# POWER FEED INSTALLATION Model M-3950 Cross Feed



## Kondia SM2, FV-300, Lepac and others

#### REFERENCE DRAWINGS ENCLOSED

NA-5444	<b>Bevel Gear Installation</b>
NB-5514	<b>Power Feed Installation</b>
ND-1481	Safety Handle Model 620
ND-6293	Type 150 Servo Drive
ND-6292	Type 140 Servo Drive
0800-80001	Servo Power Feed Operation

0800-80001 Servo Power Feed Operation

#### **PREPARATION**

Step 1: Remove the nut, handwheel, dial, dial hub, key and M6 screws from the bearing retainer.

#### **POWER FEED INSTALLATION**

- Step 1: Slide the alignment sleeve onto the shaft.
- Step 2: Slide the adaptor onto the alignment sleeve and secure to the bearing retainer using four M6 x 30 mm. Remove the alignment sleeve.
- Step 3: Slide the bearing race spacer onto the lead screw, followed by the bearing race.
- Step 4: Mount the power feed to the adaptor using two 1/4-20 x 1" long socket head cap screws.
- Step 5: Screw the shaft extension onto the lead screw and tighten.
- Step 6: Drill 1/8 diameter hole through the shaft extension and lead screw. Install the 1/8 x 5/8 roll pin. File smooth.

#### **BEVEL GEAR INSTALLATION**

- Step 1: Install the 6 x 6 mm x 20 mm square key and slide the bevel gear in place.
- Step 2: Follow drawing NA-5444 for installation of the bevel gear. Adjust for proper gear backlash.

#### **DIAL INSTALLATION**

- Step 1: After getting the proper 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. Four washers are provided for this, two solid and two laminated. Shim as required.
- Step 2: Put on the dial locking nut.

#### SAFETY HANDLE INSTALLATION

- Step 1: Install the key in the shaft extension.
- Step 2: Follow drawing ND-1481 for the installation of the safety handle kit.
  - IF: If the Kondia mill SM2 is supplied without the M-620 safety handle, install a balanced crank handle using the 6 mm x 7.5 mm woodruff key (03407).

#### LIMIT SWITCH INSTALLATION

Step 1: Install the limit switch as shown on drawing ND-5514.

#### **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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