



TC50 Touch Probe



Workpiece Measurement



Infrared Transmission



Multidirectional



Wear-free Measuring Mechanism



Single & Mass Production



Contour Measurement



Axes Compensation



Touch Probe **TC50**

BLUM
focus on productivity



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

Universal High-Speed touch probe with multidirectional measuring mechanism

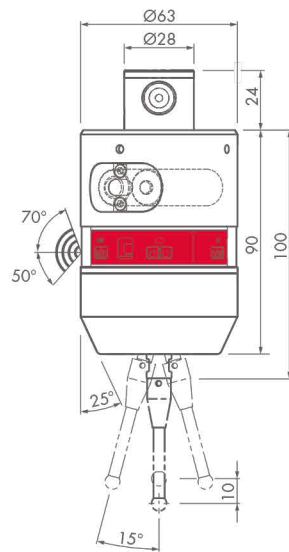
- Detection of workpiece position
- Correction of workpiece orientation
- Thermal compensation of the machine tool
- Contour measurement

Your benefit:

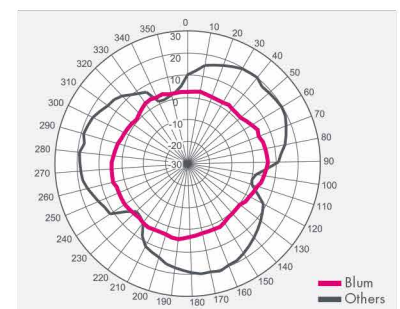
- Measuring speed up to 3 m/min
- Precise, non-lobing touch characteristics
- No-wear, optoelectronic measuring mechanism
- Use of two measuring systems with one IR receiver
- Extended battery life
- Precise measurement even with coolant
- Proven and robust design

DUO-Mode

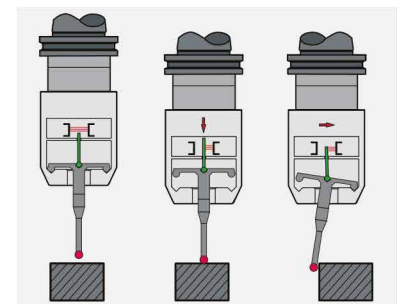
Sequential use of two measuring systems with one infrared receiver.



Example: Contour 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 N * 7 N
Max. deflection in 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 -50 ... +70° in Z, 360° in X/Y
Battery (2 pieces)	Soft Lithium LS14500 (AA, 3.6 V) 2600 mAh
Tool holder	BTH 50 (HSK, SK, BT, VDI, ...)

* Stylus L = 50 mm