

**HAIMER®**  
Quality Wins.



M A S T E R   C A T A L O G

**HAIMER®**

## QUALITY WINS.

### Our corporate company philosophy

Dear customers and prospective customers,

We are very pleased to present you the new HAIMER Master Catalog. In this compilation, we bundled all HAIMER catalogs and it will be continuously updated with new products and services.

As a system partner all around the machine tool, it is our top priority to provide you with consistent solutions for all of your tooling and machining needs.

HAIMER started as a job shop in 1977. From the very beginning HAIMER has been known as a quality supplier and has lived up to the corporate company philosophy "Quality wins" ever since.

Even today with over 800 employees worldwide, quality still defines our actions.

For our customers we consistently strive for highest values which are at the center of our company philosophy:

- Quality – micron precision through double 100% inspection
- Innovation through 8% R&D-ratio
- Fast and dynamic company culture
- Flexibility through short paths of communication
- Reliability – Delivery performance due to high stock availability
- Best price-performance ratio

In an effort to live by one of our core values that states, "The benchmark for the value of our daily work is the satisfaction of our customers", HAIMER established its first worldwide subsidiary in the Chicago area in 2002. Founded in the garage at the house of the Holden family, HAIMER knew that in order to properly support and satisfy the North American market, a local sales and service center had to be established.

By 2003, the North American operation moved into a 5,000 square foot warehouse in the Chicago suburb of Villa Park, IL. This is where the operation is still today, having now expanded to over 30,000 square feet. In this location, there is a full inventory, showroom, training room, sales, service and support center ready to assist our customers. In addition to our North American headquarters, we have over 20 employees in the United States and Canada living in their territories in order to provide local support. In total, there are over 40 employees in the United States and Canada ready to assist at any time.

In 2014, Haimer North America officially founded Haimer Mexico in Queretaro, Mexico. Currently Haimer Mexico has about 10 employees living throughout the country and we are willing and able to support the Mexican market fully with the HAIMER product.

We are pleased to continuously support you with our passion for precision and innovation, expanding our position as the market leader, true to our corporate philosophy:

### Quality wins.



Franz Haimer

Company Founder and  
CEO Haimer GmbH



Claudia Haimer

Company Founder and  
CEO Haimer GmbH



Andreas Haimer

Managing Director Haimer GmbH  
and President Haimer Group



Brendt Holden

President Haimer USA and  
North America

HAIMER.

# MEASURING TECHNOLOGY



## HAIMER Sensors – Benefits

1.

### No math needed

- Zero on the indicator = Zero on the machine control
- The sensor is pre-calibrated to incorporate the probe tip radius offset

2.

### 3-Axis edge finder

- Tram in your work piece
- Check surface flatness
- The indicator always faces the operator = No more reaching into the machine


3.

### Quickly verify part dimensions

- Part lengths, slot depths, hole diameters and more



- 2-IN-1: 3-axis edge finder and measuring tool
- Reduced set-up time by 65%
- Check for straightness and flatness on all surfaces (including the z-axis)
- Measure lengths and depths



