POWER FEED INSTALLATION Model M-2150 Cross Feed



Enterprise, Holke, Marena 10

REFERENCE DRAWINGS ENCLOSED

Bevel Gear Installation
Power Feed Installation
Type 150 Servo Power Feed
Type 140 Servo Power Feed
Servo Power Feed Operation

PREPARATION

- Step 1: Gather together the following items that you will need to complete this installation.
 - a) 3/8" electric hand drill
 - b) 1/8" drill, #7 drill
 - c) 1/4-20 tap
 - d) 9/32" transfer punch
 - e) flat file
 - f) 3/4" socket wrench
 - g) set of inch hex wrenches
 - h) grease
 - i) clean shop rag
- Step 2: Remove the nut, handwheel, dial, dial hub and key from the lead screw.
- **Step 3**: Place the bearing race into the adaptor.
- **Step 4**: Slide the adaptor and bearing race onto the lead screw.
- Step 5: Transfer the three counterbored hole locations to the bearing bracket.
- Step 6: Remove the adaptor and bearing race from the mill. Drill and tap 1/4-20 x 3/8" minimum depth three places.
- Step 7: Attach the adaptor to the mill using the 1/4-20 x 1-1/2" long cap screws provided.

POWER FEED INSTALLATION

- *Step 1:* Screw the shaft extension onto the lead screw and tighten.
- Step 2: Using the hole provided as a pilot, drill 1/8" diameter through and pin in place using the 1/8" x 5/8" long roll pin. File smooth.
- Step 3: Slide the spacer and bearing race onto the lead screw.

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Step 4: Slide the Power Feed over the bearing race and secure to the adaptor using two 1/4-20 x 1-1/2" long cap screws provided.

BEVEL GEAR INSTALLATION

Step 1: Follow the drawing NA-5444 for installation of the bevel gear. Adjust for proper gear backlash.

DIAL AND HANDWHEEL INSTALLATION

- Step 1: After getting the proper gear backlash, the dial should be adjusted to obtain .005" spacing from the face of the power feed. This is important in order to keep chips from entering the gear train. Three plastic (.030" thick) and five brass (.005" thick) washers are provided for this. Shim as required.
- Step 2: In the following sequence, put on the dial locking nut and place the 5 mm key in the shaft extension. Slide the handcrank onto the shaft extension and secure using washer and locking nut provided.

LIMIT SWITCH INSTALLATION

Install the limit switch as shown on the installation drawing.

OPERATION

See separate Servo Power Feed Operation sheet. Plug the unit into a source of 120 volt, 50 or 60 cycle power.

WARNINGS

Check hand crank clearances before operation.

Clearances between the surfaces of the hand crank and the non-moving parts of the equipment on which the hand crank is installed must be at least one-fourth inch (1/4") to prevent injury. Modification of existing hand crank or replacement may be required.

Do not operate without proper clearance!

Prevent contact during fast traverses.

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