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HydraFiber®
ADVANCED SUBSTRATE

HydraFiber® Expander Preventative Maintenance Schedule and Quick Guide

AGRINOMIX®

MACHINE TOOLS FOR GROWERS

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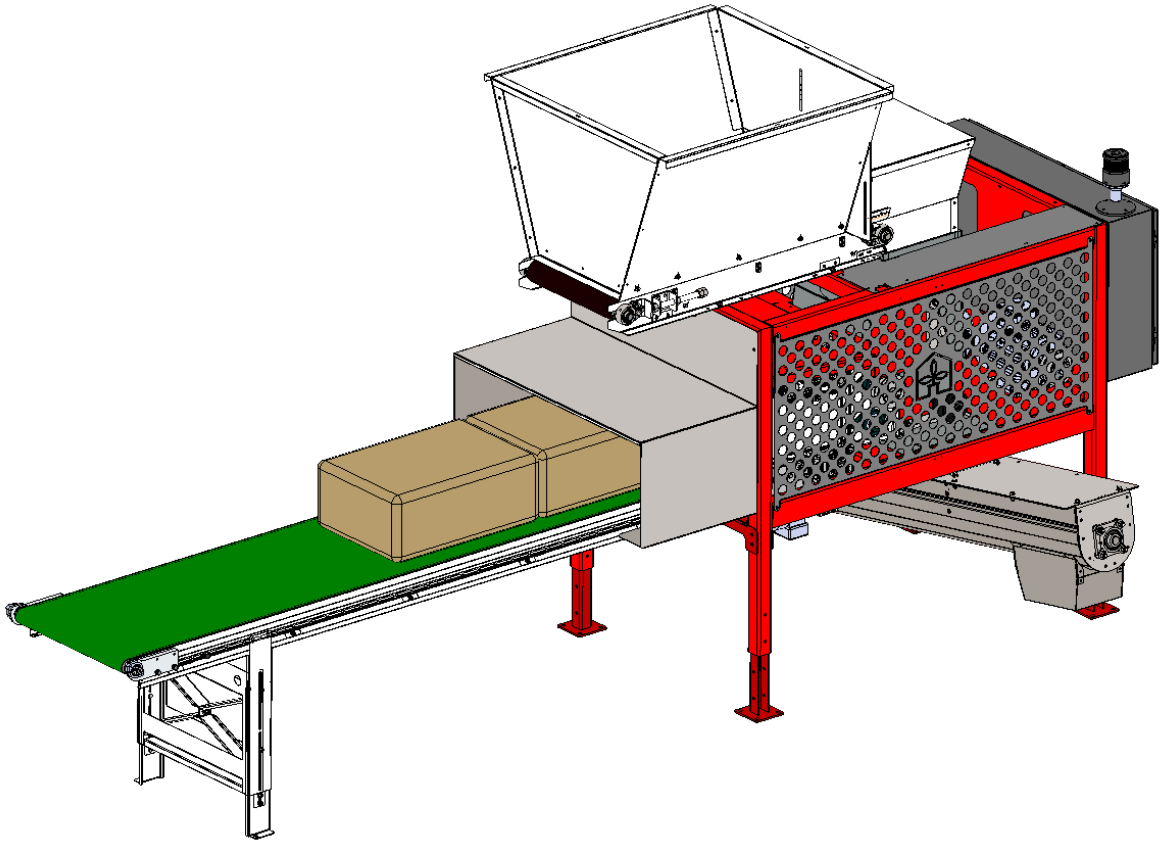
HydraFiber™ Expander



Preventative Maintenance Schedule and Quick Guide

Preventative Maintenance Schedule and Quick Guide

To maintain reliability, proper performance, and overall efficiency, it is strongly advised to do regular preventative maintenance. Please follow this guide and consider these procedures a necessary part of machine operation. Both frequency and procedures are described below.

⚠ **All maintenance must be performed by qualified personnel with proper training. Follow electrical lockout/tagout procedures before initiating maintenance. Rollers utilize very sharp teeth. Carelessness during inspection can cause serious injury! Ensure all tools and parts are clear of belts, conveyors, and any moving parts before start-up.**

Weekly Maintenance Procedures (refer to Figures A and B below):

- ☐ Grease all shafts and tensioner bearings using "HI-TEMP" grease (500°F min.), 1-2 pumps recommended.
- ☐ Inspect panel and chute seals for cracks, gaps, or damage.
- ☐ Inspect all drive belts for proper alignment, tensioning, and wear. Belt tension should be set to ½" deflection at 3 lbs.
- ☐ Utilizing an air gun, clean material and dust from behind guarded areas, specific to pulleys, belts, chains, and sprockets.
- ☐ Inspect shredder chamber and mixing auger for excessive soil packing and build-up. Remove material if necessary.
- ☐ Inspect peat hopper for excessive soil build-up. Remove soil, if necessary.