**HAIMER®**  
Quality Wins.

Tooling Technology

Shrinking Technology

Balancing Technology

Measuring and Presetting Technology

## HAIMER 3D Sensor

For simple and precise positioning

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



# Applications

Locating work piece edge in X, Y and Z is easy as 1, 2, 3



Measure your work piece dimensions



Tram in your work piece or fixture to your machine



Measure surface flatness

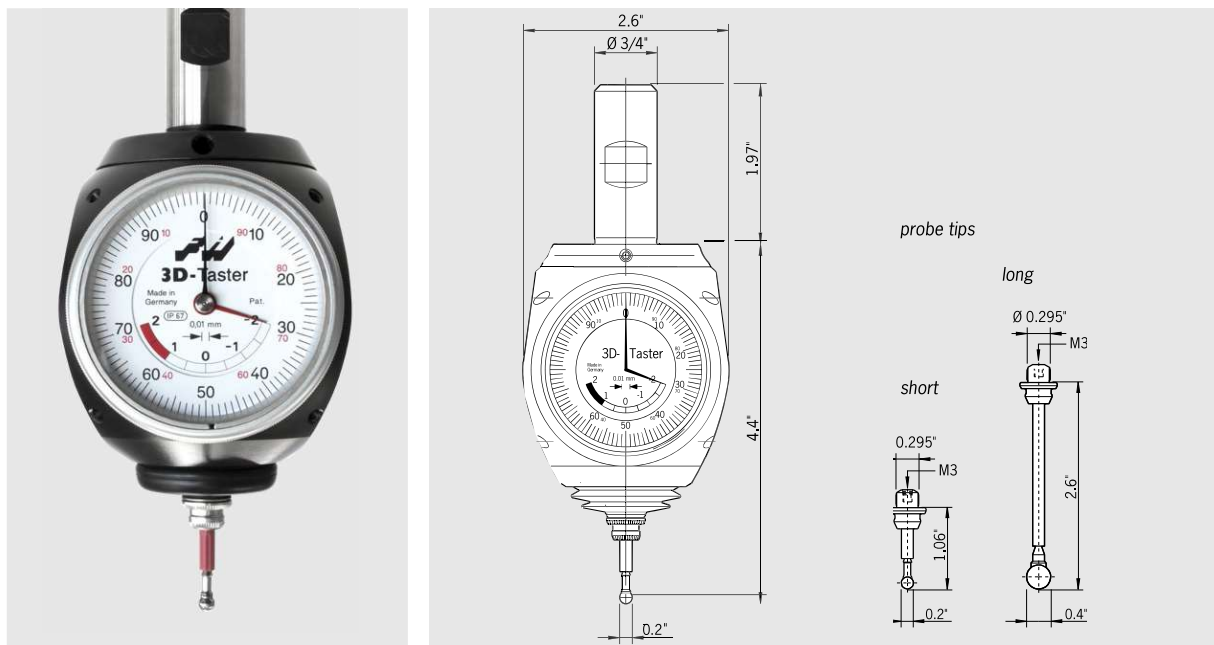


Orientate the machine spindle with the center of a drilled hole or cylindrical O.D.

## Universal 3D-Sensor INCH



## UNIVERSAL 3D-SENSOR INCH



### Universal 3D-Sensor INCH

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.

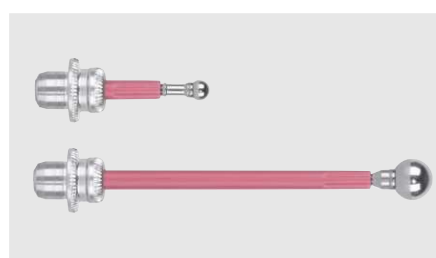
The 3D-Sensor is clamped into a tool holder and inserted into a milling spindle. Once clamped into the machine spindle, the run-out (T.I.R) is fully adjustable to zero. Then, you are able to find exact positioning of the spindle axis on the edges of the work piece. This allows for zeros to be set and 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 work piece 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, thus 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 0.2"  
Long probe tip Ø 0.4"

