

MAGNIFYING GLASS NECKLACE CHARM KIT

Kit Features:

- Fancy and convenient accessory for crafting and sewing.
- Can be used with included string or a necklace of your choice.
- Easy to Turn with Straight Tubes
- Minimal Parts--easy to assemble
- Available in multiple finishes
- Overall Length: 3-13/16" (plus necklace)

Required Accessories:

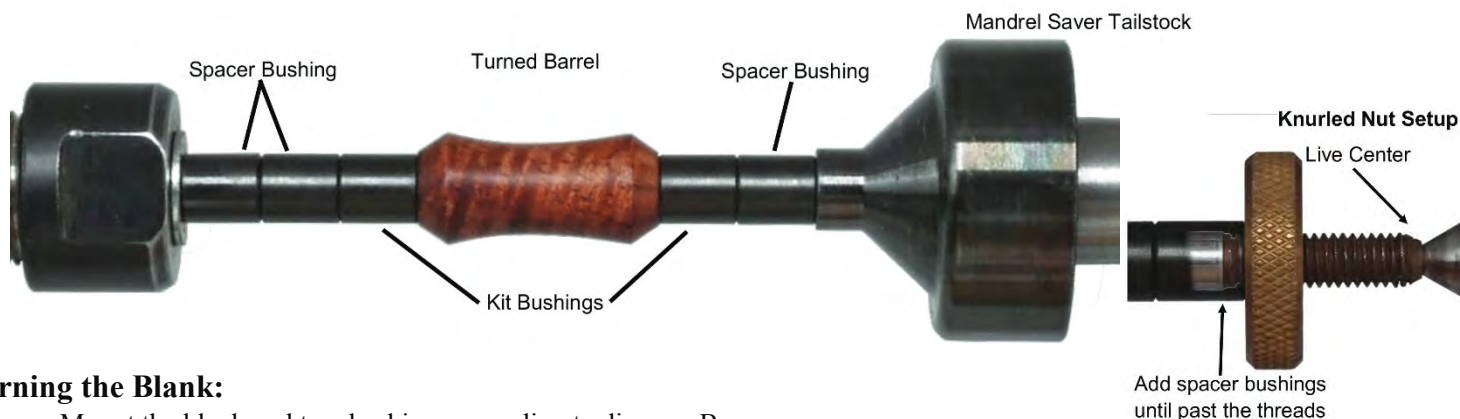
- 7mm Pen Mandrel
- Drill Bit: #PK-7MM for Wood, #PK-7MMSG for Plastic
- Bushing Set(3 pc): #PKM-BUSH3
- Barrel Trimming: # PKTRIM7 or squaring jig with disc sander
- Live Tailstock or Mandrel Saver
- 2 part Epoxy or Thick CA (Cyanoacrylate) Glue
- Pen Blank Minimum Size: 5/8" x 5/8" x 1-1/8"L



Preparing the Blank:

- Cut blank to the length of the tube, adding 1/16" for squaring off.
- Drill 7mm hole lengthwise through the blank.
- Spread glue over tube, insert the tube into the blank with a twisting motion to spread the glue evenly inside.
- Center the tube lengthwise inside the blank.
- When the glue is dry, square the ends of the blanks, making sure the trimmed ends are 90° to the tube. Use a 7mm barrel trimmer, or a pen blank squaring jig on a disc sander. Take the excess material down flush to the ends of the tubes. Do not trim past the end of the tube since this may interfere with the operation of the mechanism and assembly. Use a barrel trimmer to clean the inside of the tube.

