" (600)	22" (550)		75795	24" (600)	16" (400)
75788	30" (750)	28" (700)		75796	30" (750)	22" (550)
75789	36" (900)	34" (850)		75797	36" (900)	28" (700)
75790	42" (1050)	40" (1000)		75798	42" (1050)	34" (850)
75791	48" (1200)	46" (1150)		75799	48" (1200)	40" (1000)
75792	54" (1350)	52" (1300)		75800	54" (1350)	46" (1150)
75793	60" (1500)	58" (1450)		75801	60" (1500)	52" (1300)
75794	72" (1800)	70" (1750)		76693	66" (1650)	58" (1450)
76796	84" (2100)	82" (2050)		75802	72" (1800)	64" (1600)
	· · ·			76797	84" (2100)	76" (1900)



9.1 Replacement Parts List



Replacement Parts

Ref	Description	Ordering	ltem	Wt.
	-	Number	Code	Kg.
	600mm Pole	MSPP24	75803	19.3
	750mm Pole	MSPP30	75804	20.9
	900mm Pole	MSPP36	75805	22.9
	1050mm Pole	MSPP42	75806	25.2
1	1200mm Pole	MSPP48	75807	27.2
	1350mm Pole	MSPP54	75808	29.0
	1500mm Pole	MSPP60	75809	30.4
	1800mm Pole	MSPP72	75810	34.5
	2100mm Pole	MSPP84	76807	40.2
2	Mounting Plate Kit* (2 ea.)	MSPMPK	75811	3.8
3	Pole Lock* (1 ea.)	MSPPL	75816	0.9
4	Blade Pin Kit* (1 ea.)	MSPBPK	75831	0.05
5	Pivot Arm Kit* (1 ea.)	QMTPAK	76096	2.0
6	Tension Spring - Purple (1 ea.) for blades 400 - 700mm	QMTS-P	75845	0.3
6a	Tension Spring - White (1 ea.) for blades 850 - 1750mm	PSTS-W	75898	0.8
6b	Tension Spring - Gold (1 ea.) for blades 1900 - 2050mm	QMTS-G	76484	1.1
7	Bushing Kit - Purple (2 ea.)	QMTBK-P	76097	0.05
7a	Bushing Kit - White (2 ea.)	QMTBK-W	76098	0.09
7b	Bushing Kit - Gold (2 ea.)	QMTBK-G	76540	0.09
8	Pivot Shaft Bracket Kit* (1 ea.)	QMTPSBK	76099	2.0
9	Torsion Arm Kit* (1 ea.)	PSTA	75896	5.2
-	QMT Spring Tensioner* - Purple (incl. 1 ea. Items 5, 6, 7, 8, & 9) for blades 400 - 700mm	QMT-P	76074	9.3
-	QMT Spring Tensioner* - White (incl. 1 ea. Items 5, 6a, 7a, 8, & 9) for blades 850 - 1750mm	QMT-W	76075	9.9
-	QMT Spring Tensioner* - Gold (incl. 1 ea. Items 5, 6b, 7b, 8, & 9) for blades 1900 - 2050mm	QMT-G	76483	10.6

*Hardware Included

Lead Time: 1 working day

U.S. Patent No. D482,508S

Replacement ConShear[™] Blades

<u> </u>	Blade Width		Ordering	ltem	Wt.
Ref	mm	in.	Number	Code	Kg.
	250	10	CRB10	75628	2.1
	400	16	CRB16	75629	3.3
	550	22	CRB22	75630	4.6
	700	28	CRB28	75631	5.8
	850	34	CRB34	75632	7.0
ĺ	1000	40	CRB40	75633	8.3
10	1150	46	CRB46	75634	9.5
	1300	52	CRB52	75635	10.8
	1450	58	CRB58	75636	12.0
	1600	64	CRB64	75775	13.2
	1750	70	CRB70	75773	14.5
	1900	76	CRB76	76940	15.7
	2050	82	CRB82	76941	17.0

Order blade width for your belt width's material path: Belt Width Minus 50mm, Belt Width Minus 200mm, or Belt Width Minus 350mm.

Lead Time: 1 working day

Spring Tensioner Selection Chart

Cleaner Blade Width	76074 QMT-P	76075 QMT-W	76843 QMT-G
ConShear 400 - 700 mm	Х		
ConShear 850 - 1750 mm		Х	
ConShear 1900 - 2050 mm			Х

9.2 Replacement Parts List - Stainless Steel



Replacement Parts

Ref	Description	Ordering Number	ltem Code
	600mm SS Pole	MSPP24-S/S	77472
	750mm SS Pole	MSPP30-S/S	77473
	900mm SS Pole	MSPP36-S/S	77474
	1050mm SS Pole	MSPP42-S/S	77475
1	1200mm SS Pole	MSPP48-S/S	77476
	1350mm SS Pole	MSPP54-S/S	77477
	1500mm SS Pole	MSPP60-S/S	77478
	1800mm SS Pole	MSPP72-S/S	77479
	2100mm SS Pole	MSPP84-S/S	77480
2	SS Mounting Plate Kit* (2 ea.)	MSPMPK-S/S	77582
3	SS Pole Lock* (1 ea.)	MSPPL-S/S	77524
4	SS Blade Pin Kit* (1 ea.)	MSPBPK-S/S	77583
5	SS Pivot Arm Kit* (1 ea.)	QMTPAK-S/S	77587
6	SS Tension Spring - Purple (1 ea.) for blades 400 - 700mm	QMTS-P-S/S	77450
6a	SS Tension Spring - White (1 ea.) for blades 850 - 1750mm	QMTS-W-S/S	77451
6b	SS Tension Spring - Gold (1 ea.) for blades 1900 - 2050mm	QMTS-G-S/S	77452
7	Bushing Kit - Purple (2 ea.)	QMTBK-P	76097
7a	Bushing Kit - White (2 ea.)	QMTBK-W	76098
7b	Bushing Kit - Gold (2 ea.)	QMTBK-G	76540
8	SS Pivot Shaft Bracket Kit* (1 ea.)	QMTPSBK-S/S	77588
9	SS Torsion Arm Kit* (1 ea.)	PSTA-S/S	77442
-	SS QMT Spring Tensioner* - Purple (incl. 1 ea. Items 5, 6, 7, 8, & 9) for blades 400 - 700mm	QMT-P-S/S	77584
-	SS QMT Spring Tensioner* - White (incl. 1 ea. Items 5, 6a, 7a, 8, & 9) for blades 850 - 1750mm	QMT-W-S/S	77585
-	SS QMT Spring Tensioner* - Gold (incl. 1 ea. Items 5, 6b, 7b, 8, & 9) for blades 1900 - 2050mm	QMT-G-S/S	77586

*Hardware Included

Lead Time: 1 working day

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

U.S. Patent No. D482,508S



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 or freeze up
- Available for topside and return side belts



- 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



27

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