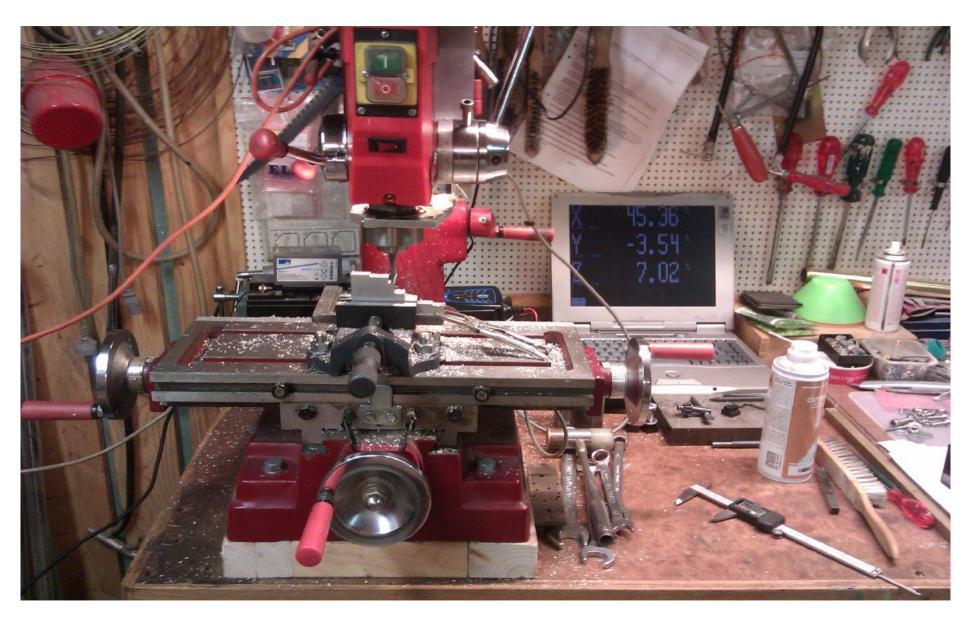


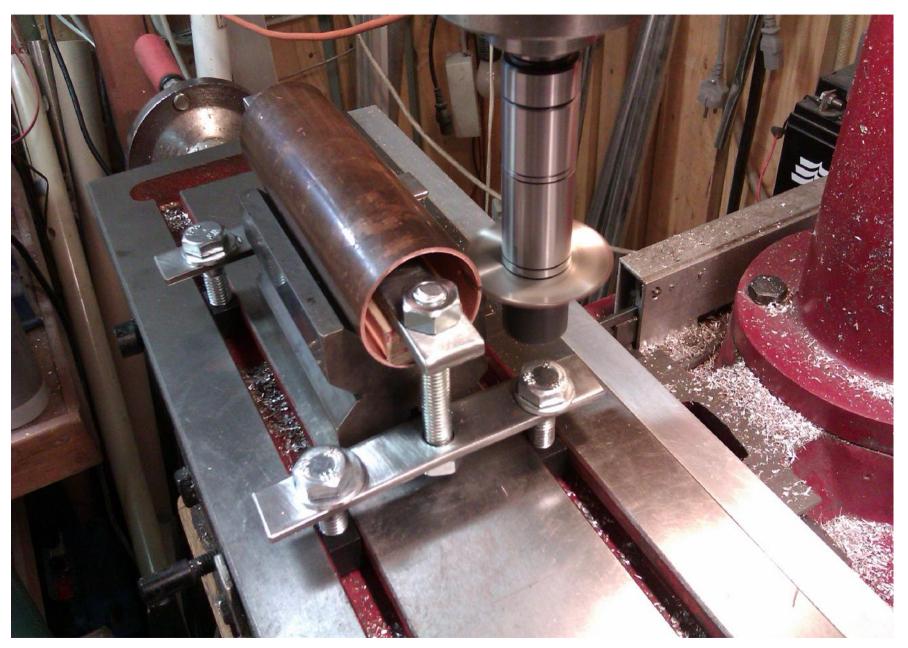
Milling radius at the SMA connector fittings, 15 x 15 mm brass



