



TC51 Touch Probe



Workpiece Measurement



Infrared Transmission



Bidirectional



Wear-free Measuring Mechanism



Mass Production



Axes Compensation



Pulling Measurement



Touch Probe TC51

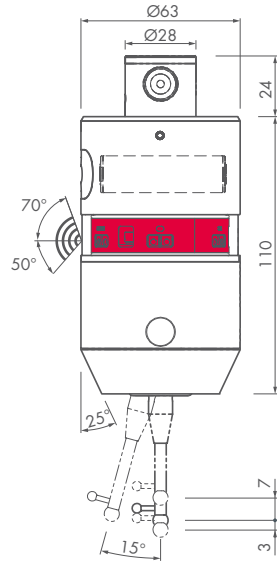
BLUM
focus on productivity



TC51 | Touch Probe | Tactile workpiece measuring system with infrared transmission

Unique – high dynamic touch probe for fast pulling measurements

- Mass Production
- Measuring tasks requiring superior precision
- Extremely fast measurements
- Thermal compensation of the machine tool
- Pulling measurement of grooves, recesses and outside width
- Spindle orientation is required



Your benefit:

- Measuring speed up to 5 m/min
- Highest acceleration
- Superior precision
- No-wear, optoelectronic measuring mechanism
- Highest process reliability
- Use of two measuring systems with one IR receiver
- Extended battery life
- Precise measurement even with coolant
- Proven and robust design

DUO-Mode

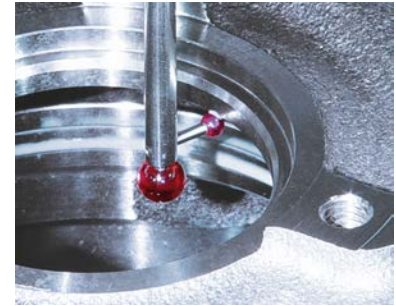
Sequential use of two measuring systems with one infrared receiver.



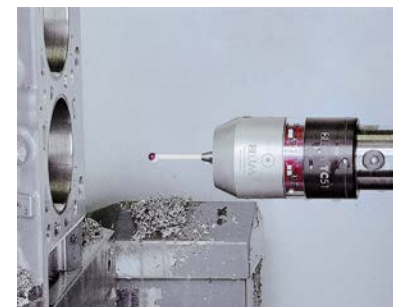
Technical data

Protection class	IP68
Approach direction	XY *, ±Z
Measuring force in XY Z	1.5 N ** 4 N
Max. deflection in XY +Z/-Z	15° * 3 mm/7 mm
Trigger point XY *	0.5 mm/0.8 mm/1.2 mm/1.5 mm ***
Trigger point Z	0.8 mm
Max. acceleration	100 m/s ²
Repeatability	0.3 µm 2σ
Max. probing speed	5 m/min
Mass	920 g
Signal transmission Range	Infrared -50 ... +70° in Z, 360° in X/Y
Battery (2 pieces)	Saft Lithium LS14500 (AA, 3.6 V) 2600 mAh
Tool holder BTH	50 (HSK, SK, BT, VDI, ...)

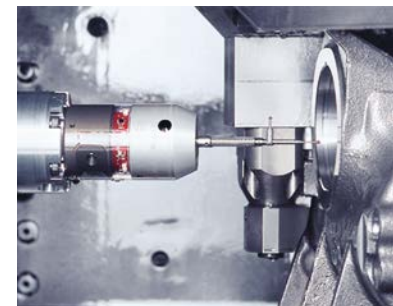
* Via spindle orientation ** Stylus L = 50 mm
 *** Stylus L = 50 mm/100 mm/150 mm/200 mm



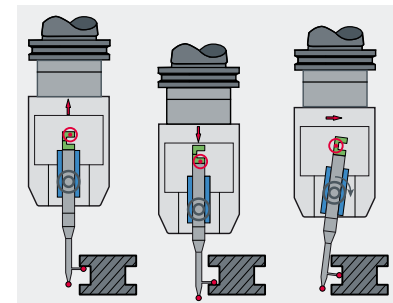
TC51 – pulling measurement



TC51 – extremely fast and precise



TC51 – ideal for mass production



Modern and precise measuring mechanism with optoelectronic signal generation



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