



## TC76-DIGILOG Touch Probe



Workpiece Measurement



Hardwired



shark360 DIGILOG



Wear-Free Measuring Mechanism



Modular System



Workpiece Inspection



ContourScan



Single & Mass Production

Touch Probe **TC76-DIGILOG**

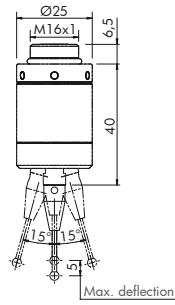
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focus on productivity



# TC76-DIGILOG | Touch probe | Tactile measuring system with cable connection

## Digilog touch probe with revolutionary shark360 measuring mechanism

- DIGILOG = high-precision digital measurement (in switch mode) and cyberspeed scans in analogue mode.
- Detection of machining errors by scanning process
- Workpiece measurement in grinding, turning & milling machines
- Outputs for 24V trigger signal and 0 - 10V analogue voltage

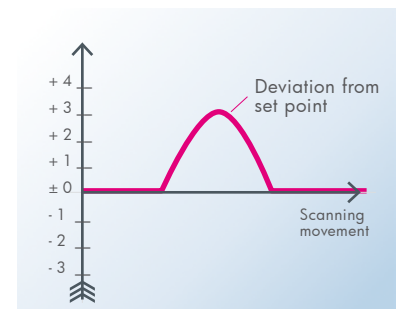
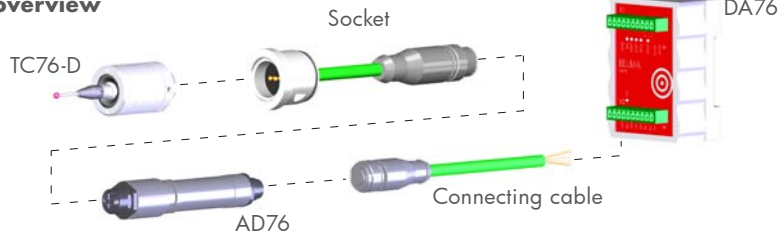


Scanning procedure for checking of workpiece surface

### Your benefit:

- Extremely fast measurements (analogue & digital)
- Superior precision due to patented **shark360** measuring mechanism
- Precise, non-lobing touch characteristics
- No-wear, optoelectronic measuring mechanism

### System overview



Result: Detection of machining error

### Measuring resolution (TC76-D + AD76 + DA76)

Stylus [mm]	30	50	75	100
Analog stroke [ $\mu\text{m}$ ]	475	675	925	1175
Resolution [ $\text{mV}/\mu\text{m}$ ]	12,6	8,8	6,4	5,0
Converter resolution [ $\mu\text{m}/\text{Digit}$ ]	0,193	0,275	0,376	0,478
Sampling rate	50 kHz / 20 $\mu\text{s}$			

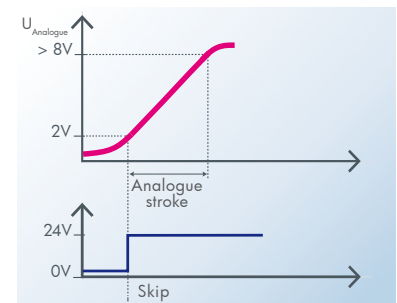


**shark360**

shark360 measuring mechanism

### Technical data

Protection class	IP68
Approach direction	$\pm X, \pm Y, \pm Z$
Measuring force in XY (Standard)	1,3 N / 0,9 N / 0,7 N / 0,5 N*
Measuring force in XY (Low Force)	0,4 N / 0,3 N / 0,2 N / 0,17 N*
Measuring force in Z (Standard) / (Low Force)	5,9 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 temperature / operating temperature	-20 $^\circ\text{C}$ ... +50 $^\circ\text{C}$ / +5 $^\circ\text{C}$ ... 50 $^\circ\text{C}$
* Stylus L= 30 mm / 50 mm / 75 mm / 100 mm	



Output signals DA76  
(Trigger point / Analogue stroke)

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[www.blum-novotest.com](http://www.blum-novotest.com)

**Blum-Novotest Ltd.**

33 Townfields  
Lichfield, Staffordshire  
WS13 8AA, United Kingdom

Phone: +44 1543 257111

Fax: +44 1543 251746

E-Mail: [info@blum-novotest.co.uk](mailto:info@blum-novotest.co.uk)

**Blum LMT, Inc.**

4144 Olympic Boulevard  
Erlanger, KY 41018  
USA

Phone: +1 (859) 344 6789

Fax: +1 (859) 344 6799

E-Mail: [solutions@blumlmt.com](mailto:solutions@blumlmt.com)