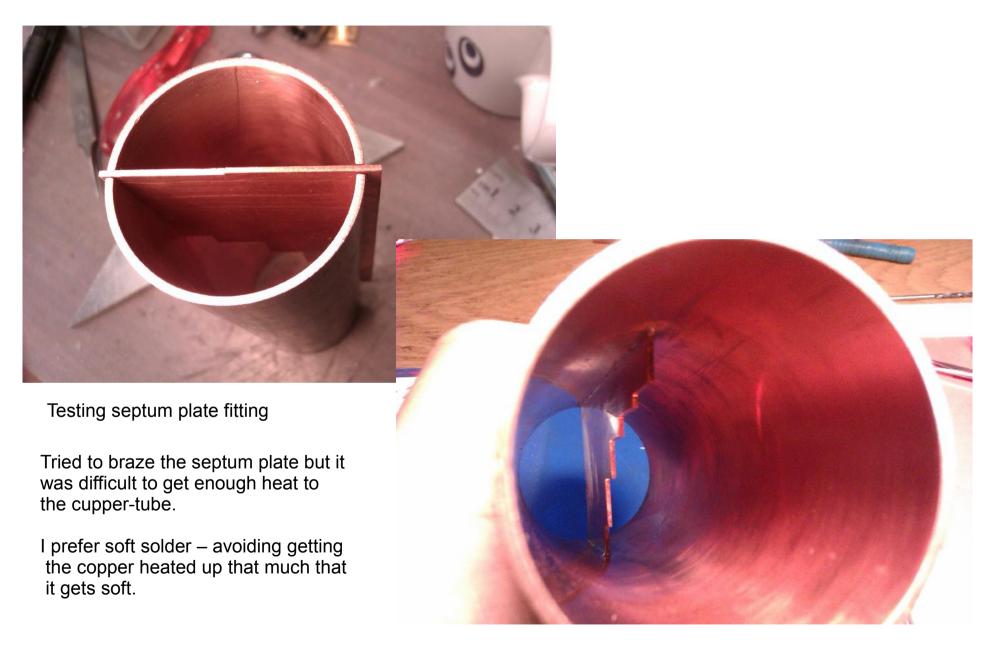
Milling 3 septum plates at the same time. 3mm aluminum plates to keep the 1mm copper plates steady.



Using the DRO to get good precision, even if it is a cheap Chinese mill, and cheap chines digital scales read by a DOS program YADRO.



Cutting slots into the wave guide tube by using a slitting saw. The two cuts where done in the same setup. (Now I am doing only one cut and using a fixture to keep the septum plate centered, 3cm / 9 cm feed.)



Septum plate soldered (soft solder) into place



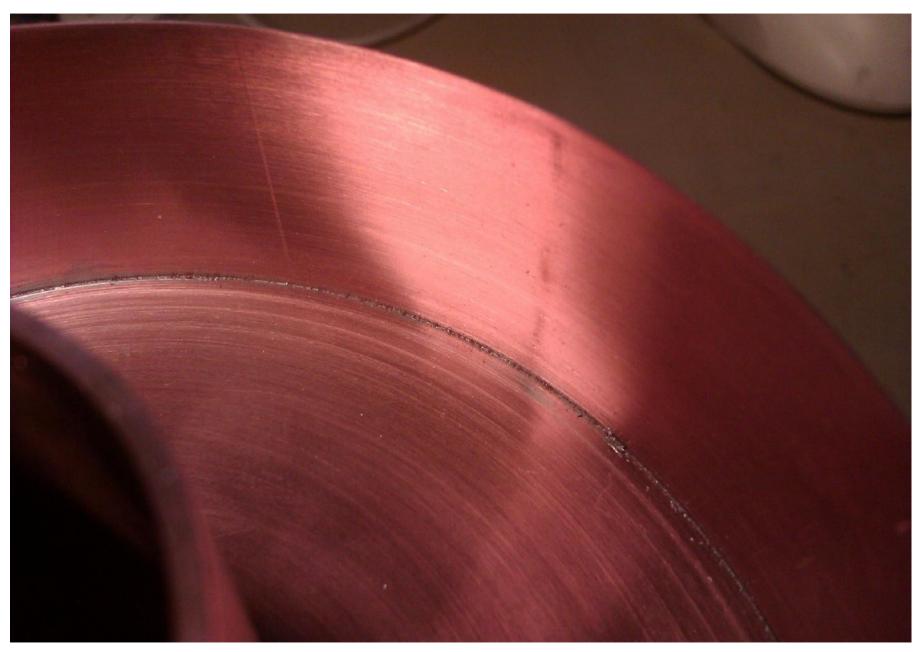
Turning a 60 mm center hole into the choke bottom plate. Outside diameter is still rough at this step, cut to dimension with a hacksaw



