

Indexer Preventive Maintenance

♦ A WARNING A

- Before attempting any maintenance on this equipment all involved personnel should follow plant internal regulations along with any state, federal, or province regulations.
- The maintenance inspection, checks, and procedures listed in the preventive maintenance tables are assumed with the gated area electrically locked out.
- Before attempting any maintenance or service operation, make sure that:
 - You do not begin any repair procedure until the proper shutdown procedures and the appropriate power lockout procedures have been applied.
 - o The system is de-energized; main electrical switches are open.

(i) NOTICE (i)

The maintenance inspection, checks, and procedures listed in the preventive maintenance tables and corrective procedures should be performed when the equipment is immobilized and locked out.

This section contains preventive maintenance schedules with recommended lubrication intervals. Assemblies in this section include:

Indexer

Daily Checks

Observe

- Obvious signs of damage to the equipment. Listen to the conveyors an unusual sound like screeching, grinding, or whining, are indicators of a problem.
- Damage or noticeable wear on the carrying and guide rollers.
- Signs of oil leaks on the equipment or on the floor below any gearbox.

Evaluate

• If you notice any of the above issues, evaluate the cause and the risk involved.

Act

Schedule or perform necessary maintenance repairs as appropriate.



Mechanical Preventive Maintenance - key

Preventive Maintenance tables consists of:

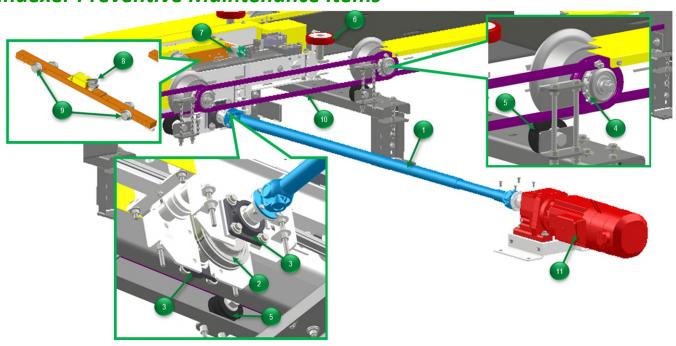


beck mounting hardware, check paint marks...

- A. Indicates the callout number associated on the schematic drawing, image or figure.
- B. Component name within the assembly.
- C. Required preventive maintenance operation i.e., inspection or lubrication.
- D. Detailed description of the operation(s) to be performed.
- E. Recommended frequency of PM task.



Indexer Preventive Maintenance Items

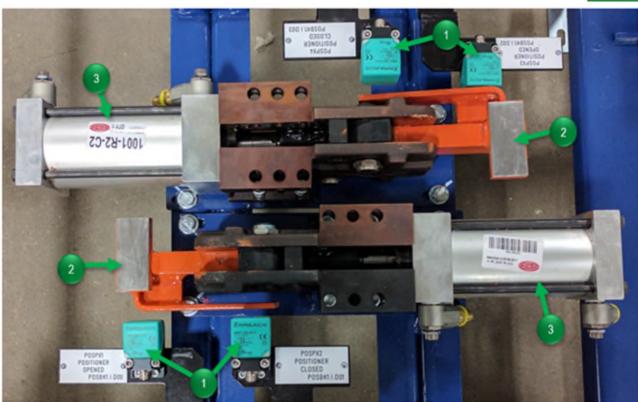


Item No.	Item Name	Required Operation	Description	Interval	
1	Cardan Shaft	Inspection	 Inspect all connections and make sure they are secure, check all paint marks. Retighten as necessary. 		
			Inspect shaft and flanges for any cracks or damage, replace if damage is found.	2 Mantha	
		Lubricate	Use a grease gun to apply grease, carefully pump grease into the zerk fitting.	3 Months	
			Coupling is fully lubricated when you see grease leak from all four seals. Clean off all excess grease.		
2	Drive Sprocket	Inspection	Observe for smooth operation.Check for broken or damaged teeth.		
3	Flange Bearing	Inspection	 Check mounting hardware for proper tightness. Look for paint mark alignment on hardware – retighten if necessary. Check for housing damage. 	6 Months	
		Lubrication	Grease directly with grease gun, or manifold if present, to apply plant approved grease, carefully pump grease into the zerk fitting. Clean off all excess grease.		



