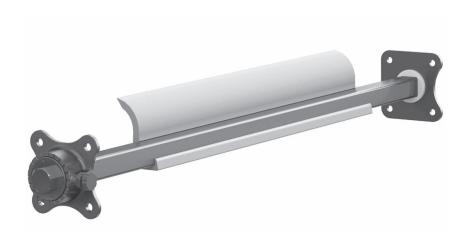
### FGP Food Grade Primary Cleaner

### Installation, Operation & Maintenance Manual





Patents: www.flexco.com/patents



### **FGP Food Grade Primary Cleaner**

Serial Number: Purchase Date: Purchased From:	Ordering Number:	
Purchase Date: Purchased From:	-	
Purchased From:	-	
	-	
	Installation Date:	

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 Introduction

We at Flexco are very pleased that you have selected the FGP Primary Cleaner for your conveyor system.

This manual will help you to understand the operation of this product and assist you in making it work up to its maximum efficiency over its lifetime of service.

It is essential for safe and efficient operation that the information and guidelines presented here be properly understood and implemented. This manual will provide safety precautions, installation instructions, maintenance procedures and troubleshooting tips.

If you have any questions or problems that are not covered in this manual, please visit our web site or contact our Customer Service Department:

Customer Service: 612-8818-2000

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 simple as possible, it does require correct installation and regular inspections and adjustments to maintain top performance.

### 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 costs
- Increased service life for the belt cleaner and other conveyor components

### 1.3 Service Option

The FGP Primary Cleaner is designed to be easily installed and serviced by your on-site personnel. However, if you would prefer complete turn-key factory service, please contact your local Flexco Field Engineer or your Flexco Distributor.

### **Section 2 - Safety Considerations and Precautions**

### 2.1 Stationary Conveyors

Before installing and operating the FGP Primary Cleaner, it is important to review and understand the following safety information. There are set-up, maintenance and operational activities involving both **stationary** and **operating** conveyors. Each case has a safety protocol.

The following activities are performed on stationary conveyors:

- Installation
- Blade replacement
- Repairs

- Tension adjustments
- Cleaning

### **A** DANGER

It is imperative that OSHA Lockout/Tagout (LOTO) regulations, 29 CFR 1910.147, be followed before undertaking the preceding activities. Failure to use LOTO exposes workers to uncontrolled behavior of the belt cleaner caused by movement of the conveyor belt. Severe injury or death can result.

### Before working:

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

### **A** WARNING

Use Personal Protective Equipment (PPE):

- Safety eyewear
- Hardhats
- Safety footwear

Close quarters, springs and heavy components create a worksite that compromises a worker's eyes, feet and skull. PPE must be worn to control the foreseeable hazards associated with conveyor belt cleaners. Serious injuries can be avoided.

### 2.2 Operating Conveyors

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

- Inspection of the cleaning performance
- Dynamic troubleshooting

### **A** DANGER

Every belt cleaner is an in-running nip hazard. Never touch or prod an operating cleaner. Cleaner hazards can 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

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.



### **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
- Inspect the belt and splice(s) for damage (tears, gouges, raised splices, etc.) that may interfere with the cleaner blade.
- Primary mounted belt cleaners are not generally recommended for use on impression cover, textured or cleated belts.
- 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?

**Caution:** All parts of the FGP Food Grade Primary Cleaner must be cleaned and sanitized in compliance with your company's policies and any applicable legal or regulatory requirements prior to installation and use.

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

### 3.2 Conveyor Mounting Structure

The first step in installing your FGP Food Grade Primary Cleaner is to verify that there is adequate structure at the head pulley for mounting the cleaner.

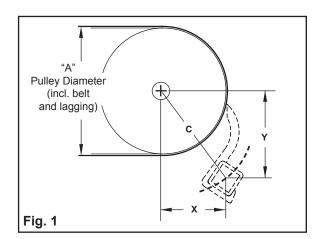
- **1.** Measure pulley diameter (A), including lagging and belt (Fig. 1).
- 2. Locate the overall pulley diameter that most closely matches yours on chart A, and use the corresponding X, Y, & C dimensions to locate the position of the center of the cleaner pole (Fig. 1).

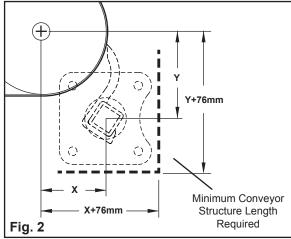
**Chart A: Pole Location** 

1	4	)	K	١	1	С		
mm	in.	mm	in.	mm	in.	mm	in.	
51	2.0	24	0.95	76	2.98	80	3.13	
64	2.5	30	1.19	77	3.03	83	3.25	
76	3.0	37	1.44	78	3.08	86	3.39	
89	3.5	43	1.68	79	3.12	90	3.55	
102	4.0	49	1.93	81	3.17	94	3.71	
114	4.5	55	2.18	82	3.22	99	3.88	
127	5.0	61	2.42	83	3.27	103	4.06	
140	5.5	68	2.67	84	3.31	108	4.25	
152	6.0	74	2.91	85	3.36	113	4.45	
165	6.5	80	3.16	87	3.41	118	4.64	
178	7.0	86	3.40	88	3.46	123	4.85	
191	7.5	93	3.65	89	3.51	129	5.06	
203	8.0	99	3.89	90	3.55	134	5.27	
216	8.5	105	4.14	91	3.60	139	5.48	
229	9.0	111	4.38	93	3.65	145	5.70	
241	9.5	118	4.63	94	3.70	150	5.92	
254	10.0	124	4.88	95	3.74	156	6.14	

 $\label{eq:ABC} A = Diameter of pulley + lagging thickness + belt thickness \\ C = Centerline of pulley to centerline of cleaner pole.$ 

- **3.** On both sides of the pulley, ensure that the conveyor structure extends downward from the centerline of the pulley shaft the distance Y + 76 mm and that it extends horizontally from the centerline of the pulley shaft the distance X + 76 mm. If there is not adequate conveyor structure, go to step 4 below. If the structure is adequate, skip to Section 4 Installation Instructions.
- **4.** Add the required amount of structure to the conveyor so that it extends to the Y + 76 mm and X + 76 mm dimensions from the centerline of the pulley shaft. **Note:** A minimum of three mounting bolts are required if bolting belt cleaner to structure.
- **5.** Proceed to Section 4 Installation Instructions.







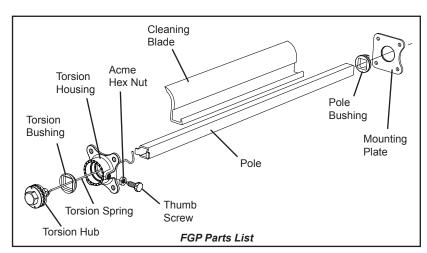
### Section 4 - Installation Instructions - FGP

### **FGP Food Grade Primary Cleaner Installation Instructions**

**Caution:** FGP Food Grade Primary Cleaner Installation Instructions – If your process or product may be adversely affected by contamination from the use of this belt cleaner, it is the user's responsibility to take the steps necessary to prevent contamination.

### **Tools Required**

- Tape measure
- 13 mm (½") combination wrench
- 16 mm (5/8") combination wrench
- Ratchet with 13 mm (1/2") socket
- Marking pen or soapstone
- 26 mm (1") wrench
- Cutting torch or 44 mm (1.75") diameter hole saw
- Welder (optional)



### PHYSICALLY LOCK OUT AND TAG THE CONVEYOR AT THE POWER SOURCE BEFORE YOU BEGIN CLEANER INSTALLATION.

### **Pre-Installation**

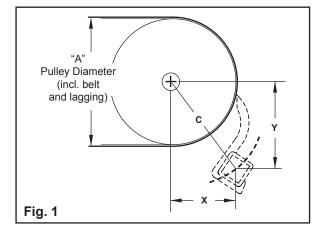
- Unpack belt cleaner from packaging
- Disassemble belt cleaner (see Parts List drawing above)
- · Verify that correct size cleaner has been ordered
- Verify that all parts are included

### **Installation Instructions**

- **1.** Measure outside structure width where cleaner will be mounted.
- 2. Measure belt cleaner pole length. Minimum pole length is structure width + 50 mm (2") (Chart B).
- **3.** From center of pulley shaft measure down the distance of Y dimension and place a mark on structure (Fig. 1).
- **4.** From Y location mark, measure away from the pulley the distance of X dimension and mark this position. This will be the location of center of pole (Fig 1). Measure the C dimension to verify that it is correct.
- **5.** Using the same X, Y, C dimensions repeat steps 2-4 on opposite side.