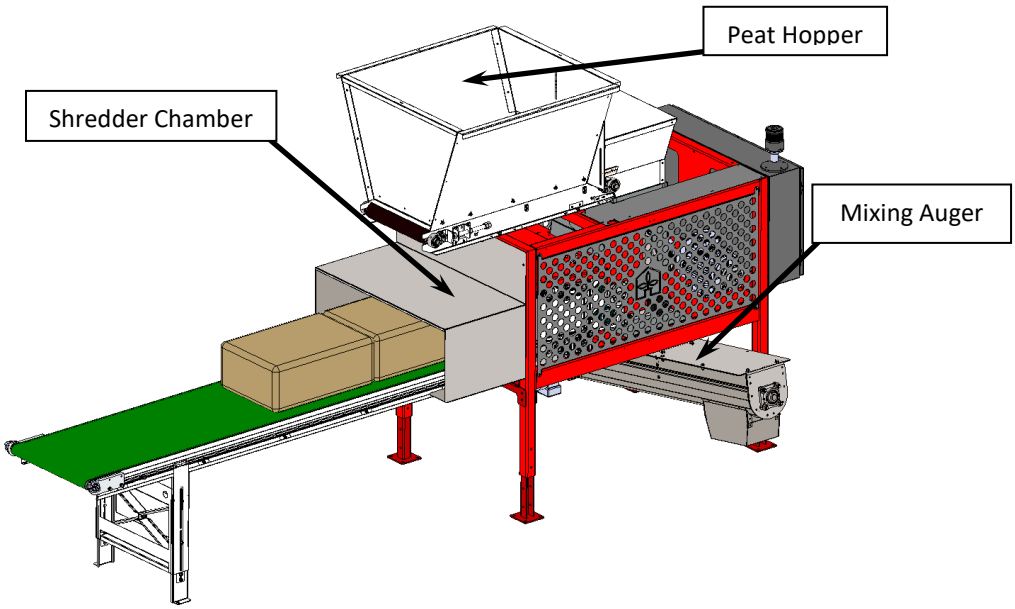


Figure A. Right side of machine

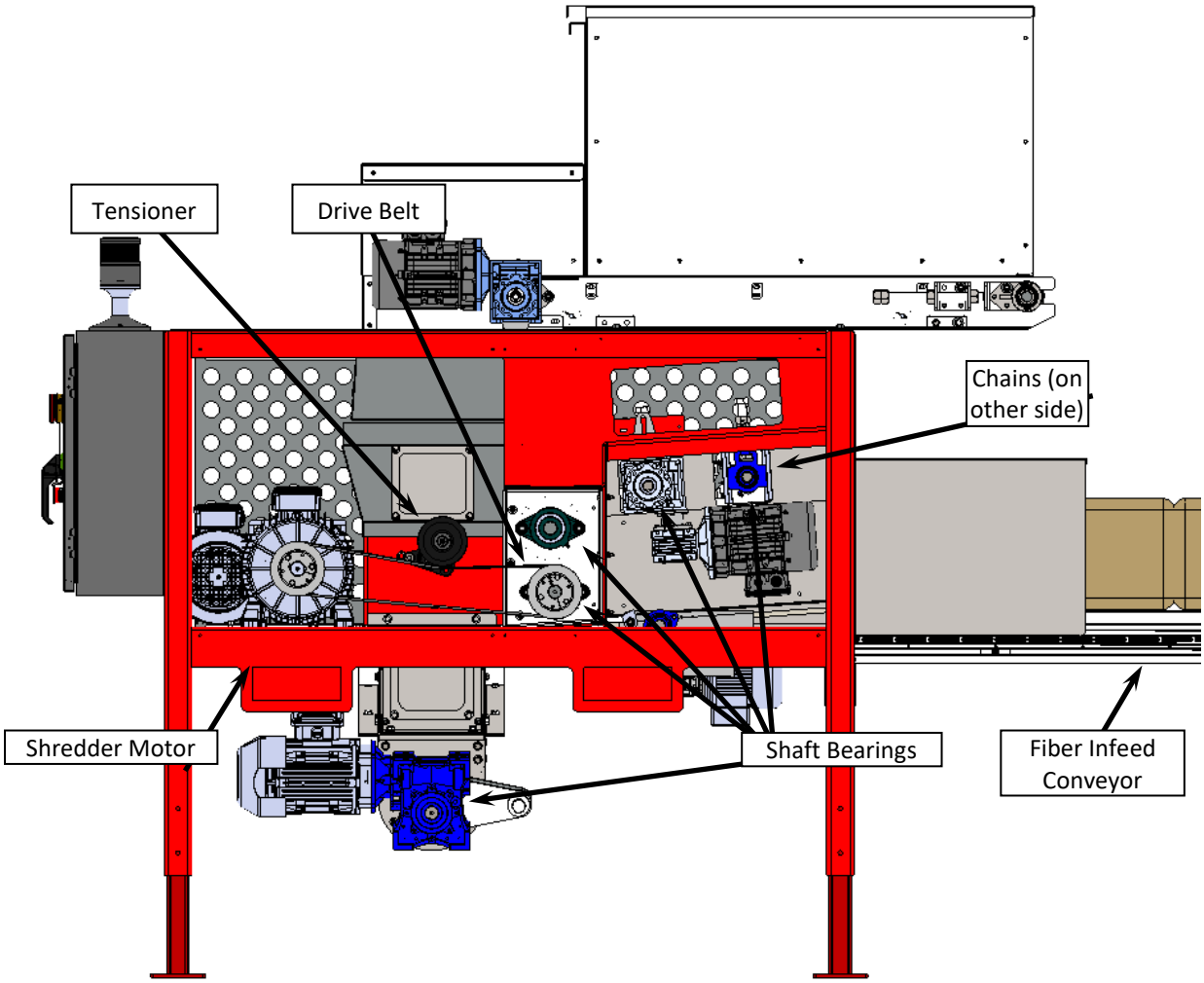


Figure B. Left side of machine (right side similar)

Monthly Maintenance Procedures:

- ☐ Inspect chains and sprockets on the in-feed pinch roller assemblies for proper alignment, tensioning, and wear.
- ☐ Inspect infeed conveyor for proper tension and tracking.
- ☐ Inspect condition of tensioner pulleys and tensioner bearings.
- ☐ Check and tighten shredder shaft bearing mounting bolts; 75 ft/lbs recommended.
- ☐ Check shaft bearing set-screws and tensioner collar set-screws, 80 in/lbs recommended.

- ☐ Check and tighten sheave and sprocket QD bushings. The final torque of the $^{7}/_{16}$" head hardware is 108 in/lbs.
- ☐ Inspect the overall structural condition and proper mounting of ALL guards, including hinges, hardware, and fasteners. Look for damage- including holes, punctures, openings, or cracks. Ensure that ALL of the guards are safe and will prohibit injury.
- ☐ Inspect all sensors for proper mounting and proper operation.
- ☐ Utilizing an air gun, clean inside the electrical panel, disconnects, and junction boxes.
- ☐ Switch power ON and test E-Stop(s) for proper operation.

Annual Maintenance Procedures:

- ☐ Grease shredder motor bearings (see page 5 for condition-specific intervals).
- ☐ Inspect the shredder rollers for excessive wear to teeth.
- ☐ Inspect the shredder rollers for damage to teeth and cylinders.
- ☐ Check and tighten upper and lower shredder motor mounting bolts; 25 ft/lbs recommended.

This guide is specific to the basic shredder machine only. Preventative maintenance procedures and schedule may vary for ancillary equipment. Refer to applicable documentation accordingly.

Lubrication Instructions For Ball Bearing Motors

Lubrication
This motor is supplied with pre-lubrication ball bearings. No lubrication required before start up.

