



# Mill - Tooling - Maintenance

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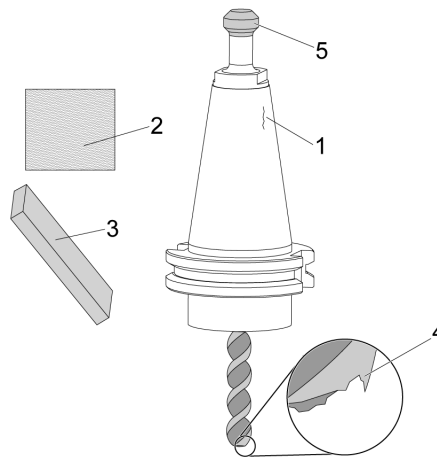


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## Mill - Tooling - Maintenance

Dirty, rusted or damaged toolholders may damage the spindle taper. Before you load a tool into the spindle, be sure to clean and repair the toolholder's taper.



Use a scouring pad [2] to remove light rust and dirt. Use a soft stone [3] to repair small dings or high spots on the taper[1]. Clean the toolholder with a lint-free cloth. Examine cutting tools to make sure that they are not worn or damaged [4]. Inspect the retention knob [5] (pull stud) for damage, wear, and proper torque.

**Note:** Apply a light coat of grease to the retention knob [5] monthly to lubricate the drawbar. If you use through-spindle coolant (TSC), apply grease to the retention knobs weekly.\*\* Retention knobs have a service life of approximately 6000-8000 hours of use. Failure to change the retention knob can result in toolholder and spindle damage if the retention knob breaks.

### Toolholder Damage from a Broken Retention Knob



To help protect the spindle taper from damage, refer to the [VMC - Spindle - Taper - Maintenance](#) procedure.

\*\*The recommended intervals to apply grease to the retention knobs are based on the average user. Adjust your maintenance schedule as needed to keep the retention knobs properly greased.

