# POWER FEED INSTALLATION Model M-9519 Cross Feed Atrump Mill



#### REFERENCE DRAWINGS ENCLOSED

A-5444	Bevel Gear Installation
ND-6293	Type 150 Servo Drive
ND-6292	Type 140 Servo Drive
NB-57657	Limit Switch Installation
NB-57654	Power Feed Installation
0800-80001	Servo Power Feed Operation

#### **PREPARATION**

- Step 1: Move saddle to front of mill.
- Step 2: Remove the nut, handle dial assembly and key from lead screw. Save key for installation later.
- *Step 3:* Screw shaft extension onto lead screw.
- Step 4: Slide bevel gear onto lead screw to ensure proper fit.
- Step 5: Remove bevel gear and drill 1/8 diameter hole using the hole provided as a pilot.
- Step 6: Pin shaft extension to lead screw with the 1/8 diameter x 5/8 long roll pin. File smooth.

## **DRIVE UNIT INSTALLATION**

- *Step 1:* Slide the adaptor onto lead screw (counterbore facing outside).
- **Step 2**: Slide bearing race onto lead screw and into adaptor for proper alignment of the adaptor.
- Step 3: Using transfer punch, transfer three mounting holes onto bearing retainer and tap 1/4-20 through.
- *Step 4*: Secure adaptor to the bearing retainer using 1/4-20 x 3/4 socket head cap screws.
- Step 5: Remove bearing race.
- Step 6: Slide spacer and bearing race onto lead crew.
- *Step 7:* Slide the power feed onto bearing race and secure to the adaptor using  $1/4-20 \times 1.00$ " long socket head cap screws.

#### **BEVEL GEAR INSTALLATION**

See Drawing A-5444, enclosed. For the bevel gear installation, use the 3 mm parallel key you saved before.

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#### DIAL AND HANDCRANK INSTALLATION

- Step 1: After getting the proper backlash, the dial should be adjusted to obtain .005 spacing from the face of the mill table feed. This is important in order to keep chips from entering the gear train. Four washers are provided for this, two solid and two laminated. Shim as required.
- Step 2: Put on dial locking nut.
- Step 3: Slide handcrank onto end of shaft extension and tighten with 1/2-20 locking nut.

#### LIMIT SWITCH INSTALLATION

See Drawing #NB-57657.

#### **OPERATION**

See separate Servo Power Feed Operation sheet. Unit will operate on either 50 or 60 cycles.

### **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.

#### SERVO PRODUCTS COMPANY

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