### **Chart B: Pole Lengths**

Pole Length		Stand Blad Leng	le	Bla	Minimum Blade Length		Minimum Conveyor Width at Cleaner Mounting Location		num eyor 1 at 1er ting ion
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
610	24	305	12	229	9	279	11	556	22
813	30	457	18	229	9	356	14	708	28
965	36	610	24	229	9	508	20	861	34
1067	42	813	30	457	18	660	26	1013	40
1219	48	965	36	457	18	813	32	1165	46
1372	54	1067	42	457	18	965	38	1318	52
1524	60	1219	48	457	18	1118	44	1470	58
1676	66	1372	54	457	18	1270	50	1623	64
1829	72	1524	60	457	18	1422	56	1775	70



### **Section 4 – Installation Instructions (cont.)**

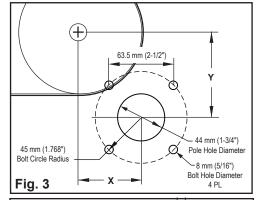
- 6. If mounting cleaner with supplied bolts, mark location of bolt holes per Fig. 3. The bolt holes need not be positioned at 10, 2, 5 and 7 o'clock. For ease of installation or as conditions require, bolt hole positions may be rotated about the pole centerline.
- 7. On each side of the conveyor structure, cut a 44 mm (1.75") diameter hole around the marks that locate the center of the pole (Fig. 3).
- 8. If mounting cleaner using supplied bolting, drill four 8 mm (5/16") bolt holes per the bolt hole diagram (Fig. 3).
- **9.** Clean up or remove any metal shavings or burrs created during the cutting/drilling of the pole and mounting bolt holes.
- 10. Determine which side of the conveyor has sufficient clearance to insert the cleaner pole. A horizontal distance of pole length + 152 mm (6") is required. Attach the Torsion Housing to the outside of the conveyor structure using one of the following options:
  - **a.** With standoff hardware (Fig 4).
  - **b.** Without standoff hardware flush mount (Fig 5).
  - c. Welded per local food application guidelines.

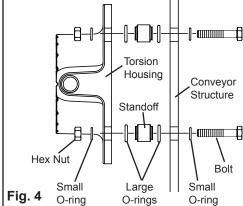
**Note:** If using flush mount method, a bead of food grade silicone should be applied on the bottom side of the torsion housing and the mounting plate (Fig 5).

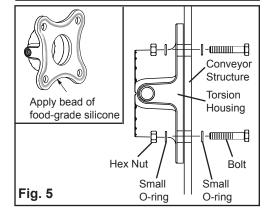
**11.** Attach opposite side mounting plate per the option selected above.

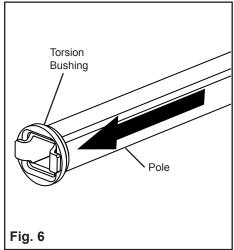
**Caution:** It is the responsibility of the user to ensure that the mounting method is in compliance with your company's policies and any applicable legal or regulatory requirements.

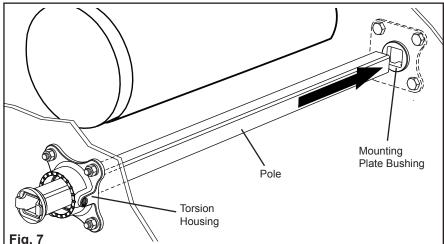
- **12.** Install torsion bushing on pole (Fig 6).
- **13.** Position pole through torsion housing and through mounting plate bushing on opposite side (Fig 7).













### **Section 4 – Installation Instructions (cont.)**

- **14.** Use included C-Dimension verification gauge to check for proper pole location (Fig. 8; Chart C).
  - **a.** Snap gauge onto pole at one end of head pulley so that outside edge of gauge is as close to belt as possible without touching the belt.
  - b. Rotate pole toward head pulley until gauge makes contact with belt.
  - **c.** The point on gauge where contact is made with belt indicates the measurement for gap between pole centerline and face of the belt/pulley. (The gap dimension is equal to C dimension minus radius of pulley.)
  - d. Verify that measured gap dimension is equal to gap dimension in Chart C for your pulley size.
  - **e.** Repeat measurement at other end of head pulley. Adjust position of pole as necessary to get required C dimension.

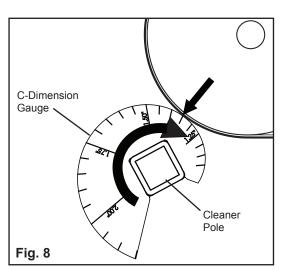
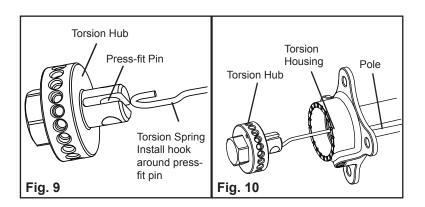


Chart C: Gap

Dian	Pulley Diameter (Inches)		ap nsion Gauge)	Dian	ley neter hes)	Gap Dimension (C-Dim Gauge)		
mm	in.	mm	in.	mm	in.	mm	in.	
51	2.0	54	2.13	165	6.5	35	1.39	
64	2.5	51	2.00	178	7.0	34	1.35	
76	3.0	48	1.89	191	7.5	33	1.31	
89	3.5	46	1.80	203	8.0	32	1.27	
102	4.0	43	1.71	216	8.5	31	1.23	
114	4.5	41	1.63	229	9.0	30	1.20	
127	5.0	40	1.56	241	9.5	30	1.17	
140	5.5	38	1.50	254	10.0	29	1.14	
152	6.0	37	1.45	267	10.5	28	1.12	

- **15.** Attach loop end of Torsion Spring to Torsion Hub pin location (Fig. 9).
- **16.** Insert assembled Torsion Hub with Torsion Spring into Torsion Housing and Pole until Torsion Hub is flush with Torsion Housing (Fig. 10).



- 17. Using a band saw or circular saw, cut Cleaning Blade to desired width. Deburr cut edge of blade as necessary.
  - **a.** For general purpose cleaner Flexco recommendation is belt width minus 25 mm (1").
  - **b.** For cleaning abrasive materials such as sugar and frosting, Flexco recommends material path width + 75 mm (3") for total blade length.

### **Section 4 – Installation Instructions (cont.)**

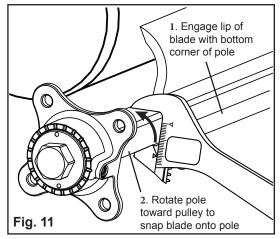
- **18.** Attach Cleaning Blade (Fig. 11).
  - **a.** Center and locate blade so that bottom lip engages with pole.
  - **b.** Using an adjustable wrench, rotate pole in the direction of the head pulley. Do not rotate the torsion hub as this may damage the spring.
  - **c.** Use hand to help snap blade to pole while rotating pole.

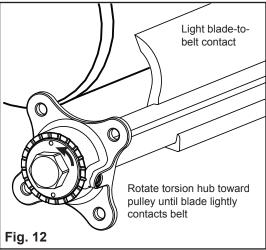
**Note:** When installing longer blades, it may be helpful to attach the blade starting at one end and work down the pole, engaging small lengths as you go.

- **19.** Tension Cleaning Blade to conveyor belt by rotating the Torsion Hub towards the head pulley until blade is making contact with belt and light tension is felt in Torsion Hub (Fig. 12).
- **20.** Rotate the Torsion Hub farther to the desired number of notches for tension pre-set. One to three notches is a typical pre-set tension (Fig. 13).
- **21.** While holding Torsion Hub in tension pre-set position, tighten thumb screw ensuring that the location pin engages into Torsion Hub hole (Fig. 14).
- 22. Test run conveyor.
- **23.** Loosen thumb screw and adjust tension as required for application.

**Caution:** Do not over tension the spring. Rotate the hub no more than 7 notches for cleaners up to 760 mm and 8 notches for cleaners over 760 mm.

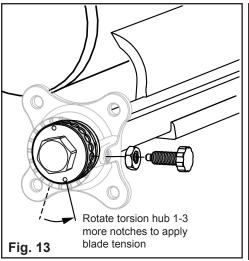
**24.** When desired tension is achieved, tighten thumb screw and jam nut (Fig. 14).

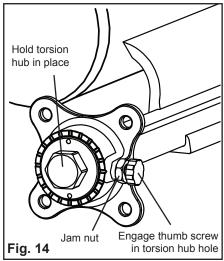




### NOTICE:

Cleaner has not been sanitized and must be cleaned and sanitized prior to use.







### **Section 5 - Pre-Operation Checklist and Testing**

### 5.1 Pre-Op Checklist

- Recheck that all fasteners are tightened properly.
- Check the blade location on the belt.
- Be sure that all installation materials and tools have been removed from the belt and the conveyor area.

### 5.2 Test Run the Conveyor

- Run the conveyor for at least 15 minutes and inspect the cleaning performance.
- If performance is inadequate, loosen jam nut and thumb screw.
- Rotate Torsion Hub to adjust tension as is required for application. Do not over tension the spring. Rotate the hub no more than 7 notches for cleaners up to 813 mm and 8 notches for cleaners over 813 mm.
- Tighten thumb screw and jam nut.

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

### **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 FGP Primary Cleaner operates at the discharge end of the conveyor and is in direct contact with the moving belt. Only visual observations can be made while the belt is running. Service tasks can be done only with the conveyor stopped and the correct lockout/tagout procedures observed.

### **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.

To ensure optimal cleaner performance, keep blade and pole free of product buildup.

### 6.2 Routine Visual Inspection (every 2-4 weeks)

A visual inspection of the cleaner and belt can determine:

- 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.
- 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 is properly locked and tagged out, conduct a physical inspection of the cleaner to perform the following tasks:

- Clean material buildup off of the cleaner blade and pole.
- Closely inspect the blade for wear and any damage. Replace if needed.
- Ensure full blade to belt contact.
- Inspect the cleaner pole for damage.
- Inspect all fasteners for tightness and wear. Tighten or replace as needed.
- Replace any worn or damaged components.
- If blade flash occurs remove as needed.
- Check the tension of the cleaner blade to the belt. Adjust the tension if necessary. Do not over tension the spring. Rotate the hub no more than 7 notches for cleaners up to 813 mm and 8 notches for cleaners over 813 mm.
- When maintenance tasks are completed, test run the conveyor to ensure the cleaner is performing properly.



