

The low-cost Universal 3-D Indicator is a very precise and versatile measuring instrument for machining centers and EDM machines. The unit is clamped to the spindle or electrode head exactly like a tool and makes exact positioning of the spindle axis to the edges of the workpiece or jig easy. Workpiece “zero” can be set and lengths measured quickly and easily. The workpiece can be approached with the probe from any direction (X-, Y-, or Z-axis). The dial gage always deflects into the same direction and indicates the distance between spindle axis and workpiece edge. As soon as the gage shows zero, the spindle axis is exactly aligned to the workpiece edge — on the first try, without calculating, and without dealing with positive and negative numbers. Operator productivity increases and errors are minimized, saving valuable time and money.



The contact point can be changed without the help of tools, and has a designed-in shear off point to prevent damage in case of overtravel or a crash. An indicator with an integrated #40 taper is available for even easier use. All Universal 3D-Indicators are individually tested and adjusted when assembled to achieve maximum precision.

The Universal 3-D Indicator is also available with a digital display that measures in increments of 0.001 mm / 0.00005 in. It can be easily read from a distance. (i.e. when mounted on a large machining center.) The display is splash proof and can be stored in a machine’s tool magazine.



Technical Specifications: Analog Universal 3D-Indicator

- Accuracy 0.01 mm
- Length without shaft 113 mm (includes short probe tip)
- Shaft dia. 3/4 in.

Technical Specifications: Digital Universal 3D-Indicator

- Smallest unit of measure/repeatability 0.001 mm, accuracy 0.005 mm
- Selectable inch/metric display
- Battery life approx. 3000 hours
- Length without shaft 113 mm (includes short probe tip)
- Shaft dia. 3/4 in.

Ordering Information

TFH80.360	Metric Analog Universal 3D-Indicator, with short probe tip
TFH80.XXX	Inch Analog Universal 3D-Indicator, with short probe tip
TFH80.460.00	Metric/Inch Digital Universal 3D-Indicator, with short probe tip
TFH80.362.00	Replacement metric short probe tip (4 mm diameter)
TFH80.363.00	Replacement metric long probe tip (8 mm diameter)
TFH80.365.20	Replacement inch short probe tip (0.2 in. diameter)
TFH80.365.30	Replacement inch long probe tip (0.4 in. diameter)
TFH40.305.20	Short chuck for #40 taper
TFH80.364.40	Metric Analog Universal 3D-Indicator, with integrated #40 standard taper