



TC53-20 3D Tool Setting Probe



Tool Measurement



Infrared Transmission



shark360 Technology



Wear-free Measuring Mechanism



Modular System



Tool Breakage Detection



Tool Length Measurement



Tool Radius Measurement



Axes Compensation



3D Tool Setting Probe TC53-20

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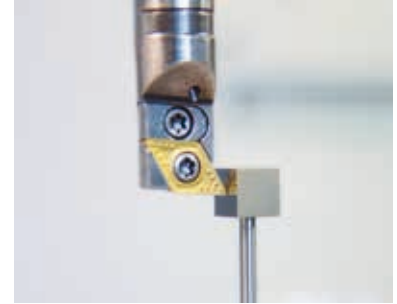
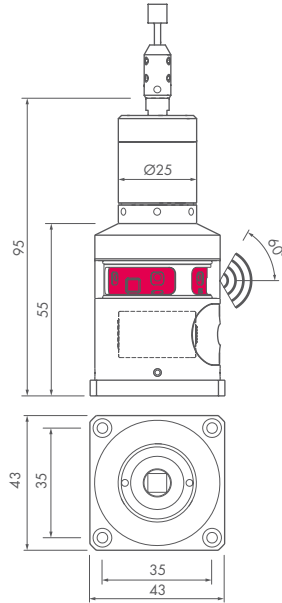
TC53-20 | 3D Tool Setting Probe | Tactile tool setting system with infrared transmission

Extremely precise & modular IR probe – customizable system with revolutionary shark360 measuring mechanism

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

Your benefit:

- Customized adaptations are easily developed
- Superior precision due to patented **shark360** measuring mechanism
- No subsequent damage due to tool breakage
- Fast ROI
- No-wear, optoelectronic measuring mechanism
- Use of two measuring systems with one IR receiver
- Extended battery life
- Compact and robust design



Measurement of turning tool



Tool radius measurement with special probe configuration

DUO-Mode

Sequential use of two measuring systems with one infrared receiver.



Various accessories available

Technical data

Protection class	IP68
Approach direction	±X, ±Y, -Z
Measuring force in XY Z	2.3 N 5.9 N
Max. deflection in XY Z	±15° 5 mm
Repeatability	0.4 µm 2σ
Max. probing speed	2 m/min
Min. tool diameter	1 mm *
Signal transmission Range	Infrared ±60° in Z, 360° in X/Y
Mass	325 g (Without accessories, e.g. extension, angle)
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



shark360 measuring mechanism



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