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# Pentel™ Pencil



For use with the following:

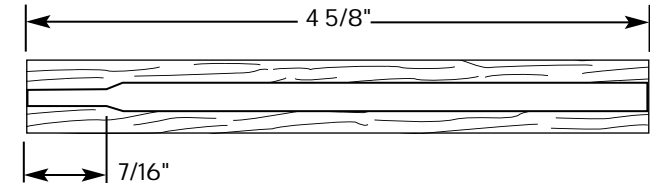
224-1500, 224-1700

**Blank Size and Cutting:** Select a blank free of defects that is approximately 3/4" x 3/4" x 4 5/8" long.

**Drilling:** Mark the center of the blank and use the required step drill to drill a stepped hole in the blank. A step drill is required to make the stepped hole which holds the pencil transmission in place.

**Making a Drive Tenon:** Mount a piece of 2" thick hard maple onto a faceplate or chuck with the grain running with the axis of the lathe. Turn the waste block into a cylinder and taper the end down to just less than 3/4" in diameter. Turn a 5/32" tenon by 1/2" long. (see drawing 2). The tenon will center the blank and the shoulder will drive the blank.

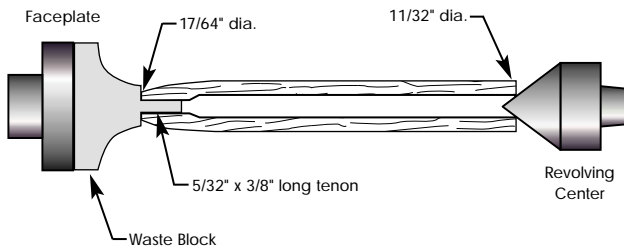
**Mounting the Blank:** Place the small hole in the blank onto the wood drive tenon and set a revolving cone center into the large hole of the blank. Use only light pressure with the revolving center to avoid splitting the blank.



## 2 Turning the Pencil

**Note:**  
 Use a light touch while turning the pencil into the desired shape to prevent splitting the barrel.

**Turning:**  
 When shaping the wood keep in mind the minimum diameter (see drawing) of each end of the pencil. Once you have finished shaping the pencil barrel the ends need to be cleaned up. With the point of a skew trim the top (tailstock end) of the blank. Next trim 3/16" off of the tip (headstock end) of the blank. After each trimming remember to advance the tailstock in order to keep the blank spinning. Sand and finish the blank to complete the pencil barrel. (Optional: Turn a groove into the blank to accept the clip.)



## 3 Assembling the Pencil

**Before Assembly:**  
 Read the assembly instructions completely. Layout the pen parts according to the drawing. This will help familiarize yourself with the parts and how they will go together.

- Assembly:**
1. Disassemble the Pentel™ Pencil by unscrewing the tip and sliding the transmission out of the plastic tube.
  2. Slide the transmission into the newly turned blank.
  3. Screw the tip onto the end of the pencil transmission
  4. Remove the clip from the plastic tube and place it onto the newly turned blank.

