



TC63-20 3D Tool Setting Probe



Tool Measurement



Radio Transmission



shark360 Technology



Wear-Free Measuring Mechanism



Modular System



Tool Breakage Detection



Tool Length Measurement



Tool Radius Measurement



Axes Compensation

3D Tool Setting Probe TC63-20

BLUM
focus on productivity



TC63-20 | 3D Tool Setting Probe | Tactile tool setting system with BRC radio transmission

Extremely precise & modular radio probe – customizable system with revolutionary shark360 measuring mechanism

- Tool length measurement
- Tool radius measurement
- Tool breakage detection
- Thermal compensation of the machine tool
- Perfect where line of sight between probe and receiver is blocked or intermittent

Your benefit:

- Customized adaptations can be easily developed
- Superior precision due to patented **shark360** measuring mechanism
- No subsequent damage due to tool breakage
- Fast ROI
- No-wear optoelectronic measuring mechanism
- Easy pairing procedure between probe and receiver
- Use of up to 6 measuring systems with one receiver
- Extended battery life
- Proven and robust design

BRC Radio Technology

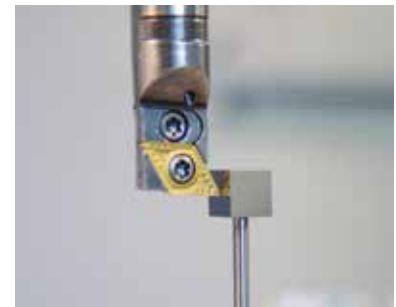
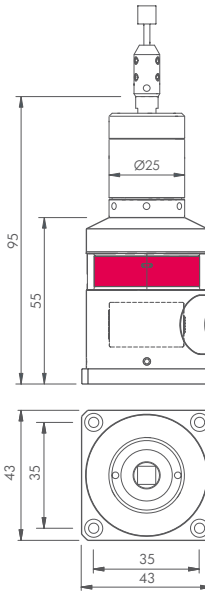
Sequential use of up to 6 measuring systems with one radio receiver.



Technical data

Protection class	IP68
Approach direction	±X, ±Y, -Z
Measuring force in XY Z	1,3 N 5,9 N
Max. deflection XY Z	± 15° 5 mm
Repeatability	0,4 μm 2σ
Max. probing speed	2 m/min
Min. tool diameter	1 mm*
Mass	325 g (Without accessories, e.g. extension, angle)
Signal transmission	Radio (BRC Technology)
Frequency band	2,4000 – 2,4835 GHz
Transmission power	0 dBm
Battery (2 pieces)	Saft Lithium LS14250, (1/2 AA, 3,6V) 1200 mAh
Storage/Operating temperature	-20 °C ... -70 °C +5 °C ... +50 °C

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



Measurement of turning tool



Tool length measurement



Various accessories available



shark360 measuring mechanism



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