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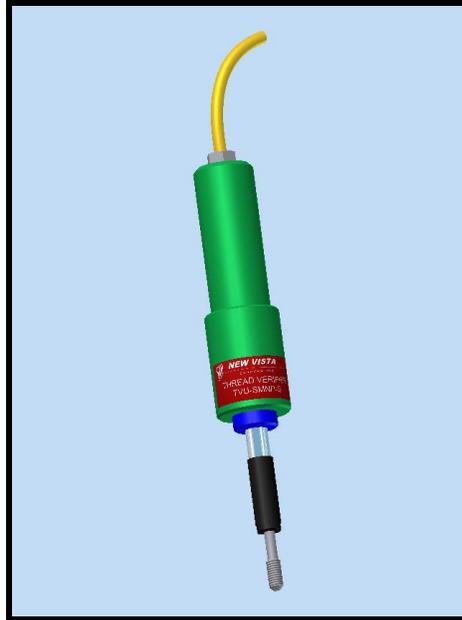
## CATALOG PUBLICATION

### NEW VISTA THREAD-VERIFICATION UNITS (SERIES SMNP)

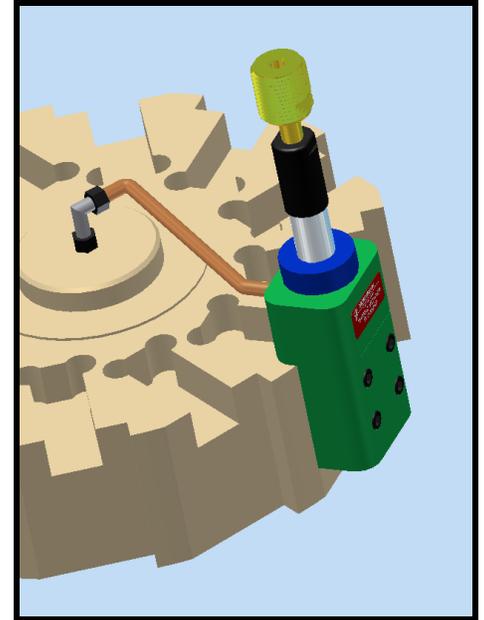
— FOR IN-PROCESS VERIFICATION OF THREADED FEATURES IN CNC LATHES —



**TOOL BLOCK MOUNT**  
CATALOG REF. SMNP-B



**TOOL SLIDE MOUNT**  
CATALOG REF. SMNP-T



**TURRET MOUNT**  
CATALOG REF. SMNP-C

**U.S. PATENT NO. 7,059,055**  
**CANADIAN PATENT NO. 2,521,347**  
**OTHER PATENTS PENDING**

#### **SERIES TVU-SMNP FEATURES:**

- ▶ **Mounts on the turret, tool slide or tailstock of a CNC lathe. Rotary power and advance are provided by the machine tool, which must have a reversing spindle.**
- ▶ Quickly verifies threaded holes (or external threads) by automatically screwing a Thread Gage Member into (or onto) the part
- ▶ The SMNP features a spring-biased spindle and (adjustable) pre-set torque limits.
- ▶ Will check blind holes or external threads accurately for thread length.
- ▶ For “GO” testing, if the threads are missing, too short, undersize, obstructed, the wrong pitch or improperly formed, the Thread Gage Member won’t feed to depth. This creates a “reject” signal.
- ▶ The same SMNP Unit will do either “GO” or “NO GO” verifications. Just the programming is different.
- ▶ The drive “locks up” when the spindle is reversed, so that the gage will not stick in (or on) the thread when short, wrong-size or obstructed threads are encountered.
- ▶ Air purging protects internals from coolant.
- ▶ Does not subject the part (or the spindle) to high force or torque levels.

**PHOTO AT RIGHT:**

The SMNP-500-C shown here mounts directly onto a CNC Lathe's turret. Air sensing is employed in the SMNP; electricals are not run to the turret.



**SPECIFICATIONS AND CAPACITIES:**

<u>Model</u>	<u>Torque Unit</u>	<u>Will Check Thread Sizes</u>	<u>Max. Stroke Up To</u>	<u>Approximate Cycle Time</u> <sup>1</sup>
SMNP-250	S	3-5mm (#4 thru #10)	44mm (1.75 in.)	2 seconds
SMNP-500	L	5-25mm (#10 thru 1")	50mm (2.00 in.)	3 seconds
SMNP-1000	XL	15-44mm (5/8" thru 1-3/4")	57mm (2.25 in.)	4 seconds
SMNP-1500	XXL	30-96mm (1-3/16" thru 3-3/4")	64mm (2.50 in.)	6 seconds

<sup>1</sup> Cycle times shown are for situations where the thread length equals the thread diameter. The longer threads can result in longer cycles. Also, machine tools that cannot rapidly reverse spindle rotation can add to cycle time.

**APPLICATIONS ASSISTANCE:**

- ◆ An Application Form is available from the New Vista website: <http://www.newvistacorp.com/products/thread-verification-chasing-group/units-ready-for-integration/tvu-sth/>. Fill in the blanks and send it to [main@newvistacorp.com](mailto:main@newvistacorp.com). Or you can get help by calling this U.S. telephone number: 410-342-3820, then 0, and then ask for Applications Assistance. We speak English and Spanish. A New Vista Applications Engineer will help you select the proper Thread Unit and Thread Gage or Chasing Members — and work with you if you need a special, or a system.