



Universal Presetting and Measuring Machine »smile«

Easy to operate, equipped with all required standard measuring functions, and at an attractive price, the ZOLLER »smile« universal tool presetting and measuring machine has been designed specifically for measuring tools for manufacturing production. Preset and measure your tools prior to use. This lets you benefit across the board, with fewer rejects and machine crashes, lower production costs and higher productivity.



- ✓ Available in up to seven selectable measuring ranges in Z and X
- ✓ High precision spindle ISO 50 with integrated calibration edges, locking device 4 x 90°, spindle brake
- ✓ Membrane keyboard for power-operated spindle brake and spindle lock
- ✓ Lightweight metal construction with optimal thermal conductive capacity for use in workshops
- ✓ Heidenhain glass scales for high measuring accuracy
- ✓ Electronic fine adjustment of the X and Z axis
- ✓ »eQ« ergonomic one-hand control handle
- ✓ CCD camera with telecentric lens
- ✓ ZOLLER image processing software »pilot 1.0«, »pilot 2 mT« or »pilot 3 0«

- ✓ Dynamic cross hairs over entire measuring window
- ✓ Analog focusing display for focusing the tool cutting edge
- ✓ Automatic cutting edge recognition, also greater than 90°
- ✓ Cutting edge inspection with 20-fold magnification
- ✓ Manual projector function / Adapter and tool management
- ✓ Zero point monitoring for process reliability
- ✓ Numerous measuring programs, for example, concentricity and run-out
- ✓ Machine table (standard for »smile/pilot 3.0«)

We reserve the right to make technical changes.



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Technical Data	Measuring range Z	Measuring range X	Diameter	Snap gauge \emptyset
»smile 320«	350 mm / 13.8"	160 mm / 6.2"	320 mm / 12.6"	0 mm
»smile 420«	420-600*-800* mm / 16.5-23.6*-31.5**"	210 mm / 8.3"	420 mm / 16.5"	100 mm / 3.9"
»smile 620«	420-600*-800* mm / 16.5-23.6*-31.5**"	310 mm / 12.2"	620 mm / 24.4"	100 mm / 3.9"

Note: The quoted measuring range may be reduced under circumstances when using adapters and tool posts.
The maximum tool diameter X is reduced when selecting the Snap gauge \emptyset
* optionally available: the snap gauge diameter will be reduced accordingly.



»pilot 1.0« 13"

Easy to Operate, Fast Processing



»pilot 2 mT« 17"

Intuitive touch-screen operating technology



»pilot 3.0« 24"

State-of-the-art image processing technology

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Autofocus and ROD encoder



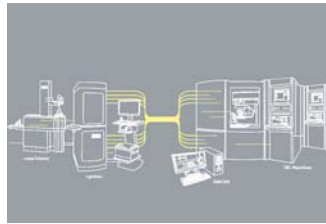
Cutting edge inspection



Center height measuring device



Snap gauge



Data transmission



Tool identification



Table system



Storage boards



Adapter or tool trolley



Maintenance unit



Label printer



Color laser printer



USB camera



Standing aid



Protective cover

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SK 50 high-precision spindle



»pcs-mini« high-precision spindle



»hgv-uz« high-precision spindle



SK 25 - 60 steep taper adapter



HSK 25 - 63 hollow shank taper adapter



VDI 16 - 80 adapter



Capto C 3 - 10 adapter



KM 32 - 63 adapter



Hydro-expansion clamping adapter



SK 25 - 60 attachment holder



HSK 25 - 63 hollow shank attachment holder



Capto C 3 - 6 attachment holder



VDI 16 - 60 attachment holder



KM 32 - 63 attachment holder



Hydro-expansion chuck attachment holder

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