

H-Type[®] Precleaner with XF2-Tips

Installation, Operation and Maintenance Manual



H-Type® Precleaner with XF2-Tips

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 an H-Type® Precleaner with XF2-Tips 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 H-Type Precleaner with XF2-Tips 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 -Type® Precleaner with XF2-Tips, 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
 - Are there obstructions that may require 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.

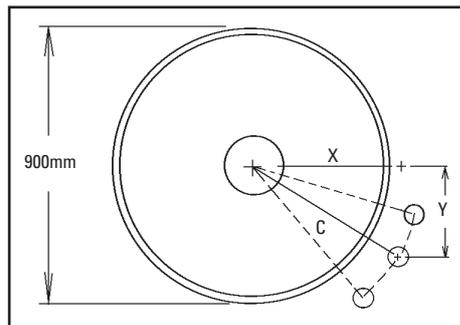
Conveyor situation:

Pulley Diameter: 900mm

X = 322mm

Y = 482mm

C = 580mm



- 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 50mm to clear the support structure).
- Write down known dimensions.** We can now determine two of the three required dimensions 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 50mm, so we add 50mm to the given “Y” dimension.

X = ?

Y = 482mm + 50mm = 532mm

C = 580mm

- 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 = 231mm

Y = 532mm

C = 580mm

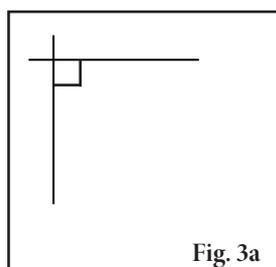


Fig. 3a

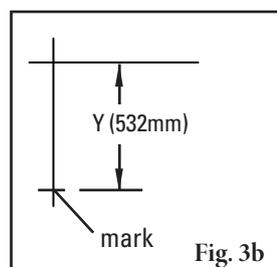


Fig. 3b

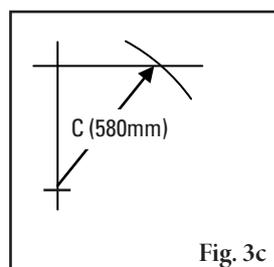


Fig. 3c

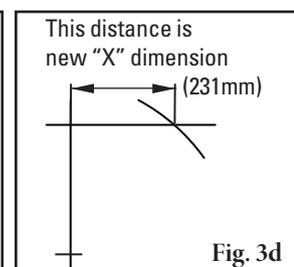
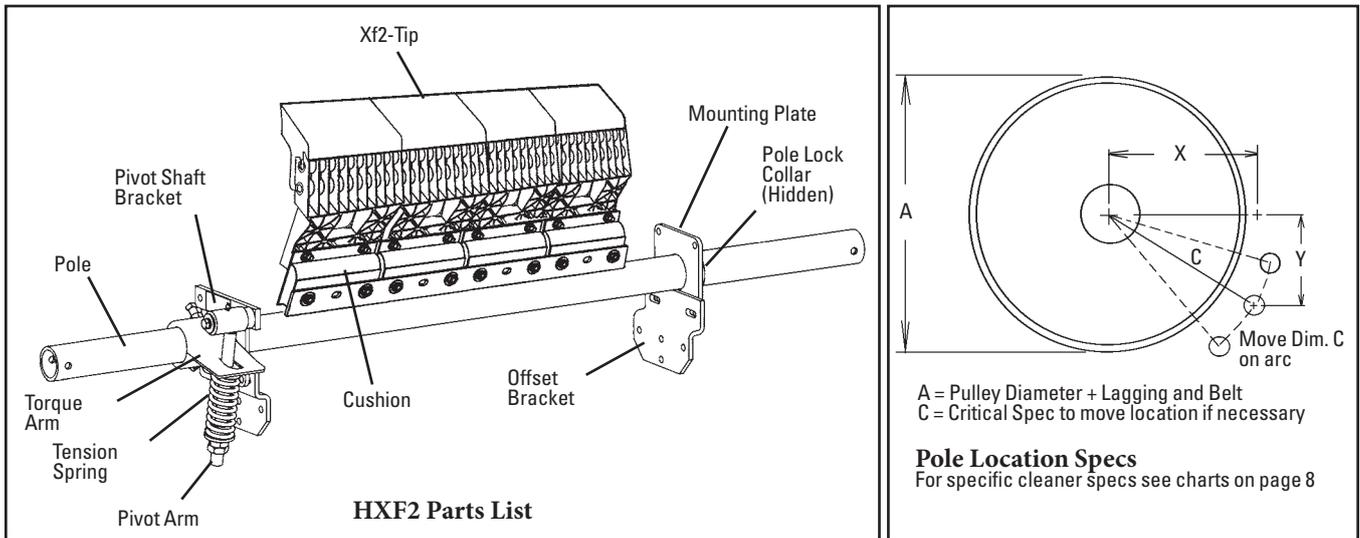


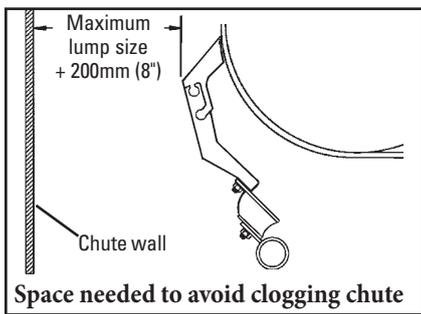
Fig. 3d

Section 4 – Installation Instructions

4.1 H-Type Precleaner with HXF or HXF2 Tips



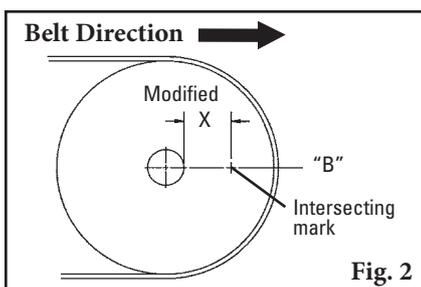
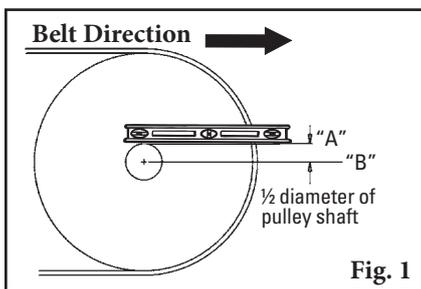
Physically lock out and tag the conveyor at the power source before you begin cleaner installation.



