

Tool Setting Probe Z-Nano IR



Skip position: 1mm Max. stroke: 10mm

Ø40

Fast tool breakage detection on horizontal machining center with pallet changer



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



Exchangeable measuring surface

Extremely precise infrared probe -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

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.



Technical data

Protection class	IP68
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
Max. probing speed	2 m/min
Min. tool diameter**	> 0,1 mm, with chip protection: 0,2 mm
Signal transmission Range	Infrared \pm 60 in Z, 360° in X/Y
Mass	290 g
Battery (2 pieces)	Saft Lithium LS14250 (1/2AA, 3,6V) 1200 mAh
Storage/Operating temperature	-20 °C70 °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.



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