

## Rare Earth Magnets

### Supplies Needed

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- Faceplate
- Glue (Thick CA or Epoxy)
- Sandpaper/Finish
- Drill or Drill Press
- Eye and Ear Protection
- Waste Block
- Magnet
- Blank
- Drill Bit (to fit magnet)

### Drilling the Pen Blank

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1. Mark the center of the blank and drill a hole to the same diameter and depth of the magnet.

### Making a Drive Tenon

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1. Mount a 2" thick waste block onto a faceplate or chuck.  
Turn a tenon and shoulder on the waste block to match the magnet (see drawing). The tenon will center the blank and the shoulder will drive the blank. Apply double-faced tape to the shoulder to hold the blank in place while turning.

### Turning

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1. Press the blank onto the tenon. Position the revolving center against the blank to support it while turning.
2. Turn to shape.
3. Remove the revolving center to finish the end of the blank, then sand and finish the blank.

### Assembly

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1. Remove the finished blank from the lathe and glue the magnet into the blank to complete the turned magnet.