### **6.4 Cleaning Instructions**

Remove cleaner blade, thumb screw and jam nut, torsion hub and spring, pole and pole mounting bushings. Clean and sanitize as required. Reassemble. Reset tension.

### 6.5 Blade Wear Inspection

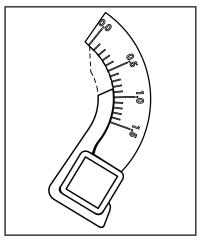
**Note:** Belt type, belt speed, material being conveyed, installation and other application factors will affect blade wear.

### **LARGE BLADE**

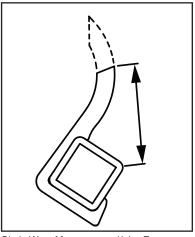
Pulley Diameter		Max Wear Measurement on Gauge	Blade Tip to Square Pole Corner Measurement			
mm	in.		mm	in.		
51	2	0.41	58	2.27		
64	2.5	0.49	55	2.18		
76	3	0.56	53	2.10		
89	3.5	0.62	52	2.04		
102	4	0.68	50	1.98		
114	4.5	0.73	49	1.92		
127	5	0.77	48	1.88		
140	5.5	0.81	47	1.84		
152	6	0.84	46	1.80		
165	6.5	0.88	45	1.76		
178	7	0.90	44	1.74		
191	7.5	0.93	43	1.71		
203	8	0.95	43	1.69		
216	8.5	0.98	42	1.66		
229	9	0.99	42	1.64		
241	9.5	1.01	41	1.62		
254	10	1.03	41	1.60		
267	10.5	1.04	40	1.59		
279	11	1.06	40	1.58		

**Note:** Maximum wear for dual durometer blade is 0.75 gauge measurement or 48 mm (1.90") from blade tip to square pole corner.

Blade wear can be measured either by using a tape measure to determine the dimension from the tip of the blade to the corner of the pole, or by using the blade wear gauge (at left) by placing the end opposite the "0" mark on the flat surface of the pole and laying the gauge along the outside curve of the blade. Gauge can be copied and cut out for use.

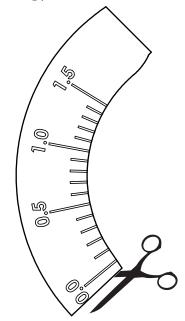


Blade Wear Measurement Using Gauge (see below) - Blade tip to top surface of pole



Blade Wear Measurement Using Tape Measure - Blade tip to corner of pole

### Blade Wear Indicator Gauge Copy and cut out for use



### **6.6 Blade Replacement Instructions**

### Removal of Cleaning Blade

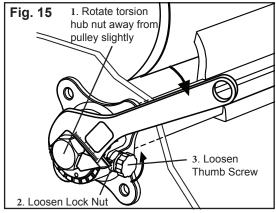
- **1.** Place adjustable wrench on Torsion Hub nut. Rotate away from pulley slightly to relieve force on thumb screw (Fig. 15).
- **2.** Release the tension on the pole by unlocking the thumb screw lock nut and turning the thumb screw counterclockwise until it is free from the tension hub (Fig. 15).
- **3.** Place the adjustable wrench on the pole, rotate pole until blade makes contact with head pulley/belt.
- 4. Place hand on blade, pressing blade against pulley (Fig. 16).
- 5. Rotate pole back while holding blade against pulley (Fig. 16).
- **6.** Blade should snap free from belt cleaner pole.
- 7. Remove blade.

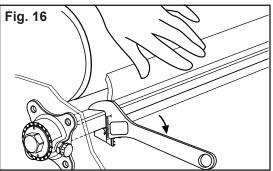
### **Installation of Cleaning Blade**

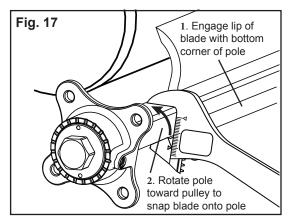
- 1. Insert blade up through gap between cleaner pole and head pulley/belt.
- 2. Center blade on belt.
- **3.** Catch bottom lip of blade on lower front edge of belt cleaner pole (Fig. 17).
- 4. Rotate belt cleaner pole towards head pulley.
- 5. Continue to rotate pole until cleaning blade snaps onto pole.

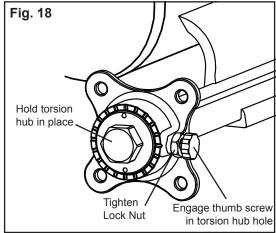
**Note:** On wider belts it may be necessary to assist the blade snapping with free hand while rotating the pole towards the pulley.

- 6. With blade rotated against face of head pulley/belt, place wrench on tension hub and rotate in the direction of the head pulley until the hub indicator has moved the appropriate number of notches on the hub housing. Do not over tension the spring. Rotate the hub no more than 7 notches for cleaners up to 813 mm and 8 notches for cleaners over
- 7. Turn thumb screw until the location tip fully engages with the nearest hub hole location (Fig. 18).
- **8.** Tighten lock nut on thumb screw (Fig. 18).
- 9. Test run conveyor and adjust cleaner tension as required.











### 6.7 Maintenance Log Conveyor Name/No. \_\_\_\_\_ Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_ 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:\_\_\_

### **6.8 Cleaner Maintenance Checklist**

FGP Belt Cleaner:	Ordering Number:
Blade Width:	□ Belt minus 1" (25 mm) □ Material path plus 3" (75 mm).
Conveyor Information:	
Conveyor Number:	Belt Condition:
Belt Width: ☐ 300 mm (12")	□ 450 mm □ 600 mm □ 750 mm □ 900 mm □ 1050 mm □ 1200 mm □ 1350 mm □ 1500 mm (18") (24") (30") (36") (42") (48") (54") (60")
Head Pulley Diameter (Be	lt & Lagging):
Belt Speed:fpm	Belt Thickness:
Belt Splice:	Condition of Splice: Number of splices:
Material conveyed:	
Days per week run:	Hours per day run:
Blade Life::	
Date blade installed:	Date blade inspected: Estimated blade life:
Is blade making complete	contact with belt? ☐ Yes ☐ No
Blade height: Let	ft Middle Right
Blade condition:	☐ Good ☐ Grooved ☐ Smiled ☐ Not contacting belt ☐ Damaged
Was Cleaner Adjusted:	□ Yes □ No
Pole Condition:	□ Good □ Bent □ Worn
<b>Lagging:</b> □ SI	ide lag □ Ceramic □ Rubber □ Other □ None
Condition of lagging:	□ Good □ Bad □ Other
Cleaner's Overall Perform	( Rate the following 1 - 5, 1 = very poor - 5 = very good )
Appearance: $\square$ Co	omments:
Location: $\square$ Co	omments:
Maintenance: □ Co	omments:
Performance: $\square$ Co	omments:
Other Comments:	



### **Section 7 - Troubleshooting**

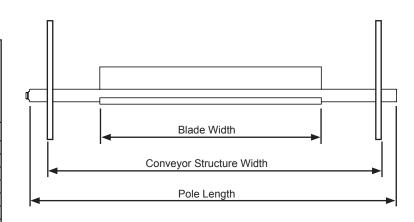
Problem	<b>Possible Cause</b>	Possible Solutions			
	Excessive build-up on cleaner	Inspect blade, bushings and pole for material buildup			
	Cleaner under-tensioned	Increase tension incrementally and reevaluate			
Poor cleaning performance	Cleaner over-tensioned	Decrease tension incrementally and reevaluate			
periormanee	Cleaner installed in wrong location	Verify "C" dimension, relocate to correct dimension			
	Cleaner blade worn or damaged	Replace cleaner blade			
	Excessive build-up on cleaner	Inspect blade, bushings and pole for material buildup			
	Cleaner under-tensioned	Increase tension incrementally and reevaluate			
	Cleaner over-tensioned	Decrease tension incrementally and reevaluate			
Rapid Blade Wear	Cleaner installed in wrong location	Verify "C" dimension, relocate to correct dimension			
	Excessively abrasive material	More frequent blade adjustment and replacement may be necessary			
	Mechanical splice damaging blade	Repair, skive or replace splice			
Excessive center	Blade wider than material path	Replace blade with width appropriate for material path			
wear on blade (smile	Cleaner under-tensioned	Increase tension incrementally and reevaluate			
effect)	Cleaner over-tensioned	Decrease tension incrementally and reevaluate			
	Excessive build-up on cleaner	Inspect blade, bushings and pole for material buildup			
Unusual wear, flash or damage	Mechanical splice damaging blade	Repair, skive or replace splice			
	Belt damaged or ripped	Repair or replace belt			
to blade	Cleaner installed in wrong location	Verify "C" dimension, relocate to correct dimension			
	Damage to pulley or pulley lagging	Repair or replace pulley or lagging			
	Excessive build-up on cleaner	Inspect blade, bushings and pole for material buildup			
	Cleaner installed in wrong location	Verify "C" dimension, relocate to correct dimension			
	Cleaner under-tensioned	Increase tension incrementally and reevaluate			
Vibration or noise	Cleaner over-tensioned	Decrease tension incrementally and reevaluate			
vibration of noise	Cleaner mounting not secure	Check and tighten all bolts and nuts			
	Cleaner not square to head pulley	Verify "C" dimension, relocate to correct dimension			
	Material build-up in chute	Remove build-up on cleaner and in chute			
	Using dual durometer blade on dry belt	Change to UHMW blade			
	Excessive build-up on cleaner	Inspect blade, bushings and pole for material buildup			
Cleaner being	Cleaner under-tensioned	Increase tension incrementally and reevaluate			
pushed away from	Cleaner over-tensioned	Decrease tension incrementally and reevaluate			
pulley	Sticky material is overburdening cleaner	Increase tension incrementally and reevaluate			
	Cleaner not set up correctly	Confirm location dimensions are equal on both sides			