HXF2 Blade Size	Pulley Diameter + Belt and Lagging
SS	250 - 475mm (10" - 19")
S	500 - 775mm (20" - 31")
M	800 - 975mm (32" - 39")
L	1000 - 1175mm (40" - 47")

Tools Needed:

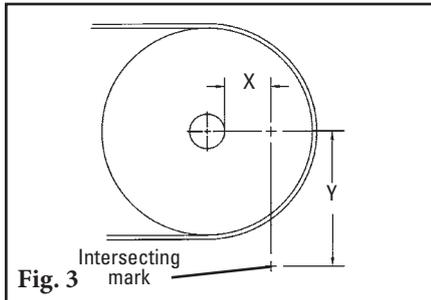
- Tape measure
- Level
- Wrenches or Crescent Wrenches:
 - (1) M10 (17mm)
 - (2) M12 (19mm)
 - (1) M16 (24mm)
 - (2) M24 (36mm)



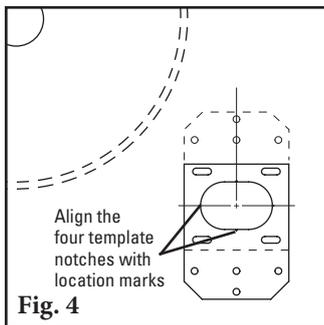
- Find X, Y & C measurements.** Find the X and Y measurement specifications for the pulley diameter. See charts on page 8. The pulley diameter measurement should include lagging and belt.
Pulley Diameter _____"; X= _____"; Y= _____"; C= _____".
Using the correct X and Y coordinates will position the cleaner blades at 15° below the horizontal plane on the head pulley.
- Measure head pulley shaft.** Determine the diameter of the pulley shaft and divide by 2. _____"
- Locate horizontal line from centre of pulley shaft.** Put a level on top of the pulley shaft and draw a horizontal line A. Measure down from Line A half the diameter of the pulley shaft and draw Line B parallel from the pulley shaft (Fig. 1).
- Mark X dimension.** Subtract the above dimension (Step 2) from the selected X dimension to establish the modified X dimension. With this new X dimension measure horizontally from the front of the pulley shaft forward on Line B and mark on the chute (Fig. 2).

Section 4 – Installation Instructions

4.1 H-Type Precleaner with HXF or HXF2 Tips (cont.)

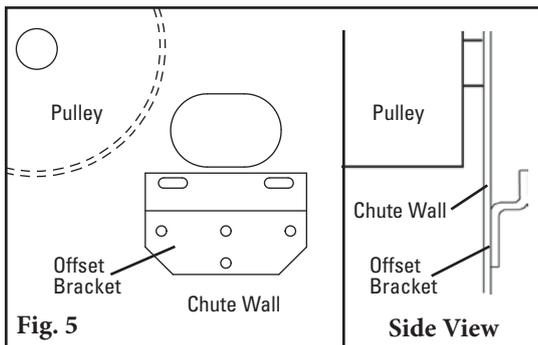


5. **Determine Y dimension.** From the X mark, draw a line vertically down to the selected Y dimension and make a mark (Fig. 3). This is the correct position for the centre of the pole.

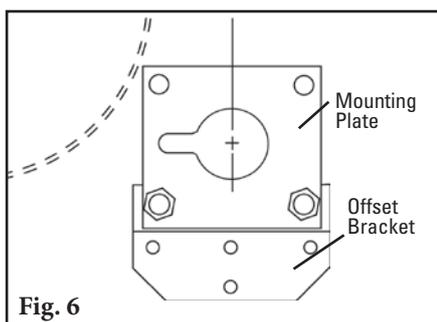


6. **Locate offset bracket position.** To locate the position of the offset bracket, position offset bracket template with the large hole notches aligned with the layout lines on the chute wall (Fig. 4). The template can be used with the bracket holes either below or above the Y mark.

7. **Cut pole opening.** Using template provided, trace and cut the large opening and the mounting holes.

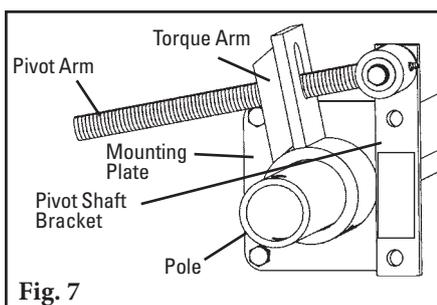


8. **Install offset brackets.** Locate the offset brackets in the correct position on the chute wall and bolt or weld in place (Fig. 5).
9. **Install the pole.** Slide the pole across the pulley and through the chute openings. Allow the tips to hang down.
10. **Install mounting plates.** On one side, slide mounting plate onto pole and with the key slot positioned horizontally and toward the pulley, bolt to the offset bracket, centre in slots and tighten (Fig. 6). On opposite side repeat the process, but do not tighten.



11. **Position the pole.** Rotate the pole upward until the tips touch the belt. Centre the tips across the belt. While applying light pressure on the centre tip, shift the loosened mounting plate until tips are contacting the belt evenly across the full width. Lock cleaner into this position by tightening mounting plate bolts.

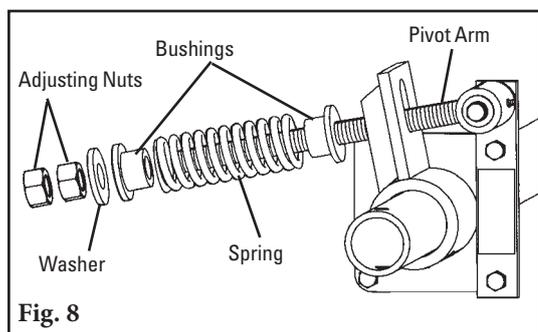
12. **Centre the cleaner on the belt and lock in place.** Centre the tips on the belt and install a pole lock collar on one end of the pole. Slide the collar snugly up to the mounting plate and tighten.



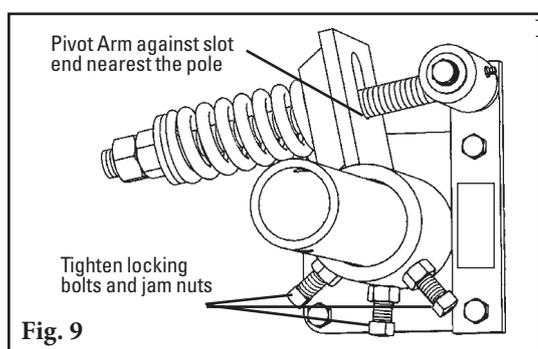
13. **Install the QMT spring tensioner.** Remove the adjusting nuts, bushings and spring from the pivot rod. Insert the pivot arm through the slot in the torque arm. Slide the torque arm onto the pole end (be sure the rotation of the arm is correct to tension the blade) and rotate it until the pivot shaft bracket lines up with the desired bolt holes (Fig. 7). Remove bolts, nuts and washers from mounting plate and reinsert through the pivot shaft bracket and mounting plate.

Section 4 – Installation Instructions

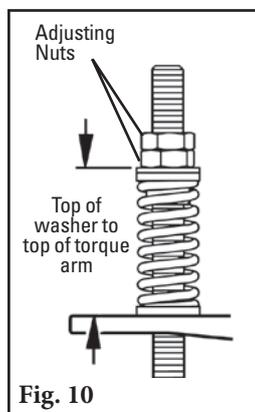
4.1 H-Type Precleaner with HXF or HXF2 Tips (cont.)



14. **Reassemble the spring assembly.** Slide the spring, washer and bushings onto the pivot arm and turn the two adjusting nuts so about 6mm (1/4") of the pivot arm is exposed above the nuts (Fig. 8).