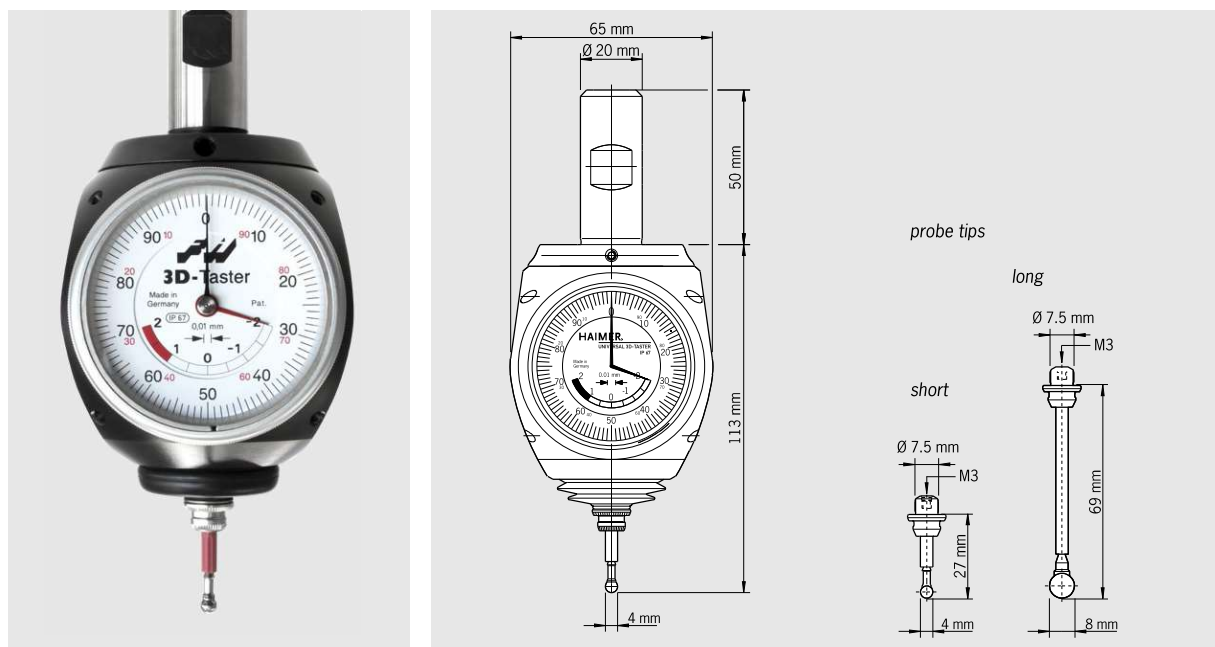
Technical details		Recommended HAIMER tool holders	
Universal 3D-Sensor with clamping shank, diam. 3/4" including short probe tip Ø 0.2"			Order No.
Accuracy	0.0004"	Short chuck CAT 40	40.720.32
Length without clamping shank	4.4"	Short chuck CAT 50	50.720.32
<b>Order No. 80.360.00.IN</b>		Short chuck HSK-A63	A63.020.32
<b>Accessories</b>		Short chuck HSK-A100	A10.020.32
Short probe tip Ø 0.2"		Please order ER collet along with above holders:	
<b>Order No. 80.365.20</b>		ER32 3/4" collet	81.320.20
Long probe tip Ø 0.4"		(additional taper styles please see ER or HG collet chuck section)	
<b>Order No. 80.365.30</b>			

# Universal 3D-Sensor METRIC





## 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).

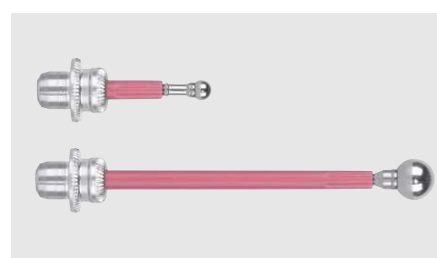
The 3D-Sensor is clamped into a tool holder and inserted into a milling spindle. Once clamped into the machine spindle, the run-out (T.I.R) is fully adjustable to zero. Then, you are able to find exact positioning of the spindle axis on the edges of the work piece. This allows for zeros to be set and 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 work piece edge.