### **Section 8 - Specs and CAD Drawings**

### 8.1 Specs and Guidelines

### **Pole Lengths**

. 0.0 20.19.1.0											
Pole Length		Standard Blade Length		Minimum Blade Length		Minimum Conveyor Width at Cleaner Mounting Location		Wid	reyor th at aner nting		
mm	in.	mm	in.	mm	in.	mm in.		mm	in.		
610	24	305	12	229	9	279	11	556	22		
813	30	457	18	229	9	356	14	708	28		
965	36	610	24	229	9	508	20	861	34		
1067	42	813	30	457	18	660	26	1013	40		
1219	48	965	36	457	18	813	32	1165	46		
1372	54	1067	42	457	18	965	38	1318	52		
1524	60	1219	48	457	18	1118	44	1470	58		
1676	66	1372	54	457	18	1270	50	1623	64		
1829	72	1524	60	457	18	1422	56	1775	70		

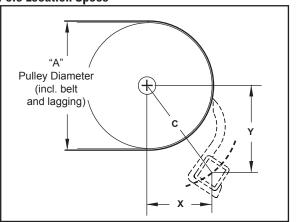


### **Pole Location**

1	A	2	K	١	1	С		
mm	in.	mm in.		mm	in.	mm	in.	
51	2.0	24	0.95	76	2.98	80	3.13	
64	2.5	30	1.19	77	3.03	83	3.25	
76	3.0	37	1.44	78	3.08	86	3.39	
89	3.5	43	1.68	79	3.12	90	3.55	
102	4.0	49	1.93	81	3.17	94	3.71	
114	4.5	55	2.18	82	3.22	99	3.88	
127	5.0	61	2.42	83	3.27	103	4.06	
140	5.5	68	2.67	84	3.31	108	4.25	
152	6.0	74	2.91	85	3.36	113	4.45	
165	6.5	80	3.16	87	3.41	118	4.64	
178	7.0	86	3.40	88	3.46	123	4.85	
191	7.5	93	3.65	89	3.51	129	5.06	
203	8.0	99	3.89	90	3.55	134	5.27	
216	8.5	105	4.14	91	3.60	139	5.48	
229	9.0	111	4.38	93	3.65	145	5.70	
241	9.5	118	4.63	94	3.70	150	5.92	
254	10.0	124	4.88	95	3.74	156	6.14	

A = Diameter of pulley + lagging thickness + belt thickness C = Centerline of pulley to centerline of cleaner pole.

### **Pole Location Specs**



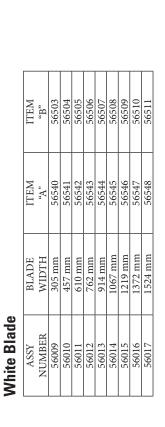
### **Specifications:**

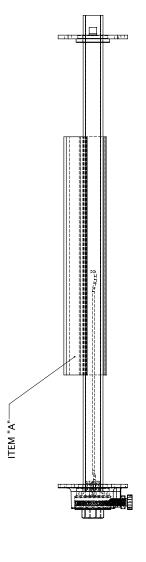
Dual Durometer: 0°C to 60°C (+32°F to 140°F) Usable Blade Wear Length (pulley size dependent).......50-66 mm (2" - 2.6") Blade Material ......Food-grade UHMW, UHMW with Stainless Steel, or Urethane with PVC Blade Hardness ......UHMW: 63D Shore Hardness Urethane: 85A Shore Hardness

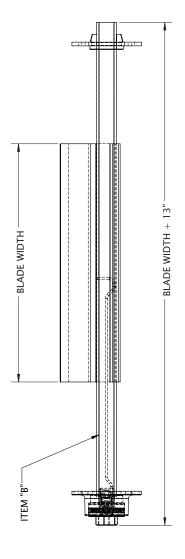
Pole/Mounting Material......304 Stainless Steel

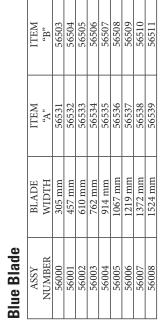
### **Section 8 - Specs and CAD Drawings (cont.)**

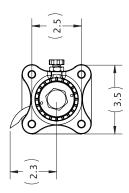
### 8.2 CAD Drawing - Food Grade Primary Cleaner with Blue or White Blade











### **Section 8 - Specs and CAD Drawings (cont.)**

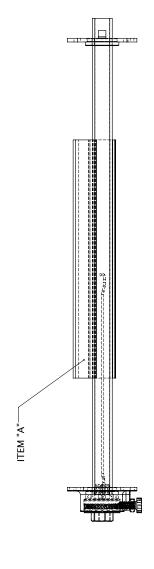
### 8.3 CAD Drawing - Food Grade Primary Cleaner with Metal Detectable Blade or Dual Durometer Blade

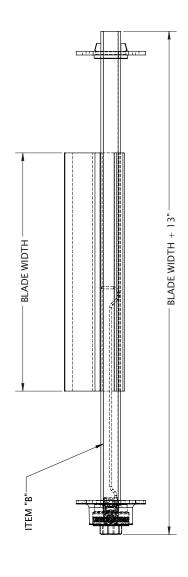
Blue Dual Durometer Blade with Metal Detectable Tip

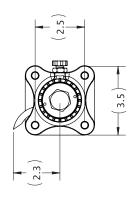
ITEM	"B"	56503	56504	20595	90595	20595	26508	56509	56510	56511
ITEM	"¥"	56549	56550	56551	56552	56553	56554	56555	56556	56557
BLADE	WIDTH	305 mm (12")	457 mm (18")	610 mm (24")	762 mm (30")	914 mm (36")	1067 mm (42")	1219 mm (48")	1372 mm (54")	1524 mm (60")
ASSY	NUMBER	56018	56019	56020	56021	56022	56023	56024	56025	56026
						_				

_		_	_	_	_	_	_	_	_	_
ITEM	"B"	56503	56504	56505	26506	26507	56508	26509	56510	56511
ITEM	"¥"	56558	56559	26560	56561	56562	56563	56564	56565	26566
BLADE	WIDTH	305 mm (12")	457 mm (18")	610 mm (24")	762 mm (30")	914 mm (36")	1067 mm (42")	1219 mm (48")	1372 mm (54")	1524 mm (60")
ASSY	NUMBER	56027	56028	56029	56030	56031	56032	56033	56034	56035

**Blue Metal Detectable Blade** 

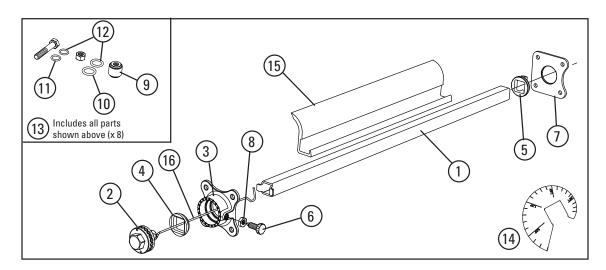






### **Section 9 - Replacement Parts**

### 9.1 Replacement Parts List



### **Replacement Parts**

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. KG
	610 mm (24") Pole	FGPL-24/610	56503	1.2
	762 mm (30") Pole	FGPL-30/762	56504	1.5
	914 mm (36") Pole	FGPL-36/914	56505	1.8
	1067 mm (42") Pole	FGPL-42/1067	56506	2.1
1	1219 mm (48") Pole	FGPL-48/1219	56507	2.4
	1372 mm (54") Pole	FGPL-54/1372	56508	2.8
	1524 mm (60") Pole	FGPL-60/1524	56509	3.1
	1676 mm (66") Pole	FGPL-66/1676	56510	3.4
	1829 mm (72") Pole	FGPL-72/1829	56511	3.7
2	Torsion Hub Assembly	FGTHUB	56519	0.2
3	Torsion Housing	FGTHSG	56520	0.3
4	Torsion Bushing	FGTBSG	56521	0.04
5	Pole Bushing	FGPBSG	56522	0.04
6	Thumb Screw	FGPIN	56523	0.04
7	End Plate	FGENDPLT	56524	0.2
8	Jam/Locking Nut	FGHEXNUT	56525	0.04
9	Standoff Kit (8 pc)	FGSTNDOFFKIT/8	56526	0.2
9	Standoff (1 pc)	FGSTND0FFKIT/1	56529	0.04
10	Large O-ring (1 pc)	FGO-RLG/1	56530	0.04
11	Small O-ring (1 pc)	FGO-RSM/1	56567	0.04
12	O-ring Kit (16 pcs. ea. Items 10 & 11)	FGO-RGKIT/32	56528	0.04
13	Hardware Kit	FGHRDWRKIT	56527	0.4
14	"C" Dimension Gauge	FG-C-GAUGE	56568	0.04

### **Replacement Springs**

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. KG
	Torsion Spring 152 mm (6") to 305 mm (12") Blades	FGTS-20/500	56500	0.05
16	Torsion Spring 330 mm (13") to 610 mm (24") Blades	FGTS-36/900	56501	0.05
10	Torsion Spring 635mm (25") to 1219 mm (48") Blades	FGTS-60/1500	56502	0.05
	Torsion Spring 1245 mm (49") to 1524 mm (60") Blades	FGTS-XL	56577	0.1

