Knurling is a process of impressing a diamond shaped or straight line pattern into the surface of a workpiece by using specially shaped hardened metal wheels to improve its appearance and to provide a better gripping surface. Sooner or later the need to knurl something in the home workshop will require you to make a plan.

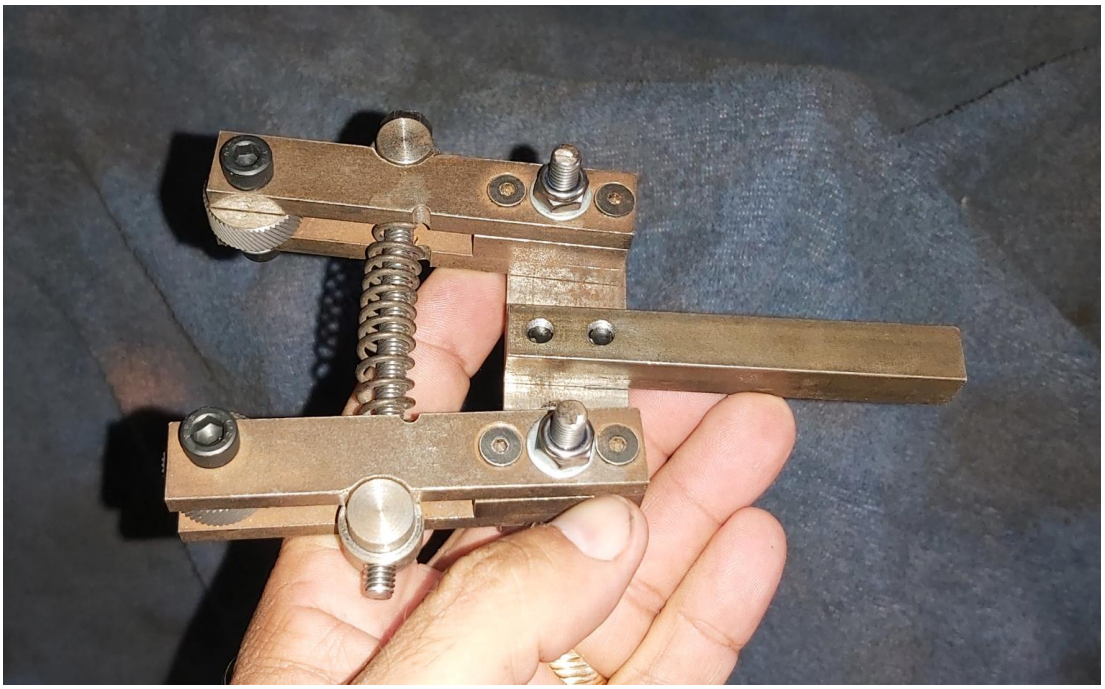
Properly knurled wheel.

On the smaller lathe you may expose the lathe's bearings to unnecessary stress by using the 1 o2 2 wheel push / pressure type, although it is easier to make or to purchase.

