



## TC76 Touch Probe



Workpiece Measurement



Tool Measurement



Hardwired



shark360 Technology



Wear-Free Measuring Mechanism



Modular System



Single & Mass Production



Axes Compensation



Pulling Measurement



Tool Length Measurement



Tool Radius Measurement



Tool Breakage Detection

Touch Probe **TC76**

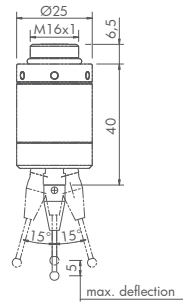
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## TC76 | Touch Probe | Tactile workpiece & tool measuring system with cable connection

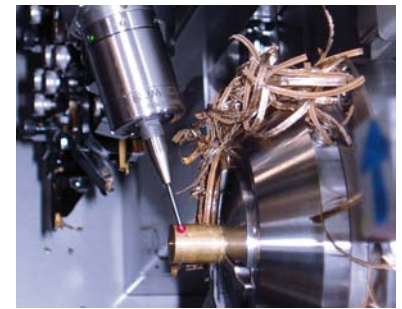
### Extremely compact, hardwired touch probe with revolutionary shark360 measuring mechanism

- Workpiece measurement and tool setting in grinding, turning and milling machines
- Pulling measurement with star or offset styli
- Excentric measurements
- Compact machines



### Your benefit:

- Customized adaption can be easily developed
- Superior precision due to patented **shark360** measuring mechanism
- Measuring speed up to 2 m/min
- No-wear, optoelectronic measuring mechanism
- Precise measurement even with coolant
- High process reliability
- Proven and robust design



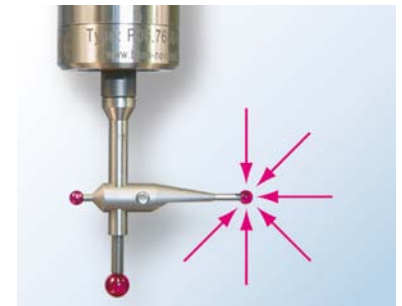
Workpiece measurement in turning centre



Workpiece measurement in grinding centre

### Accessories

A full range of TC76 accessories are available, providing optimal solutions for customer-specific applications. Choices include various styli, extensions, angle attachments, adjustable sockets and mounts and pneumatically operated covers.



Highest precision in all approach directions

### Technical data

Protection class	IP68
Approach directions	$\pm X, \pm Y, \pm Z$
Measuring force in XY   Z	1,3 N / 0,9 N / 0,7 N / 0,5 N*   5,9 N
Measuring force in XY   Z (LF)	0,4 N / 0,3 N / 0,2 N / 0,17 N*   2,0 N
Max. deflection XY   Z	$\pm 15^\circ$   5 mm
Repeatability	0,4 $\mu\text{m}$ 2 $\sigma$
Max. probing speed	2 m/min
Mass	80 g
Storage/Operating temperature	-20 °C ... +50 °C   +5 °C ... +50 °C

\* Stylus L= 30 mm / 50 mm / 75 mm / 100 mm LF: Low Force



**shark360** measuring mechanism enables pulling/pushing measurements in Z+/-

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