

# DATASHEET

## TOUCH TOOLS

Part Numbers: 31283, 31284 & 31278

The Tormach Touch Tool provides a simple and safe method for setting height of your work offset consistent with the tool length offsets, thus allowing use of multiple tools with a single touch off.

Our Touch tools mount directly into R8 or MT-3 spindles. Each tool uses our exclusive TTS mounting system for quick changes and repeatable height offsets.

Unlike other conventional methods for setting Z zero, the Touch Tool is highly accurate, low risk, and requires no experience. It's accuracy is as good as the machine itself and running past the zero point a small amount does not result in damage to the cutting tool or the work. Each Touch Tool includes a wooden storage case.

### USING THE TOUCH TOOL

Using the Touch Tool is a simple three step process:

1. Mount the Touch Tool and select its tool number as the active tool in the machine controller
2. Bring the spindle down to the work until your Touch Tool indicates to its zero reference
3. Enter zero into the Z axis DRO

### OPERATING TIPS

#### *Zeroing the Touch Tool*

The digital indicator (PN 31284) has a special recessed zero/reset button to avoid accidental reset. We recommend setting the zero at the mid-stroke of the indicator plunger and then using zero as your Z reference point.

The mechanical indicator (PN 31283) is used in a similar manner; however, the zero reference should be set at .250" (watch the small needle dial). At this position, both needles point in the same direction. This makes for a visually distinctive position that is easy to recognize at a glance.

#### *Centering the Touch Tools*

The Touch Tool holds the indicator approximately on the spindle center-line making it convenient to touch off inside pockets or cavities if needed. A set of spacer washers is included in case a more accurate center position is needed.



The Touch Tool is available with both mechanical (PN 31283) and digital (PN 31284) dials.



The Touch Tool Indicator Mount (PN 31278) can be used with your existing dial indicator.



[www.TORMACH.com](http://www.TORMACH.com)

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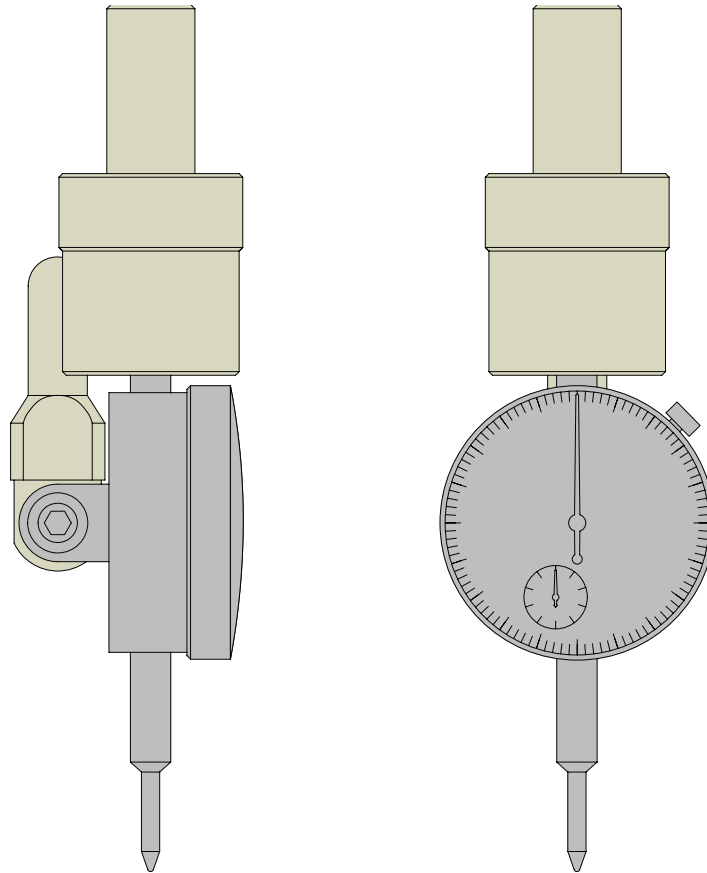
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### TECHNICAL DATA, TOUCH TOOLS



PN	Description	Fig.
31283	TTS Touch Tool w/ Mechanical Dial Indicator (includes wooden storage case)	A
31284	TTS Touch Tool w/ Digital Indicator (includes wooden storage case)	NS
31278	TTS Indicator Mount (does not include indicator)	NS



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