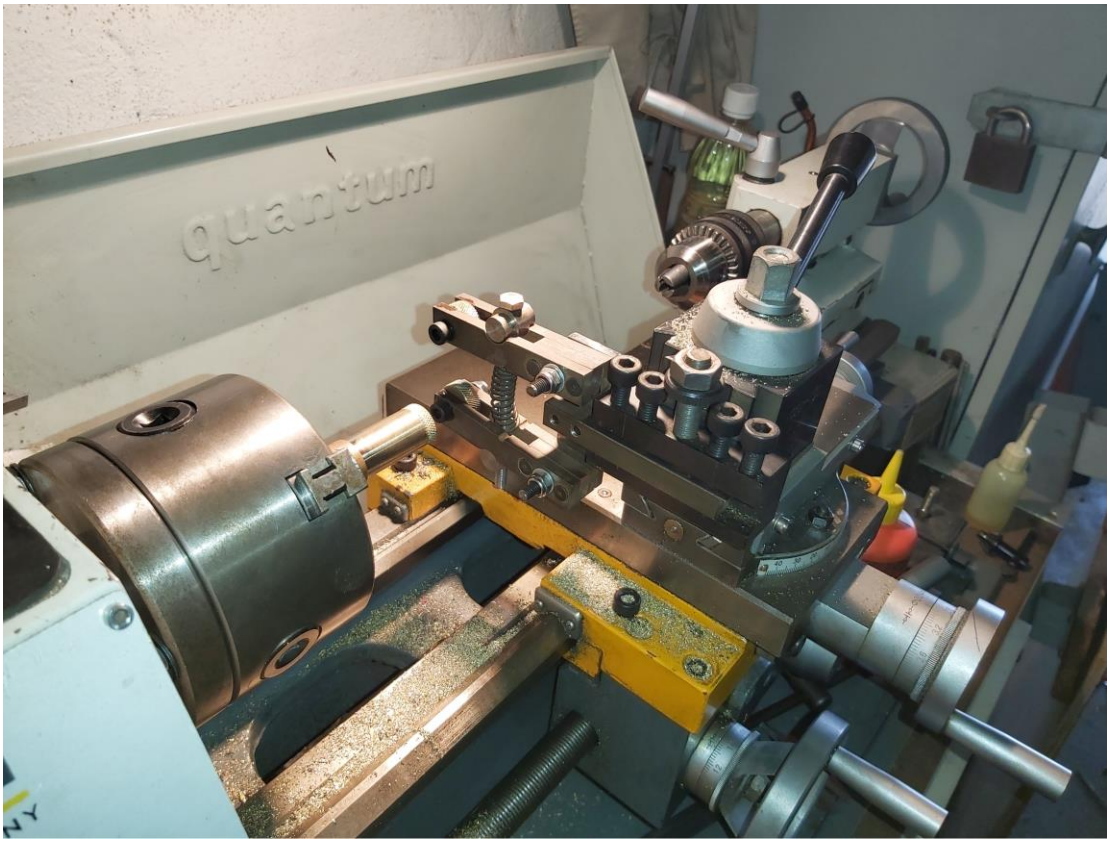
Push type.

The clamp type works like a pliers and the pressure is from two sides, with no pressure on the lathe's bearings, only a slight increase on the power load of the electrical motor. The item is normally designed for the smaller lathe and can be mounted in the toolpost.

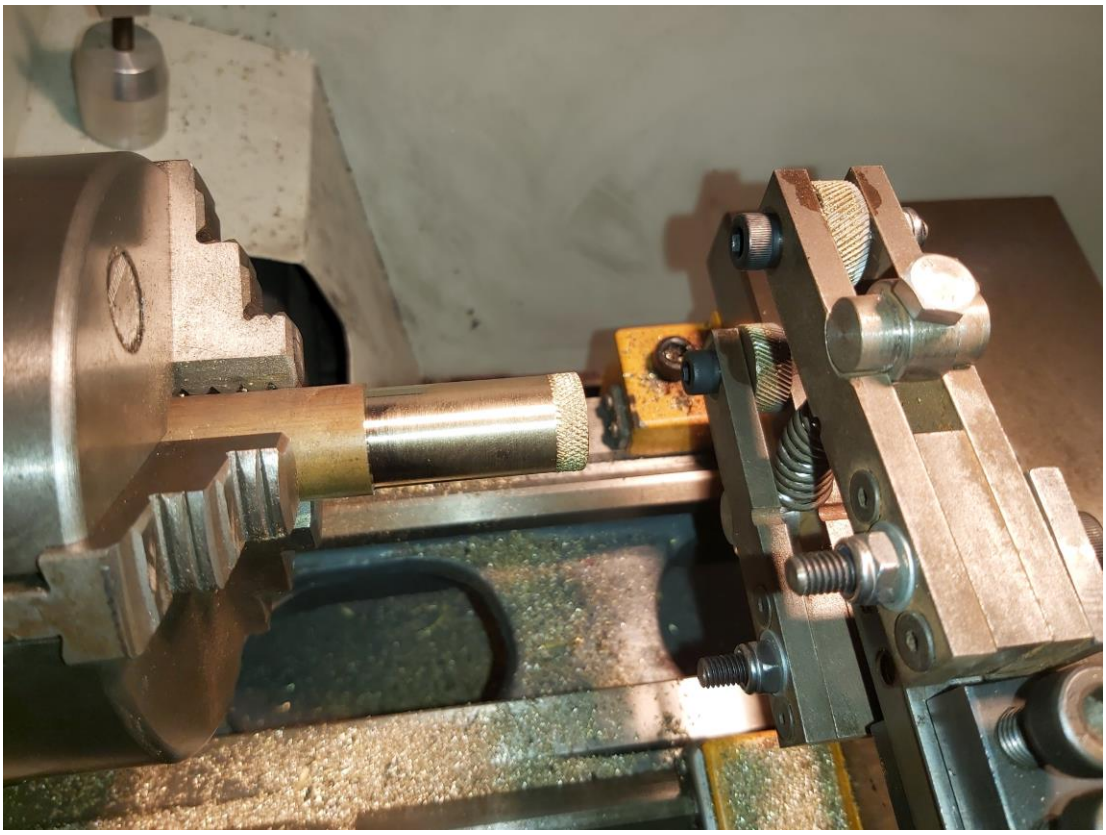
Clamp type.



