



TC53-10 Touch Probe



Workpiece Measurement



Infrared Transmission



shark360 Technology



Wear-free Measuring Mechanism



Modular System



Single & Mass Production



Axes Compensation



Pulling Measurement

Touch Probe TC53-10

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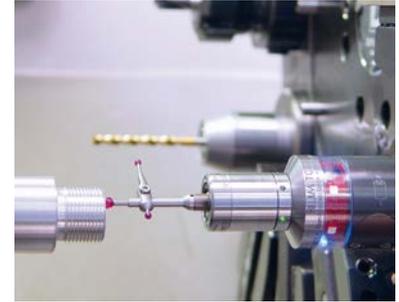
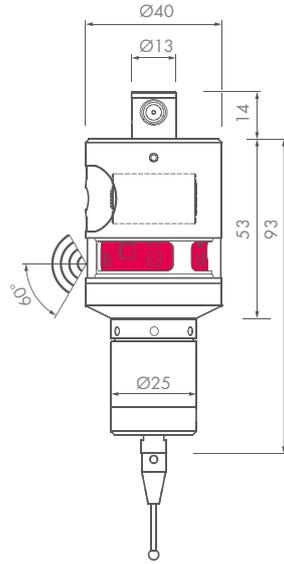
TC53-10 | Touch Probe | Tactile workpiece measuring system with infrared transmission

Modular and compact – touch probe for custom measuring tasks with revolutionary shark360 measuring mechanism

- Special measuring tasks with a wide range of accessories
- Pulling measurements
- Thermal compensation of the machine tool

Your benefit:

- Customized adaptations are easily developed
- Superior precision due to patented **shark360** measuring mechanism
- No-wear, optoelectronic measuring mechanism
- Use of two measuring systems with one IR receiver
- Extended battery life
- Precise measurement even with coolant
- Proven and robust design



Workpiece measurement on turning machine



Fast workpiece measurement in rotary transfer machine

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 (LF 0.4 N * 2.0 N *)
Max. deflection in XY Z	±15° 5 mm
Max. acceleration	50 m/s ² **
Repeatability	0.4 µm 2σ
Max. probing speed	2 m/min
Mass	305 g (Without accessories, e.g. extension, angle)
Signal transmission Range	Infrared ±60° in Z, 360° in X/Y
Battery (2 pieces)	Saft Lithium LS14250, (½ AA, 3.6 V) 1200 mAh
Tool holder	BTH 25 (HSK, SK, BT, VDI, ...)

* Stylus L = 30 mm LF: Low Force

** With accessories (e.g. extension, angle): max. acceleration 10 m/s²



Various accessories available



shark360 measuring mechanism



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