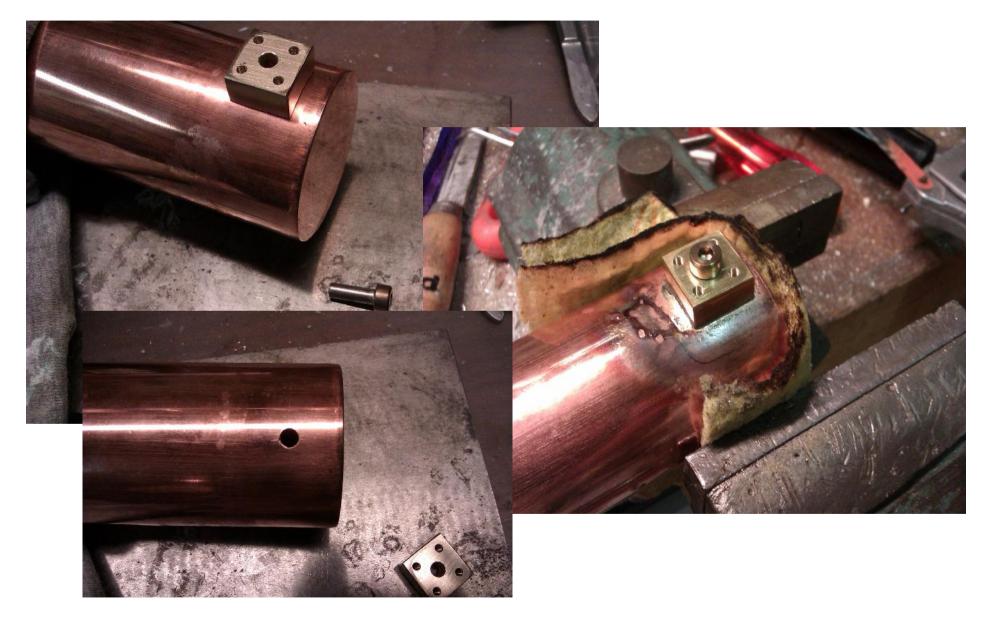
Turning the outer diameter



Preparing for soldering step



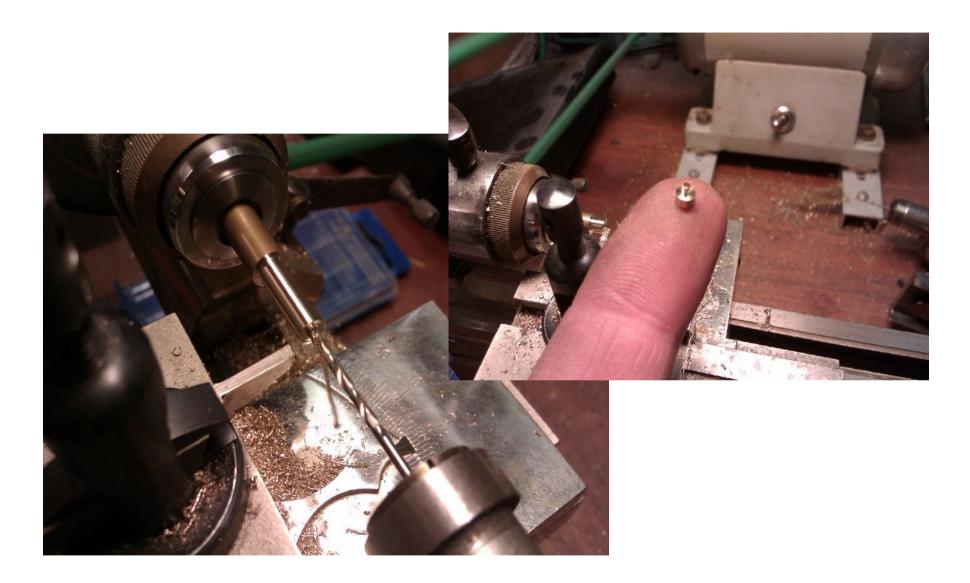
Solder flows very nicely into the gap



