



Workpiece Measurement



Multi-directional **shark360**



Infrared Transmission



Position Measurement



Measurement of Standard Features



Pulling Measurement



Torsional Measurement



Adaptive Machining



Measurement with Coolant



Wear Compensation



Temperature Compensation



Touch probe **TC55**

ULTRA-COMPACT ALL-ROUNDER

BLUM
focus on productivity



Touch probe TC55

ULTRA-COMPACT ALL-ROUNDER

Compact touch probe with high-precision shark360 measuring mechanism

The TC55 touch probe is the smallest cable-free touch probe from BLUM so far. It is deployed in compact milling, turning and millturning centres used for microprocessing, medical technology and the measurement of components on machines for additive manufacturing.

- Workpiece and tool measurement in small machine tools
- Pulling and torsional measurements with offset stylus
- Temperature compensation of the machine tool

Your benefit:

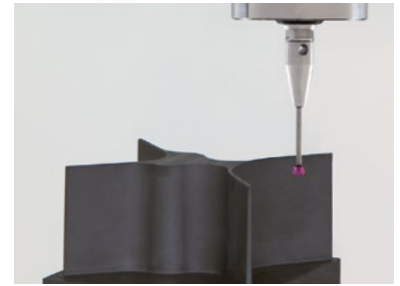
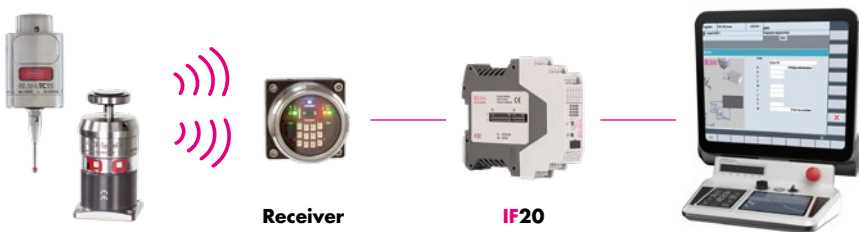
- Superior precision due to the most advanced **shark360** measuring mechanism
- High-quality stainless steel housing
- Extremely high probing speeds
- Constant deflection forces in all probing directions
- Reliable measurements, even under the influence of coolant
- No-wear, optoelectronic measuring mechanism
- Very long battery life
- Enables unmanned manufacturing

Reliable and proven transmission technology

This touch probe is available with infrared technology:

- Extremely fast and reliable transmission
- Sequential use of 2 infrared measuring systems with one receiver (DUO mode)

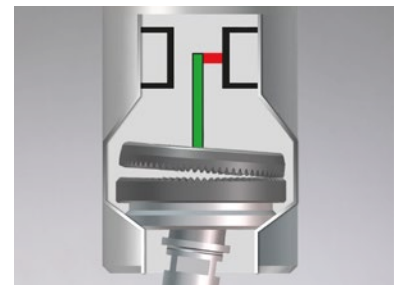
System overview



TC55 – for delicate parts and small machining centres



High-quality stainless steel housing



High-precision **shark360** measuring mechanism

Technical data

TC55

Size	Ø 32 mm
Length *	46 mm
Transmission type	Infrared
Max. probing speed	2000 mm/min
Repeatability	0.3 µm 2σ

* without stylus and interface for tool holder