15. **Tension the blades to the belt.** Rotate the blades until they contact 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. 9). **NOTE:** The torque arm should be up against the mounting plate.



HXF2 Spring Length Chart
(for optimal blade tensioning)

Belt Width	Tips	Spring Length			
		SS	S	M	L
450	2	114	102	145	N/A
600	3	142	138	135	N/A
750	3	142	138	135	N/A
900	4	127	130	5"	109
1050	5	128	120	152	152
1200	5	128	120	152	152
1350	6	120	152	149	149
1500	7	N/A	149	145	145
1800	8	N/A	145	142	142

Purple Spring
 Silver Spring
 White Spring

16. **Set the correct blade tension.** Refer to the chart on the pivot shaft bracket (also shown below) for the spring length required for the belt 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. 10). Lock the top adjusting nut.

17. **Verify your "C" dimension** to insure the pole is in the correct position.

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 4 – Installation Instructions

4.2 Pole Location Charts

**Extra Small (SS) XF2 Tips
for Head Pulley Diameters
250 - 475mm**

Diameter (Over Belt)	X	Y	C	Gap
250	51	302	305	60
275	64	305	311	57
300	73	308	318	54
325	86	311	324	51
350	98	314	330	48
375	111	318	337	44
400	124	321	343	41
425	137	324	352	38
450	149	327	359	38
475	159	330	368	35
500	171	333	378	35
525	184	337	384	32
550	197	340	394	32
575	210	343	403	29
600	222	349	413	29
625	235	352	422	29

 Recommended range for tip size
 Optional extended range

**Small (S) XF2 Tips
for Head Pulley Diameters
350 to 925mm**

Diameter (Over Belt)	X	Y	C	Gap
350	70	371	378	79
375	83	375	381	73
400	95	378	387	70
425	108	381	394	67
450	117	384	400	64
475	130	387	410	57
500	143	391	416	54
525	156	394	422	54
550	168	397	432	51
575	181	400	438	48
600	194	403	448	44
625	203	406	454	44
650	216	410	464	41
675	229	413	473	38
700	241	416	483	38
725	254	419	489	35
750	267	422	498	35
775	279	425	508	32
800	292	429	518	32
825	302	432	527	29
850	314	435	537	29
875	327	438	546	25
900	340	441	559	25
925	352	445	568	25

**Medium (M) XF2 Tips
for Head Pulley Diameters
650 to 1125mm**

Diameter (Over Belt)	X	Y	C	Gap
650	206	451	495	64
675	219	454	505	60
700	232	457	511	57
725	244	460	521	57
750	254	464	530	54
775	267	467	540	51
800	279	470	549	51
825	292	473	556	48
850	305	476	565	44
875	318	479	575	44
900	330	483	584	41
925	343	486	594	41
950	352	492	603	38
975	365	495	616	38
1000	378	498	625	35
1025	391	502	635	35
1050	403	505	645	35
1075	416	508	654	32
1100	429	511	667	32
1125	438	514	676	32

**Large (L) XF2 Tips
for Head Pulley Diameters
850 to 1325mm**

Diameter (Over Belt)	X	Y	C	Gap
850	298	511	591	60
875	311	514	600	57
900	324	518	610	54
925	337	521	619	54
950	349	524	629	51
975	362	527	638	51
1000	375	530	648	48
1025	384	533	657	44
1050	397	537	667	44
1075	410	540	679	41
1100	422	543	689	41
1125	435	546	699	41
1150	448	549	708	38
1175	460	552	718	38
1200	473	556	730	35
1225	483	559	740	35
1250	495	562	749	35
1275	508	565	762	32
1300	521	568	772	32
1325	533	575	781	32

Section 5 – Pre-Operation Checklist and Testing

5.1 Pre-Op Checklist

- Recheck that all fasteners are tightened properly
- Add pole caps
- Apply all supplied labels to the cleaner
- Check the blade location on the belt
- Be sure that all installation materials and tools have been removed from the belt and the conveyor area

5.2 Test Run the Conveyor

- Run the conveyor for at least 15 minutes and inspect the cleaning performance
- Check the tensioner spring for recommended length (proper tensioning)
- Make adjustments as necessary

NOTE: Observing the cleaner when it is running and performing properly will help to detect problems or when adjustments are needed later.

Section 6 – Maintenance

Flexco belt cleaners are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the cleaner is installed a regular maintenance program should be set up. This program will ensure that the cleaner operates at optimal efficiency and problems can be identified and fixed before the cleaner stops working.

All safety procedures for inspection of equipment (stationary or operating) must be observed. The H-Type® 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.

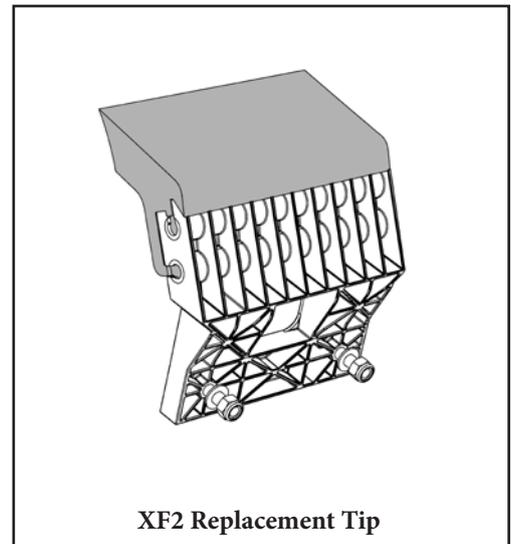
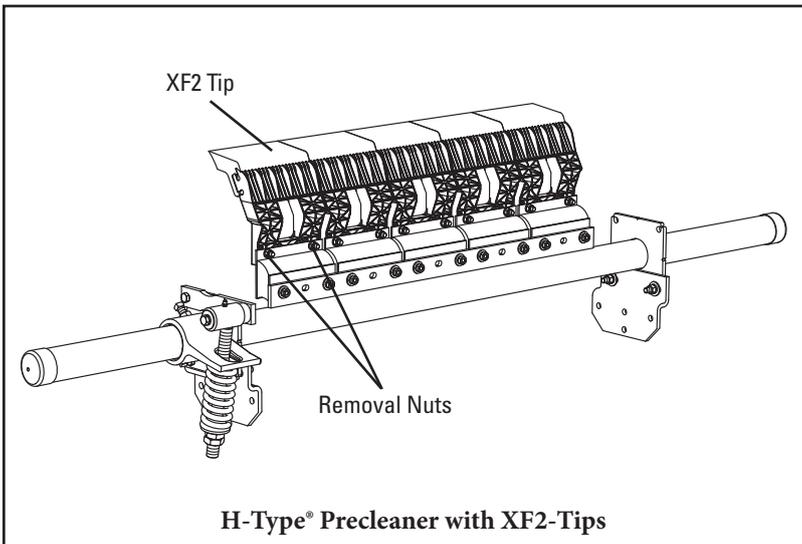
6.3 Routine Physical Inspection (every 6-8 weeks)

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

Section 6 – Maintenance

6.4 Blade Replacement Instructions

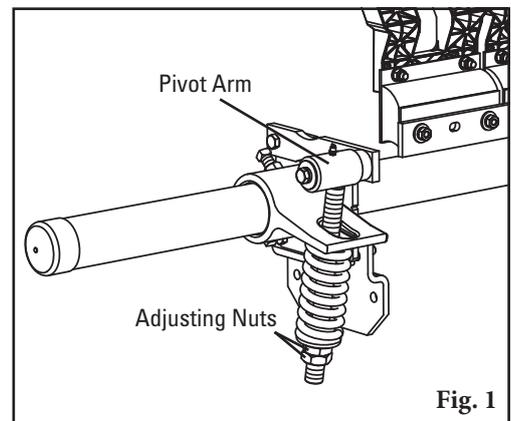


Physically lock out and tag the conveyor at the power source before you begin cleaner installation.