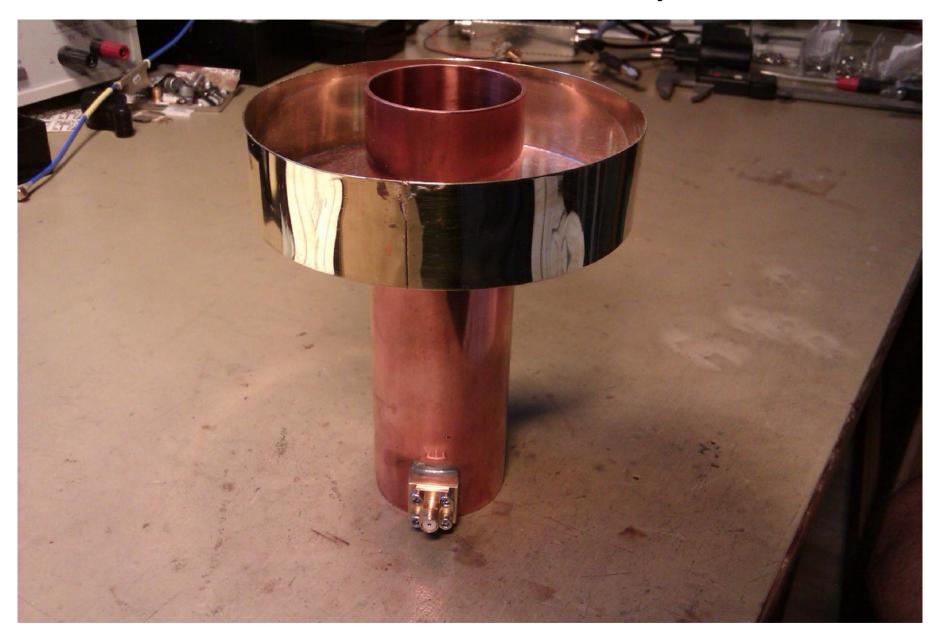
WG bottom plate soldered and now soldering the SMA connector fittings



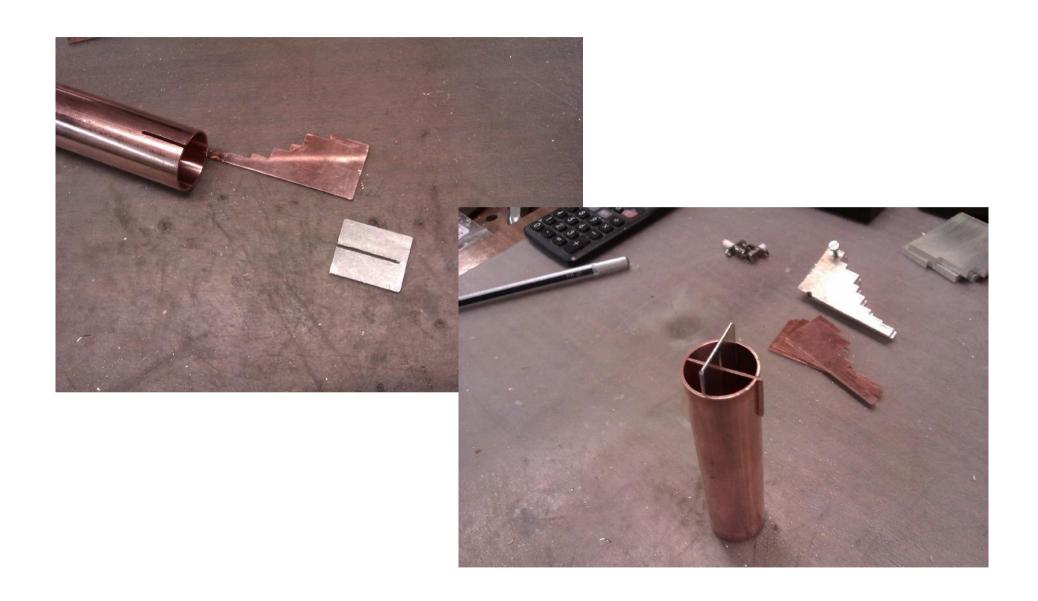
Soldering the Choke assembly to the WG.



