

## ZOLLER Tool Presetter and Measuring Machines

### »venturion 450/pilot 3.0«

#### vent450

The tool presetter and measuring machine series »venturion 450/pilot 3.0« impresses through its unique ergonomics, high flexibility and production-oriented features. Thanks to its modular design the »venturion 450/pilot 3.0« can be individually configured and tailored to the needs of your production.

#### Basic equipment:

- High precision spindle »ace« size 1 with spindle indexing and spindle brake
- Membrane keyboard for power-operated tool clamping, spindle brake and spindle indexing
- Image processing with telecentric objective and CCD camera with integrated incident light multi LED lights
- 8 USB 3.0 interfaces
- RJ45 mains connection
- 23" TFT touch-screen monitor
- Screen resolution 1920 x 1080 Pixel
- 10th generation of measuring machine control
- Operating system Windows 7 Ultimate
- 8 GB working memory
- Storage for at least 15.000 adapters and tool steps

#### Technical data:

- Max. tool length Z: 450/600/800 mm
- Max. tool diameter D: 400/600 mm
- Snap gauge diameter: 100 mm

#### Available variants:

- Manual ■ micro-adjustment ■ CNC

#### Benefit:

- Excellent price-performance ratio
- Ergonomically optimized machine design for easy operation and maintenance
- Modular design for an optimum adaptation to your individual production processes

#### Options:

- Vacuum or HGV-UZ spindle
- Centre height measuring device camera (DME)
- Tool inspection
- Autofocus, rotary encoder ROD, tool identification
- Satellite monitor 15"
- Control-specific data output
- Setup sheets measure/manage
- Integration into »pilot 3.0« database
- Integration of ZOLLER TMS Tool Management Solutions



»venturion 450« with ZOLLER image processing »pilot 3.0«

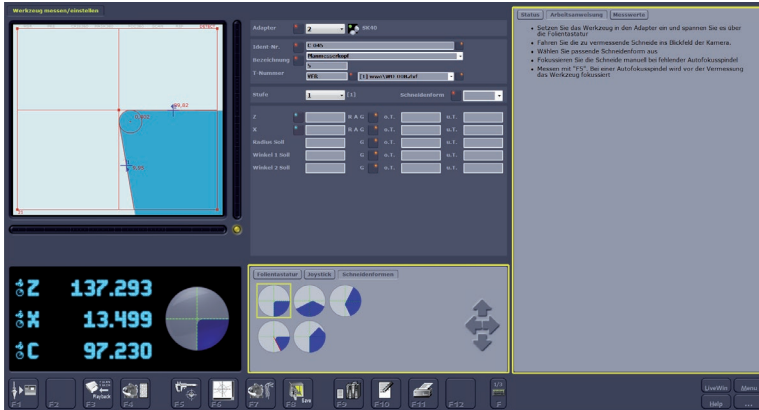


»venturion 450« with ZOLLER tool inspection. The camera can be rotated by 0° to 180° degrees.

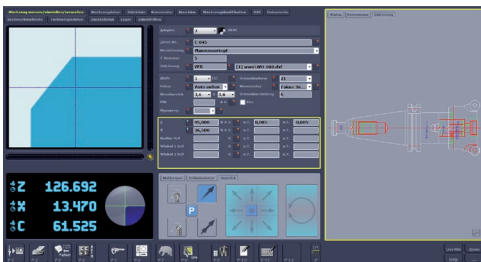
## ZOLLER Tool Presetter and Measuring Machines

### »venturion 450/pilot 3.0«

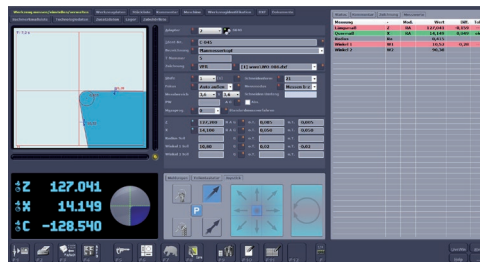
vent450



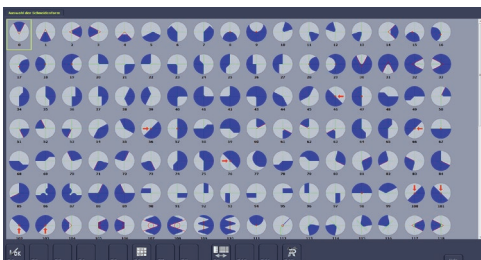
Easily and intuitively operated touch-screen user interface ZOLLER »pilot 3.0« with automatic recognition of the cutting edge shape and individually configurable working instructions



Ultra-precise measurement results with specification of tolerances and representation of appropriate tool graphics



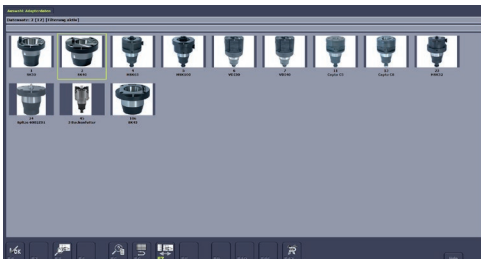
Quick and straightforward presentation of measurement results



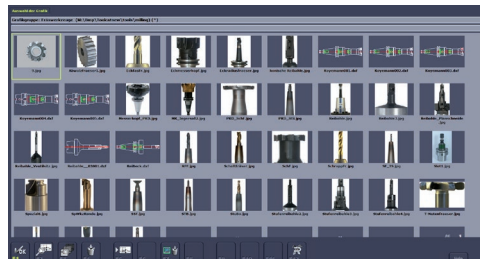
Automatic recognition of cutting edge shape and measuring range with more than 120 different shapes



Specific measuring programs with photo-realistic input dialogue for complicated measuring tasks



Graphical and user-friendly adapter management



Graphics management for quick and error-free tool selection (2D and 3D)

#### Default functions:

- Dynamic memory management for at least 15.000 adapters and tool steps
- Concentricity measurement cutting edges
- Projector function
- Measuring process »biggest cutting edge«
- Tool step management
- Graphical user interface
- Automatic recognition of cutting edge shape and measuring range
- Dynamic crosshairs
- Dimmable cutting edge inspection
- Real-time measurement
- mm / inch conversion
- Independent selection between radius, diameter, absolute value, differential measure, incremental dimension and counter stop mode for both axes
- Automatic zero point monitoring
- Analogue, colour focus meter
- Navigation system »compass« for comfortable axis adjustment and positioning of nominal value
- »cris« function for measuring the maximum contour
- Label printing
- Help system and others

#### Measuring programs:

- Standard measurement method
- Radius over measuring points
- Angle over measuring points
- Concentricity check
- Theoretical point
- Detection of the maximum contour



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