



TC50 Touch Probe



Workpiece Measurement



Infrared Transmission



Multidirectional



Wear-Free Measuring Mechanism



Single & Mass Production



Contour Measurement



Axes Compensation

Touch Probe **TC50**

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TC50 | Touch Probe | Tactile workpiece measuring system with infrared transmission

Universal High-Speed 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 3 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

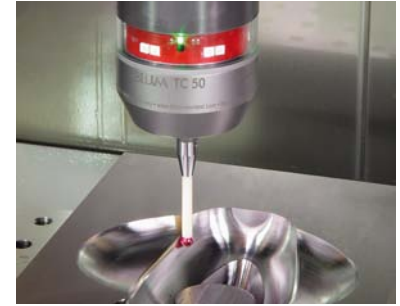
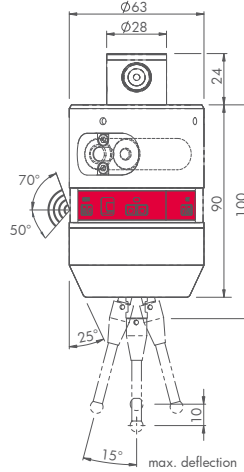
Sequential use of two measuring systems with one infrared receiver.



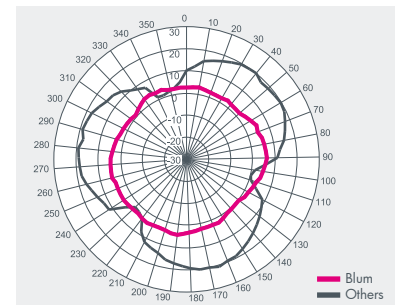
Technical data

Protection class	IP68
Approach directions	$\pm X, \pm Y, -Z$
Measuring force in XY Z	2 N* 7 N
Max. deflection XY Z	$\pm 15^\circ$ 10 mm
Max. acceleration	50 m/s ²
Repeatability	0,3 μm 2 σ
Max. probing speed	3 m/min
Mass	925 g
Signal transmission Range	Infrared $\pm 60^\circ$ in Z, 360° in X/Y
Battery (2 pieces)	Saft Lithium LS 14500 (AA, 3,6V) 2600 mAh
Tool holder	BTH 50 (HSK, SK, BT, VDI, ...)
Storage/Operating temperature	-20 °C ... +70 °C +5 °C ... +50 °C

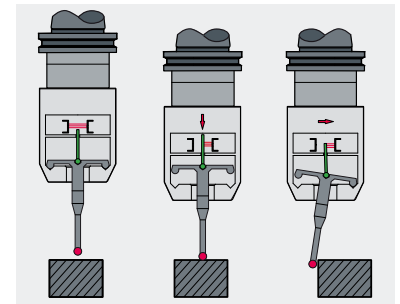
* Stylus L= 50 mm



Example: Contour measurement



Non-lobing touch characteristics



Modern and precise measuring mechanism with optoelectronic signal generation

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