



3D Tool Setting Probe Z-3D





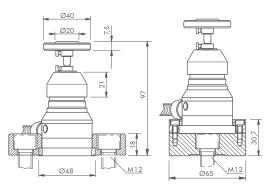
Z-3D | 3D Tool Setting Probe | Tactile tool setting system with cable connection

Universal standard system with proven measuring mechanism

- Tool length measurement
- Tool radius measurement •
- Tool breakage detection •
- Thermal compensation of • the machine tool

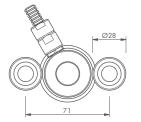
Your benefit:

- Fast tool breakage detection
- No subsequent damage due to tool breakage
- Fast ROI •
- No-wear optoelectronic measuring mechanism
- Compact and robust design

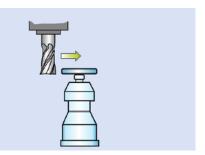




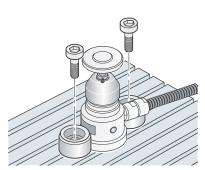
Measurement of tool length





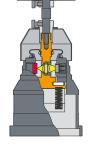


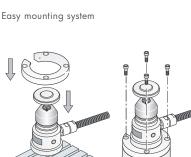
Measurement of tool radius



Measuring mechanism

The trigger signal is generated through a wear-free optical sensor that ensures high reliability.





Option: Compact mounting system

focus on productivity

Technical data Protection class

Power Supply

Repeatability

Max. stroke

HTL Output STAT

HTL Output STAT

Measuring force

Min. tool diameter

Storage/Operating temperature

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1 μm 2σ

3 mm *

* Depending on tool geometry and material, probing force must not result in damage of tool.

 $U_B = 10 - 30V / 100 \text{ mA}$

 $U_L \le 2,8V (I_L \le 20 \text{ mA})$

5 mm in all directions

 $U_{H} \ge [U_{B} - 4V] (I_{H} \le 20 \text{ mA})$

axial approx. 8 N, radial approx. 1 N

-20 °C ... 70 °C | +10 °C ... 40 °C

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