

Darn Near Perfect Dust Collection

Contributed by: Curtis O. Seebeck

A.K.A "MesquiteMan"



This tutorial was downloaded from

<http://www.penturners.org>

The International Association of Penturners - 2014

Darn Near Perfect Dust Collection by Curtis O. Seebeck AKA MesquiteMan

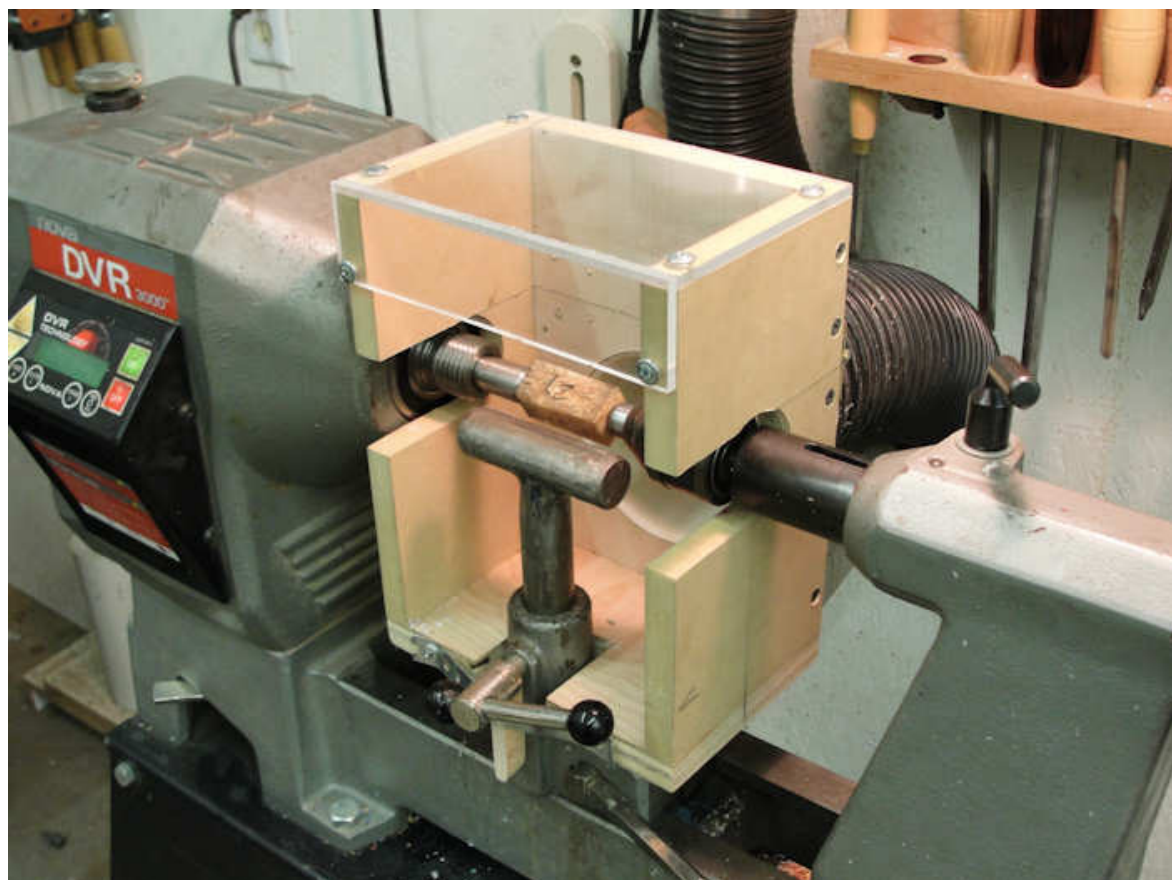
I have been seeking the ever elusive "darn near 100%" dust and CHIP collection while penturning on the lathe. I have got the dust collection part down but even with an 1,800 cfm cyclone system with 6" duct work and a 4" very short drop to the lathe with a large dust hood, I still was not getting really good Chip collection.

