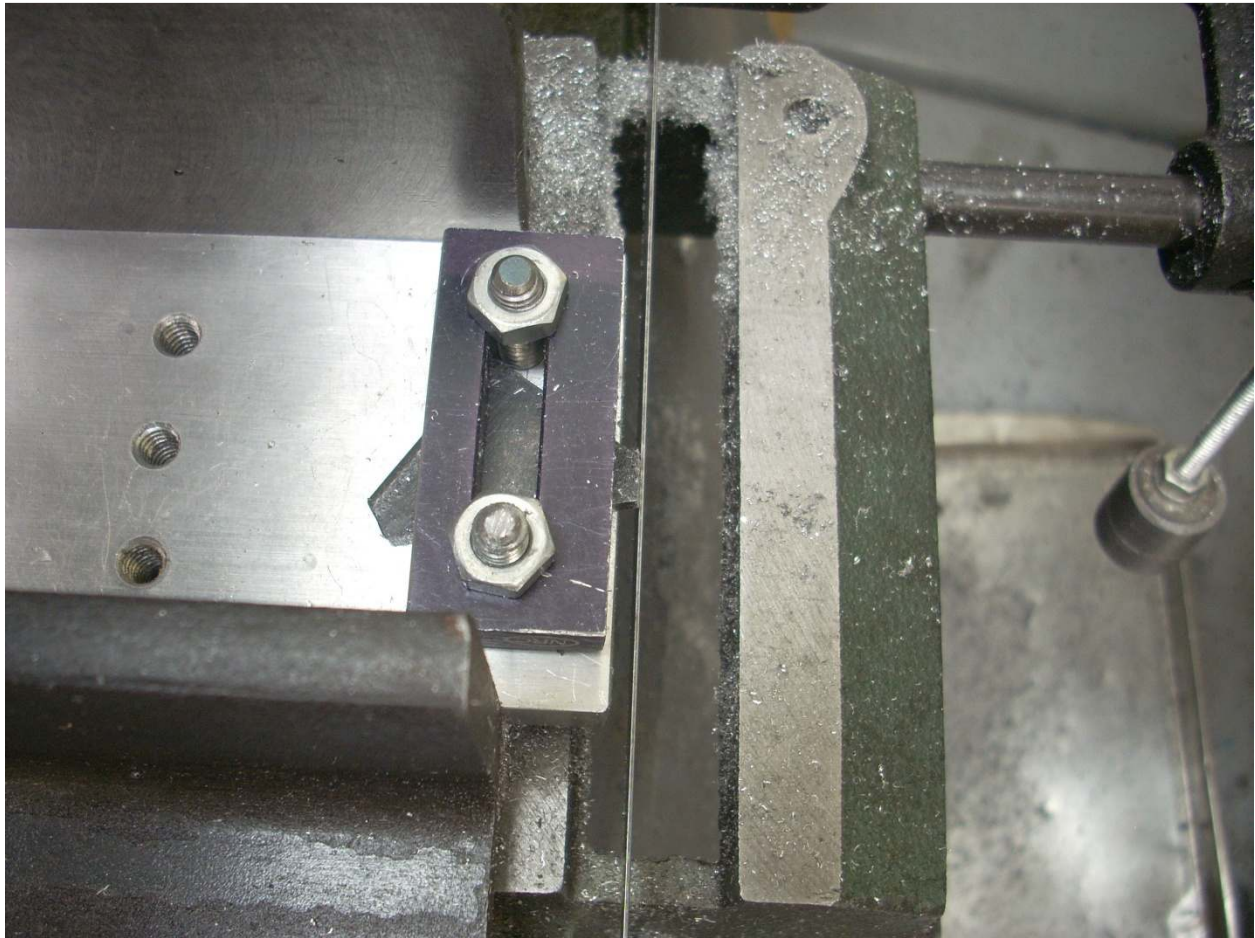


Safely Sawing Small Bits

By “dw shelf” as told to R. G. Sparber

Copyright protects this document.¹



A quick way to cut your finger is to hold a tiny bit of metal in order to saw off a corner. This fixture avoids that little adventure.