### **Replacement Blades**

NUMBER	ор					
305 mm (12") Blue Blade   FGB-BL3-12/305   56531   0.2			ORDERING	ITEM	WT.	
457 mm (18") Blue Blade	REF					
610 mm (24") Blue Blade				56531		
762 mm (30") Blue Blade		457 mm (18") Blue Blade	FGB-BL3-18/457	56532	0.3	
914 mm (36") Blue Blade		610 mm (24") Blue Blade	FGB-BL3-24/610	56533	0.4	
1067 mm (42") Blue Blade		762 mm (30") Blue Blade	FGB-BL3-30/762	56534	0.5	
1219 mm (48") Blue Blade   FGB-BL3-48/1219   56537   0.8     1372 mm (54") Blue Blade   FGB-BL3-54/1372   56538   1.0     1524 mm (60") Blue Blade   FGB-BL3-60/1524   56539   1.0     305 mm (12") White Blade   FGB-W3-12/305   56540   0.2     457 mm (18") White Blade   FGB-W3-18/457   56541   0.3     610 mm (24") White Blade   FGB-W3-24/610   56542   0.4     762 mm (30") White Blade   FGB-W3-30/762   56543   0.5     914 mm (36") White Blade   FGB-W3-36/914   56544   0.6     1067 mm (42") White Blade   FGB-W3-48/1219   56546   0.8     1372 mm (54") White Blade   FGB-W3-54/1372   56557   0.2     457 mm (18") Dual Durometer Blade   FGB-MDDD3-12/305   56549   0.2     457 mm (18") Dual Durometer Blade   FGB-MDDD3-18/457   56550   0.3     610 mm (24") Dual Durometer Blade   FGB-MDDD3-30/762   56552   0.5     914 mm (36") Dual Durometer Blade   FGB-MDDD3-30/762   56552   0.5     914 mm (36") Dual Durometer Blade   FGB-MDDD3-42/1067   56554   0.7     1219 mm (48") Dual Durometer Blade   FGB-MDDD3-48/1219   56555   0.6     1067 mm (42") Dual Durometer Blade   FGB-MDDD3-48/1219   56555   0.8     1372 mm (54") Dual Durometer Blade   FGB-MDDD3-48/1219   56555   0.8     1372 mm (54") Dual Durometer Blade   FGB-MDDD3-60/1524   56557   1.0     1524 mm (60") Dual Durometer Blade   FGB-MDDD3-48/1219   56555   0.8     1372 mm (18") Metal Detectable Blade   FGB-MDDD3-60/1524   56557   1.0     1524 mm (30") Metal Detectable Blade   FGB-MD3-36/914   56550   0.3     610 mm (24") Metal Detectable Blade   FGB-MD3-30/762   56556   0.0     457 mm (18") Metal Detectable Blade   FGB-MD3-36/914   56550   0.3     610 mm (24") Metal Detectable Blade   FGB-MD3-30/762   56566   0.5     914 mm (36") Metal Detectable Blade   FGB-MD3-36/914   56560   0.4     762 mm (30") Metal Detectable Blade   FGB-MD3-30/762   56566   0.5     914 mm (36") Metal Detectable Blade   FGB-MD3-36/914   56562   0.6     1067 mm (42") Metal Detectable Blade   FGB-MD3-30/762   56566   0.5     914 mm (36") Metal Detectable Blade   FGB-MD3-36/914   56566   0.6     1067 mm		914 mm (36") Blue Blade	FGB-BL3-36/914	56535	0.6	
1372 mm (54") Blue Blade   FGB-BL3-54/1372   56538   1.0     1524 mm (60") Blue Blade   FGB-BL3-60/1524   56539   1.0     305 mm (12") White Blade   FGB-W3-12/305   56540   0.2     457 mm (18") White Blade   FGB-W3-18/457   56541   0.3     610 mm (24") White Blade   FGB-W3-24/610   56542   0.4     762 mm (30") White Blade   FGB-W3-30/762   56543   0.5     914 mm (36") White Blade   FGB-W3-36/914   56544   0.6     1067 mm (42") White Blade   FGB-W3-36/914   56545   0.7     1219 mm (48") White Blade   FGB-W3-48/1219   56546   0.8     1372 mm (54") White Blade   FGB-W3-60/1524   56547   1.0     1524 mm (60") White Blade   FGB-MDD3-12/305   56549   0.2     457 mm (18") Dual Durometer Blade   FGB-MDD3-18/457   56550   0.3     610 mm (24") Dual Durometer Blade   FGB-MDD3-24/610   56551   0.4     762 mm (30") Dual Durometer Blade   FGB-MDDD3-36/914   56552   0.5     914 mm (36") Dual Durometer Blade   FGB-MDDD3-42/1067   56555   0.6     1067 mm (42") Dual Durometer Blade   FGB-MDDD3-42/1067   56555   0.8     1372 mm (54") Dual Durometer Blade   FGB-MDDD3-42/1067   56555   0.8     1372 mm (54") Dual Durometer Blade   FGB-MDDD3-42/1067   56555   0.8     1372 mm (54") Dual Durometer Blade   FGB-MDD3-54/1372   56556   1.0     1524 mm (60") Dual Durometer Blade   FGB-MDD3-54/1372   56555   0.8     1372 mm (18") Metal Detectable Blade   FGB-MDD3-12/305   56558   0.2     457 mm (18") Metal Detectable Blade   FGB-MD3-12/305   56559   0.3     610 mm (24") Metal Detectable Blade   FGB-MD3-12/305   56550   0.4     762 mm (30") Metal Detectable Blade   FGB-MD3-30/762   56551   0.5     914 mm (36") Metal Detectable Blade   FGB-MD3-30/762   56561   0.5     914 mm (36") Metal Detectable Blade   FGB-MD3-30/762   56561   0.5     914 mm (36") Metal Detectable Blade   FGB-MD3-30/762   56561   0.5     914 mm (36") Metal Detectable Blade   FGB-MD3-30/762   56561   0.5     914 mm (36") Metal Detectable Blade   FGB-MD3-30/762   56565   0.6     1067 mm (42") Metal Detectable Blade   FGB-MD3-30/762   56565   0.6     1067 mm (42") Metal Dete		1067 mm (42") Blue Blade	FGB-BL3-42/1067	56536	0.7	
1524 mm (60") Blue Blade   FGB-BL3-60/1524   56539   1.0   305 mm (12") White Blade   FGB-W3-12/305   56540   0.2   457 mm (18") White Blade   FGB-W3-18/457   56541   0.3   610 mm (24") White Blade   FGB-W3-24/610   56542   0.4   762 mm (30") White Blade   FGB-W3-30/762   56543   0.5   914 mm (36") White Blade   FGB-W3-36/914   56544   0.6   1067 mm (42") White Blade   FGB-W3-36/914   56545   0.7   1219 mm (48") White Blade   FGB-W3-48/1219   56546   0.8   1372 mm (54") White Blade   FGB-W3-54/1372   56547   1.0   1524 mm (60") White Blade   FGB-MDDD3-12/305   56549   0.2   457 mm (18") Dual Durometer Blade   FGB-MDDD3-18/457   56550   0.3   610 mm (24") Dual Durometer Blade   FGB-MDDD3-24/610   56551   0.4   762 mm (30") Dual Durometer Blade   FGB-MDDD3-36/914   56555   0.5   914 mm (36") Dual Durometer Blade   FGB-MDDD3-42/1067   56555   0.5   1372 mm (48") Dual Durometer Blade   FGB-MDDD3-48/1219   56555   0.8   1372 mm (54") Dual Durometer Blade   FGB-MDDD3-48/1219   56555   0.8   1372 mm (54") Dual Durometer Blade   FGB-MDDD3-48/1219   56555   0.8   1524 mm (60") Dual Durometer Blade   FGB-MDD3-54/1372   56556   1.0   1524 mm (60") Dual Durometer Blade   FGB-MDD3-54/1372   56556   1.0   1524 mm (60") Dual Durometer Blade   FGB-MDD3-18/457   56555   0.8   1372 mm (18") Metal Detectable Blade   FGB-MD3-12/305   56558   0.2   457 mm (18") Metal Detectable Blade   FGB-MD3-18/457   56555   0.3   610 mm (24") Metal Detectable Blade   FGB-MD3-18/457   56556   0.5   914 mm (36") Metal Detectable Blade   FGB-MD3-30/762   56561   0.5   914 mm (36") Metal Detectable Blade   FGB-MD3-30/762   56561   0.5   914 mm (36") Metal Detectable Blade   FGB-MD3-30/762   56561   0.5   914 mm (36") Metal Detectable Blade   FGB-MD3-30/762   56561   0.5   914 mm (36") Metal Detectable Blade   FGB-MD3-30/762   56561   0.5   914 mm (36") Metal Detectable Blade   FGB-MD3-30/762   56561   0.5   914 mm (36") Metal Detectable Blade   FGB-MD3-30/762   56565   0.6   1219 mm (48") Metal Detectable Blade   FGB-MD3-30/762   56565   0.6   121		1219 mm (48") Blue Blade	FGB-BL3-48/1219	56537	0.8	
305 mm (12") White Blade		1372 mm (54") Blue Blade	FGB-BL3-54/1372	56538	1.0	
457 mm (18") White Blade			FGB-BL3-60/1524	56539	1.0	
FGB-W3-24/610   S6542   O.4		305 mm (12") White Blade	FGB-W3-12/305	56540	0.2	
T62 mm (30") White Blade		457 mm (18") White Blade	FGB-W3-18/457	56541	0.3	
