



Z-Nano RC Tool Setting Probe



Tool Measurement



Radio Transmission



Linear Working Principle



Wear-Free Measuring Mechanism



Tool Breakage Detection



Tool Length Measurement



Axes Compensation

Tool Setting Probe Z-Nano RC

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Z-Nano RC | Tool Setting Probe | Tactile tool setting system with BRC radio transmission

Wireless and extremely precise – Flexible tool setting probe with linear working principle for monitoring of smallest tools

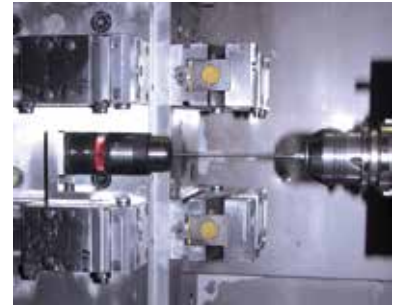
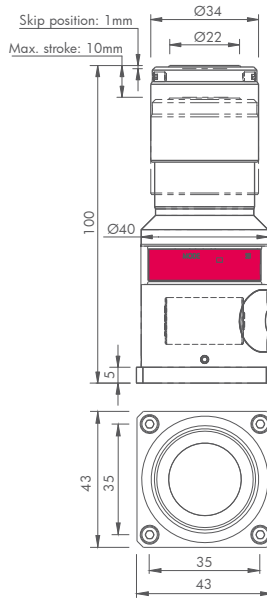
- Tool breakage detection
- Tool length measurement
- Thermal compensation of the machine tool
- Solution for machines with pallet changers, where line of sight between probe and receiver is blocked or intermittent

Your benefit:

- Extremely fast tool breakage detection
- No subsequent damage due to tool breakage
- Fast ROI
- No-wear optoelectronic measuring mechanism
- Easy pairing procedure between probe and receiver
- Use of up to 6 measuring systems with one receiver
- 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 on horizontal machining centre with pallet changer



Sequential use of up to 6 measuring systems with one radio receiver.

Technical data

Protection class	IP68
Approach directions	-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 2
Max. probing speed	2 m/min
Min. tool diameter**	> 0,1 mm, with chip protection: 0,2 mm
Signal transmission	Radio (BRC Technology)
Frequency band	2,4000 – 2,4835 GHz
Signal transmission Range	0 dBm 5 m
Mass	290 g
Battery (2 pieces)	Soft Lithium LS14250 (1/2 AA, 3,6V) 1200 mAh
Storage/Operating temperature	-20 °C ... -70 °C +10 °C ... +50 °C

* Measuring force with chip protection & additional spring: see data sheet

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



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



Exchangeable measuring surface



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