Relubrication Intervals
The following intervals are suggested as a guide:

SUGGESTED RELUBRICATION INTERVALS		
HOURS OF SERVICE PER YEAR	H.P. RANGE	RELUBE INTERVAL
5,000	Sub Fractional to 7 1/2 10 to 40 50-200	5 Years 3 Years 1 Year
Continuous Normal Applications	Sub Fractional to 7 1/2 10 to 40 50 to 200	2 Years 1 Year 9 Months
Season Service Motor Idle 6 Months or More	All	1 Year (Beginning of Season)
Continuous High Ambients Dirty or Moist Locations High Vibrations Where Shaft End is Hot (Pumps-Fans)	Sub Fractional to 40 50 to 200	6 Months 3 Months

Lubrication

Use high quality ball bearing lubricant. Use consistency of lubricant suitable for class of insulation stamped on nameplate as follows:

LUBRICATION CONSISTENCY				
INSULATION CLASS	CONSISTENCY	TYPE	TYPICAL LUBRICATION	FRAME TYPE
B & F F & H	Medium	Polyurea	Shell Dolium R and/or Chevron SR1 2	Sub Fractional to 447T All

Procedure

If motor is equipped with Alemite fitting, clean tip of fitting and apply grease gun. Use 1 to 2 full strokes on motors in NEMA 215T frame and smaller. Use 2 to 3 strokes on NEMA 254T thru NEMA 365 T frame. Use 3 to 4 strokes on NEMA 404T frames and larger. On motors having drain plugs, remove drain plug and operate motor for 20 minutes before replacing drain plug.

On motors equipped with slotted head grease screw, remove screw and apply grease tube to hole. Insert 2 to 3 inch length of grease string into each hole on motors in NEMA 215T frame and smaller. Insert 3 to 5 inch length on larger motors. For motors having drain plug and operate motor for 20 minutes before replacing drain plug.

CAUTION: Keep lubricant clean. Lubricate motors at standstill. remove and replace drain plugs at standstill. Do not mix petroleum lubricant and silicone lubricant in motor bearings.

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