

Tool Setting Probe Z-Nano



Fast tool breakage detection

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

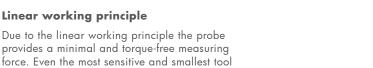
- Tool breakage detection
- Tool length measurement
- Axes compensation
- Temperature compensation

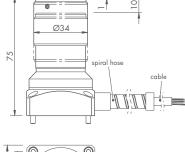
Your benefit:

- Extremely fast tool breakage detection
- No subsequent damage due to tool breakage
- Fast ROI
- No-wear, optoelectronic measuring mechanism

diameters can be measured extremely precise.

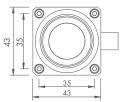
• Compact and robust design





Skip position

Max. stroke







Tool length measurement



Exchangeable measuring surface



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

Technical data

Protection class	IP68
Power supply	$U_B = 12 - 30V$ stabilized direct voltage $/ 100$ mA
Outputs	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 °C70 °C +10 °C +50 °C

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



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