



TC54-10 Touch Probe



Workpiece Measurement



Tool Measurement



Infrared Transmission



shark360 Technology



Wear-Free Measuring Mechanism



Single & Mass Production



Axes Compensation



Pulling Measurement



Tool Length Measurement



Tool Radius Measurement



Tool Breakage Detection

Touch Probe TC54-10

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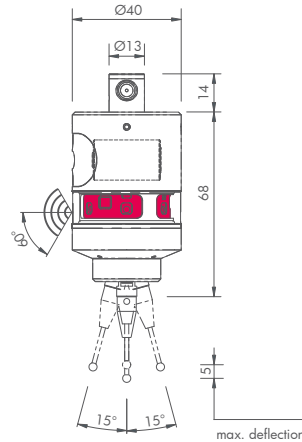
TC54-10 | Touch Probe | Tactile workpiece & tool measuring system with infrared transmission

Compact touch probe with revolutionary shark360 measuring mechanism

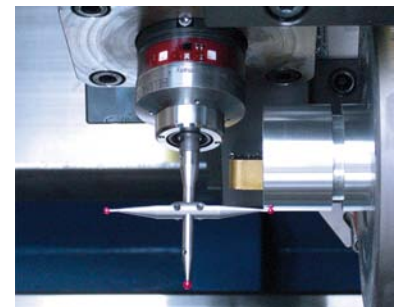
- Workpiece measurement and tool setting in turning and milling machines
- Application in turret
- Pulling measurements

Your benefit:

- Measuring speed up to 2 m/min
- 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
- Shortened design
- Precise measurement even with coolant
- Compact and robust design



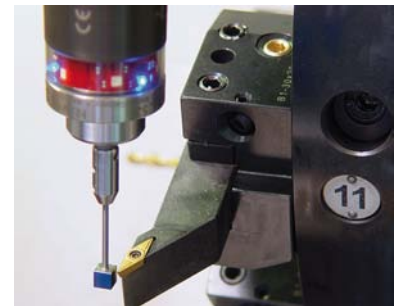
Example: Pulling measurement



Workpiece measurement in turning machine

DUO-Mode

Sequential use of two measuring systems with one infrared receiver.



Tool setting in turning machine

Technical data

Protection class	IP68
Approach direction	$\pm X, \pm Y, \pm Z$
Measuring force in XY Z	1,3 N / 0,9 N / 0,7 N / 0,5 N* 5,9 N
Measuring force (LF) in XY Z	0,4 N / 0,3 N / 0,2 N / 0,17 N* 2,0 N
Max. deflection XY Z	$\pm 15^\circ$ 5 mm
Max. acceleration	50 m/s ²
Repeatability	0,4 μm 2 σ
Max. probing speed	2 m/min
Mass	230 g
Signal transmission Range	Infrared $\pm 60^\circ$ in Z, 360° in XY
Battery (2 pieces)	Saft Lithium LS14250, (1/2 AA, 3,6V) 1200 mAh
Tool holder	BTH 25 (HSK, SK, BT, VDI, ...)
Storage/Operating temperature	-20 °C ... +50 °C +5 °C ... +50 °C

* Stylus L= 30 mm / 50 mm / 75 mm / 100 mm LF: Low Force



shark360 measuring mechanism

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