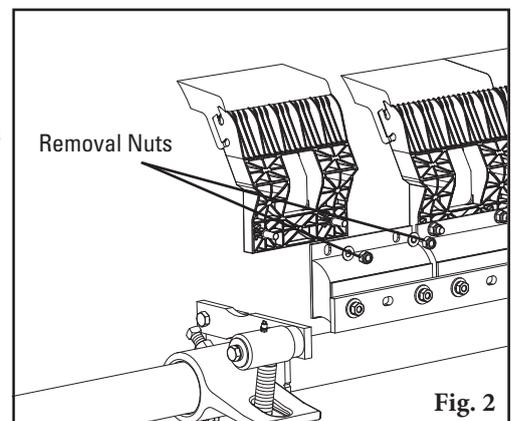
Tools Needed:

- Tape measure
- (1) M10 (17mm) wrench or crescent wrench
- (2) M24 (36mm) wrenches or crescent wrenches
- Wire brush (for cleaning pole)
- Small putty knife (for cleaning pole)

1. **Remove the tension.** Loosen the adjusting nuts on both sides and then turn them out until they are flush with the ends of the pivot arms (Fig. 1). This releases the tension of the blade on the belt.



2. **Remove the worn tips.** Remove the nuts on each tip and remove the tips from the suspension arm (Fig. 2). Clean all fugitive material from the pole.



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

Section 6 – Maintenance

6.4 Blade Replacement Instructions (cont.)

3. **Install the new tips.** Locate each tip onto each suspension arm, then install the hardware to fasten the tip to the cushion (Fig. 3).
4. **Reset the correct blade tension.** Refer to the chart for the spring length required for the belt 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.

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

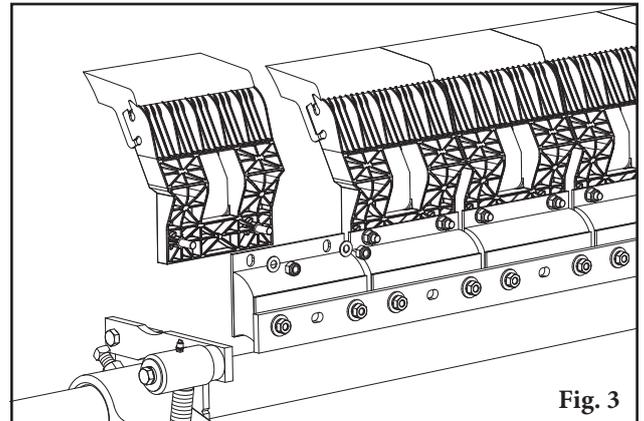
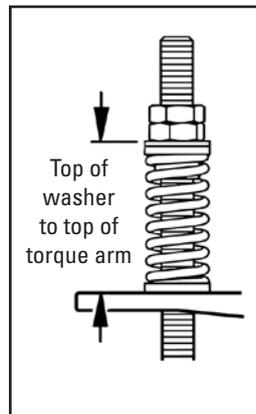


Fig. 3

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.



HXF2 Spring Length Chart
(for optimal blade tensioning)

Belt Width	Tips	Spring Length			
		SS	S	M	L
450	2	114	102	145	N/A
600	3	142	138	135	N/A
750	3	142	138	135	N/A
900	4	127	130	5"	109
1050	5	128	120	152	152
1200	5	128	120	152	152
1350	6	120	152	149	149
1500	7	N/A	149	145	145
1800	8	N/A	145	142	142

Purple Spring
 Silver Spring
 White Spring

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: 450mm (18") 600mm (24") 750mm (30") 900mm (36") 1050mm (42") 1200mm (48") 1350mm (54") 1500mm (60") 1800mm (72")

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

Distance from wear line: 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
Poor cleaning performance	Cleaner under-tensioned	Adjust to correct tension – see spring length chart
	Cleaner over-tensioned	Adjust to correct tension – see spring length chart
	Cleaner installed in wrong location	Verify "C" dimension, relocate to correct dimension
	Cleaner blade worn or damaged	Replace cleaner blade
Rapid Blade Wear	Tension on cleaner too high/low	Adjust to correct tension – see spring length chart
	Cleaner not located correctly	Check cleaner location for correct dimensions
	Blade attack angle incorrect	Check cleaner location for correct dimensions
	Material too abrasive for blade	Option: switch to alternate cleaner with metal blades
	Mechanical splice damaging blade	Repair, skive or replace splice
Centre wear on blade (smile effect)	Blade wider than material path	Replace blade with width to match material path
	Tension on cleaner too high/low	Adjust to correct tension – see spring length chart
Unusual wear or damage to blade	Mechanical splice damaging blade	Repair, skive or replace splice
	Belt damaged or ripped	Repair or replace belt
	Cleaner not correctly located	Verify "C" dimension, relocate to correct dimension
	Damage to pulley or pulley lagging	Repair or replace pulley
Vibration or noise	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	Use a spray pole when the belt is empty
	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 being pushed away from pulley	Cleaner tension not set correctly	Ensure correct tension/increase tension slightly
	Sticky material is overburdening cleaner	Increase tension; replace with cleaner with metal tips; replace with larger size cleaner
	Cleaner not set up correctly	Confirm location dimensions are equal on both sides

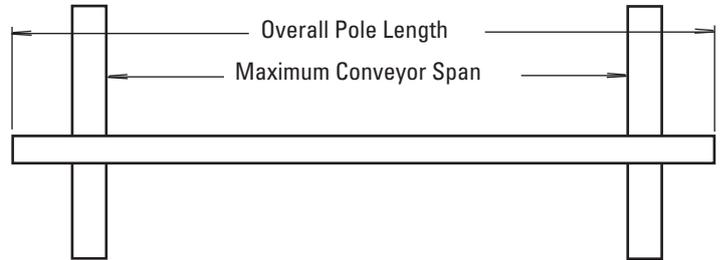
Section 8 – Specs and CAD Drawings

8.1 Specifications and Guidelines

Pole Length Specifications*

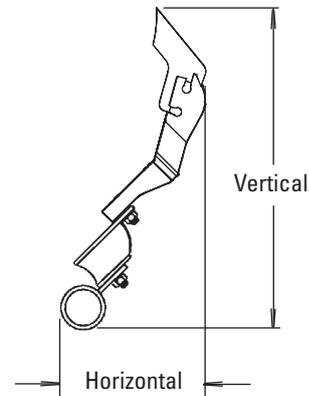
Cleaner Size		Pole Length		Maximum Conveyor Span	
mm	in.	mm	in.	mm	in.
450	18	1650	66	1400	56
600	24	1800	72	1550	62
750	30	1950	78	1700	68
900	36	2100	84	1850	74
1050	42	2250	90	2000	80
1200	48	2400	96	2150	86
1350	54	2550	102	2300	92
1500	60	2700	108	2450	98
1800	72	3000	120	2750	110