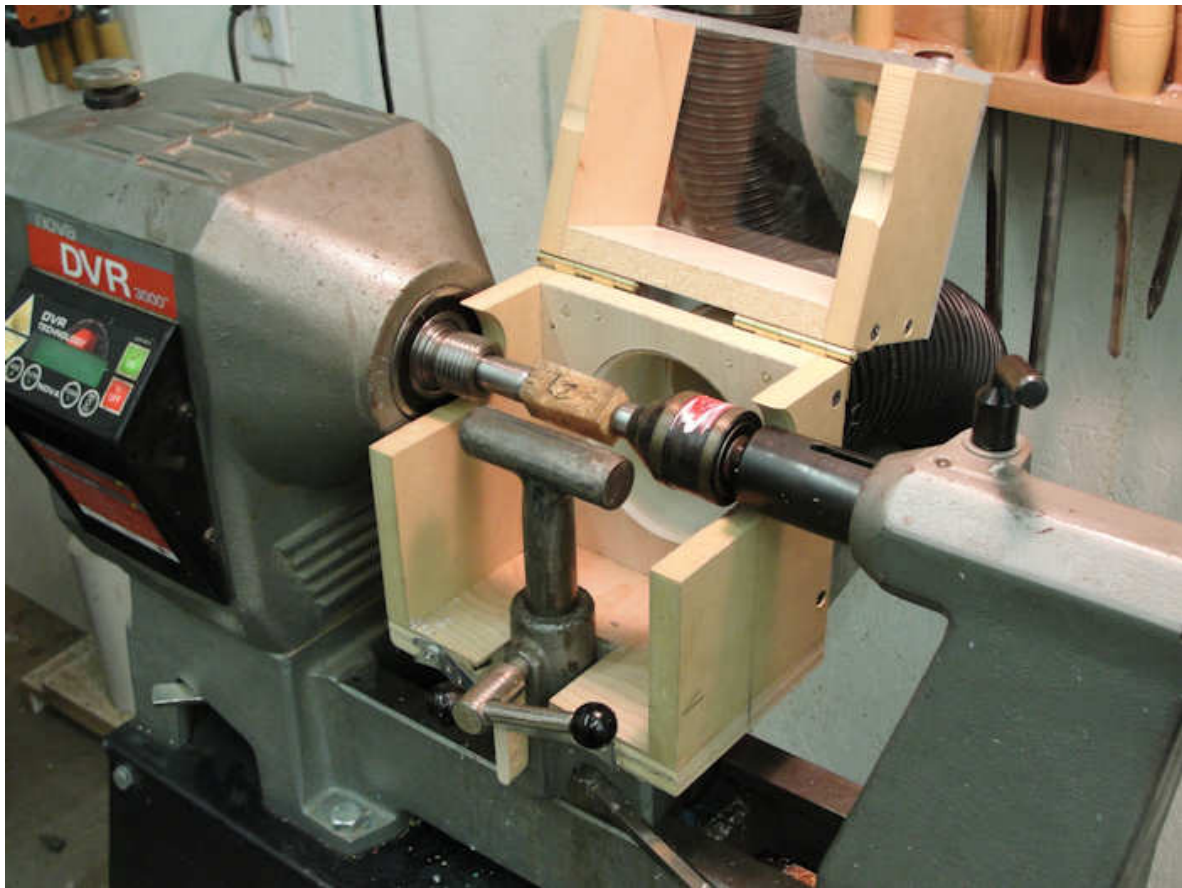
Well, that is now a problem of the past! I am getting 99.997% Complete Dust and Chip collection with this. Wipe down the inside of the plastic hood with a Bounce sheet to eliminate static electricity buildup on the acrylic.



Once I came up with this design, I realized I had a new problem...what do I do when I sand and apply my CA finish. I could just see the nice clear Plexiglas get all spotted with little dots of flung off CA and there was just not enough room in there to do any real sanding. What to do? I'll use hinges of course!

Notice the strap I've used to attach it to the tool rest. You could make it with raised bottom to fit over the tool rest to stand on the lathe bed. Then use rare earth magnets on the bottom to hold it securely on the lathe bed.





This works INCREDIBLY well! See the 3 or 4 chips at the bottom of the last picture on the black base for my lathe? That is all I missed after rough turning 15 cactus blanks! The other really nice part, I don't need to wear my face shield while turning now! Of course, I still do when applying CA.

Below is a link to a short you tube video showing it in use and how well it works! In the video, I am rough turning an "Original Cactus Blank" between centers with my bowl gouge (as I always do). The final sizing and shaping will be done later.

<http://www.youtube.com/watch?v=1CI5IAYUwKg>