

CENTROID™

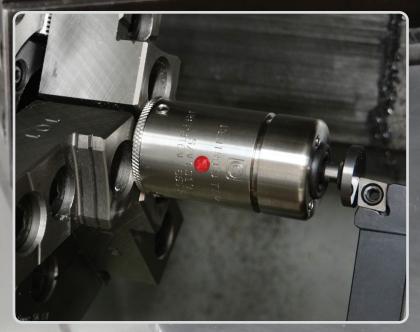
💶 🖊 CNC Tool Touch Probe

TT-2: CNC Tool Touch Probe

- Set Tool Lengths automatically
- Ultra accurate non-conductive kinematic design
- · Save time, increase accuracy
- Magnetic base or hard mounts (T-nut or Shank)
- Works w/ CENTROID & most other CNC's
- Easy to achieve high precision measurements
- · Designed for milling and lathe applications: Knee mills, Bed mills, Machining centers and Routers, Lathes and Turning centers
- In process tool reset for worn out or broken tools
- Set Z part zero positions
- Auto cable detection

Works with all types of tooling and spindles, including non conductive diamond tooling & ceramic spindle bearings. The TT-2 is the best and most accurate way to setup tools. Save time, increase accuracy and increase machine tool efficiency. Perfect for both job shops and production shops. Works with both manual tool change and ATC equipped machine tools. Much faster, more accurate and repeatable than measuring by hand. The TT-2 is completely automatic. With a CENTROID CNC, press "auto measure" and the tool will automatically touch off the TT-2 and set the tool height offset in the tool library. Works with CENTROID CNC controls and most any other CNC's or DRO's with a probe input and probing software.

For use with Milling Machines, Lathes and Routers



Unidirectional repeatability = .00004" (1 micrometer)





TT-2 CNC Tool Touch Probe Specifications

Probing directions X + / - , Y + / - , Z -Unidirectional repeatability 0.00004" (1 µm) 2 sigma at 1 ipm Mounting Orientation Any Probe Height 2.97" (75mm) nominal **Probe Body Diameter** 1.25" (31.8mm) **Mounting Options** Magnetic (stock), 1/2" Shank, or Bolt 0.5" (12.7mm) Mounting shank diameter Carbide Touch off surface mount thread 4-48 Over travel limit angle (X,Y) 10 degrees from vertical Deflection travel limit -Z 0.15" inch max (3.8mm) Minimum "heavy" trigger force * (Z) 50 oz. at center of disc Minimum "heavy" trigger force * (X,Y) 16-22 oz. direction dependent LED status indicator Green = Ready, Red = Triggered Supply voltage 10-30VDC 50MA Switch (FET drain), 30VDC 50MA Output N/O or N/C selectable U.S Patent # 6553682



The TT-2 kit is supplied with a heavy duty external probe cable, and tools for probe body alignment and tip removal. Two optional mounting methods are available separately. The TT-2 comes standard with a magnetic base which can be swapped out for an 1/2" -13 Bolt base (part #12829) or a Straight 1/2" shank mount (part #10970). The Stylus (touch off surface) can easily be customized for special applications as it is mounted with standard 4-48 threads. * Three trigger force levels are available. As shipped trigger force is considered "Heavy" which is excellent for all types of everyday machining applications. Two lighter trip forces (Medium and Light) are available special order for use with small delicate tooling like PC board drill bits and small endmills that require a light trigger force. The TT-2 installation manual is available for download on our website. An internal control board to cabinet bulkhead probe cable is available for connections to the Oak and Allin1DC control boards when required. (part # 11085)





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