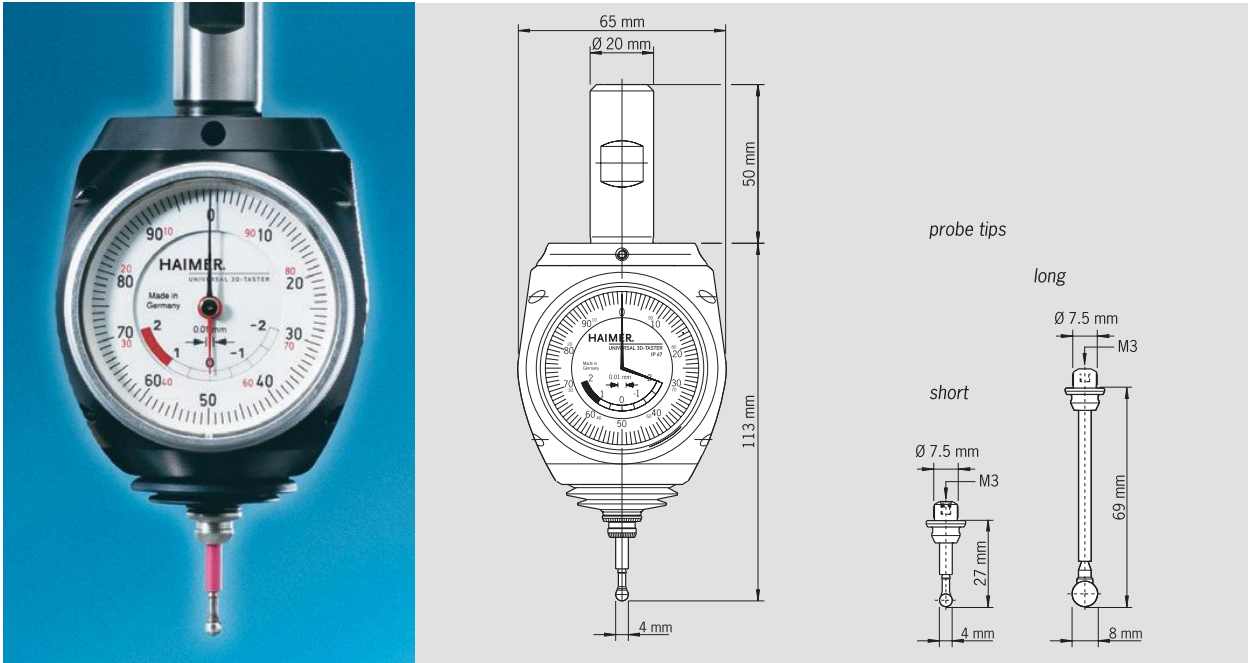


UNIVERSAL 3D-SENSOR METRIC



Universal 3D-Sensor METRIC

The Universal 3D-Sensor is a very precise and versatile measuring instrument for milling and EDM machines (insulated probe).

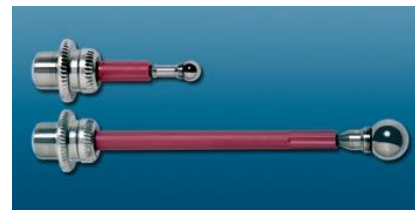
The 3D-Sensor is clamped into a tool holder and inserted into a milling spindle. Once clamped into the machine spindle, the run-out (T.I.R) is fully adjustable to zero. Then, you are able to find exact positioning of the spindle axis on the edges of the workpiece. This allows for zeros to be set and the length to be measured quickly and easily. You may approach from any direction (X-, Y-, Z- axis – hence the name “3D-Sensor”). When the dial gauge 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 try. 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 can be changed without ever needing a tool. No re-calibration of the unit is needed after changing sensor probes.

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 as well as fully tested preset probe breaking points, giving the sensor long life. All Universal 3D-Sensors are individually tested and adjusted during assembly in order to achieve maximum measuring precision.

– IP 67 waterproof



Short probe tip Ø 4 mm
Long probe tip Ø 8 mm

Technical details	
Universal 3D-Sensor with clamping shank Ø 20 mm including short probe tip Ø 4 mm	
Accuracy	0.01 mm
Length without clamping shank	113 mm
Order No. 80.360.00.FHN	
Accessories	
Short probe tip Ø 4 mm	
Order No. 80.362.00	
Long probe tip Ø 8 mm	
Order No. 80.363.00	

Recommended HAIMER tool holders	
	Order No.
Short chuck SK 40	40.305.20
Short chuck SK 50	50.300.20
Short chuck BT 40	40.500.20
Short chuck BT 50	50.500.20
Short chuck HSK-A 50	A50.000.20
Short chuck HSK-E 50	E50.000.20
Short chuck HSK-A 63	A63.000.20
Short chuck HSK-A 80	A80.000.20
Short chuck HSK-A 100	A10.000.20

Technical data subject to change without prior notice