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



Clearance Guidelines for Installation

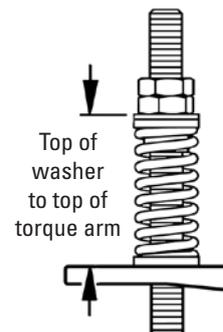
Suspension Arm Size	Horizontal Clearance Required		Vertical Clearance Required	
	mm	in.	mm	in.
SS	175	7	325	13
S	175	7	375	15
M	175	7	413	16 1/2
L	175	7	463	18 1/2
LL	175	7	550	22



HXF2 Spring Length Chart (for optimal blade tensioning)

Belt Width	Tips	Spring Length			
		SS	S	M	L
450	2	114	102	145	N/A
600	3	142	138	135	N/A
750	3	142	138	135	N/A
900	4	127	130	5"	109
1050	5	128	120	152	152
1200	5	128	120	152	152
1350	6	120	152	149	149
1500	7	N/A	149	145	145
1800	8	N/A	145	142	142

Purple Spring
 Silver Spring
 White Spring



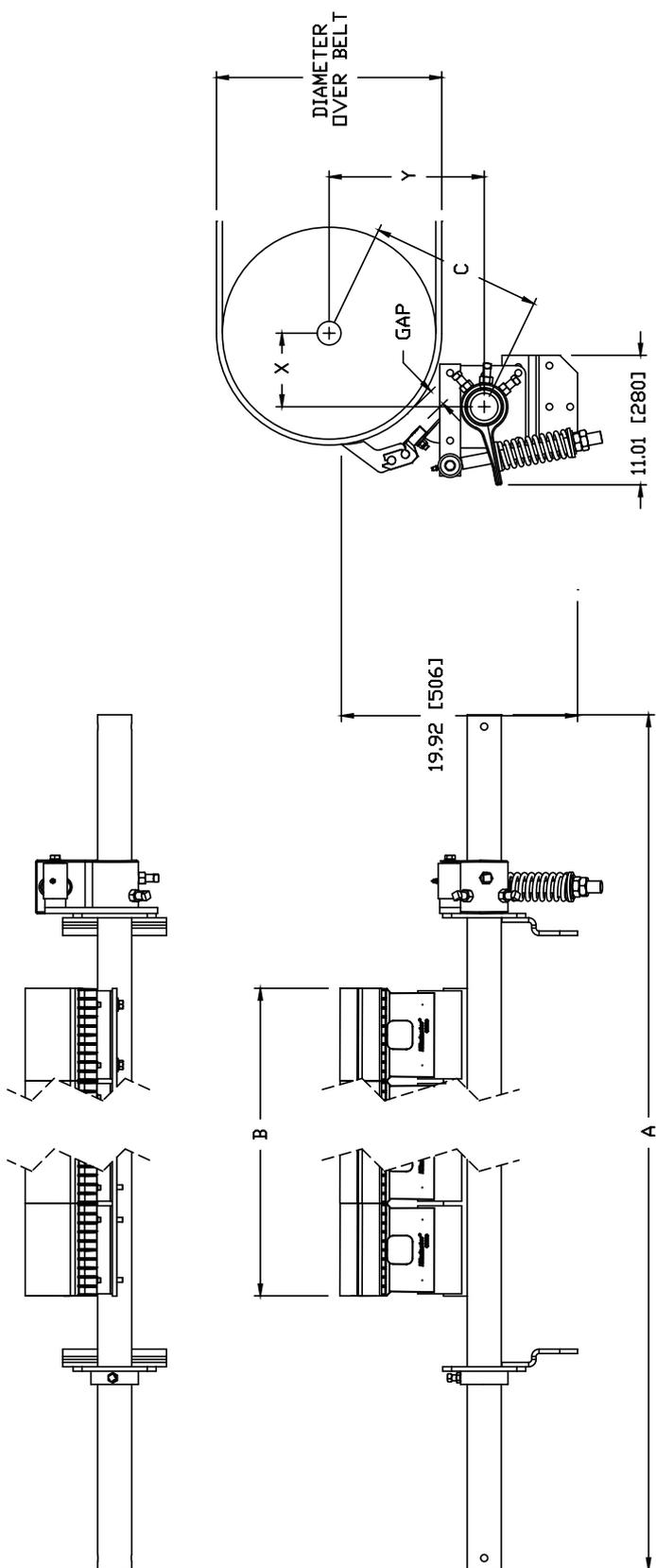
Specifications:

- Maximum Belt Speed.....5 m/s (1000 FPM)
- Temperature Rating.....-35°C to 82°C (-30°F to 180°)
- Usable Blade Wear Length.....75mm (3")
- Blade MaterialUrethane (proprietary blend for abrasion resistance and long wear)
- Available for Belt Widths.....450mm to 1800mm (18" to 72").
Other sizes available upon request.