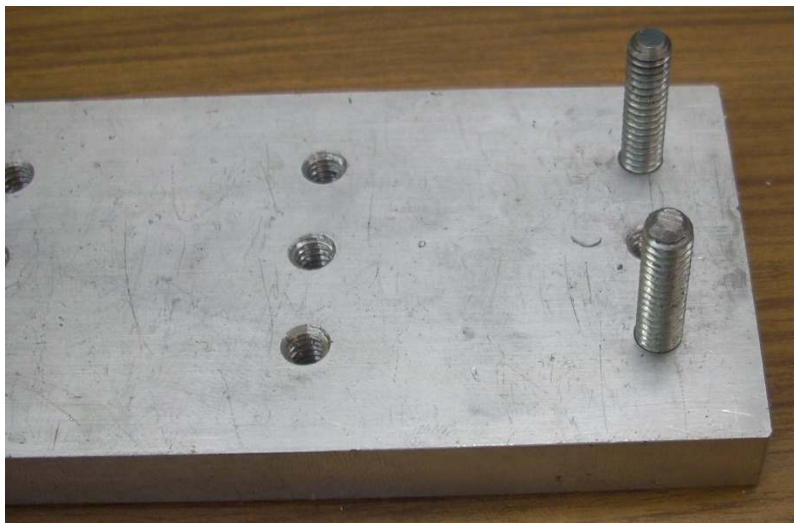
¹ You are free to copy and distribute this document but not change it.



I made this clamping plate for my rotary table but it works well here too. The plate is $\frac{1}{2}$ " x 3" x 7" and the holes are tapped $\frac{1}{4}$ -20. It would be more useful if the holes were in a 1" grid pattern.



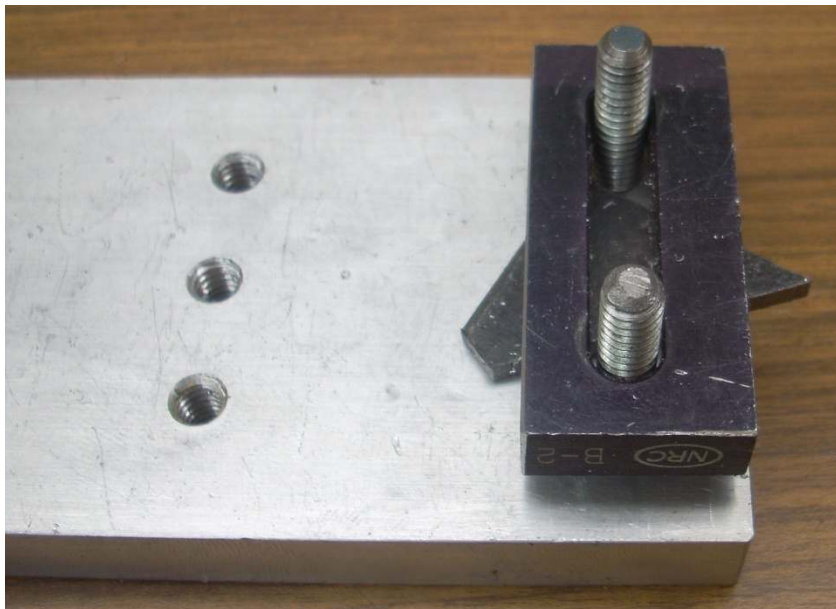
I happen to have a piece of scrap aluminum with a nice slot in it. The slot fits over two of the holes in a column of the clamping plate. I also had some odd length threaded rod. The ends have been beveled and recut with my $\frac{1}{4}$ -20 tap to make them easier to thread on the nuts.



So far, so good.



