Did You Know Your Toolholders Don't Fit Your CNC Mills?

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

TAPER SHANK TEST FIXTURE* **Patent Pending*

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

That's why we developed the TAPER SHANK TEST FIXTURE.*

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

The affects of this movement are:

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

Why is this important?

- ✓ Allows proper seating of holders in the spindles
- ✓ Reduces toolholder movement while cutting
- ✓ Increases tool life & feed rates
- ✓ Allows for maintenance of closer tolerances
- ✓ Eliminates run-out and vibration
- ✓ Ensures better finishes
- ✓ Insures better balance = less tool life variance
- ✓ Reduces tool breakage
- ✓ Guarantees retention knobs are not over-torqued during installation
- ✓ Reduces down-time for machine and spindle maintenance
- ✓ **Reduces milling costs 10 - 30%**

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