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– IP 67 waterproof



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

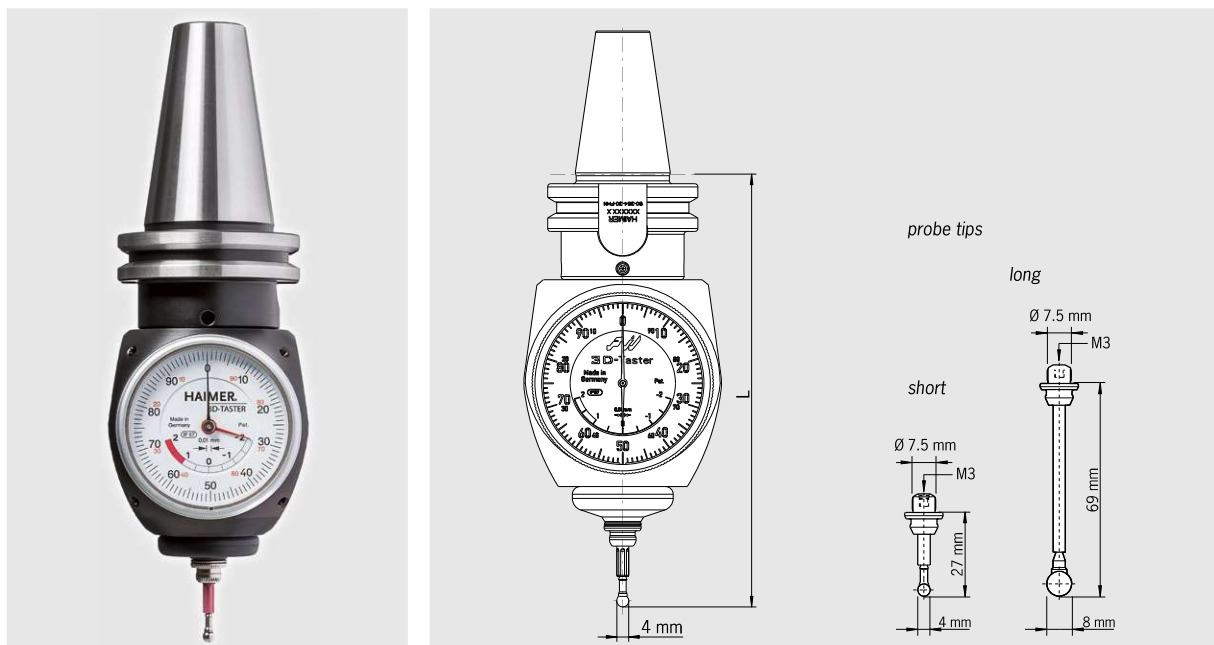
Technical details	
Universal 3D-Sensor with clamping shank Ø 20 mm including short probe tip Ø 4 mm	
Accuracy	0.01 mm
Length without clamping shank	113 mm
<b>Order No. 80.360.00.FHN</b>	
Accessories	
Short probe tip Ø 4 mm	
<b>Order No. 80.362.00</b>	
Long probe tip Ø 8 mm	
<b>Order No. 80.363.00</b>	

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

## Universal 3D-Sensor with integrated adapter



## UNIVERSAL 3D-SENSOR WITH INTEGRATED ADAPTER



### Universal 3D-Sensor with integrated adapter

The integrated taper (ASME B5.50, CAT40, DIN 69871, SK40 or JIS B6339, BT40) guarantees the easiest handling and maximum comfort.

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 work piece. 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 work piece 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.

For safety, the unit has a large overrun distance as well as fully tested preset probe breaking points, giving the sensor a longer life. Universal 3D-Sensors are individually tested and adjusted when being assembled in order to achieve maximum measuring precision.

– IP 67 waterproof

### Technical details

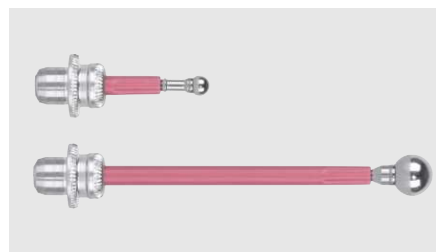
#### Universal 3D-Sensor with integrated adapter including short probe tip Ø 4 mm

Accuracy	0.01 mm	
Length without clamping shank	113 mm	
<b>Article</b>	<b>Order No.</b>	<b>L [mm]</b>
With integrated adapter SK 30	80.364.30.FHN	144.0
With integrated adapter SK 40	80.364.40.FHN	143.9
With integrated adapter BT 30	80.365.30.FHN	143.5
With integrated adapter BT 40	80.365.40.FHN	143.9
With integrated adapter CAT 40	80.367.40.FHN	144.0

