

3D Tool Setting Probe **\*\***53-20

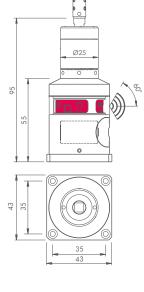


# Extremely precise & modular IR probe – customizable system with revolutionary shark360 measuring mechanism

- Tool length measurement
- Tool radius measurement
- Tool breakage detection
- Thermal compensation of the machine tool

#### Your benefit:

- · Customized adaptions can be 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
- Compact and robust design





Example: Measurement of turning tool

Tool radius measurement with special probe configuration

#### **DUO-Mode**

Sequential use of two measuring systems with one infrared receiver.



## Technical data

Protection class	IP68
Approach direction	±X, ±Y, -Z
Measuring force in XY   Z	1,3 N   5,9 N
Max. deflection 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   $\pm$ 60° in Z, 360° in X/Y
Mass	325 g (Without accessories, e.g. extension, angle)
Battery (2 pieces)	Saft Lithium LS14250, (½ AA, 3,6V) 1200 mAh
Storage/Operating temperature	-20 °C70 °C   +5 °C +50 °C

 $<sup>^{</sup>st}$  Depending on geometry and material of tool, probing force must not result in damage of tool



Various accessories available



**shark**360 measuring mechanism



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