



## TC61 Touch Probe



Workpiece Measurement



Radio Transmission



Bidirectional



Wear-Free Measuring Mechanism



Mass Production



Axes Compensation



Pulling Measurement



Touch Probe **TC61**

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focus on productivity



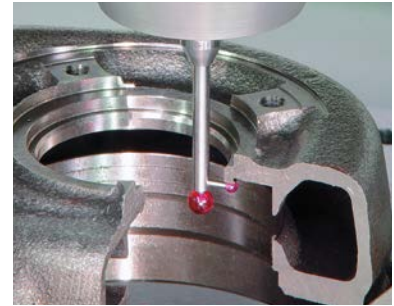
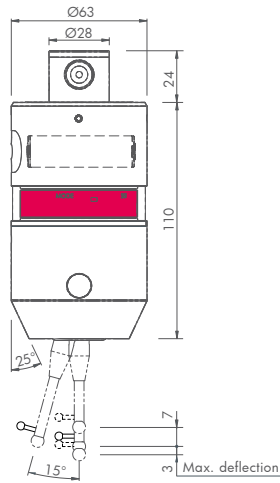
# TC61 | Touch Probe | Tactile workpiece measuring system with BRC radio transmission

## Unique – high dynamic radio touch probe for fast pulling measurements

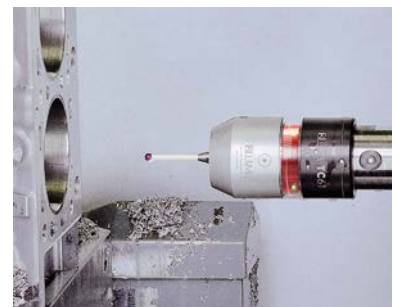
- Mass production
- Measuring tasks requiring superior precision
- Extremely fast measurements
- Thermal compensation of the machine tool
- Pulling measurement of grooves, recesses and outside width
- Spindle orientation is required

### Your benefit:

- Measuring speed up to 5 m/min
- Highest acceleration
- Superior precision
- No wear, optoelectronic measuring mechanism
- Easy pairing procedure between probe and receiver
- Use of up to 6 measuring systems with one receiver
- Highest process reliability
- Extended battery life
- Precise measurement even with coolant
- Proven and robust design



TC61 – pulling measurement



TC61 – extremely fast and precise

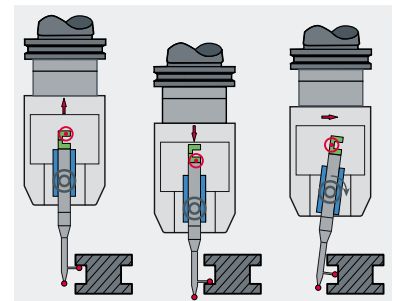
### Technical data

Protection class	IP68
Approach directions	XY*, ±Z
Measuring force in XY   Z	1,5 N**   4 N
Max. deflection in XY   +Z / -Z	15°*   3 mm / 7 mm
Trigger point XY*	0,5 mm / 0,8 mm / 1,2 mm / 1,5 mm ***
Trigger point Z	0,8 mm
Max. acceleration	100 m/s <sup>2</sup>
Repeatability	0,3 μm 2σ
Max. probing speed	5 m/min
Mass	920 g
Signal transmission	Radio (BRC Technology)
Frequency band	2,4000 – 2,4835 GHz
Transmission power	0 dBm
Battery (2 pieces)	Saft Lithium LS 14500 (AA, 3,6V) 2600 mAh
Tool holder	BTH 50 (HSK, SK, BT, VDI, ...)
Storage/Operating temperature	-20 °C ... +70 °C   +5 °C ... +50 °C

\* Via spindle orientation \*\* Stylus L= 50 mm \*\*\* Stylus L= 50 mm / 100 mm / 150 mm / 200 mm



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



Modern and precise measuring mechanism with optoelectronic signal generation

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