### Accessories

Short probe tip Ø 4 mm  
Order No. 80.362.00

Long probe tip Ø 8 mm  
Order No. 80.363.00

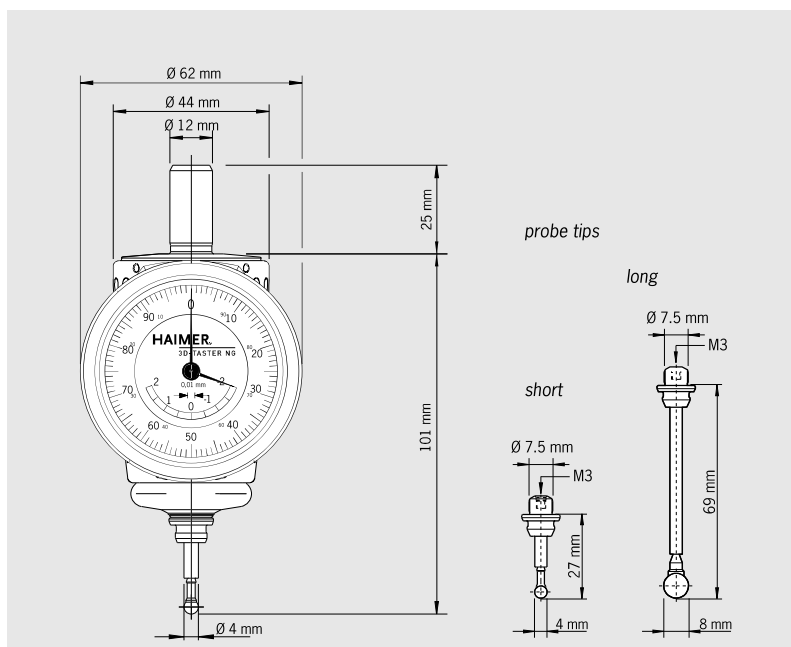


Short probe tip Ø 4 mm  
Long probe tip Ø 8 mm

## 3D-Sensor New Generation



## 3D-SENSOR NEW GENERATION METRIC



### 3D-Sensor New Generation

The 3D-Sensor NG is a further development of our globally accepted and proven Universal 3D-Sensors. Its distinguishing features include improved mechanics and a new, compact design.

#### Advantages:

- Compact and easy to grip casing will not restrict working area
- Precise display of spindle position with large 1/100 mm dial gauge (2 hands)
- Utmost precision of 0.01 mm (when using original HAIMER probe tips)
- Overrun distance indicated on display (safety distance)
- IP 67 waterproof

#### Functions:

- Aligns machine spindle to work piece and reference edges (x-, y-, z-axis)
- Sets zeros
- Centers bores and shafts
- Measures lengths and depths
- Checks straightness and levelness of surfaces
- Aligns work pieces and vices
- Quick, without calculations, eliminating mathematical errors

