











Tool Measurement

-  Hardwired
-  Infrared Transmission
-  Radio Transmission
-  **shark360** Technology
-  Wear-free Measuring Mechanism
-  Tool breakage detection
-  Tool length measurement
-  Tool Radius Measurement
-  Temperature Compensation



3D Tool Setting Probes **Z-MT** | **TC54-20** | **TC64-20**

MEASUREMENT OF TURNING TOOLS

BLUM
focus on productivity



3D Tool Setting Probes Z-MT | TC54-20 | TC64-20

MEASUREMENT OF TURNING TOOLS

Highly precise tool setting probe series – perfect for the measurement of turning tools

- Tool breakage detection
- Tool length measurement
- Tool radius measurement
- Axes compensation

Your benefit:

- Superior precision due to patented **shark360** measuring mechanism
- No secondary damage due to unrecognised tool breakage
- Fast ROI
- No-wear, optoelectronic measuring mechanism
- Customisable due to special measuring inserts
- Compact and robust design

Transmission technologies

3D tool setting probes from BLUM are available with cable, 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)

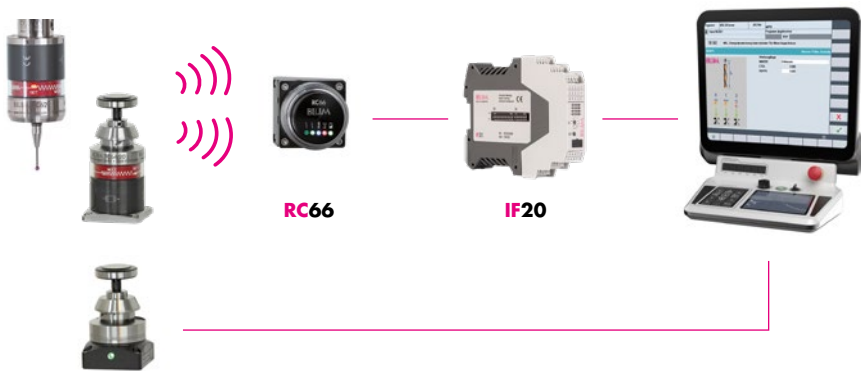


Tool Radius Measurement



Tool length measurement

System overview



Technical data

Z-MT

TC54-20

TC64-20

Height (without Stylus)	47.5 mm	69.8 mm	69.8 mm
Transmission type	Cable	Infrared	Radio
Repeatability	0.4 µm 2 σ	0.4 µm 2 σ	0.4 µm 2 σ
Minimum tool Ø	1 mm*	1 mm*	1 mm*

* Depending on the geometry and material of the tool, probing force must not result in damage of tool