



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 multi- directional 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.

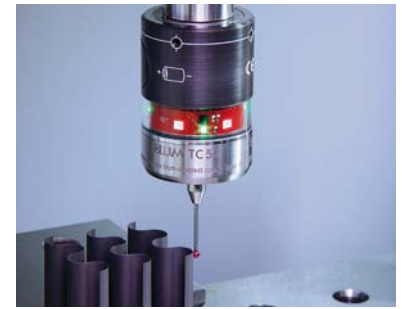
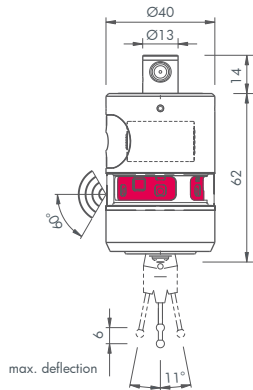


Technical data

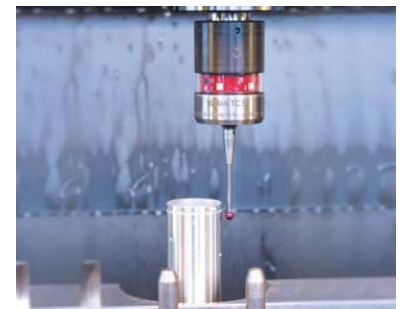
Protection class	IP68
Approach directions	$\pm X, \pm Y, -Z$
Measuring force in XY Z	2,3 N / 0,65 N (LF)* 5,7 N / 1,6 N (LF)*
Max. deflection XY Z	$\pm 11^\circ$ 6 mm
Max. acceleration	50 m/s ²
Repeatability	0,3 μm 2 σ
Max. probing speed	2 m/min
Mass	250 g
Signal transmission Range	Infrared $\pm 60^\circ$ in Z, 360° in X/Y
Battery	Saft Lithium LS14250 (1/2AA, 3,6V) 1200 mAh
Tool holder	BTH 25 (HSK, SK, BT, VDI, ...)

Storage/Operating temperature -20 °C ... +70 °C | +5 °C ... +50 °C

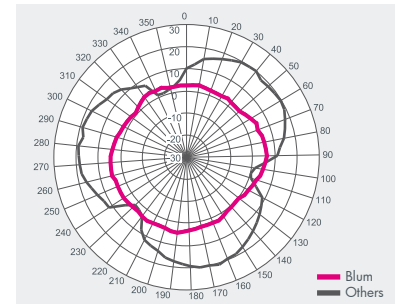
* Stylus L= 30 mm LF: Low Force



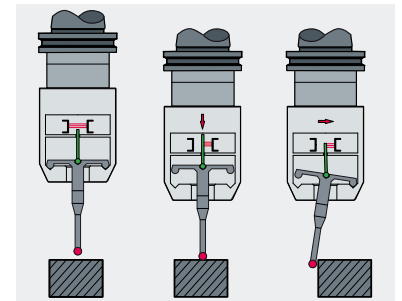
TC52 – for small machining centers



Fast workpiece measurement



Non-lobing touch characteristics



Modern and precise measuring mechanism with optoelectronic signal generation

BLUM
focus on productivity

Blum worldwide Service & Support

More than 40 subsidiaries
and service offices.

www.blum-novotest.com

Blum-Novotest Ltd.

33 Townfields
Lichfield, Staffordshire
WS13 8AA, United Kingdom

Phone: +44 1543 257111

Fax: +44 1543 251746

E-Mail: info@blum-novotest.co.uk

Blum LMT, Inc.

4144 Olympic Boulevard
Erlanger, KY 41018
USA

Phone: +1 (859) 344 6789

Fax: +1 (859) 344 6799

E-Mail: solutions@blumlmt.com