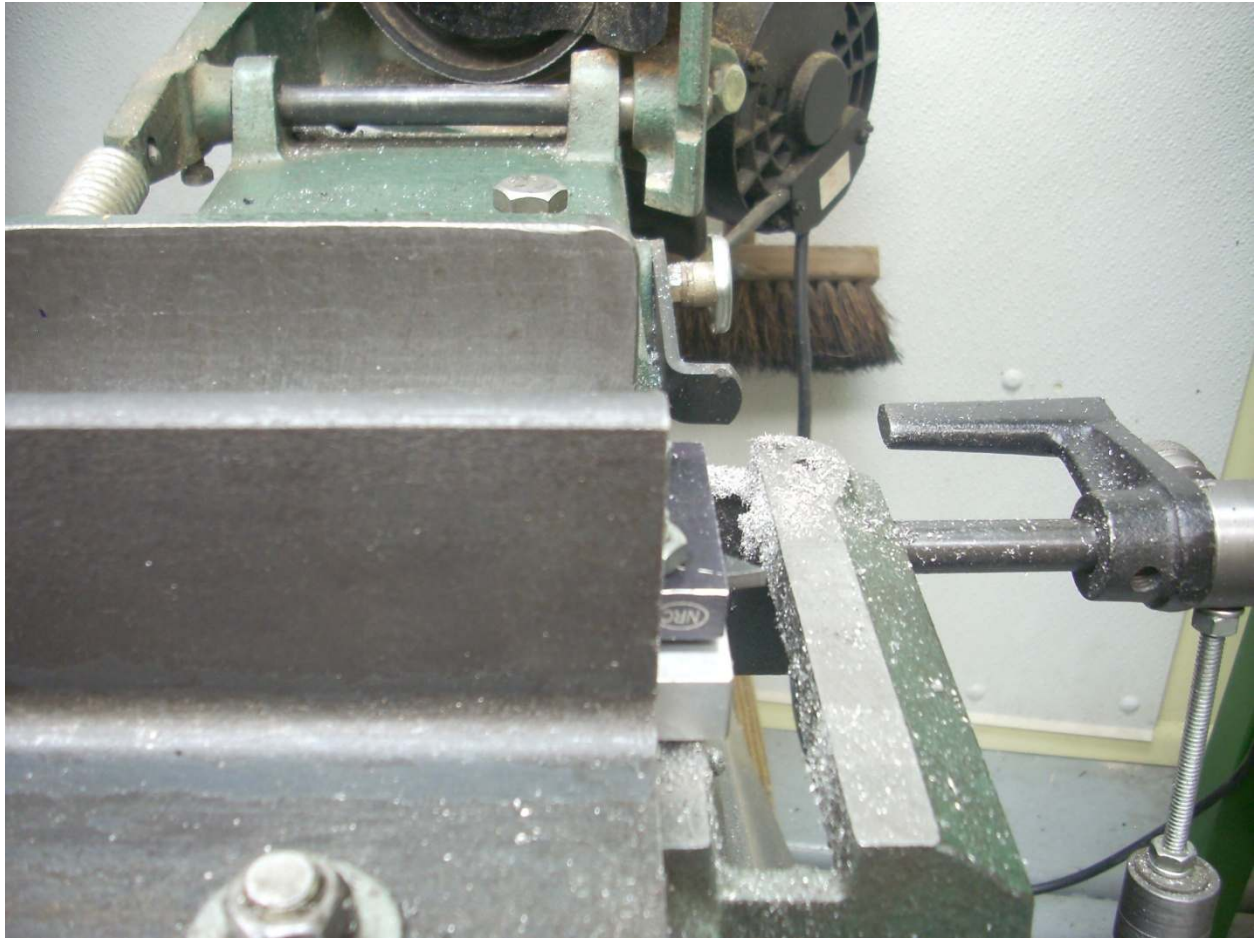
As a test, I have dropped down a small scrap of steel.



The clamping bar goes on top. The slot weakens the strap but was just fine for this “proof of concept”.



