

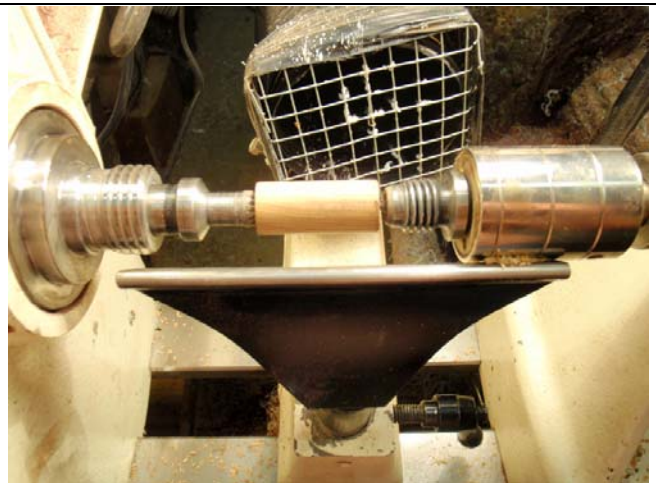
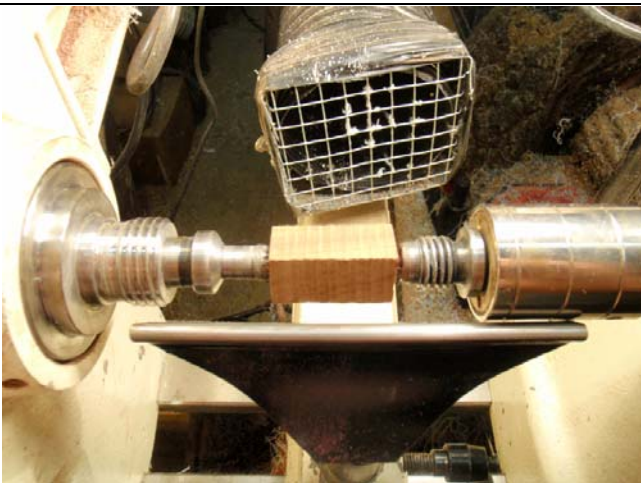
One Way To Make Fridge Magnets From Pen Blank Cutoffs – By John Uteck



1. A handy tool – 1-1/2" center square
(www.wttool.com; item # 1289-0335)



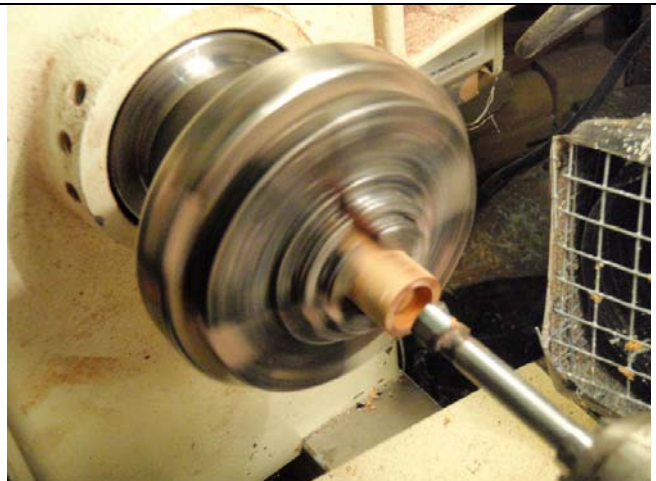
2. Another handy tool – 1/2" Steb Center
(www.packardwoodworks.com; item #110602)



3. Turn cutoff pen blank between centers.



4. Mount rough turned blank in 4-jaw chuck or collet chuck.



5. Using a Forstner bit mounted in a Jacobs chuck in the tailstock, drill a 1/2" \varnothing hole to depth of magnet or magnet cup.

