



The Universal 3D-Sensor is a very precise and versatile edge-finding, measuring instrument for milling and EDM machines (insulated probe). Made entirely at the HAIMER Germany facility, it is an instrument that no shop can do without. The 3D-Sensor is clamped into a tool holder and inserted into a milling spindle. Once clamped into the machine spindle, the run-out (T.I.R) is fully adjustable to Zero. Then, you are able to find exact positioning of the spindle axis on the edges of the workpiece. This allows for zeros to be set and the length to be measured quickly and easily. You may approach in any direction (X-, Y-, Z- axis – hence the name "3D-Sensor"). When the dial gage shows zero, the spindle axis is exactly on the workpiece edge. Only the HAIMER 3D-Sensor allows for the edge to be found on the first attempt. No calculating of the probe's ball diameter is necessary – just Zero it out!

Problems with mathematics or calculations are eliminated, allowing for fewer operator errors. Our 3D-Sensor is quick and easy, reducing the extra time needed with most edge-finders, increasing the productivity and accuracy of the operator.

Short and long probes are available. The sensor probes may be changed without any tool. No re-calibration of the unit is needed during a sensor probe change over. Simply bring the needle to Zero, and that is your edge with any probe. The accuracy is such that you are able to inspect your parts right on the machine. Tram vises, find the center of your bore, find your edge and inspect parts – it is all possible with the HAIMER 3D-Sensor, The unit has a large overrun distance in connection with the fully tested preset breaking points giving the sensor long life. All Universal 3D-Sensors are individually tested and adjusted when being assembled in order to achieve a maximum of measuring precision.

Item	Shank Ø	Accuracy	Length	Part Number
Sensor Universal Analog, Metric	22 mm	0.01 mm	113 mm	<b>80.360.00</b>
Sensor Universal Analog, Inch	3/4"	0.0004"	1"	<b>80.360.00.IN</b>
Short Probe Tip	0.2"	0.0004"	1"	<b>80.365.20</b>
Long 3-D Probe Tip	0.4"		2.6"	<b>80.365.30</b>
Long Probe Tip	0.4"	0.0004"	2.6"	<b>80.365.30</b>