



TC52 Touch Probe



Workpiece Measurement



Infrared Transmission



Multidirectional



Wear-free Measuring Mechanism



Single & Mass Production



Contour Measurement



Axes Compensation

Touch Probe **TC52**

BLUM
focus on productivity



TC52 | Touch Probe | Tactile workpiece measuring system with infrared transmission

For small machining centres – compact touch probe with multidirectional measuring mechanism

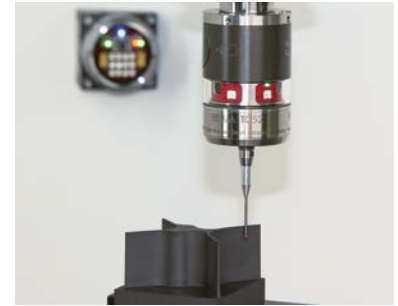
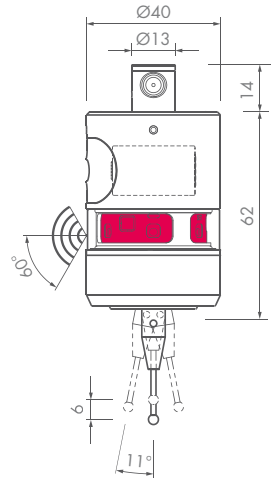
- Detection of workpiece position
- Correction of workpiece orientation
- Thermal compensation of the machine tool
- Contour measurement

Your benefit:

- Measuring speed up to 2 m/min
- Precise non-lobing touch characteristics
- 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

DUO-Mode

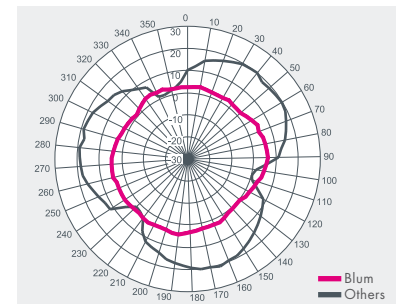
Sequential use of two measuring systems with one infrared receiver.



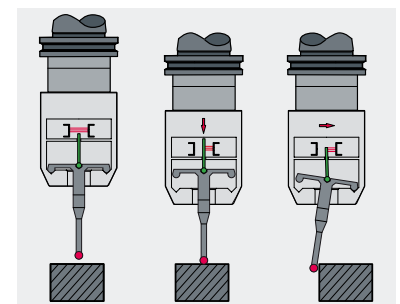
TC52 – for small machining centres



Fast workpiece measurement



Non-lobing touch characteristics



Modern and precise measuring mechanism with optoelectronic signal generation

Technical data

Protection class	IP68
Approach direction	±X, ±Y, -Z
Measuring force in XY Z	2.3 N/0.65 N (LF) * 5.7/1.6 N (LF) *
Max. deflection in XY Z	±11° 6 mm
Max. acceleration	50 m/s ²
Repeatability	0.3 µm 2σ
Max. probing speed	2 m/min
Mass	250 g
Signal transmission Range	Infrared ±60° in Z, 360° in X/Y
Battery (2 pieces)	Saft Lithium LS14250 (1/2 AA, 3.6 V) 1200 mAh
Tool holder	BTH 25 (HSK, SK, BT, VDI, ...)

* Stylus L = 30 mm LF: Low Force



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