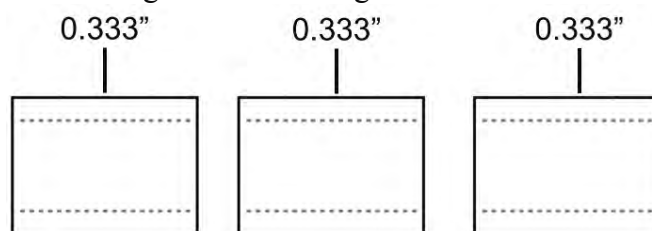
DIAGRAM B / TURNING THE BLANKS



Turning the Blank:

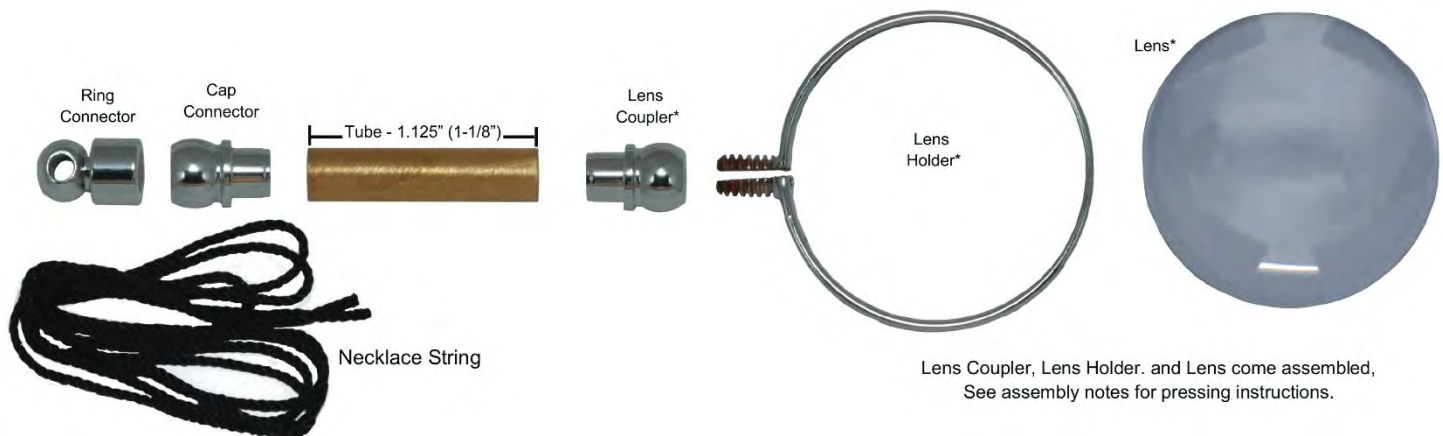
- Mount the blank and two bushings according to diagram B. You may wish to add spacers to provide space to work.
- When using Mandrel Saver, there is no need for a lot of extra spacer bushings or the knurled nut. Slide tailstock directly against bushings and tighten until blank is secure.
- Without Mandrel Saver, thread on the knurled nut and hand tighten to hold all components in place.
- Slide the Tailstock up snugly against the Mandrel shaft, inserting the live center point into the Mandrel dimple. Lock Tailstock and tighten the quill adjustment on the tailstock to steady the mandrel. Do not over tighten.
- Using sharp tools, turn the blank down close to the bushing diameter. Turn the barrel to a profile of your choice.
- Sand the blank down to be flush with the bushings, gradually increasing sandpaper grits.
- Finish the barrel using your choice of polish. Allow Sufficient time for the polish to cure—refer to polish instructions.

Diagram C / Bushing #PKM-BUSH3



Use any two of the bushings

Diagram D / Parts Layout

**Assembly:**

- Do not press with the Lens Holder threaded into the Lens Coupler! Separate the Lens Coupler from the Lens Holder by unscrewing it carefully to prevent dropping the Lens. Set aside Lens and Lens Holder.
- Press the Lens Coupler into either end of Barrel.
- Separate the Ring Connector and the Cap Connector.
- Press Cap Connector into remaining, open end of Barrel.
- Make sure Lens is seated in the Groove inside of the Lens Holder.
- Squeeze the sides of the Lens Holder to close the gap in the bottom screw.
- Thread Lens Holder into Lens Coupler.
- Connect Ring Connector and Cap Connector and insert String or Necklace.

