



Z-Pico Tool Setting Probe



Tool Measurement



Hardwired



Linear Working Principle



Wear-free Measuring Mechanism



Tool Breakage Detection



Tool Length Measurement



Axes Compensation



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Tool Setting Probe Z-Pico

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

Ultra-compact and extremely precise – tool setting probe with linear working principle for monitoring the smallest tools in micro-machining applications

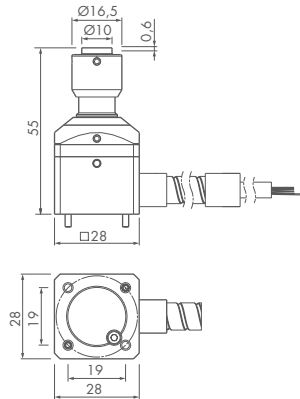
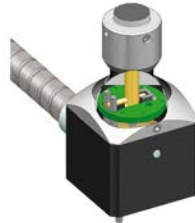
- Tool breakage detection
- Tool length measurement
- Machine axes compensation

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



Extremely low measuring force enables the measurement of most sensitive tools

Technical data

Protection class	IP67
Power supply	U _B = 12 ... 30 V stabilized direct voltage/100 mA
Outputs	12 ... 30 V/50 mA
Approach direction	-Z
Measuring force	0.9 N
Max. stroke	5 mm
Trigger point	0.6 mm
Repeatability	1 µm 2σ
Mass	600 g (incl. 10 m cable)
Max. probing speed	2 m/min
Min. tool diameter *	> 0.05 mm

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



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Blum-Novotest Ltd.

Unit 15 Granary Wharf Business Park
Wetmore Road, Burton upon Trent
Staffordshire, DE14 1DU
United Kingdom
Phone: +44 1283 569691
Fax: +44 1283 563687
info@blum-novotest.co.uk

Blum-Novotest, Inc.

4144 Olympic Boulevard
Erlanger, KY 41018
USA

Phone: +1 (859) 344 6789
Fax: +1 (859) 344 6799
solutions@blum-novotest.us