

Making a shear scraper

Step-by-step process to make a Siragas-style scraper

Materials needed:

- 1/2" steel rod
- Ferrule
- # 10-32 machine screw
- HSS blank for scraper (EBay)
- Hardwood blank
- Epoxy

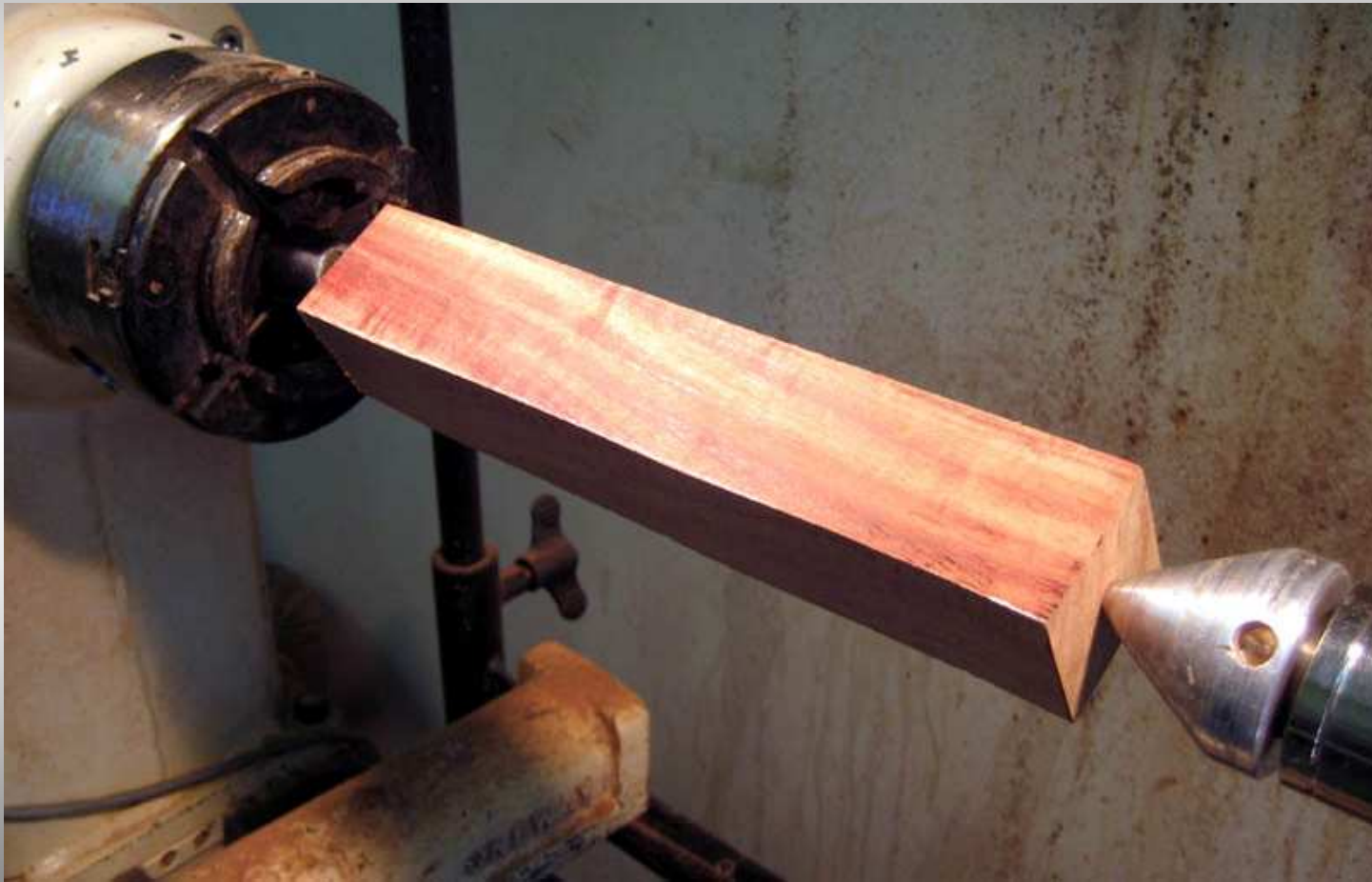
Special tools needed:

