Workpiece Measurement

Tool Measurement

- Multi-directional**shark**360
- Infrared Transmission
- Radio Transmission
- Position Measurement
- Measurement of Standard Features
- Pulling Measurement
- Torsional Measurement
- Adaptive Machining
- Coolant Load
- Tool breakage detection
- Tool length measurement
- Tool Radius Measurement
- Wear Compensation
- Temperature Compensation

Touch Probes TC54-10 | TC64-10

FOR TURNING AND MILLING MACHINES

BLUM

focus on productivity

Touch Probes TC54-10 | TC64-10
FOR TURNING AND MILLING MACHINES

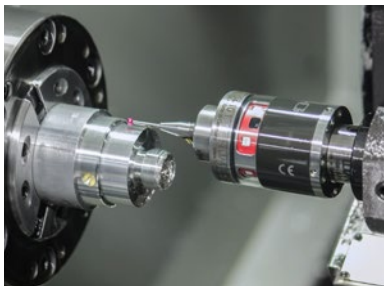
Compact touch probe with revolutionary shark360 measuring mechanism

The touch probes TC54-10 and TC64-10 combine all advantages of the **shark**360 measuring mechanism with the compactness of a multidirectional BLUM standard touch probe. Due to the robust design and the wear-free, face-geared measuring mechanism, the systems are perfectly suited for the measurement of tools and workpieces in turning and milling centres.

– Workpiece measurement and tool setting in turning and milling machines

– Application in turret

– Pulling and torsional measurements with offset stylus



TC54-10 T – Workpiece measurement in turning machine

Your benefit:

– Superior precision due to patented **shark**360 measuring mechanism

– Extremely high probing speeds

– Constant deflection forces in all probing directions

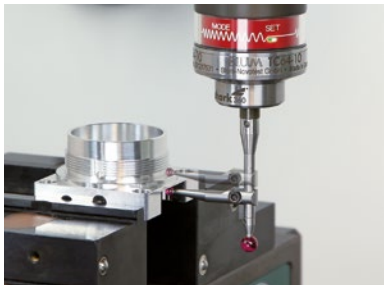
– Ideally suited for highly productive production

– Reliable measurements, even under the influence of coolant

– No-wear, optoelectronic measuring mechanism

– Proven and robust design

– Enables unmanned manufacturing



Pulling and pushing measurement

Reliable and proven transmission technologies

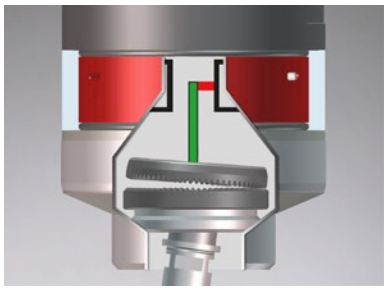
Touch probes from BLUM are available with radio or infrared technology:

– Extremely fast and reliable transmission

– Sequential use of up to 6 radio measuring systems with one receiver

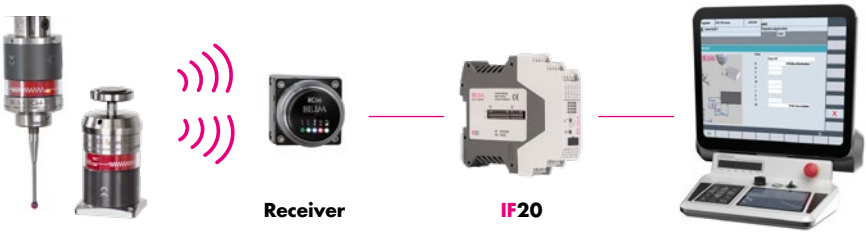
– Sequential use of 2 infrared measuring systems with one receiver (DUO mode)

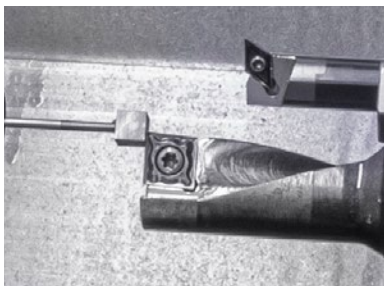
– Simultaneous use of 2 radio measuring systems on one machine (TWIN-Mode)



Patented **shark**360 measuring mechanism

System overview





Tool measurement in the turning machine

Technical data	TC54-10	TC64-10
Size	Ø 40 mm	Ø 40 mm
Length *	68 mm	68 mm
Transmission type	Infrared	Radio
Max. probing speed	2000 mm/min	2000 mm/min
Repeatability	0.4 µm 2σ	0.4 µm 2σ

** without stylus and interface for tool holder*

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