



## 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

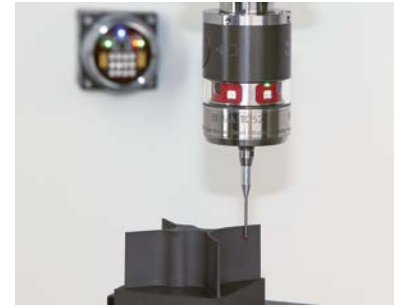
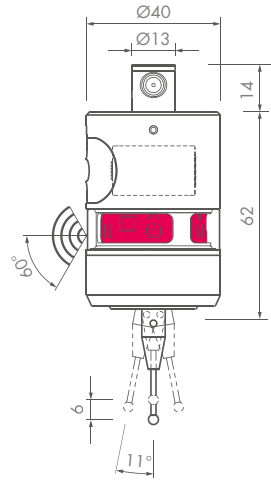
- Detection of workpiece position
- Correction of workpiece orientation
- Thermal compensation of the machine tool
- Contour measurement

### 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

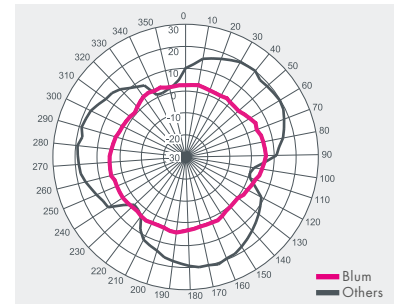
Sequential use of two measuring systems with one infrared receiver.



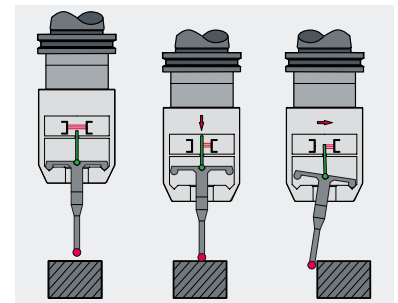
TC52 – for small machining centres



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 <sup>2</sup>
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 (½ 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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### Blum-Novotest Ltd.

Unit 15 Granary Wharf Business Park  
Wetmore Road, Burton upon Trent  
Staffordshire, DE14 1DU  
United Kingdom  
Phone: +44 1283 569691  
Fax: +44 1283 563687  
info@blum-novotest.co.uk

### Blum-Novotest, Inc.

4144 Olympic Boulevard  
Erlanger, KY 41018  
USA

Phone: +1 (859) 344 6789  
Fax: +1 (859) 344 6799  
solutions@blum-novotest.us