- Tap, tap handle and drill for shank
- Diamond wheels & disks (Harbor Freight)



Shear Scraper

Select 1½" square hardwood blank for handle



Shear Scraper

Turn to about 1 3/8" or whatever diameter is comfortable



Shear Scraper

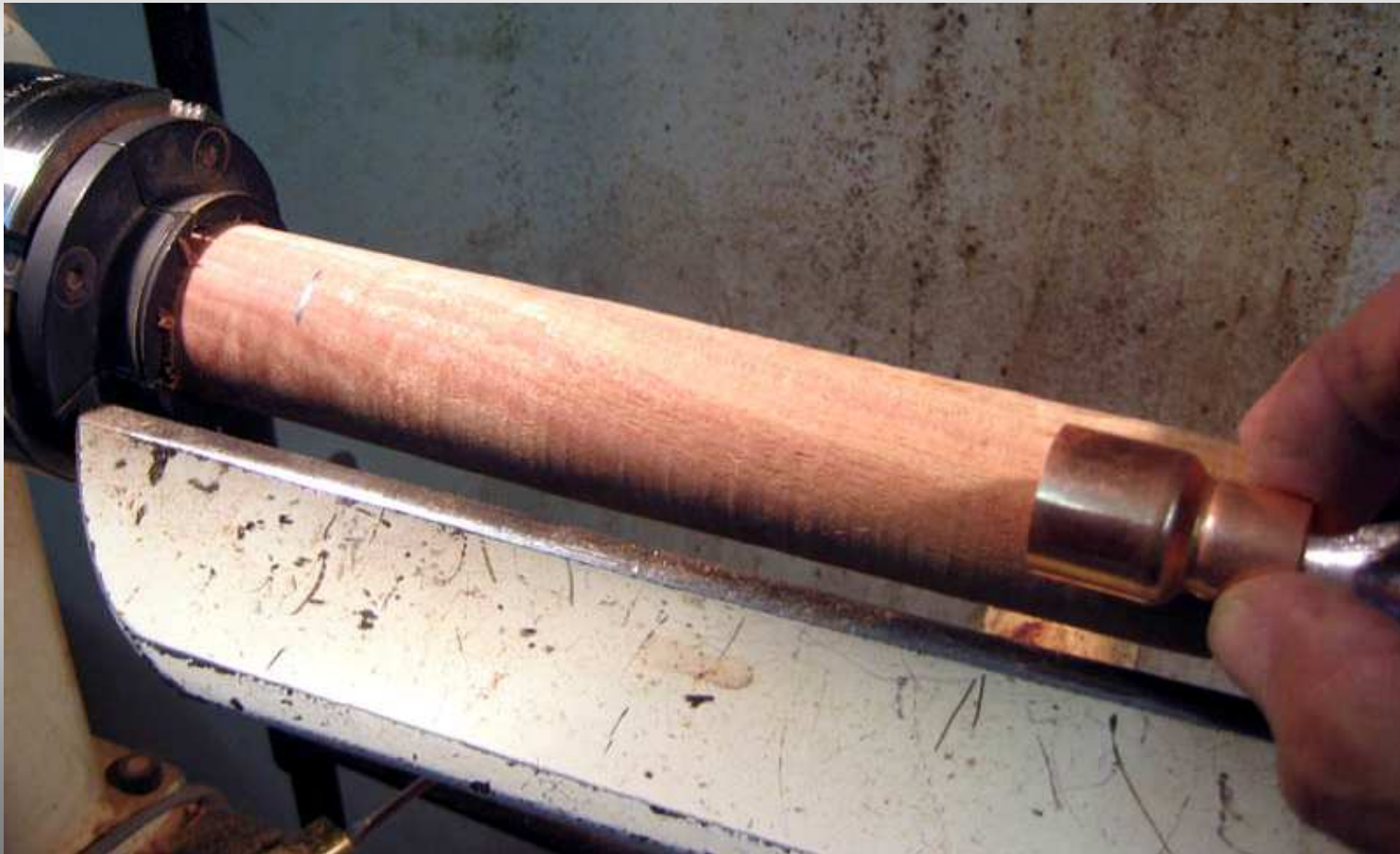
Mark overall length of handle



Shear Scraper

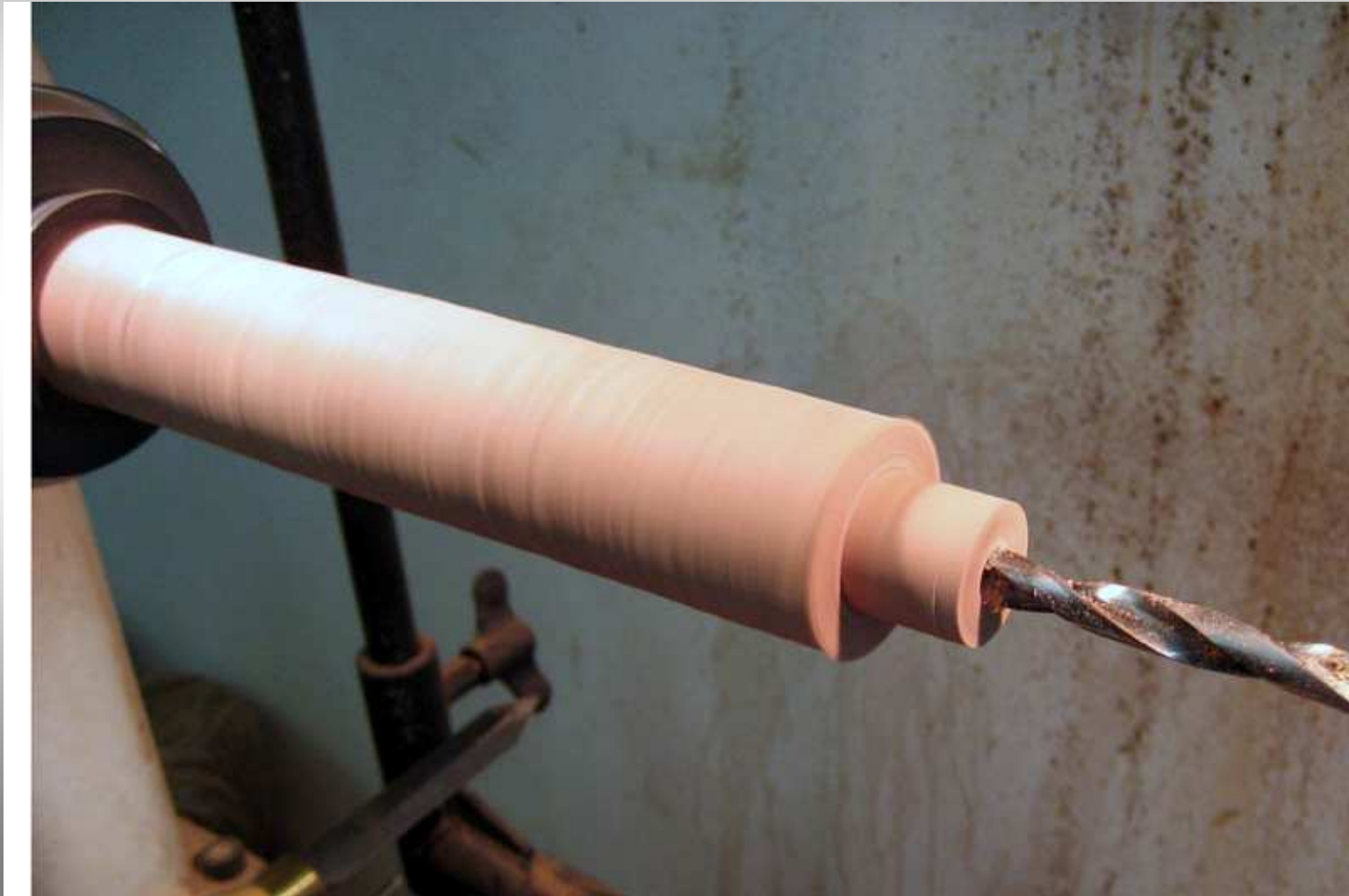
Ferrule will be copper reducing connector

