



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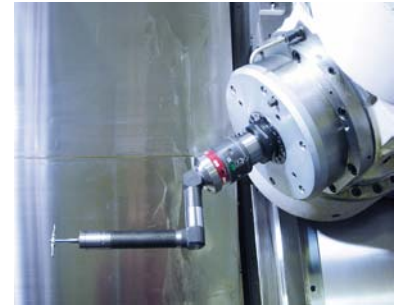
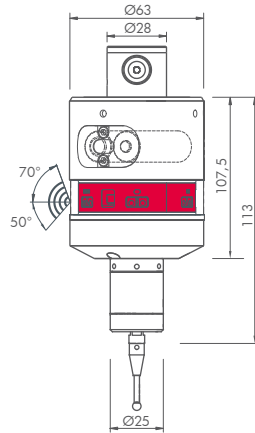
## TC53-30 | Touch Probe | Tactile workpiece measuring system with infrared transmission

### 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	$\pm X, \pm Y, \pm Z$
Measuring force in XY   Z	1,3 N   5,9 N (LF: 0,4 N*   2,0 N*)
Max. deflection XY   Z	$\pm 15^\circ$   5 mm
Max. acceleration	50 m/s**
Repeatability	0,4 $\mu\text{m}$ 2 $\sigma$
Max. probing speed	2 m/min
Mass	790 g (Without accessories, e.g. extension, angle)
Signal transmission   Range	Infrared   $\pm 60^\circ$ in Z, $360^\circ$ 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**

shark360 measuring mechanism

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