



## TC53-30 Touch Probe



Workpiece Measurement



Infrared Transmission



shark360 Technology



Wear-Free Measuring Mechanism



Modular System



Single & Mass Production



Axes Compensation



Pulling Measurement

Touch Probe **TC53-30**

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focus on productivity



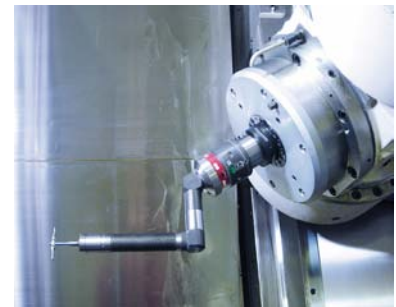
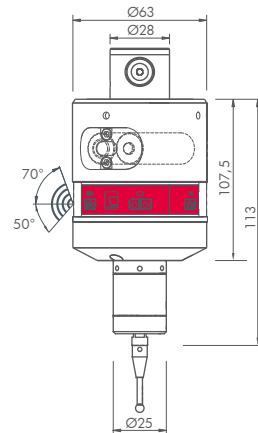
# TC53-30 | Touch Probe | Tactile workpiece measuring system with infrared transmission

## Touch probe for special applications – modular system with reinforced design and revolutionary shark360 measuring mechanism

- Special measuring tasks with custom extensions
- Pulling measurements
- Thermal compensation of the machine tool

### Your benefit:

- Customized adaptations are easily developed
- Superior precision due to patented **shark360** measuring mechanism
- No-wear optoelectronic measuring mechanism
- Use of two measuring systems with one IR receiver
- Extended battery life
- Precise measurement even with coolant
- Compact and robust design



Workpiece measurement in turn-mill machine



Mass production of gearbox housings

### DUO-Mode

Sequential use of two measuring systems with one infrared receiver.



### Technical data

|                               |  |
|-------------------------------|--|
| Protection class              | IP68   |
| Approach direction            | ±X, ±Y, ±Z   |
| Measuring force in XY   Z     | 1,3 N   5,9 N (LF: 0,4 N*   2,0 N*)                |
| Max. deflection XY   Z        | ± 15°   5 mm                                       |
| Max. acceleration             | 50 m/s**   |
| Repeatability                 | 0,4 µm 2σ  |
| Max. probing speed            | 2 m/min  |
| Mass                          | 790 g (Without accessories, e.g. extension, angle) |
| Signal transmission   Range   | Infrared   ± 60° in Z, 360° in XY                  |
| Battery (2 pieces)            | Soft 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               |

\* Stylus L= 30 mm LF: Low Force

\*\* With accessories (e.g. extension, angle): max. acceleration 10 m/s<sup>2</sup>



Various accessories available



shark360 measuring mechanism



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