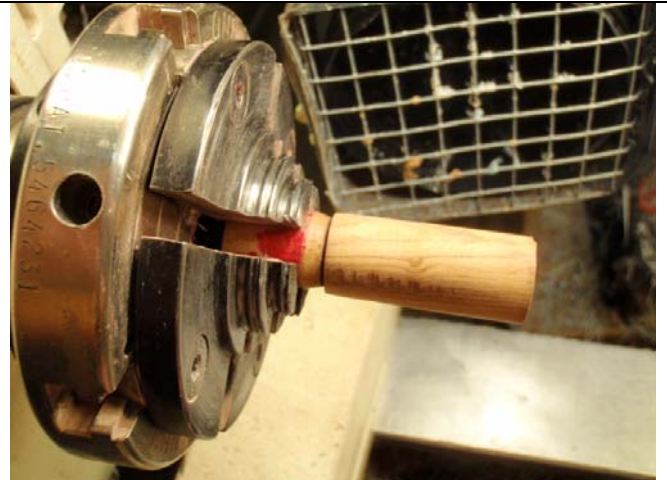
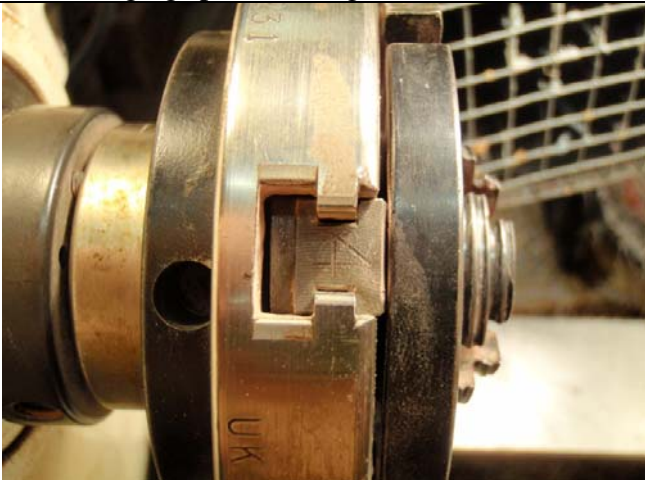


6. Using a 5/64"ø drill bit, drill pilot hole for a #4 wood screw, approx 3/8" deeper than bottom of magnet hole.



7. My first attempt to hold the magnet blank was to make a jam chuck with 1/2"ø tenon. Since I tend to have a heavy cut, this didn't give enough grip for turning.

8. I drilled the countersink hole and pilot hole from the back end of the jam chuck, and added a #4 wood screw to make a jam/screw chuck.

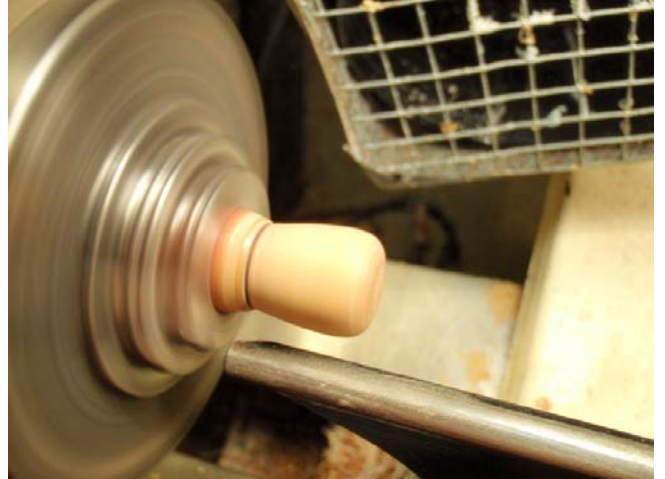


9. The chuck jaws are numbered 1 through 4. To give a repeatable way to remount the jam chuck, mark the jam chuck between the #1 and #4 jaws when held tightly in the 4-jaw chuck.

10. Mount the magnet blank on the jam chuck, and tighten the #4 screw into the blank, then insert into the 4-jaw chuck, lining the red mark between the #1 and #4 jaws, then tighten.



11. Part off to a suitable length if necessary.
Remember the 5/64"ø hole drilled into the blank - don't part off too short.



12. Shape the magnet holder and sand.



13. Apply finish, then polish.



14. Add detail to the end if you want.



15. The finished magnet holder, ready for buffing and attaching the magnet cup and magnet.

Rare Earth Magnets: <http://www.leevalley.com/wood/page.aspx?c=&p=32065&cat=1,42363,42348>
Cups & Friction Discs: <http://www.leevalley.com/wood/page.aspx?c=&p=32066&cat=1,42363,42348>