Available at any hardware or home improvement center



Shear Scraper

Turn tenon for ferrule & drill hole for steel shank



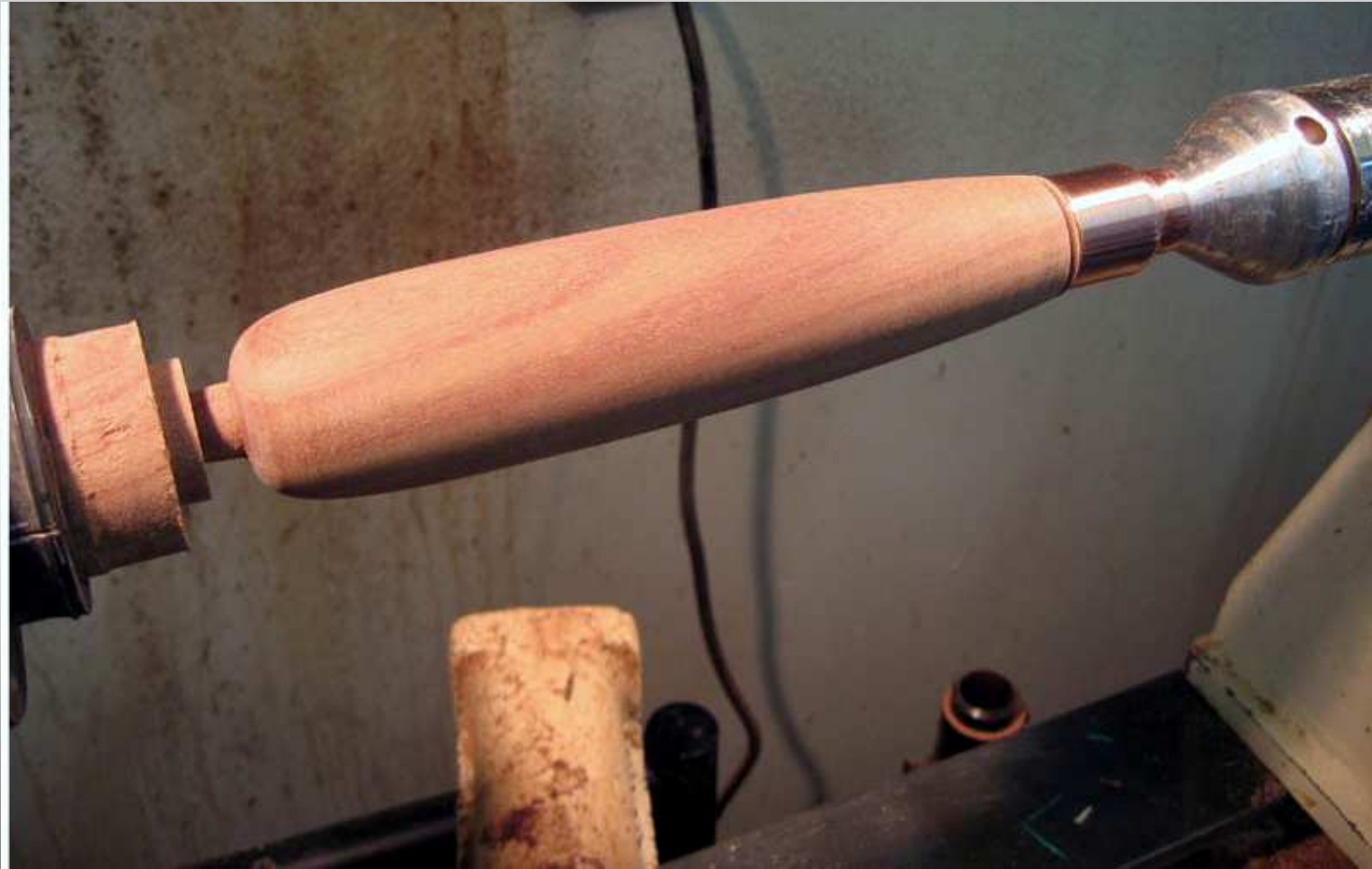
Shear Scraper

Smaller ferrule diameter will be shortened



Shear Scraper

Glue ferrule to blank & turn handle to final shape



Shear Scraper

Complete turning handle by finishing end



Shear Scraper

Cut shank from drill rod. Grind flat. Drill & tap for 10-32 machine screw. Use 5/32" drill bit



Shear Scraper

Screw in place. Shank will project 6" from end of handle.



