



## Workpiece Measurement



Multi-directional **shark360**



Infrared Transmission



Radio Transmission



Modular System



Position Measurement



Measurement of Standard Features



Pulling Measurement



Torsional Measurement



Adaptive Machining



Coolant Load



Wear Compensation



Temperature Compensation



## Touch Probes **TC53** | **TC63**

MODULAR TOUCH PROBES

**BLUM**  
focus on productivity



# Touch Probes TC53 | TC63

## MODULAR TOUCH PROBES

### Modular System probe with revolutionary shark360 measuring mechanism

Innovative, variable, highly precise. The modular TC53/63 series comprises versatile touch probe solutions in order to quickly adapt to complex, customer-oriented measuring tasks.

All touch probes use the patented **shark360** measuring mechanism which sets a new standard with regards to precision and reliability due to a modified face gear and the optoelectronic signal generation.

- Special measuring tasks with custom extensions
- Pulling measurement with offset stylus
- Temperature compensation of the machine tool
- Customised solutions are easily developed

### Your benefit:

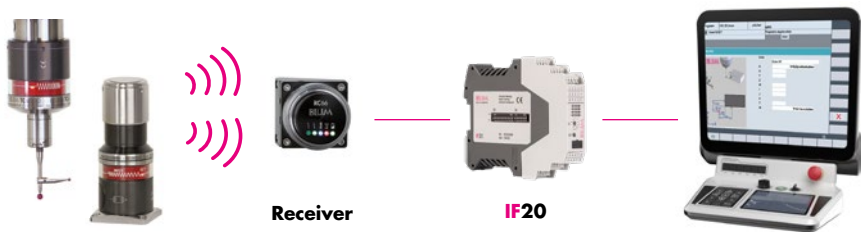
- Various accessories available for customer-specific applications
- Superior precision due to patented **shark360** measuring mechanism
- No-wear, optoelectronic measuring mechanism
- Reliable measurements, even under the influence of coolant
- Proven and robust design
- Very long battery life
- Enables unmanned manufacturing

### Reliable and proven transmission technologies

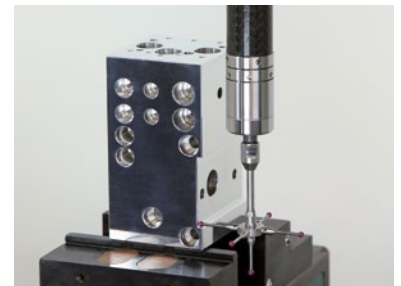
Touch probes from BLUM are available with radio or infrared technology:

- 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)

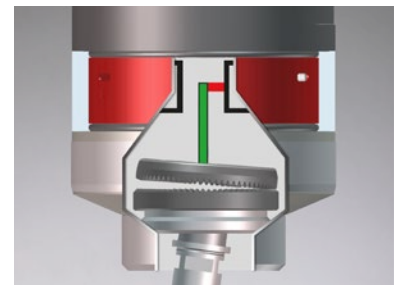
### System overview



Mass production of gearbox housings



Pulling and pushing measurement



Patented **shark360** measuring mechanism



Various accessories available

### Technical data

#### TC53-10

#### TC53-30

#### TC63-10

#### TC63-30

	TC53-10	TC53-30	TC63-10	TC63-30
Size	Ø 40 mm	Ø 63 mm	Ø 40 mm	Ø 63 mm
Length *	93 mm	113 mm	93 mm	113 mm
Transmission type	Infrared	Infrared	Radio	Radio
Max. probing speed	2000 mm/min	2000 mm/min	2000 mm/min	2000 mm/min
Repeatability	0,4 µm 2σ	0,4 µm 2σ	0,4 µm 2σ	0,4 µm 2σ

\* without stylus and interface for tool holder