POWER FEED INSTALLATION Model M-5580 Knee Feed Kent 2S



REFERENCE DRAWINGS ENCLOSED

NA-5444	Bevel Gear Installation
NB-6841	Power Feed Installation
NC-0792	Limit Switch Installation
ND-6292	Type 140 Servo Drive
0800-80001	Servo Power Feed Operation

PREPARATION

- Step 1: Remove the drive clutch, dial, and nut from the elevating jack shaft.
- Step 2: Remove the bearing retainer.
- Step 3: Pull the jack shaft out of the knee. *Hold inboard end up* while removing to avoid damage to the pinion gear.
- Step 4: Remove the dial holder and press the bearing off the jack shaft.
- Step 5: Drill and ream the end of the jack shaft .4375 diameter by 13/16 deep. The hole must be concentric to shaft o.d. within .002 TIR. Chamfer 1/32 x 1/2 diameter. For best results, machining should be done in a lathe.
- *Step 6*: Place the shaft extension onto the jack shaft. Drill 1/8 diameter through the shaft and pin the extension with 1/8 x 5/8" long roll pin. File smooth.
- *Step 7:* Reassemble the bearing to the jack shaft.
- *Step 8:* Replace the jack shaft in the machine.
- Step 9: Replace the bearing retainer in the machine and tighten the screws.

POWER FEED INSTALLATION

- Step 1: Slide the spacer #6843 onto the jack shaft.
- Step 2: Slide the bearing race #6647 onto the jack shaft.
- Step 3: Slide the feed unit over the bearing race and against the bearing retainer of the mill. Spot the mounting holes in the bearing retainer.
- Step 4: Remove the bearing retainer from the machine.
- Step 5: Drill and tap 1/4-20 thread through the bearing retainer at the spotted hole locations.
- Step 6: Replace the bearing retainer in the machine and tighten the screws.
- Step 7: With the spacer and bearing race in place, slide on the power feed.
- Step 8: Secure the feed with 1/4-20 x 1" long socket screws provided.

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BEVEL GEAR INSTALLATION

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

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 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: In the following sequence, put on the dial locking nut, place the key in the shaft, slide the handcrank onto the end of the shaft extension and tighten with the 1/2-20 locking nut.

LIMIT SWITCH INSTALLATION

Step 1: See the limit switch installation drawing NC-0792 enclosed.

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.

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