



TC53-30 Touch Probe



Workpiece Measurement



Infrared Transmission



shark360 Technology



Wear-free Measuring Mechanism



Modular System



Single & Mass Production



Axes Compensation



Pulling Measurement

Touch Probe TC53-30

BLUM
focus on productivity



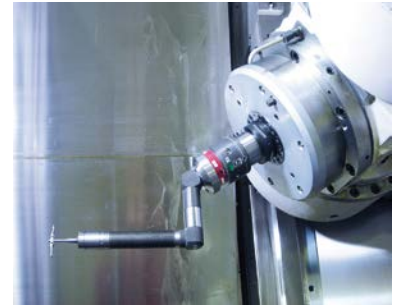
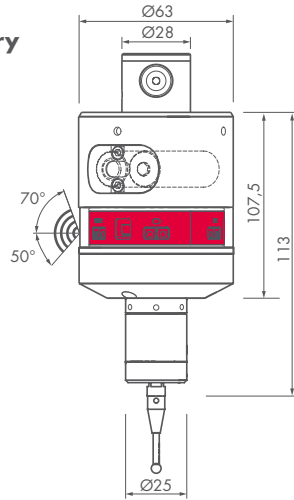
TC53-30 | Touch Probe | Tactile workpiece measuring system with infrared transmission

Touch probe for special applications – modular system with reinforced design and revolutionary shark360 measuring mechanism

- Special measuring tasks with custom extensions
- Pulling measurements
- Thermal compensation of the machine tool

Your benefit:

- Customized adaptations are easily developed
- Superior precision due to patented **shark360** measuring mechanism
- 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



Workpiece measurement on turn-mill machine



Mass production of gearbox housings

DUO-Mode

Sequential use of two measuring systems with one infrared receiver.



Technical data

Protection class	IP68
Approach direction	$\pm X, \pm Y, \pm Z$
Measuring force in XY Z	1.3 N 5.9 N (LF 0.4 N * 2.0 N *)
Max. deflection in XY Z	$\pm 15^\circ$ 5 mm
Max. acceleration	50 m/s ² **
Repeatability	0.4 μm 2 σ
Max. probing speed	2 m/min
Mass	790 g (Without accessories, e.g. extension, angle)
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, ...)

* Stylus L = 30 mm LF: Low Force

** With accessories (e.g. extension, angle): max. acceleration 10 m/s²



Various accessories available



shark360 measuring mechanism



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www.blum-novotest.com

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