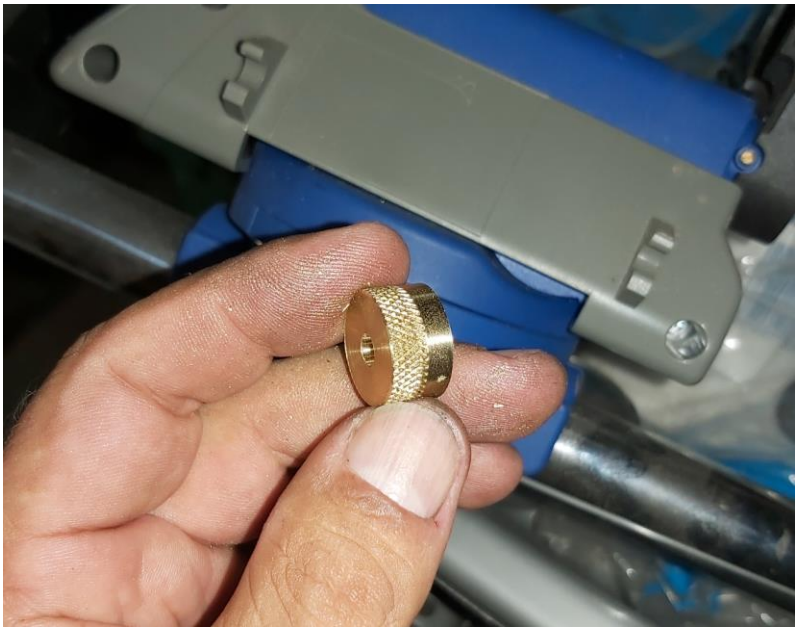
My version of the clamp type. It is mainly made from stock bright mild steel flats and square bar. There are only two parts that were made on the lathe.



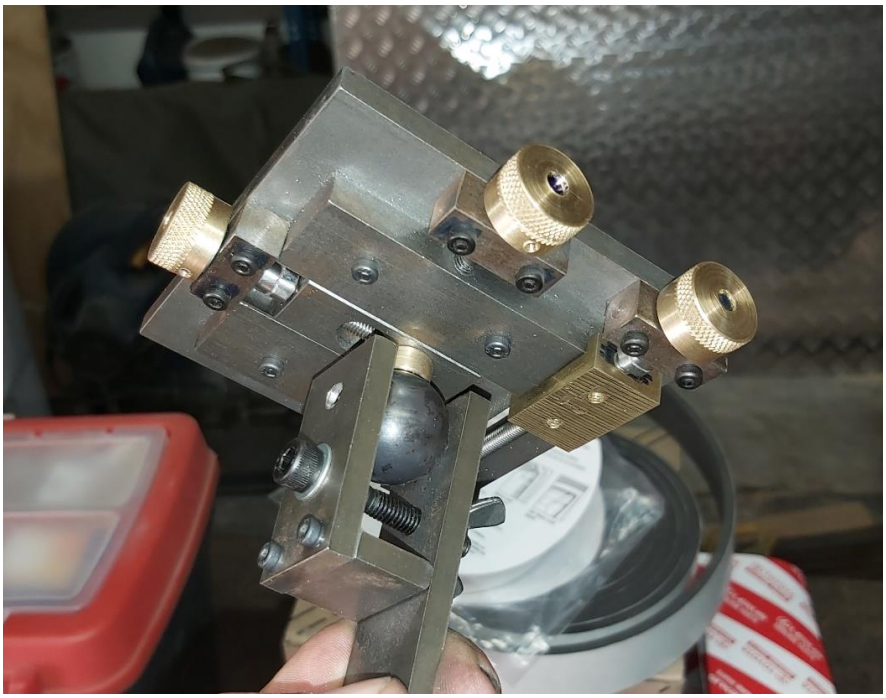
The tool is mounted in the lathe's toolpost.



A 6mm gripping ridge was knurled on this lathe.



The finished knob that was knurled with a gripping ridge.



3 Knurled knobs on my grinding rest project