U.S. patent No. 6,926,133

Section 8 – Specs and CAD Drawings

8.2 CAD Drawing - H-Type with XF2-Tips - SS



POLE LOCATION CHART

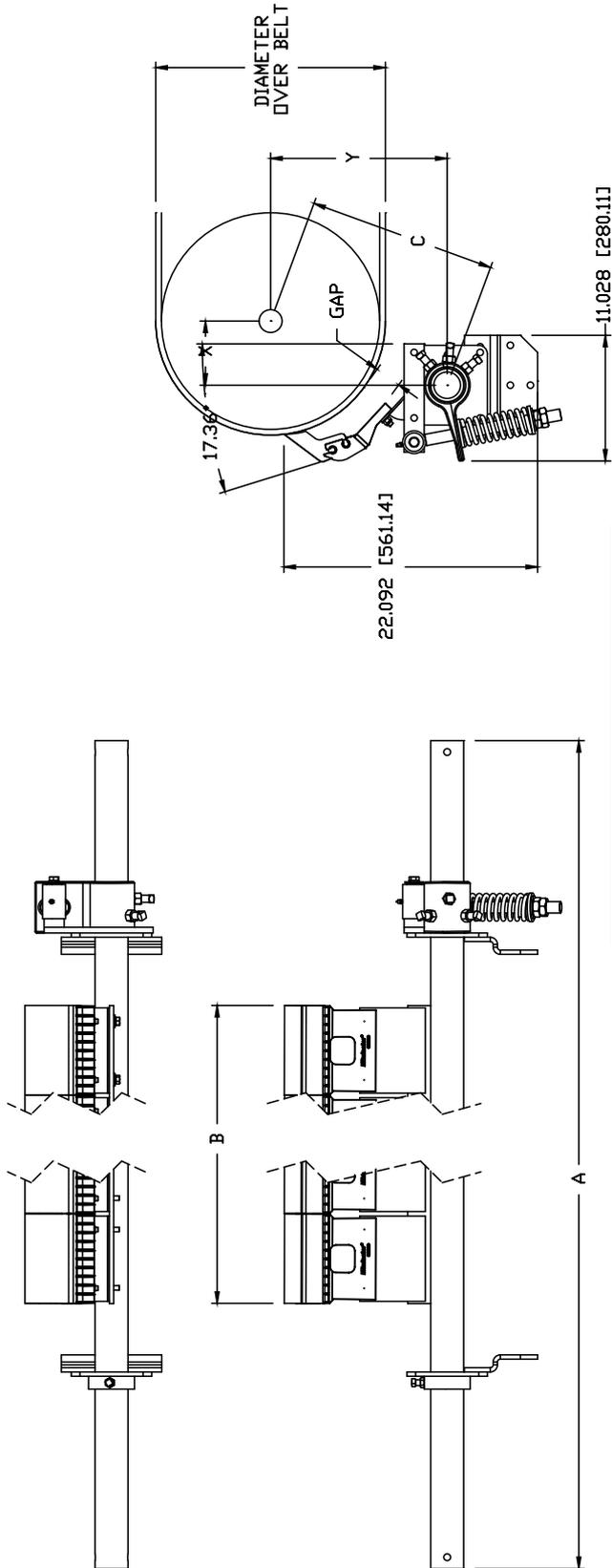
DIAMETER (OVER BELT)	X	Y	C	GAP
10	2	11-7/8	12	2-3/8
11	2-1/2	12	12-1/4	2-1/4
12	2-7/8	12-1/8	12-1/2	2-1/8
13	3-3/8	12-1/4	12-3/4	2
14	3-7/8	12-3/8	13	1-7/8
15	4-3/8	12-1/2	13-1/4	1-3/4
16	4-7/8	12-5/8	13-1/2	1-5/8
17	5-3/8	12-3/4	13-7/8	1-1/2
18	5-7/8	12-7/8	14-1/8	1-1/2
19	6-1/4	13	14-1/2	1-3/8
20	6-3/4	13-1/8	14-7/8	1-3/8
21	7-1/4	13-1/4	15-1/8	1-1/4
22	7-3/4	13-3/8	15-1/2	1-1/4
23	8-1/4	13-1/2	15-7/8	1-1/8
24	8-3/4	13-3/4	16-1/4	1-1/8
25	9-1/4	13-7/8	16-5/8	1-1/8

* OPTIONAL EXTENDED RANGE

C LEANER	BELT WIDTH	"A"	"B"	NO. OF BLADES
76138	18"	66"	15.75"	2
76139	24"	72"	23.62"	3
76140	30"	78"	23.62"	3
76141	36"	84"	31.45"	4
76142	42"	90"	39.37"	5
76143	48"	96"	39.37"	5
76144	54"	102"	47.25"	6

Section 8 – Specs and CAD Drawings

8.2 CAD Drawing - H-Type with XF2-Tips - S



POLE LOCATION CHART				
DIAMETER (OVER BELT)	X	Y	C	GAP
*14	2-3/4	14-5/8	14-7/8	3-1/8
*15	3-1/4	14-3/4	15	2-7/8
*16	3-3/4	14-7/8	15-1/4	2-3/4
*17	4-1/4	15	15-1/2	2-5/8
*18	4-5/8	15-1/8	15-3/4	2-1/2
*19	5-1/8	15-1/4	16-1/8	2-1/4
*20	5-5/8	15-3/8	16-3/8	2-1/8
*21	6-1/8	15-1/2	16-5/8	2-1/8
*22	6-5/8	15-5/8	17	2
*23	7-1/8	15-3/4	17-1/4	1-7/8
*24	7-5/8	15-7/8	17-5/8	1-3/4
*25	8	16	17-7/8	1-3/4
*26	8-1/2	16-1/8	18-1/4	1-5/8
*27	9	16-1/4	18-5/8	1-1/2
*28	9-1/2	16-3/8	19	1-1/2
*29	10	16-1/2	19-1/4	1-3/8
*30	10-1/2	16-5/8	19-5/8	1-3/8
*31	11	16-3/4	20	1-1/4
*32	11-1/2	16-7/8	20-3/8	1-1/4
*33	11-7/8	17	20-3/4	1-1/8
*34	12-3/8	17-1/8	21-1/8	1-1/8
*35	12-7/8	17-1/4	21-1/2	1
*36	13-3/8	17-3/8	22	1
*37	13-7/8	17-1/2	22-3/8	1

