Z-Nano
Tool Setting Probe

Tool Measurement

- Hardwired
- Linear Working Principle
- Wear-Free Measuring Mechanism

- Tool Breakage Detection
- Tool Length Measurement
- Axes Compensation

Tool Setting Probe Z-Nano

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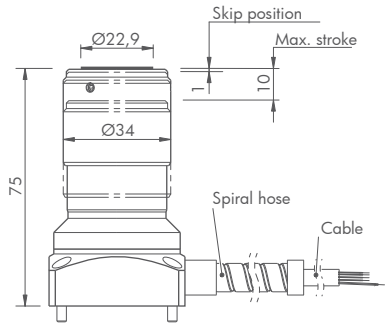
Z-Nano | Tool Setting Probe | Tactile tool setting system with cable connection

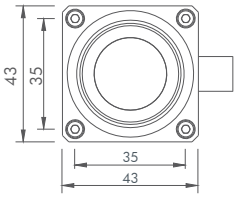
Robust and extremely precise – Tool setting probe with linear working principle for monitoring of smallest tools

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



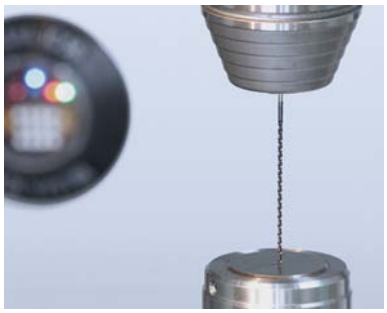
Your benefit:

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



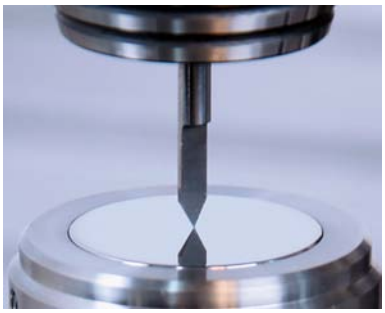
Linear working principle

Due to the linear working principle the probe provides a minimal and torque-free measuring force. Even the most sensitive and smallest tool diameters can be measured extremely precise.

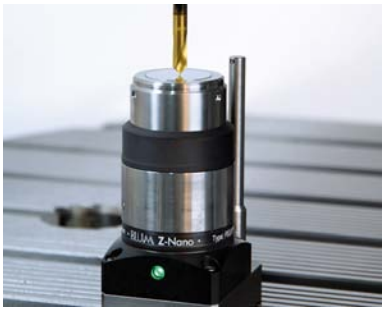


Fast tool breakage detection

Tool length measurement



Exchangeable measuring surface



Many accessories available: chip protection, cleaning nozzle, mounting system, etc.

Technical data

Protection class	IP68
Power Supply	U_B = 12- 30V stabilized direct voltage / 100 mA
Output	12 - 30V / 50 mA
Approach direction	-Z
Meas. force vertical mounting*	2,2 N | with chip protection: 2,4 N
Meas. force horizontal mounting*	3,0 N | with chip protection: 3,2 N
Max. stroke	10 mm
Trigger point	1 mm
Repeatability	0,5 µm 2σ (Standard) | 0,2 µm 2σ (HP)
Max. probing speed	2 m/min
Min. tool diameter**	> 0,1 mm, with chip protection 0,2 mm
Mass	750 g (incl. 10 m cable)
Storage/Operating temperature	-20 °C ... -70 °C | +10 °C ... +50 °C

* Measuring force with chip protection & additonal spring: see data sheet
** Depending on tool geometry and material, probing force must not result in damage of tool.

Version 09|2011, Subject to technical change without notice

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