914 mm (36") White Blade FGB-W3-36/914 56544 0.6 1067 mm (42") White Blade FGB-W3-42/1067 56545 0.7 1219 mm (48") White Blade FGB-W3-48/1219 56546 0.8 1372 mm (54") White Blade FGB-W3-54/1372 56547 1.0 1524 mm (60") White Blade FGB-W3-60/1524 56548 1.0 305 mm (12") Dual Durometer Blade FGB-MDDD3-12/305 56549 0.2 457 mm (18") Dual Durometer Blade FGB-MDDD3-18/457 56550 0.3 610 mm (24") Dual Durometer Blade FGB-MDDD3-30/762 56552 0.5 914 mm (36") Dual Durometer Blade FGB-MDDD3-30/762 56552 0.5 914 mm (36") Dual Durometer Blade FGB-MDDD3-42/1067 56554 0.7 1219 mm (48") Dual Durometer Blade FGB-MDDD3-42/1067 56555 0.8 1372 mm (54") Dual Durometer Blade FGB-MDDD3-48/1219 56555 0.8 1372 mm (54") Dual Durometer Blade FGB-MDDD3-54/1372 56556 1.0 1524 mm (60") Dual Durometer Blade FGB-MDDD3-60/1524 56557 1.0 305 mm (12") Metal Detectable Blade FGB-MDD3-18/457 56559 0.3 610 mm (24") Metal Detectable Blade FGB-MD3-12/305 56558 0.2 457 mm (18") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 1219 mm (48") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56565 0.6 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56565 0.6 914 mm (36")		610 mm (24") White Blade	FGB-W3-24/610	56542	0.4	
1067 mm (42") White Blade		762 mm (30") White Blade	FGB-W3-30/762	56543	0.5	
1219 mm (48") White Blade FGB-W3-48/1219 56546 0.8 1372 mm (54") White Blade FGB-W3-54/1372 56547 1.0 1524 mm (60") White Blade FGB-W3-60/1524 56548 1.0 305 mm (12") Dual Durometer Blade FGB-MDDD3-12/305 56549 0.2 457 mm (18") Dual Durometer Blade FGB-MDDD3-18/457 56550 0.3 610 mm (24") Dual Durometer Blade FGB-MDDD3-24/610 56551 0.4 762 mm (30") Dual Durometer Blade FGB-MDDD3-30/762 56552 0.5 914 mm (36") Dual Durometer Blade FGB-MDDD3-36/914 56553 0.6 1067 mm (42") Dual Durometer Blade FGB-MDDD3-42/1067 56554 0.7 1219 mm (48") Dual Durometer Blade FGB-MDDD3-48/1219 56555 0.8 1372 mm (54") Dual Durometer Blade FGB-MDDD3-54/1372 56556 1.0 1524 mm (60") Dual Durometer Blade FGB-MDDD3-54/1372 56556 1.0 305 mm (12") Metal Detectable Blade FGB-MDD3-12/305 56558 0.2 457 mm (18") Metal Detectable Blade FGB-MD3-12/305 56559 0.3 610 mm (24") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6		914 mm (36") White Blade	FGB-W3-36/914	56544	0.6	
1372 mm (54") White Blade FGB-W3-54/1372 56547 1.0 1524 mm (60") White Blade FGB-W3-60/1524 56548 1.0 305 mm (12") Dual Durometer Blade FGB-MDDD3-12/305 56549 0.2 457 mm (18") Dual Durometer Blade FGB-MDDD3-18/457 56550 0.3 610 mm (24") Dual Durometer Blade FGB-MDDD3-24/610 56551 0.4 762 mm (30") Dual Durometer Blade FGB-MDDD3-30/762 56552 0.5 914 mm (36") Dual Durometer Blade FGB-MDDD3-36/914 56553 0.6 1067 mm (42") Dual Durometer Blade FGB-MDDD3-42/1067 56554 0.7 1219 mm (48") Dual Durometer Blade FGB-MDDD3-48/1219 56555 0.8 1372 mm (54") Dual Durometer Blade FGB-MDDD3-54/1372 56556 1.0 1524 mm (60") Dual Durometer Blade FGB-MDDD3-60/1524 56557 1.0 305 mm (12") Metal Detectable Blade FGB-MDD3-12/305 56558 0.2 457 mm (18") Metal Detectable Blade FGB-MD3-18/457 56559 0.3 610 mm (24") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-30/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (48") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (48") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (48") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (48") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (48") Metal Detectable Blade FGB-MD3-36/914 56566 0.8 1372 mm (54") Metal Detectable Blade FGB-MD3-54/1372 56565 1.0		1067 mm (42") White Blade	FGB-W3-42/1067	56545	0.7	
1524 mm (60") White Blade FGB-W3-60/1524 56548 1.0 305 mm (12") Dual Durometer Blade FGB-MDD3-12/305 56549 0.2 457 mm (18") Dual Durometer Blade FGB-MDD3-18/457 56550 0.3 610 mm (24") Dual Durometer Blade FGB-MDD3-24/610 56551 0.4 762 mm (30") Dual Durometer Blade FGB-MDD3-30/762 56552 0.5 914 mm (36") Dual Durometer Blade FGB-MDD3-30/762 56552 0.5 914 mm (36") Dual Durometer Blade FGB-MDD3-36/914 56553 0.6 1067 mm (42") Dual Durometer Blade FGB-MDD3-34/1067 56554 0.7 1219 mm (54") Dual Durometer Blade FGB-MDD3-34/1219 56555 0.8 1372 mm (54") Dual Durometer Blade FGB-MDD3-54/1372 56556 1.0 1524 mm (60") Dual Durometer Blade FGB-MDD3-54/1372 56556 1.0 305 mm (12") Metal Detectable Blade FGB-MD3-12/305 56558 0.2 457 mm (18") Metal Detectable Blade FGB-MD3-18/457 56559 0.3 610 mm (24") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-34/1372 56564 0.8 1372 mm (54") Metal Detectable Blade FGB-MD3-44/1067 56563 0.7 1219 mm (48") Metal Detectable Blade FGB-MD3-54/1372 56565 1.0		1219 mm (48") White Blade	FGB-W3-48/1219	56546	0.8	
305 mm (12") Dual Durometer Blade   FGB-MDDD3-12/305   56549   0.2		1372 mm (54") White Blade	FGB-W3-54/1372	56547	1.0	
305 mm (12") Dual Durometer Blade   FGB-MDDD3-12/305   56549   0.2	15	1524 mm (60") White Blade	FGB-W3-60/1524	56548		
610 mm (24") Dual Durometer Blade         FGB-MDDD3-24/610         56551         0.4           762 mm (30") Dual Durometer Blade         FGB-MDDD3-30/762         56552         0.5           914 mm (36") Dual Durometer Blade         FGB-MDDD3-36/914         56553         0.6           1067 mm (42") Dual Durometer Blade         FGB-MDDD3-42/1067         56554         0.7           1219 mm (48") Dual Durometer Blade         FGB-MDDD3-48/1219         56555         0.8           1372 mm (54") Dual Durometer Blade         FGB-MDDD3-54/1372         56556         1.0           1524 mm (60") Dual Durometer Blade         FGB-MDDD3-60/1524         56557         1.0           305 mm (12") Metal Detectable Blade         FGB-MD3-12/305         56558         0.2           457 mm (18") Metal Detectable Blade         FGB-MD3-18/457         56559         0.3           610 mm (24") Metal Detectable Blade         FGB-MD3-30/762         56560         0.4           762 mm (30") Metal Detectable Blade         FGB-MD3-36/914         56562         0.6           914 mm (36") Metal Detectable Blade         FGB-MD3-34/1067         56563         0.7           1219 mm (48") Metal Detectable Blade         FGB-MD3-48/1219         56564         0.8           1372 mm (54") Metal Detectable Blade         FGB-MD3-54/1372         5	10	305 mm (12") Dual Durometer Blade	FGB-MDDD3-12/305	56549	0.2	
762 mm (30") Dual Durometer Blade         FGB-MDDD3-30/762         56552         0.5           914 mm (36") Dual Durometer Blade         FGB-MDDD3-36/914         56553         0.6           1067 mm (42") Dual Durometer Blade         FGB-MDDD3-42/1067         56554         0.7           1219 mm (48") Dual Durometer Blade         FGB-MDDD3-48/1219         56555         0.8           1372 mm (54") Dual Durometer Blade         FGB-MDDD3-54/1372         56556         1.0           1524 mm (60") Dual Durometer Blade         FGB-MDDD3-60/1524         56557         1.0           305 mm (12") Metal Detectable Blade         FGB-MD3-12/305         56558         0.2           457 mm (18") Metal Detectable Blade         FGB-MD3-18/457         56559         0.3           610 mm (24") Metal Detectable Blade         FGB-MD3-30/762         56560         0.4           762 mm (30") Metal Detectable Blade         FGB-MD3-30/762         56561         0.5           914 mm (36") Metal Detectable Blade         FGB-MD3-36/914         56562         0.6           1067 mm (42") Metal Detectable Blade         FGB-MD3-42/1067         56563         0.7           1219 mm (48") Metal Detectable Blade         FGB-MD3-48/1219         56564         0.8           1372 mm (54") Metal Detectable Blade         FGB-MD3-54/1372		457 mm (18") Dual Durometer Blade	FGB-MDDD3-18/457	56550	0.3	
914 mm (36") Dual Durometer Blade 1067 mm (42") Dual Durometer Blade 1067 mm (48") Dual Durometer Blade 1372 mm (54") Dual Durometer Blade 1372 mm (54") Dual Durometer Blade 1372 mm (54") Dual Durometer Blade 1524 mm (60") Dual Durometer Blade 1524 mm (60") Dual Durometer Blade 1524 mm (12") Metal Detectable Blade 1524 mm (18") Metal Detectable Blade 1525 mm (12") Metal Detectable Blade 1526 mm (18") Metal Detectable Blade 1527 mm (18") Metal Detectable Blade 1528 mm (30") Metal Detectable Blade 1537 mm (18") Metal Detectable Blade 1538 mm (12") Metal Detectable Blade 1539 mm (12") Metal Detectable Blade 1565 mm (12") Metal Detectable Blade 1570 mm (12") Metal Detectab		610 mm (24") Dual Durometer Blade	FGB-MDDD3-24/610	56551	0.4	