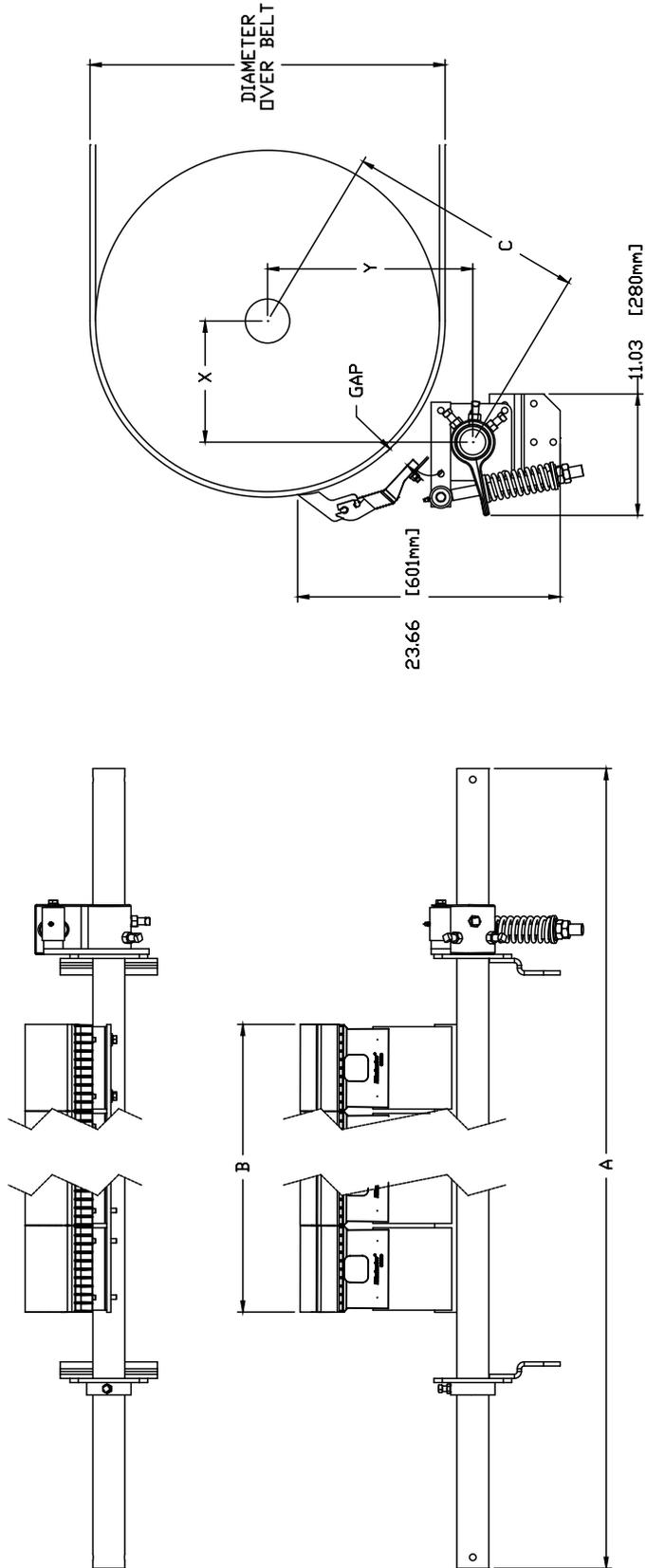
* OPTIONAL EXTENDED RANGE

CLEANER	BELT WIDTH	"A"	"B"	NO. OF BLADES
76289	18"	66"	15.75"	2
76291	24"	72"	23.62"	3
76293	30"	78"	23.62"	3
76295	36"	84"	31.50"	4
76298	42"	90"	39.38"	5
76301	48"	96"	39.38"	5
76304	54"	102"	47.22"	6
76145	60"	108"	55.09"	7
76146	72"	120"	62.96"	8



Section 8 – Specs and CAD Drawings

8.2 CAD Drawing - H-Type with XF2-Tips - M



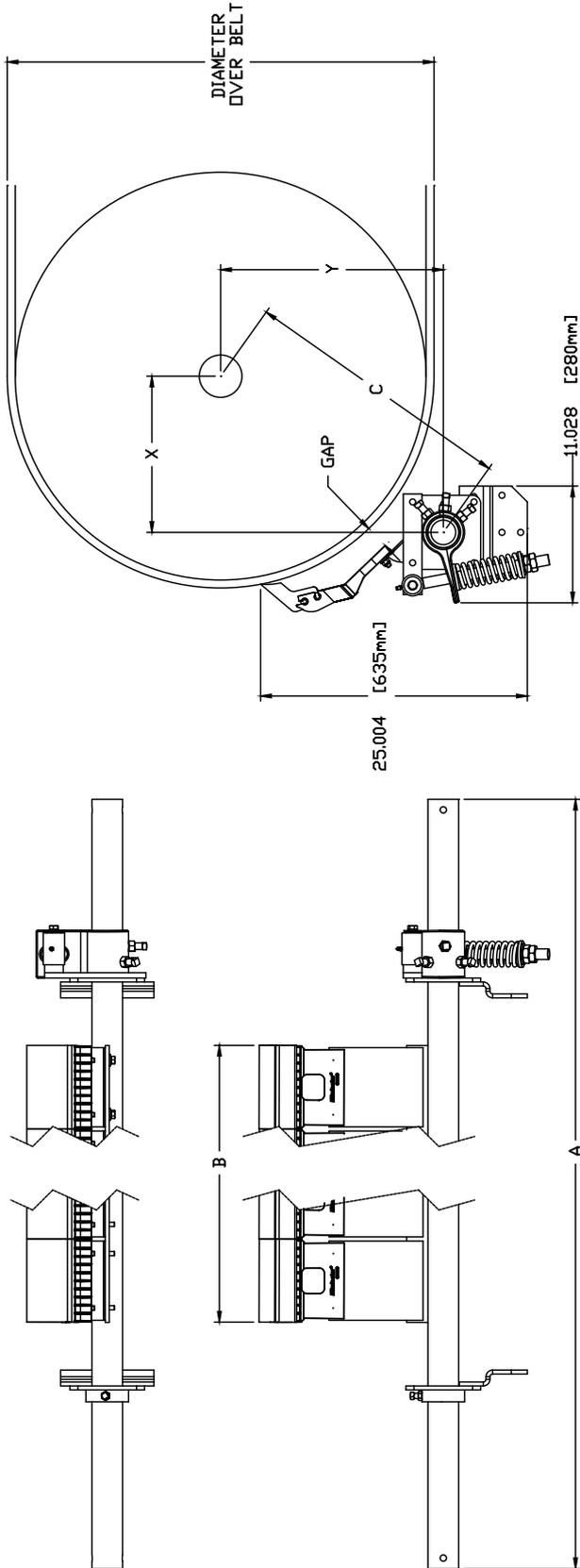
POLE LOCATION CHART				
DIAMETER (OVER BELT)	X	Y	C	GAP
*26	8-1/8	17-3/4	19-1/2	2-1/2
*27	8-5/8	17-7/8	19-7/8	2-3/8
*28	9-1/8	18	20-1/8	2-1/4
*29	9-5/8	18-1/8	20-1/2	2-1/4
*30	10	18-1/4	20-7/8	2-1/8
*31	10-1/2	18-3/8	21-1/4	2
32	11	18-7/8	21-5/8	2
33	11-1/2	18-9/8	21-7/8	1-7/8
34	12	18-3/4	22-1/4	1-3/4
35	12-1/2	18-7/8	22-5/8	1-3/4
36	13	19	23	1-5/8
37	13-1/2	19-1/8	23-3/8	1-5/8
38	13-7/8	19-3/8	23-3/4	1-1/2
39	14-3/8	19-1/2	24-1/4	1-1/2
*40	14-7/8	19-5/8	24-5/8	1-3/8
*41	15-3/8	19-3/4	25	1-3/8
*42	15-7/8	19-7/8	25-3/8	1-3/8
*43	16-3/8	20	25-3/4	1-1/4
*44	16-7/8	20-1/8	26-1/4	1-1/4
*45	17-1/4	20-1/4	26-5/8	1-1/4

* OPTIONAL EXTENDED RANGE

C LEANER	BELT WIDTH	"A"	"B"	NO. OF BLADES
76290	18"	66"	15.75"	2
76292	24"	72"	23.62"	3
76294	30"	78"	23.62"	3
76296	36"	84"	31.50"	4
76299	42"	90"	39.38"	5
76302	48"	96"	39.38"	5
76305	54"	102"	47.25"	6
76307	60"	108"	55.12"	7
76309	72"	120"	63.00"	8

