



Touch Probe TC50



Version 09 | 2011, Subject to technical change without notice



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.



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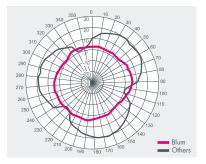
Technical data

Protection class	IP68
Approach directions	±X, ±Y, -Z
Measuring force in XY Z	2 N* 7 N
Max. deflection XY Z	± 15° 10 mm
Max. acceleration	50 m/s ²
Repeatability	0,3 μm 2σ
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

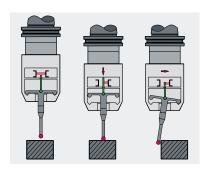
^{*} Stylus L= 50 mm



Example: Contour measurement



Non-lobing touch characteristics



Modern and precise measuring mechanism with optoelectronic signal generation



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