Shear Scraper

Shank epoxied into handle with J-B Weld



Shear Scraper

Remove masking tape & clean up epoxy residue



Shear Scraper

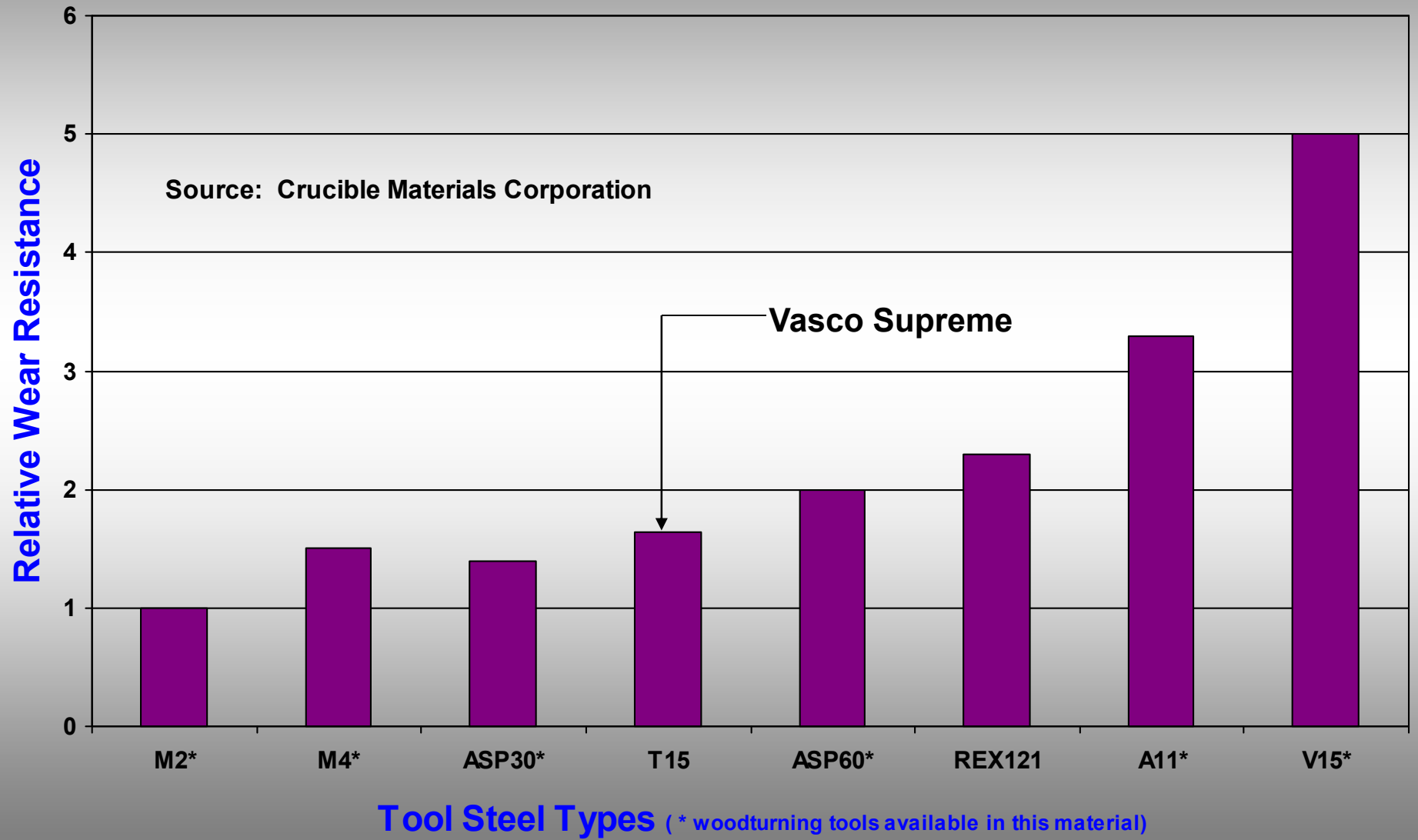
Make scraper blade from HSS blank (T-15)

