

# DID YOU KNOW YOUR TOOLHOLDERS DON'T FIT YOUR CNC MILLS?

J&M Machine ran the tests and what we found is that standard retention knobs cause the toolholder shank to expand at the small end.

Once you install the standard retention knobs into your toolholders, we're willing to bet that they are outside the AT3 spec.



TAPER SHANK TEST FIXTURE\*

\* Patent-pending

## That's why we developed the TAPER SHANK TEST FIXTURE (patent pending).

When toolholders are distorted, the large end is free to move from side to side in the spindle while cutting.

The affects of this movement are:

- ✓ Toolholder run-out
- ✓ Vibration
- ✓ Breakage of tool razor edges

By using this Test Fixture, you'll be able to grade your toolholders to determine which meet or exceed the spec, which are just "OK", and which ones you should replace.

## Why is this important?

- ✓ Proper seating of holders in the spindles
- ✓ Reduces toolholder movement while cutting
- ✓ Increases tool life
- ✓ Ensures better finishes
- ✓ Yields increased feed rates
- ✓ Allows for maintenance of closer tolerances
- ✓ Eliminates run-out and vibration
- ✓ Better balance = less tool life variance
- ✓ Reduces tool breakage
- ✓ Helps guarantee retention knobs are not over-torqued during installation
- ✓ Reduces down-time for machine and spindle maintenance.
- ✓ **Reduces milling costs**

For a distributor near you, drop us an e-mail at [sales@jmmachineinc.com](mailto:sales@jmmachineinc.com)



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