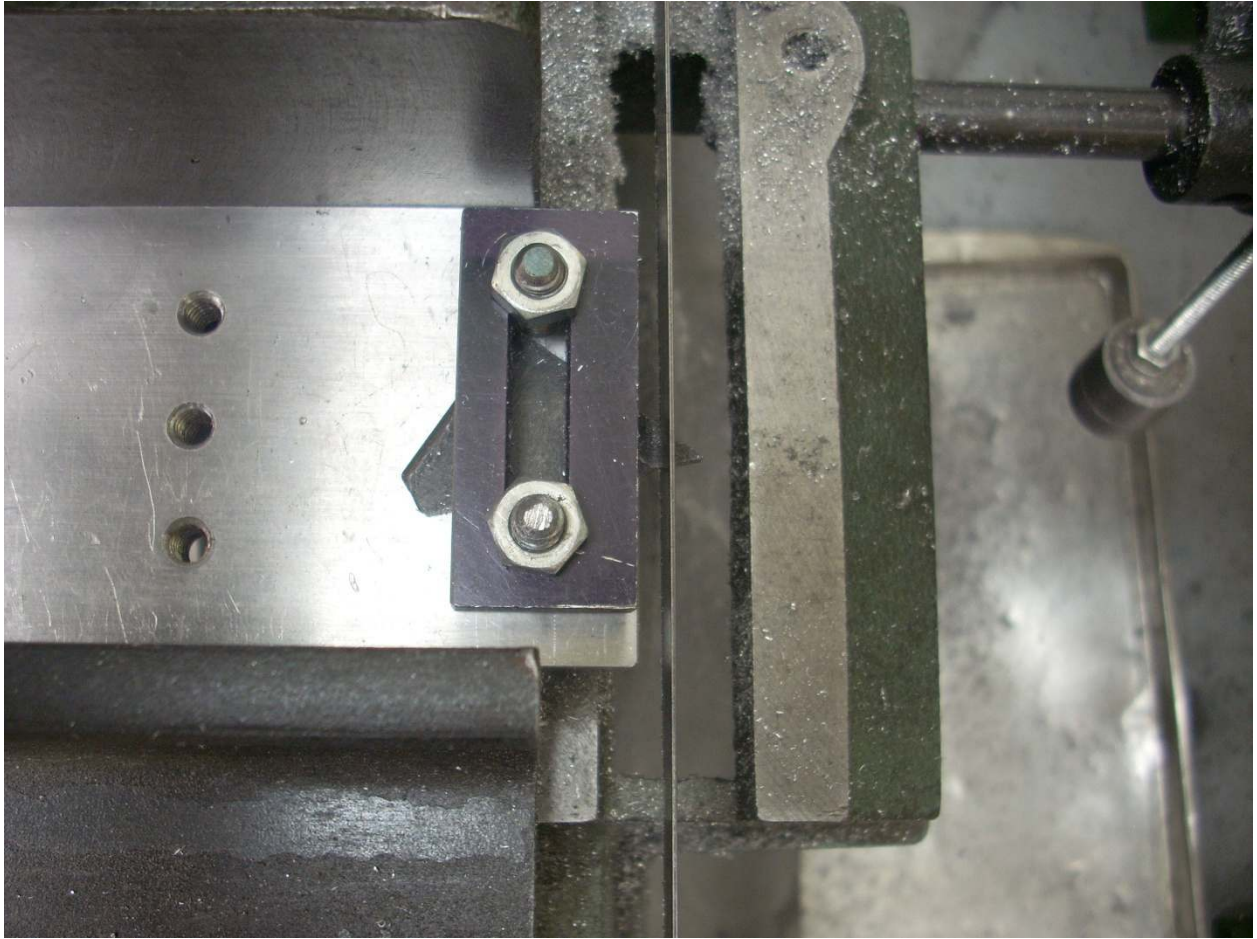
The nuts spin on and are snugly tightened with a wrench.