1067 mm (42") Dual Durometer Blade       FGB-MDDD3-42/1067       56554       0.7         1219 mm (48") Dual Durometer Blade       FGB-MDDD3-48/1219       56555       0.8         1372 mm (54") Dual Durometer Blade       FGB-MDDD3-54/1372       56556       1.0         1524 mm (60") Dual Durometer Blade       FGB-MDDD3-60/1524       56557       1.0         305 mm (12") Metal Detectable Blade       FGB-MD3-12/305       56558       0.2         457 mm (18") Metal Detectable Blade       FGB-MD3-18/457       56559       0.3         610 mm (24") Metal Detectable Blade       FGB-MD3-24/610       56560       0.4         762 mm (30") Metal Detectable Blade       FGB-MD3-30/762       56561       0.5         914 mm (36") Metal Detectable Blade       FGB-MD3-36/914       56562       0.6         1067 mm (42") Metal Detectable Blade       FGB-MD3-42/1067       56563       0.7         1219 mm (48") Metal Detectable Blade       FGB-MD3-48/1219       56564       0.8         1372 mm (54") Metal Detectable Blade       FGB-MD3-54/1372       56565       1.0		762 mm (30") Dual Durometer Blade	FGB-MDDD3-30/762	56552	0.5	
1219 mm (48") Dual Durometer Blade       FGB-MDDD3-48/1219       56555       0.8         1372 mm (54") Dual Durometer Blade       FGB-MDDD3-54/1372       56556       1.0         1524 mm (60") Dual Durometer Blade       FGB-MDDD3-60/1524       56557       1.0         305 mm (12") Metal Detectable Blade       FGB-MD3-12/305       56558       0.2         457 mm (18") Metal Detectable Blade       FGB-MD3-18/457       56559       0.3         610 mm (24") Metal Detectable Blade       FGB-MD3-24/610       56560       0.4         762 mm (30") Metal Detectable Blade       FGB-MD3-30/762       56561       0.5         914 mm (36") Metal Detectable Blade       FGB-MD3-36/914       56562       0.6         1067 mm (42") Metal Detectable Blade       FGB-MD3-42/1067       56563       0.7         1219 mm (48") Metal Detectable Blade       FGB-MD3-48/1219       56564       0.8         1372 mm (54") Metal Detectable Blade       FGB-MD3-54/1372       56565       1.0		914 mm (36") Dual Durometer Blade	FGB-MDDD3-36/914	56553	0.6	
1372 mm (54") Dual Durometer Blade       FGB-MDDD3-54/1372       56556       1.0         1524 mm (60") Dual Durometer Blade       FGB-MDDD3-60/1524       56557       1.0         305 mm (12") Metal Detectable Blade       FGB-MD3-12/305       56558       0.2         457 mm (18") Metal Detectable Blade       FGB-MD3-18/457       56559       0.3         610 mm (24") Metal Detectable Blade       FGB-MD3-24/610       56560       0.4         762 mm (30") Metal Detectable Blade       FGB-MD3-30/762       56561       0.5         914 mm (36") Metal Detectable Blade       FGB-MD3-36/914       56562       0.6         1067 mm (42") Metal Detectable Blade       FGB-MD3-42/1067       56563       0.7         1219 mm (48") Metal Detectable Blade       FGB-MD3-48/1219       56564       0.8         1372 mm (54") Metal Detectable Blade       FGB-MD3-54/1372       56565       1.0		1067 mm (42") Dual Durometer Blade	FGB-MDDD3-42/1067	56554	0.7	
1524 mm (60") Dual Durometer Blade       FGB-MDDD3-60/1524       56557       1.0         305 mm (12") Metal Detectable Blade       FGB-MD3-12/305       56558       0.2         457 mm (18") Metal Detectable Blade       FGB-MD3-18/457       56559       0.3         610 mm (24") Metal Detectable Blade       FGB-MD3-24/610       56560       0.4         762 mm (30") Metal Detectable Blade       FGB-MD3-30/762       56561       0.5         914 mm (36") Metal Detectable Blade       FGB-MD3-36/914       56562       0.6         1067 mm (42") Metal Detectable Blade       FGB-MD3-42/1067       56563       0.7         1219 mm (48") Metal Detectable Blade       FGB-MD3-48/1219       56564       0.8         1372 mm (54") Metal Detectable Blade       FGB-MD3-54/1372       56565       1.0		1219 mm (48") Dual Durometer Blade	FGB-MDDD3-48/1219	56555	0.8	
305 mm (12") Metal Detectable Blade     FGB-MD3-12/305     56558     0.2       457 mm (18") Metal Detectable Blade     FGB-MD3-18/457     56559     0.3       610 mm (24") Metal Detectable Blade     FGB-MD3-24/610     56560     0.4       762 mm (30") Metal Detectable Blade     FGB-MD3-30/762     56561     0.5       914 mm (36") Metal Detectable Blade     FGB-MD3-36/914     56562     0.6       1067 mm (42") Metal Detectable Blade     FGB-MD3-42/1067     56563     0.7       1219 mm (48") Metal Detectable Blade     FGB-MD3-48/1219     56564     0.8       1372 mm (54") Metal Detectable Blade     FGB-MD3-54/1372     56565     1.0		. ,		56556		
457 mm (18") Metal Detectable Blade     FGB-MD3-18/457     56559     0.3       610 mm (24") Metal Detectable Blade     FGB-MD3-24/610     56560     0.4       762 mm (30") Metal Detectable Blade     FGB-MD3-30/762     56561     0.5       914 mm (36") Metal Detectable Blade     FGB-MD3-36/914     56562     0.6       1067 mm (42") Metal Detectable Blade     FGB-MD3-42/1067     56563     0.7       1219 mm (48") Metal Detectable Blade     FGB-MD3-48/1219     56564     0.8       1372 mm (54") Metal Detectable Blade     FGB-MD3-54/1372     56565     1.0		. ,	FGB-MDDD3-60/1524	56557		
610 mm (24") Metal Detectable Blade FGB-MD3-24/610 56560 0.4 762 mm (30") Metal Detectable Blade FGB-MD3-30/762 56561 0.5 914 mm (36") Metal Detectable Blade FGB-MD3-36/914 56562 0.6 1067 mm (42") Metal Detectable Blade FGB-MD3-42/1067 56563 0.7 1219 mm (48") Metal Detectable Blade FGB-MD3-48/1219 56564 0.8 1372 mm (54") Metal Detectable Blade FGB-MD3-54/1372 56565 1.0		305 mm (12") Metal Detectable Blade	FGB-MD3-12/305	56558	0.2	
762 mm (30") Metal Detectable Blade     FGB-MD3-30/762     56561     0.5       914 mm (36") Metal Detectable Blade     FGB-MD3-36/914     56562     0.6       1067 mm (42") Metal Detectable Blade     FGB-MD3-42/1067     56563     0.7       1219 mm (48") Metal Detectable Blade     FGB-MD3-48/1219     56564     0.8       1372 mm (54") Metal Detectable Blade     FGB-MD3-54/1372     56565     1.0		457 mm (18") Metal Detectable Blade	FGB-MD3-18/457	56559	0.3	
914 mm (36") Metal Detectable Blade     FGB-MD3-36/914     56562     0.6       1067 mm (42") Metal Detectable Blade     FGB-MD3-42/1067     56563     0.7       1219 mm (48") Metal Detectable Blade     FGB-MD3-48/1219     56564     0.8       1372 mm (54") Metal Detectable Blade     FGB-MD3-54/1372     56565     1.0		610 mm (24") Metal Detectable Blade	FGB-MD3-24/610	56560	0.4	
1067 mm (42") Metal Detectable Blade     FGB-MD3-42/1067     56563     0.7       1219 mm (48") Metal Detectable Blade     FGB-MD3-48/1219     56564     0.8       1372 mm (54") Metal Detectable Blade     FGB-MD3-54/1372     56565     1.0		762 mm (30") Metal Detectable Blade	FGB-MD3-30/762	56561	0.5	
1219 mm (48") Metal Detectable Blade       FGB-MD3-48/1219       56564       0.8         1372 mm (54") Metal Detectable Blade       FGB-MD3-54/1372       56565       1.0		914 mm (36") Metal Detectable Blade	FGB-MD3-36/914	56562	0.6	
1372 mm (54") Metal Detectable Blade   FGB-MD3-54/1372   56565   1.0						
1 7			FGB-MD3-48/1219		0.8	
1524 mm (60") Metal Detectable Blade   FGB-MD3-60/1524   56566   1.0		. ,				
		1524 mm (60") Metal Detectable Blade	FGB-MD3-60/1524	56566	1.0	