Section 8 – Specs and CAD Drawings

8.2 CAD Drawing - H-Type with XF2-Tips - L



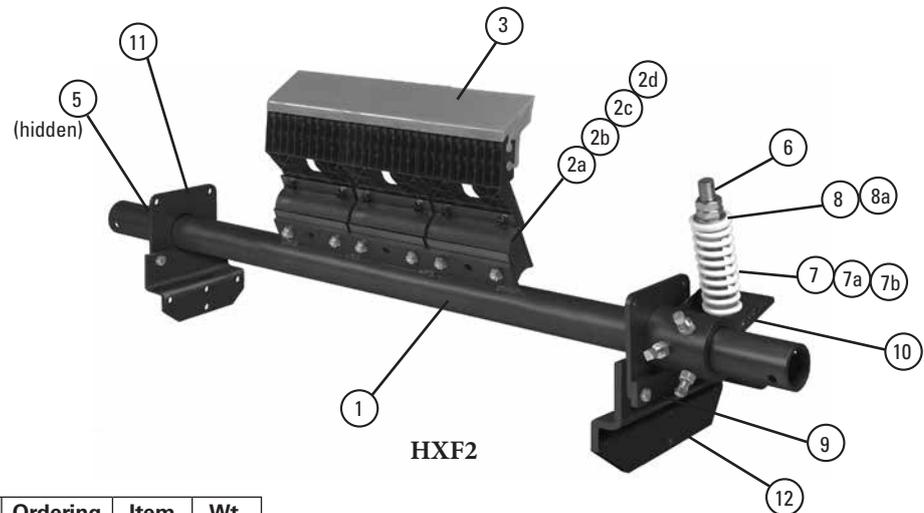
POLE LOCATION CHART

DIAMETER (OVER BELT)	X	Y	C	GAP
*34	11-3/4	20-1/8	23-1/4	2-3/8
*35	12-1/4	20-1/4	23-5/8	2-1/4
*36	12-3/4	20-3/8	24	2-1/8
*37	13-1/4	20-1/2	24-3/8	2-1/8
*38	13-3/4	20-5/8	24-3/4	2
*39	14-1/4	20-3/4	25-1/8	2
40	14-3/4	20-7/8	25-1/2	1-7/8
41	15-1/8	21	25-7/8	1-3/4
42	15-5/8	21-1/8	26-1/4	1-3/4
43	16-1/8	21-1/4	26-3/4	1-5/8
44	16-5/8	21-3/8	27-1/8	1-5/8
45	17-1/8	21-1/2	27-1/2	1-5/8
46	17-5/8	21-5/8	27-7/8	1-1/2
47	18-1/8	21-3/4	28-1/4	1-1/2
*48	18-5/8	21-7/8	28-3/4	1-3/8
*49	19	22	28-3/4	1-3/8
*50	19-1/2	22-1/8	29-1/8	1-3/8
*51	20	22-1/4	30	1-1/4
*52	20-1/2	22-3/8	30-3/8	1-1/4
*53	21	22-5/8	30-3/4	1-1/4

* OPTIONAL EXTENDED RANGE

CLEANER	BELT WIDTH	"A"	"B"	NO. OF BLADES
76297	36"	84"	31.50	4
76300	42"	90"	39.38	5
76303	48"	96"	39.38	5
76306	54"	102"	47.25	6
76308	60"	108"	55.12	7
76310	72"	120"	63.00	8

Section 9 – Replacement Parts



Replacement Parts

Ref	Description	Ordering Number	Item Code	Wt. KG
1	450mm (18") Pole	H78P18	76110	18.7
	600mm (24") Pole	H78P24	76111	21.1
	750mm (30") Pole	H78P30	76112	22.8
	900mm (36") Pole	H78P36	76113	25.3
	1050mm (42") Pole	H78P42	76114	27.7
	1200mm (48") Pole	H78P48	76115	29.4
	1350mm (54") Pole	H78P54	76116	31.9
	1500mm (60") Pole	H78P60	76117	45.3
	1800mm (72") Pole	H78P72	76118	51.3
2a	H2 XF Tip Cushion* (for S, M, L HXF2 Tips; or S-LL Susp. Arms)	HXFC2	75902	1.8
2b	H2 XF Tip Cushion, Neoprene* (oil resistant) (for S, M, L HXF2 Tips; or S-LL Susp. Arms)	HXFC2SS	77044	1.8
2c	H2 F Tip Cushion* (for SS HXF2 Tips; or SS Susp. Arms)	HFC2	75901	1.8
2d	H2 F Tip Cushion, Neoprene* (oil resistant) (for SS HXF2 Tips; or SS Susp. Arms)	HFC2SS	77043	1.8
3	HXF2 Tip Extra Small*	HXF2-SS	75979	1.4
	HXF2 Tip Small*	HXF2-S	75980	1.5
	HXF2 Tip Medium*	HXF2-M	75981	1.7
	HXF2 Tip Large*	HXF2-L	75982	1.9
5	Pole Lock Collar* (1 ea.)	MSPL	75816	0.9
6	Pivot Arm Kit* (1 ea.)	QMTPAK	76096	2.0
7	Tension Spring - Purple (1 ea.)**	QMTS-P	75845	0.3
7a	Tension Spring - White (1 ea.)**	PSTS-W	75898	0.8
7b	Tension Spring - Silver (1 ea.)**	PSTS-S	75899	1.4
8	Bushing Kit - Purple (2 ea.) (for Item 7)	QMTBK-P	76097	0.1
8a	Bushing Kit - White (2 ea.) (for Items 7a & 7b)	QMTBK-W	76098	0.1
9	Pivot Shaft Bracket Kit* (1 ea.)	QMTPSBK	76099	2.0
10	Torque Arm Kit* (1 ea.)	PSTA	75896	5.2
11	Mounting Plate Kit* (2 ea.)	MSPMPK	75811	3.8
12	Offset Bracket Kit* (1 ea.)	HOBK	76399	5.6
	QMT Spring Tensioner* - Purple (incl. 1 ea. Items 6, 7, 8, 9, & 10)	QMT-P	76074	9.3
	QMT Spring Tensioner* - White (incl. 1 ea. Items 6, 7a, 8a, 9, & 10)	QMT-W	76075	9.9
	QMT Spring Tensioner* - Silver (incl. 1 ea. Items 6, 7b, 8a, 9, & 10)	VQMT-S	76402	10.8

*Hardware included

Note: All poles and tensioners are heavy duty style.
Parts for old style H cleaners.

Lead time: 1 working day

Spring Tensioner Selection Chart

Cleaner Type And Size	76074 QMT-P	76075 QMT-W	76402 QMT-S
HXF2			
450mm SS & S	X		
450mm M; 600mm 900mm; 1050mm 1200mm SS & S; 1350mm SS		X	
1050mm 1200mm M & L; 1350mm 1800mm S, M, L			X

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

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

EZS2 Secondary Cleaner



- Long-wearing tungsten carbide blades for superior cleaning efficiency
- Patented FormFlex™ cushions independently tension each blade to the belt for consistent, constant cleaning power
- Easy to install, simple to service
- Works with Flexco mechanical belt splices

PT Max™ Belt Trainer



- Patented “pivot & tilt” design for superior training action
- Dual sensor rollers on each side to minimize belt damage
- Pivot point guaranteed not to freeze or seize up
- Available for topside and return side belts

Flexco Specialty Belt Cleaners



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

Belt Plows



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

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