



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



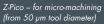
Linear Working Principle



Wear-free Measuring Mechanism



Tool Breakage Detection



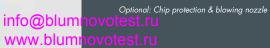


Z-Nano – tool measurement with up to 2 m/min (from tool Ø 0.1 mm)





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



Blum Z-Nano · Type (89)