**NOTE:** Equipping an FGP with a replacement dual durometer blade will void EU 1935/2004 compliance.

### **UNITED STATES DEPARTMENT OF AGRICULTURE** MARKETING AND REGULATORY PROGRAMS AGRICULTURAL MARKETING SERVICE

# **EQUIPMENT ACCEPTANCE CERTIFICATE**

Firm:

1995 Oak Industrial Drive, North East Grand Rapids, Michigan, 49505

Belt Conveyors Model Designation: Primary Belt Cleaner with the GA 070, GA 075, GA 076 or GA077 blades

April 19, 2019

Date of Issuance

April 18, 2024 Date of Expiration

Marketing and Regulatory Programs Agricultural Marketing Services 1400 Independence Ave., SW Washington, DC 20250-0230 Dairy Grading Branch

The issuance of this form is based on U.S. Department of Agriculture, Dairy Grading Branch, Equipment Design Review Section, evaluation of the equipment listed above for compliance with: USDA Guidelines of the Sanitary Design and Fabrication of Dairy Processing Equipment. (June 2001)

This form does not limit USDA's responsibility to take appropriate action in cases in which evidence of non-compliance, improper maintenance, or non-sanitary conditions have been observed.



United States Department of Agriculture

DA-161 (09-04) Destroy previous ed



## **JUNITED STATES DEPARTMENT OF AGRICULTURE** MARKETING AND REGULATORY PROGRAMS AGRICULTURAL MARKETING SERVICE

# EQUIPMENT ACCEPTANCE CERTIFICATE

FLEXCO 1995 Oak Industrial Drive, North East

Grand Rapids, Michigan, 49505

Belt Conveyors Model Designation: Primary Belt Cleaner with the GA 070, GA 075, GA 076 or GA077 blades

Date of Issuance April 19, 2019

April 18, 2023 Date of Expiration

Marketing and Regulatory Programs **U.S.** Department of Agriculture Agricultural Marketing Services 1400 Independence Ave., SW Washington, DC 20250-0230 Dairy Grading Branch

The issuance of this form is based on U.S. Department of Agriculture, Dairy Grading Branch, Equipment Design Review Section, evaluation of the equipment listed above for compliance with: NSF/ANSI/3-A SSI-14159-3-2014 (Hygiene Requirements for the Design of Mechanical Belt Conveyors used in Meat and Poultry Processing)

This form does not limit USDA's responsibility to take appropriate action in cases in which evidence of non-compliance, improper maintenance, or non-sanitary conditions have been observed.



DA-161 (09-04) Destroy previous edit

United States Department of Agriculture

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# **BAKING INDUSTRY SANITATION STANDARDS COMMITTEE**

1213 Bakers Way, PO Box 3999, Manhattan, KS 66505-3999 866-342-4772 or 785-537-4750 bissc@bissc.org www.bissc.org

## THIRD-PARTY VERIFIED

BISSC-155 Authorization No. Flexible Steel Lacing Company dba Flexco Company: 2525 Wisconsin Ave, Downers Grove, Illinois, 60515, United States of America Address: is hereby authorized to apply the BISSC Symbol to the model(s) of equipment listed below, conforming to the ANSI/ASB/Z50.2-2015 sanitation standard, for the twelve months beginning January 1, 2020 and ending December 31, 2020.

General Principles of Design, Construction and Cleaning for All Bakery Equipment 4.7, Design Requirements for Conveyors 3.0 Standard Reference(s):

FGP: Food Grade Precleaner Model Designation:

The issuance of Authorization for the use of the BISSC Verified Symbol is based upon independent inspection that the equipment listed above complles fully with the not warrant that the holder of a verification certificate at all times complies with the provisions of the designated standard(s). This in no way affects the responsibility ANSI/ASB/Z50.2-2015 standard reference(s) specified. Legal responsibility for compilance is solely that of the holder of this Certificate of Verification, BISSC does of BISSC to take appropriate action in cases where evidence of non-compliance by the holder of a verification certificate has been established

### **Section 12 - EU Declaration of Compliance**



### **EU Declaration of Compliance Statement**

**Product:** FGP Belt pre-cleaners (white, blue and metal detectable blue versions), with UHMWPE Blades –

Assembly

56000 through 56017 56027 through 56035 56051, 56064

Blades

56531 through 56539, 56583 56540 through 56548 Blue UHMWPE White UHMWPE

56558 through 56566, 56582

Blue Metal Detectable UHMWPE

Intended applications: For use in contact with all food types, up to 60° C.

### Framework regulation (EC) No. 1935/2004: (Applicable to all food contact materials)

The above FGP belt pre-cleaners comply with the applicable requirements of Regulation (EC) no.1935/2004 on Materials and Articles intended to come into contact with food including Article 3 (General Requirements) and Article 17 (Traceability).

### Good Manufacturing Practice Regulation (EC) No. 2023/2006: (Applicable to all food contact materials)

The above products are manufactured under a quality assurance system which meets the requirements of Regulation (EC) no. 2023/2006 on Good Manufacturing Practice for materials and articles intended to come into contact with food.

### Commission regulation (EU) No.10/2011 on plastic materials intended to come into contact with food:

UHMWPE plastic blades used with the pre-cleaners are in compositional compliance with EU Regulation 10/2011 including its updates 1282/2011, 1183/2012, 202/2014, 174/2015, 2016/1416, 2017/752, 2018/79, 2018/213, 2018/831, and 2019/37. The metal detectable additive used in the blue blade is also listed. Colorants are suitable for use in food contact plastics.

When used as intended, levels of overall migration and specific migration of any substances subject to restriction will not exceed the legal limits (calculated as 6 dm² blade per 1kg of food).

This compliance statement is based on information received from material suppliers, migration testing as below undertaken according to Regulation 10/2011, migration modelling and quality control systems in place at Flexco. Supporting documents are available and can be disclosed to the competent authority on request.

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### **Section 12 - EU Declaration of Compliance (cont.)**



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Test Simulants	Food Types	Testing Condition
A (10% ethanol), B (3% acetic acid), D2 (Vegetable oil substitute isooctane) of Regulation No.10,2011 for Plastic Materials and Articles in contact with food	All dry, aqueous, acidic and fatty foods	OM5 2 hours at 100°C or equivalent

### Dual use food additives:

No migratory dual use food additives or authorised food flavourings covered respectively by Regulation (EC) No. 1333/2008 or Regulation (EC) No. 1334/2008 or their implementing measures are understood to be used in the manufacture of the belt pre-cleaners.

### **Stainless Steel Components**

In use of the belt pre-cleaner, the specific metal release limits of the Council of Europe (COE) Resolution CM/Res (2013) 9 on metals and alloys used in food contact materials will not be exceeded.

### **US FDA Compliance**

The FGP Belt Pre-cleaner has been certified by the USDA for use in meat, poultry, and dairy operations. The blade material complies with US FDA 21 CFR part 177.1520 "Olefin Polymers, Specifications 2.1 and 2.1 and is suitable for use with all types of food, all conditions of use as detailed in Tables 1 and 2 of 21 CFR Part 176.170.

This Declaration is for the product specified above. An updated statement will be provided if the information on which the declaration is based changes or regulatory requirements impact on its validity.

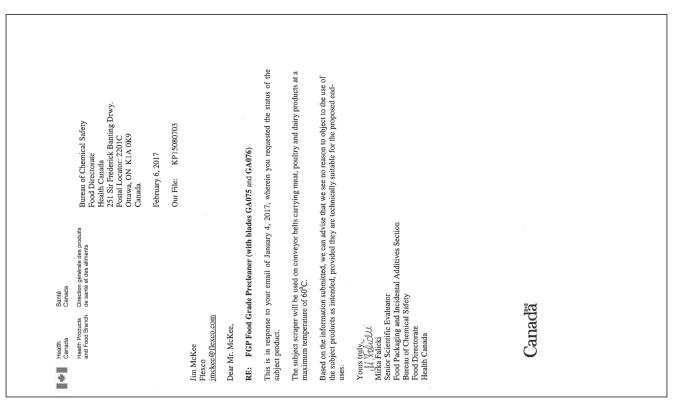
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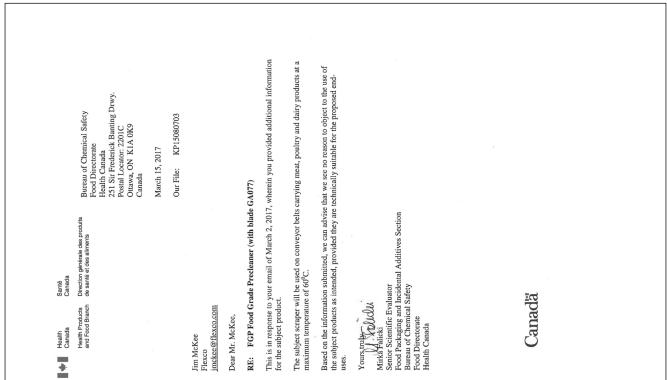
07/05/2019

Doug Sanders, Director of North American Operations—Flexco Grand Rapids

Note: Units equipped with the dual durometer blade are not compliant with EU 1935/2004.

### Section 13 - Health Canada/Santé Canada





Note: Units equipped with the dual durometer blade are not compliant with Health Canada.



