

Make a Interchangeable Lathe Tool Handle

Contributed by: John Austin

A.K.A "hanau"



www.penturners.org

This tutorial was downloaded from

<http://www.penturners.org>

The International Association of Penturners - 2015

Make a Interchangeable Lathe Tool Handle

by john Austin aka [hanau](#)

I've been making carbide tools and thought let's try an interchangeable tool handle.

We'll need the following: Purple Heart, brass ferrule, Aluminum holder drilled 1/2" with a 3/8" adapter for the 12 mm round, 15mm and 12mm carbide holders.



Photographer didn't get any pictures while turning from square to round. That's the easy part.

Setting up the steady rest I made.



Here I'm drilling the 5/8" hole.



Does it fit? Yes it fits.



Now I'm turning shoulder down for the ferrule.



It also fits.



Let's test fit the adapter. It looks pretty good to me.



To be continued.... have to wait for finish and glue to dry.

I learned a couple things while epoxying the parts together.

- Don't lose the brass tack for the ferrule
- Drill hole in bottom of aluminum before putting it in the wood. Need a way to let the air escape when pressing together.
- Don't use a lot of epoxy, it will come back in the air hole and won't let carbide holder 3/8 insert sit all the way in. I fixed it by using a 1/2" drill bit by hand, cleaning the inside of aluminum insert out.
- When buying the set screws pay attention to the size. I grabbed 10-32 instead of 10-24.

15mm Carbide insert



1/2" hole



3/8" insert



12 mm round Carbide



Thanks for looking.
Any input bad or good is fine. Always looking for a way to improve.

John