ZX-Speed IR
3D Tool Setting Probe

Tool Measurement

- Infrared Transmission
- Multidirectional
- Wear-free Measuring Mechanism

- Tool Breakage Detection
- Tool Length Measurement
- Tool Radius Measurement
- Axes Compensation

3D Tool Setting Probe ZX-Speed IR

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ZX-Speed IR | 3D Tool Setting Probe | Tactile tool setting system with infrared transmission

Wireless 3D tool setting probe for precise tool measurement

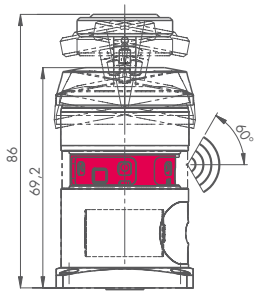
- Tool breakage detection
- Tool length measurement
- Tool radius measurement
- Axes compensation

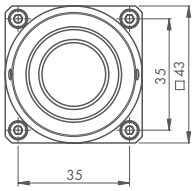
Your benefit:

- Reliable measurement with a wide range of tool types and sizes
- Superior precision due to latest measuring mechanism technology
- No subsequent damage due to tool breakage
- Fast ROI
- Use of two measuring systems with one IR receiver
- Extended battery life
- Compact and robust design

Optoelectronic measuring mechanism

- Skip signal is generated via shading of an interior miniature light barrier
- Wear-free signal generation
- Enables higher measuring speeds and accuracy than with conventional probes

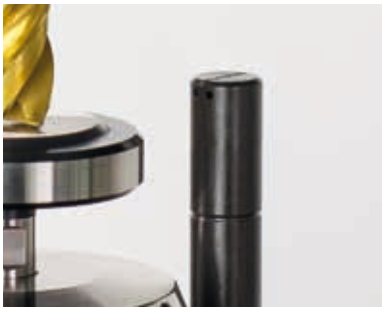




Tool length measurement

Tool radius measurement

Sequential use of two measuring systems with one infrared receiver



Optional nozzle for tool cleaning

Technical data

Protection class	IP68
Approach direction	±X, ±Y, -Z
Messkraft in XY | Z	1.6 N | 5.2 N
Max. deflection in XY | Z	±11° | 6 mm
Repeatability	0.4 µm 2σ
Max. probing speed	2 m/min
Min. tool diameter	1 mm *
Mass	280 g
Signal transmission | Range	Infrared | ±60° in Z, 360° in X/Y
Battery (2 pieces)	Saft Lithium LS14250 (½ AA, 3.6 V) 1200 mAh

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

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