Metalworking cut-off blades purchased on EBay



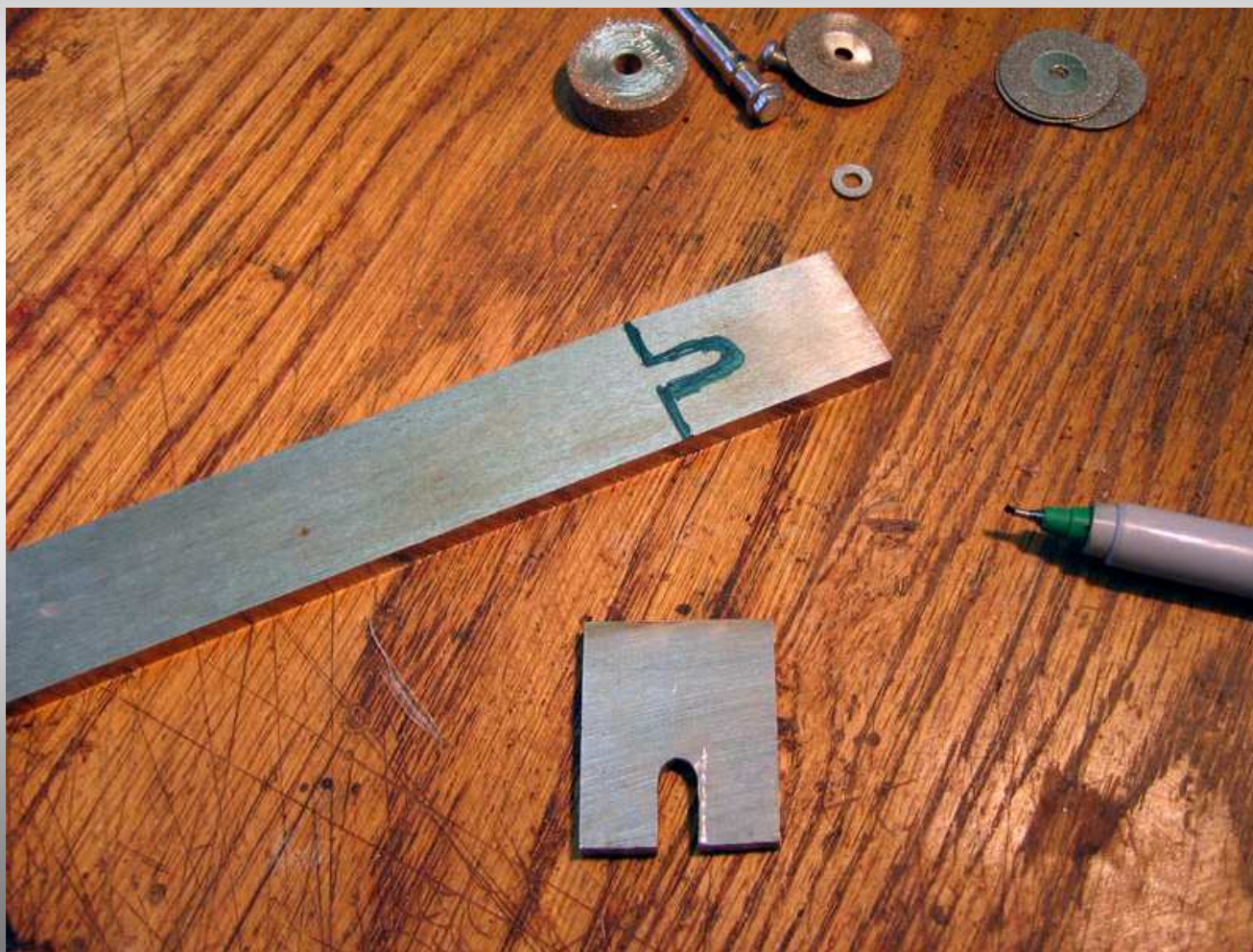
Relative Wear Resistance of Tool Steels

(Compared to M2 HSS)



