TOOLPOST GRINDER

I have a cheap copy of the Dremel Multitool and wanted to mount it in the tool post of my lathe and use it as a small tool post grinder. The spindle nose of my tool has the same external thread as theDremel and I decided to use this threaded nose to mount mine. The front of the holder is threaded to accept theDremel spindle nose thread.

Materials

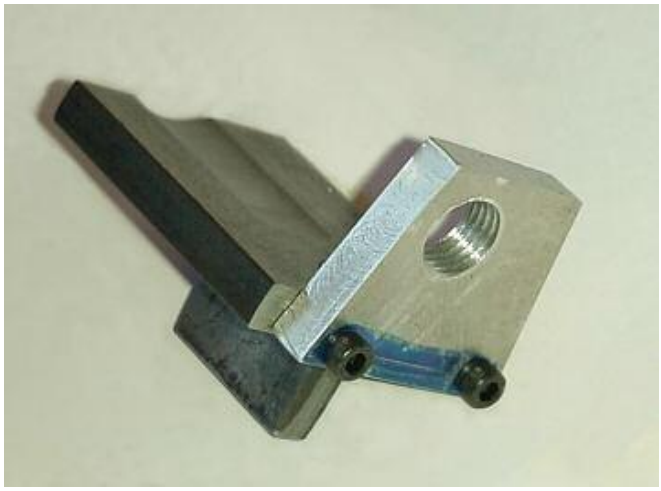
I used some pieces from my scrapbox. A piece of 10 mm HRS 50 x 70 mm and a piece of 10 mm aluminium plate for the base plate and the front. The front is fastened to the base with to M5 Allen screws.

Baseplate

The baseplate was first squared in the mini-mill. Then I mounted the baseplate on a boring table on my lathe and used a boring tool mounted between centres to mill out a recess for the tool body (right picture). This way the Multitool will have a large area supporting it.

Front plate

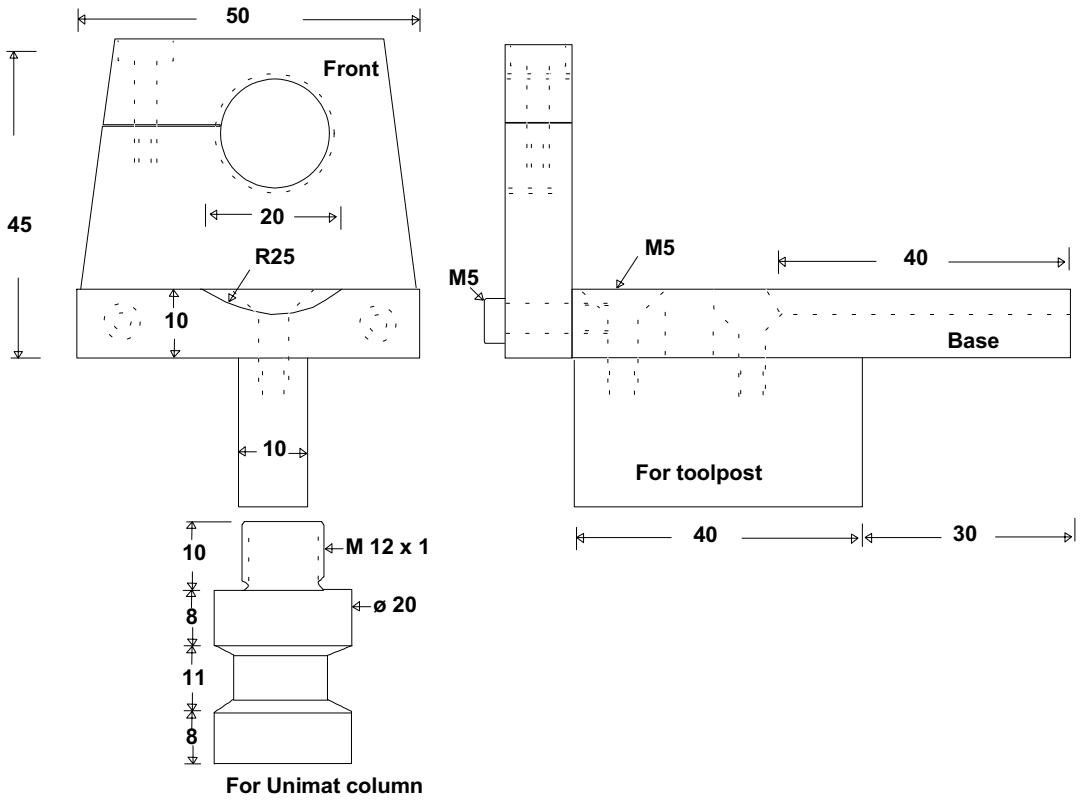
The front plate is made from a piece of aluminium. I mounted the front and base together and used a small centre in the Multitool collet to mark the centre of the threaded hole. The aluminium piece was then mounted in the 4-jaw and the hole drilled, bored and threaded for the spindle nose thread.
To hold the baseplate in the tool post I used a 20 x 40 mm piece of 10 mm HRS. This piece was attached with two M5 countersunk screws (right picture).
I also drilled and tapped a M12 hole in the base between the two countersunk holes. I will turn a steel rod to 20 mm diameter to fit the vertical column of my old Unimat. This way I can use the Multitool to sharpen small end-mills.



Finished

To relieve some of the strain from the external thread on the spindle nose I used a strip of sheet metal as a clamp around the body. The holes for the two Allen screws in the front are a bit oversize so I can get the body of the Multitool to touch the base before tightening the screws. The picture also show the rod used to attach the holder to the Unimat column. I just remove the two Allen screws and mount the rod instead.

Holder for Dremel Mutlitool



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Holder for Dremel