				AUTOMATION	
Item No.	Item Name	Required Operation	Description	Interval	
4	Chain Sprocket	Inspection	Observe for smooth operation.Check for broken or damaged teeth.		
5	Chain Idler	Inspection	 Check for sufficient tension on chain. Tighten if necessary. Observe for smooth operation. 		
6	Guide Roller	Inspection	 Check for excessive wear. Replace roller when bearing noise is detected. If the guide roller bolt is loose, tighten it. 		
7	Proximity Switch	Inspection	 Check for proper operation and secure mounting. Check that cables are connected securely. 		
8	Hold-Back Dog	Inspection	Check for excessive wear. Relace as necessary.		
9	Cam Follower	Inspection	Check for excessive wear. Relace as necessary.		
10	Chain	Inspection	 Index the table. Check that chains run freely and without excessive noise. Check for stretched links. 		
11	Gearmotor	Inspection	 Use the oil sight glass or remove the oil level plug to check the level of oil. Check that all electrical connections are secure. If loose, tighten. Check the electrical connections for evidence of arcing. If evidence of arcing has occurred, replace the damage connection. 		
		Lubrication	Replace the oil in the gearbox after 3 years of use.	36 Months	





Item No.	Item Name	Required Operation	Description	Interval
1	Prox Switch	Inspection	 Check for proper operation and secure mounting. Check that cables are connected securely. 	6 Months
2	Clamp	Inspection	Check for leaks, smooth operation.	
3	Cylinder	Inspection	Check for excessive free play noise or binding	



Lubrication Requirements - Gearmotor Oil Lubrication

Gearmotor oil can be determined by reading the attached data plates on each gearmotor. The examples below highlight the location to observe the required oil on the data plates. Do not mix oil grades when adding oil. Refer to the manufacturer's instruction manual for additional service requirements and technical data.

(i) NOTICE (i)

If you are doing a lubricant drain and refill, gearmotor manufacturers typically recommend that you use the same brand of lubricant originally supplied. If you are refilling the gearbox with a non-compatible lubricant, FATA recommends that you first remove any residual with a petroleum solvent or a hot water wash.

△ CAUTION △

Do not use trichloroethylene as a washing solvent.

Data plates on the gearmotors identify the oil type and quantity that they use.





AGearmotor Data Plate Examples



Lubrication Requirements - Bearing Grease

The table below lists the plant approved lubricants to use in conveyor components that need lubrication.

Plant Approved Lubrication Chart

Lubrication Name	Manufacturer	Conveyor Asset	Application Points		
See complete manual for plant approved lubricants.					

Re-Lubrication Best Practices:

- Always clean the grease fitting of all dirt before attaching the grease gun. Failure to clean the grease fitting
 before applying grease could result in introducing contaminants into the component resulting in increased
 wear or clogging the grease fitting orifice so as not to allow the entry of grease. Inspect and replace
 damaged fittings. It is helpful to use grease-fitting caps to keep them clean, but still wipe fittings clean
 before applying grease.
- Always make sure the dispensing nozzle of the grease gun is clean before using. Pump a small amount of
 grease out of the dispensing nozzle, then wipe the nozzle off with a clean rag or lint-free cloth before
 attaching it to the grease fitting.
- Do NOT over lubricate or apply excessive amounts of grease. This could lead to ruptured seals and
 excessive grease outside the fitting, which can attract contamination as well as create a mess on the
 machine.
- Know that some greases are not compatible with each other. Ensure that the proper grease is used at
 every grease point. Applying the wrong grease can cause an incompatibility problem which can quickly
 cause bearing failure.
- Once relubrication service is complete, clean off old grease and contaminants from the boot, grease/zerk fitting and surrounding components.