

## Workpiece Measurement



Multidirectional



Infrared Transmission



Radio Transmission



Position Measurement



Measurement of Standard Features



Contour Measurement



Adaptive Machining



Coolant Load



Wear Compensation



Temperature Compensation



## Touch Probes **TC50/TC52** | **TC60/TC62**

HIGHSPEED WORKPIECE MEASUREMENT

**BLUM**  
focus on productivity



# Touch Probes TC50/TC52 | TC60/TC62

## HIGHSPEED WORKPIECE MEASUREMENT

### Universal touch probe series with multidirectional measuring mechanism

Faster, more economic, more precise – the advantages of this high-speed touch probe series can be summarized as simply as that. The multidirectional probes impress with the latest measuring mechanism technology featuring optoelectronic signal generation, the highest measuring speeds, and perfect, rotationally symmetrical probing behaviour with no preferential direction.

- Detection of workpiece position
- Correction of workpiece orientation
- Measurement of workpiece features
- Detection of machining errors
- Temperature compensation of the machine tool
- Measurement of contours

### Your benefit:

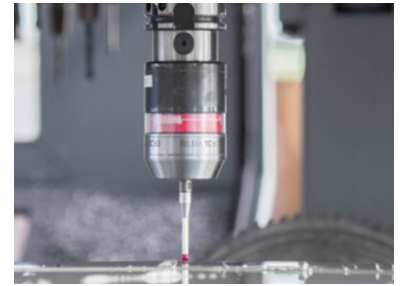
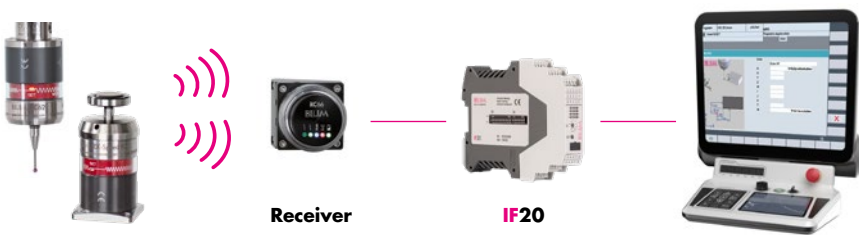
- Extremely high probing speeds
- Maximum measuring accuracy
- Reliable measurements, even under the influence of coolant
- No-wear, optoelectronic measuring mechanism
- Very long battery life
- Proven and robust design
- Enables unmanned manufacturing

### Reliable and proven transmission technology

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)

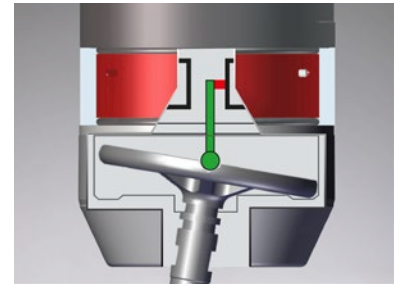
### System overview



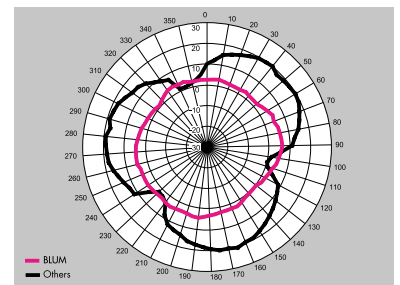
Ideal for single and mass production



TC52, TC62 – for small machining centres



Modern and precise measuring mechanism with optoelectronic signal generation



Non-lobing touch characteristics with constant deflection forces

### Technical data

|                    | TC50        | TC52        | TC60        | TC62        |
|--------------------|-------------|-------------|-------------|-------------|
| Size               | Ø 63 mm     | Ø 40 mm     | Ø 63 mm     | Ø 40 mm     |
| Length *           | 100 mm      | 62 mm       | 100 mm      | 62 mm       |
| Transmission type  | Infrared    | Infrared    | Radio       | Radio       |
| Max. probing speed | 3000 mm/min | 2000 mm/min | 3000 mm/min | 2000 mm/min |
| Repeatability      | 0,3 µm 2σ   | 0,3 µm 2σ   | 0,3 µm 2σ   | 0,3 µm 2σ   |

\* without stylus and interface for tool holder