#### Technical details

3D-Sensor NG with clamping shank Ø 12 mm including short probe tip Ø 4 mm

Accuracy 0.01 mm

Length without clamping shank 100 mm

Order No. 80.360.00NG

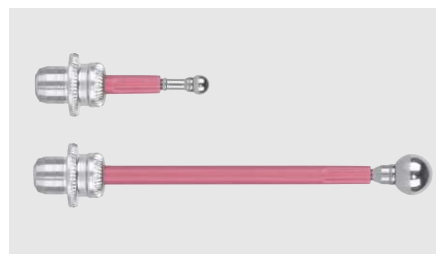
#### Accessories

Short Probe tip Ø 4 mm

Order No. 80.362.00

Long Probe tip Ø 8 mm

Order No. 80.363.00



Short probe tip Ø 4 mm

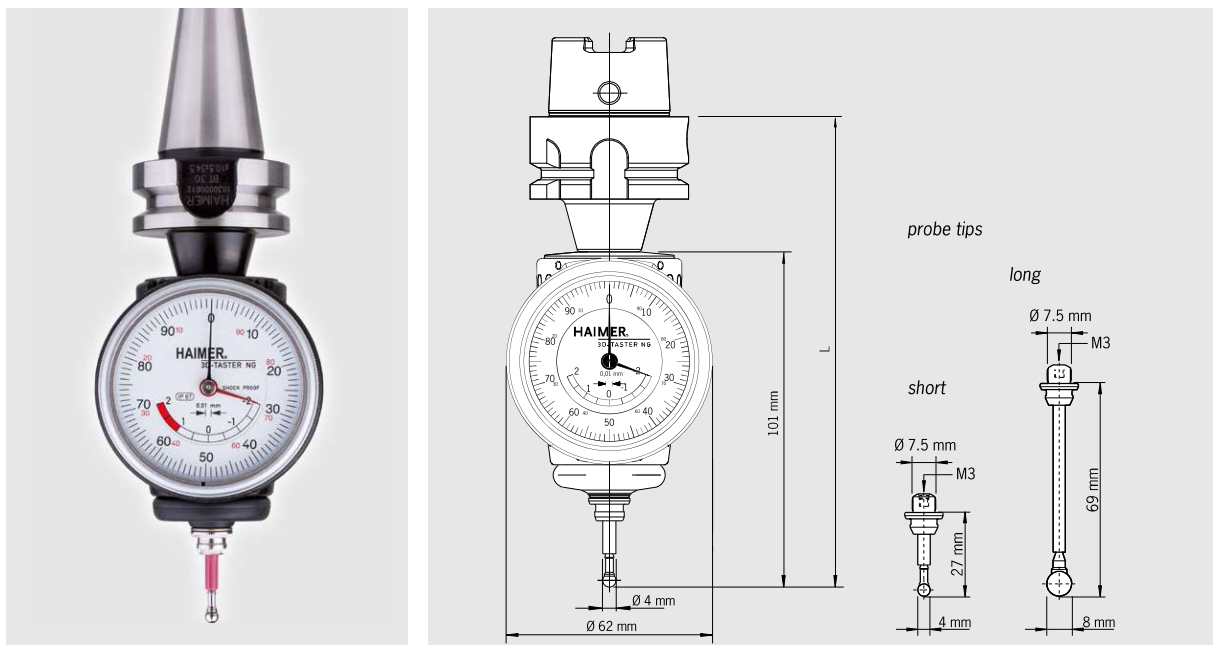
Long probe tip Ø 8 mm



## 3D-Sensor NG with integrated short adapter



## 3D-SENSOR NG WITH INTEGRATED SHORT ADAPTER



### For interfaces SK30, BT30, HSK-25/32/40/50/63

Easily measures the work piece while taking up less space.

#### Version:

- With integrated short adapter available in taper sizes SK30, BT30, HSK-A32/40/50/63, HSK-E25/32/40/50
- Manual runout adjustment no longer necessary! Preset runout accuracy at the probe tip of 0.01 mm
- Measuring accuracy: 0.01 mm
- Short and long probe tips available
- No re-calibration of the sensor is needed
- Increased overrun distance
- IP 67 waterproof

#### Application:

- For small milling and EDM machines (insulated probe)
- For work piece reset and length measuring
- Approach from any direction (X-, Y-, Z-axis)

#### Technical details

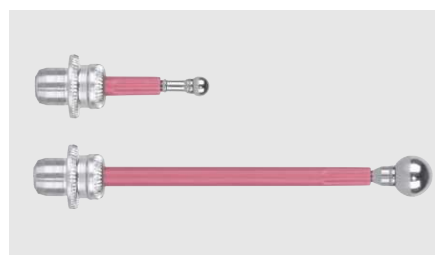
##### 3D-Sensor NG with integrated short adapter including short probe tip Ø 4 mm

Accuracy	0.01 mm	
Article	Order No.	L [mm]
3D-Sensor NG with short adapter HSK-E25	80.363.E25NG	126.5
3D-Sensor NG with short adapter HSK-E32	80.363.E32NG	136.5
3D-Sensor NG with short adapter HSK-E40	80.363.E40NG	136.5
3D-Sensor NG with short adapter HSK-E50	80.363.E50NG	143.5
3D-Sensor NG with short adapter HSK-A32	80.363.A32NG	136.5
3D-Sensor NG with short adapter HSK-A40	80.363.A40NG	136.5
3D-Sensor NG with short adapter HSK-A50	80.363.A50NG	143.5
3D-Sensor NG with short adapter HSK-A63	80.363.A63NG	147.0
3D-Sensor NG with short adapter SK30	80.364.30NG	136.1
3D-Sensor NG with short adapter BT30	80.365.30NG	135.5

#### Accessories

Short Probe tip Ø 4 mm  
Order No. 80.362.00

Long Probe tip Ø 8 mm  
Order No. 80.363.00



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