Shear Scraper

Mark out blade and screw slot



Shear Scraper

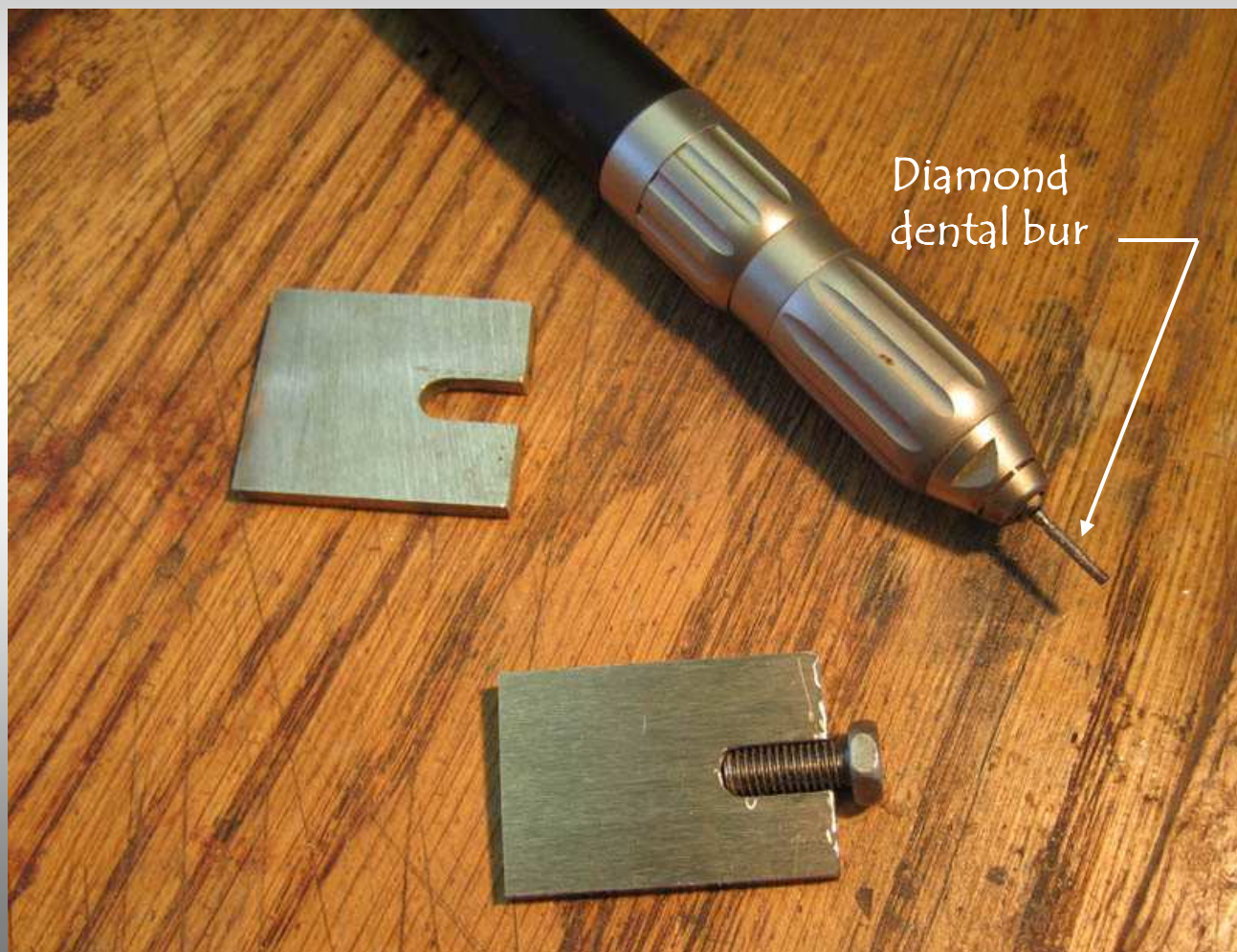
Cut blank & slot with diamond wheels on mandrels

Purchased at Harbor Freight



Shear Scraper

Completed scraper blade



Shear Scraper

Tool complete—ready to use



Shear Scraper

Burr on scraper producing fine shavings