Dont drop it on the floor!



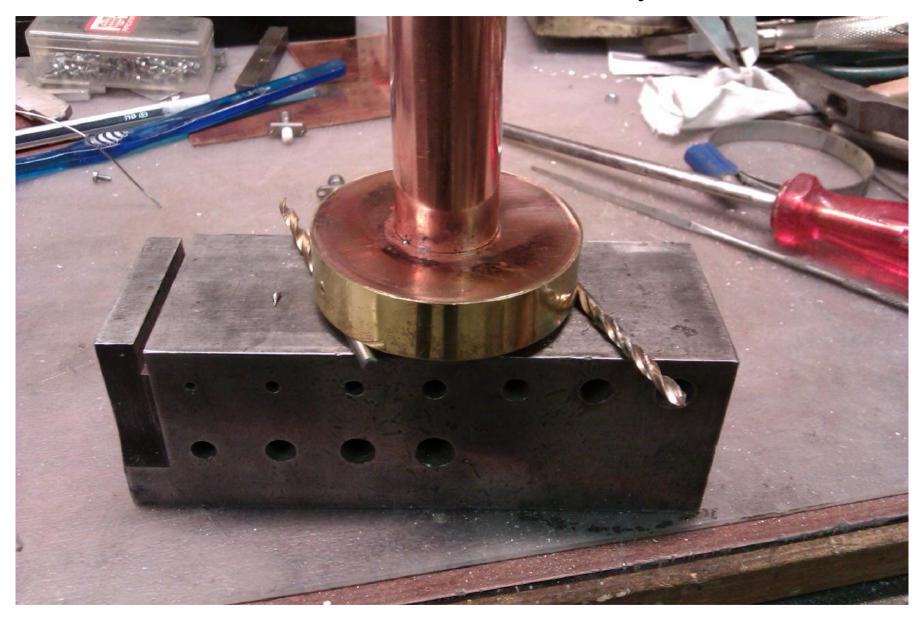
Finished! – connect to the NWA and make the fine tuning of the feed probes



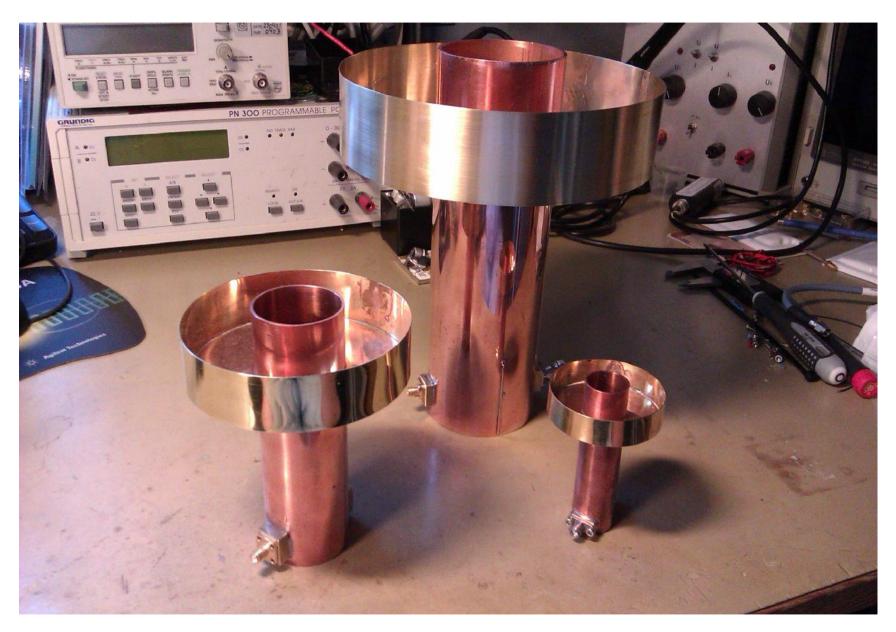
Easier to just cut one slot into the tube and use a fixture to keep the septum plate centerd while soldering. This method have been used at the 3/9 cm feed.



SMA connector fittings made in another way, in this case for two hole connectors



Getting the choke assembly at the wanted distance from wg mouth.



The FEED FAMILY, 10368 MHz, 5760 MHz and 3400 MHz (9cm feed is not finished, 20130523).