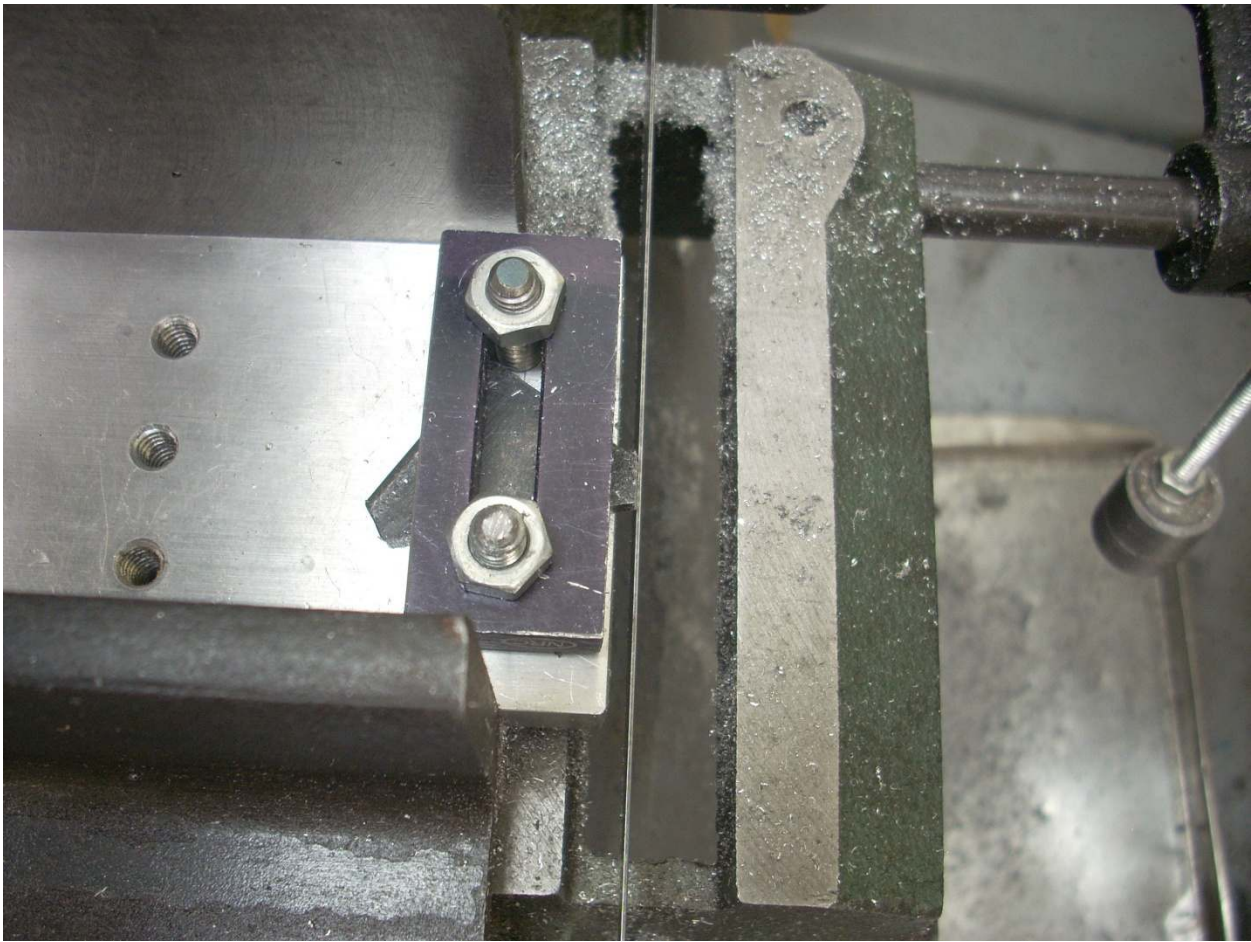
The assembly drops into the horizontal/vertical jaws.



Final positioning was done. Then the jaws were tightened.



I stopped the saw part way through the cut so you can see the big picture. With all of the surface area involved between the work piece, the clamping table, and the clamp, nothing shifted even though the nuts were just tight.



The cut was completely uneventful.

Note that you could bolt down a fence and a stop to make repeatable cuts.

I welcome your comments and questions.

“Dw shelf”

And

Rick Sparber

Rgsparber@aol.com

Rick.Sparber.org

