

The McNaughton Center Saver Tool-rest



This is a 3d printed copy of the tool-rest head on my McNaughton Center Saver. It has a 1" hole in the bottom, which allows it to be positioned directly above the tool-rest hole in the banjo by a dowel that fits the banjo and the hole in the 3d printed head.

This allows for easy alignment of the cutter which now fit over the top of the bowl blank being cored. You no longer have to site down to the McNaughton tool-rest when positioning the cutter.

The following pictures show how this 3d print is used.



Blank mounted between centers, shaped, and tenon turned.



Bowl reversed and mounted in a chuck.



Top turned flat and small tenon made on interior bowl.



Marks made where cut is to be made.



Mark top where bottom of bowl should be.



Use square to mark edge of blank above marks on face.



Marks made on edge.



Marks on face extended and groove cut into face where cutter will begin.



3d Printed head supported by dowel in banjo. Cutter is sitting on top of bowl and 3d printed piece.



Sharpest curved cutter tested for fit.



Middle curved cutter tested for fit. (This one was best.)



Least curved cutter tested for fit.



Middle curved cutter shown with tip on mark on edge and showing angle of cutter at beginning of cut.



Middle curved cutter aligned for beginning of cut.



Depth of bowl measured.



Bottom of bowl came out where we wanted.



Thickness of wall is even!