

	Specifications	A-1922
	Model ESR Feeder Procedure For Maintaining Feeders	Rev. 0 04 / 03

INSPECTION AND TESTING

LOCK IT OUT BEFORE ENTERING

WEEKLY

1. (A) INSPECT, SHARPEN IF NECESSARY & ADJUST TOP KNIFE TO CORRECT CLEARANCE.
2. (D) LUBE PACKING GLANDS. ADJ. AS REQ'D. DON'T OVER TIGHTEN.
3. CLEAN OUT ROTOR POCKETS OF PITCH & RESINS.
4. INSPECT ROTOR TIPS FOR SHARPNESS.
5. LUBE DRIVE CHAIN WITH LIGHT OIL AS REQ'D (NOT SHOWN)

MONTHLY

1. LUBE BEARINGS.
2. (C) CHECK SEAL RINGS AND RESET TO CORRECT CLEARANCE.

QUARTERLY

1. (E) INSPECT, ROTATE AS NECESSARY & ADJUST BOTTOM KNIFE TO CORRECT CLEARANCE.
2. INSPECT CONDITION OF CHROME PLATING ON HOUSING.
WHEN CHROME PLATING IS DAMAGED OR WEARS THRU, FEEDER SHOULD BE REMOVED FROM SERVICE FOR REBUILDING . EROSION OF AREAS UNPROTECTED BY CHROME IS EXTREMELY RAPID.
3. (B) CHECK CLEARANCE BETWEEN ROTOR BLADES AND HOUSING.
WHEN PROPER CLEARANCE IS EXCEEDED, ROTOR MUST BE BUILT WITH HARDFACING AND GROUND TO PROPER CLEARANCES LISTED ON TABLE BELOW.

CLEARANCES (TOLERANCE 20% OF NORMAL)		
ROTOR DIA.	NEW / REBUILT (NORMAL)	MAX. CLEAR.
15"	.010	.030
20"	.012	.035
25"	.014	.045
30"	.016	.050
35"	.018	.060
40"	.020	.065
45"	.020	.065
50"	.022	.065
55"	.024	.065
60"	.026	.065

4. (D) REPACK SHAFT GLANDS WITH P.T.F.E. PACKING OR GRAPHITE MATERIAL
5. PERIODIC FLUSHING OF ROTOR POCKETS MAY BE NECESSARY TO REMOVE PITCH BUILD UP (WHICH DECREASES FEEDER DISPLACEMENT)
USE WATER OR SOLVENT
6. CHECK, ADJUST BELT & CHAIN DRIVES

C - SEALING RING SETTING INSTRUCTIONS

1. CLEAN OUT MATERIAL BUILD UP IN THE GAP BEHIND THE END BELLS SO WOOD FIBERS IS NOT CAUGHT BETWEEN ROTOR AND BRASS WHEN ADJUSTING.
2. (C) ADJUST THE BRASS END SEALING RINGS BY ADJUSTING THE (3) SET SCREWS IN EACH END BELL REQUIRING .002" TO .004" CLEARANCE BETWEEN THE SEALING RING AND THE ROTOR.
EXCESSIVE CLEARANCE WILL CAUSE BLOW-BY AND DRAW MATERIAL INTO THE GAP, BUILDING UP AND DRAWING EXCESS AMPERAGE ON THE FEEDER MOTOR.
INSUFFICIENT CLEARANCE COULD CAUSE FRICTIONAL LOAD ON THE FEEDER, CREATE HEAT AND A POTENTIAL FIRE HAZARD.