



## Tool Setting Probes Z-Series

Robust and economic – the compact tool setting probes are extremely economic solutions for fast tool breakage detection and highly precise length measurements in machine tools. The well-proven design and the wear-free optoelectronic measuring mechanism with linear working principle, provide the highest reliability under the most adverse manufacturing conditions.



Hardwired



Tool Length Measurement



Infrared Transmission



Axes Compensation



Radio Transmission



Linear Working Principle



Wear-free Measuring Mechanism



Tool Breakage Detection

Z-Pico – for micro-machining  
(from 50  $\mu\text{m}$  tool diameter)

Z-Nano – tool measurement with up to  
2 m/min (from tool  $\varnothing$  0.1 mm)



Optional: Chip protection & blowing nozzle

Z-Nano IR & Z-Nano RC –  
the wireless versions