



## PARTS LISTS

Assembled millers are complete and ready for use with parts shown, excepting noted items and optional equipment.

- A. **BODY** houses all operating parts of miller. The OD of the body is ground to permit a sliding fit in a specific bore diameter.
- B. **DRIVING SPINDLE** transmits power from the drill press to milling cutter, through the driving pins located in the end of the spindle. **NEVER OPERATE DRIVING SPINDLE IN REVERSE. DO NOT OPERATE MILLERS BACKWARDS.**
- C. **DRIVING PINS** are press fitted into end of spindle. When spindle is turning, each pin contacts and drives one cutter tooth in turn.
- D. **MILLING CUTTER** ground to specific width and diameter to mill a predetermined size keyslot or oil groove. The number of teeth in cutter depends upon size and number of pins in spindle.
- E. **THRUST COLLAR**, fitted and hardened, located under flange of spindle in head of assembled miller. Collar adjusts height of spindle in body so that driving pins properly engage the teeth of the cutter being used. A separate collar is required for each **DIFFERENT** size cutter used in any specific miller.
- F. **BRASS NUT** holds spindle in assembled miller body head.
- G. **GUIDE KEY (1)** The width of the guide key corresponds to the width of the cutter being used and follows cutter into milled slot assuring straight milled slots. A separate guide is required for each **DIFFERENT** width cutter used in specific miller.
- H. **GUIDE KEY SCREWS** are used to hold guide on miller body.
- I. **STUD** Cutter axel. (Part on which cutter revolves).
- J. **STOP ROD** rides drill press column or vertical support to prevent Miller from rotating while in operation. **DO NOT HAND HOLD.**
- K. **BUSHING SCREW (2)(3)** is located in rear of miller body. When miller is used with bushing, this screw is backed out and holds bushing in correct position on body.
- L. **SPANNER WRENCH** is used to remove brass nut from miller body.
- M. **SET SCREW** together with a brass plug, not shown, locks brass nut in place in assembled miller.
- N. **OIL CUP** is located on miller body head. Keep miller oiled when in use. Do not operate spindle dry.

### OPTIONAL EQUIPMENT

- O. **ECCENTRIC BUSHINGS** increase the bore range of a specific miller. See page eight for additional information. Bushings are priced separately.
- P. **MORSE TAPER SHANK** Sizes 1 thru 6 are available and can be fitted to miller spindle shank, if required, priced additional.

### NOTES:

- (1) Guide Keys are not stock items on O-BS or O-AS Keyseating Millers. Oilgrooving Millers are not furnished with guide keys. Keyseating Millers are not furnished with guide keys when cutter width is less than  $\frac{1}{8}$ ". The O-S stock size Miller will not be furnished with a guide key when a  $\frac{3}{32}$ " stock cutter is ordered.
- (2) Bushing Screws are not furnished with O-BS or O-AS Millers.
- (3) Special Miller Bodies are usually not furnished with bushing screws.