



The universal measuring machine for cutting tools
»genius«

ZOLLER »genius 3« is the universal measuring machine for metal cutting tools. From rapid testing of individual criteria to complete, fully automatic, operator-independent checks your tools are checked quickly, simply and extremely precisely. The measurement results are documented in detail and can be transferred to the grinding machines at the push of a button

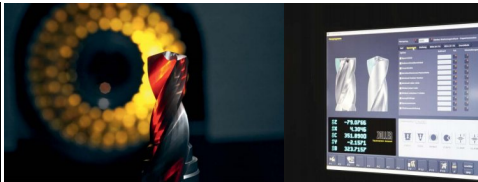


- ✓ Control- and measuring electronics in 5-axes
- ✓ »A.C.E.« universal spindle with power clamping
- ✓ CNC-controlled, ability to pivot and backlash-free indexed camera for radial and axial measurements between 0° and 90°
- ✓ 5-axis CNC control unit, positioning accuracy 0.001 mm linear and 0.01° rotatory
- ✓ Automatic hydraulic expansion for tool
- ✓ Dimensionally stable and distortion-free construction of solid design elements
- ✓ Compact structure and low space requirement
- ✓ Total encasement to prevent dust and extraneous light
- ✓ ZOLLER image processing software »pilot 3.0«

- ✓ Heidenhain glass scales for high measuring accuracy
- ✓ Image processing technology for automatic transmitted light measurement, vision field 4x4 mm, camera HR70 high resolution magnification 50X
- ✓ Image processing technology for automatic incident light measurement, with automatic dimmable incident light, positioned in 8 segments, magnification 160X
- ✓ Camera lighting »micro«, 500-fold magnification, suitable for micro tools
- ✓ Sony cameras with telecentric lens
- ✓ Dynamic cross hairs over entire measuring window
- ✓ Analog focusing display for focusing the tool cutting edge
- ✓ Automatic cutting edge recognition, also greater than 90°
- ✓ Intelligent calibration and automatic search runs
- ✓ Virtual joystick and membrane keyboard / Adapter and tool management
- ✓ Control unit »cockpit« / Tool inspection / Zero point monitoring for process reliability
- ✓ Numerous measuring programs, for example, concentricity and run-out

We reserve the right to make technical changes.

ZOLLER
expect great measures®



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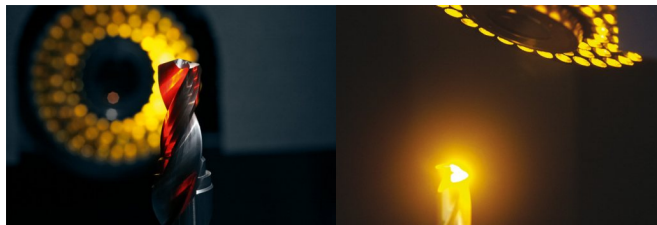
Technical Data	Measuring range Z	Measuring range X	Measuring range Y	Diameter	Snap gauge ϕ
»genius 3«	600 mm / 17.7"	175 mm / 6.9"	100 mm / 3.9"	340 mm / 13.4"	100 mm / 3.9"
Note: The quoted measuring range may be reduced under circumstances when using adapters and tool posts.					

	Diameter snap gauge (2D)	Diameter (2D)	Length (2D)	Clearance angle circumference (3D)	Land width circumference (3D)	Rake angle/ flute depth (3D)	Face geometry (3D)
Tool dimensions	0.1 - 100 mm	0.1 - 340 mm	0 - 600 mm	$\phi < 200$ mm	$\phi < 200$ mm	$\phi < 75$ mm	Z < 200 mm $\phi < 230$ mm step < 35 mm



»pilot 3.0« 24"

State-of-the-art image processing technology

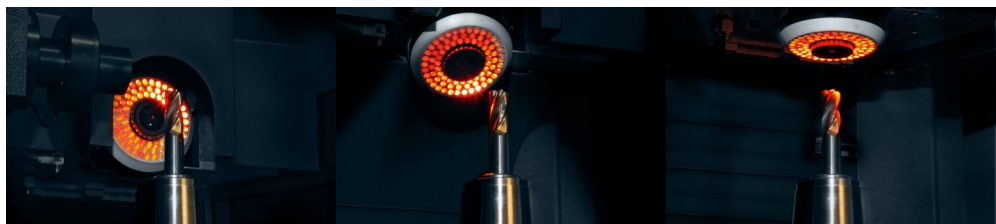


Camera

Camera / lighting »micro«



Control unit »cockpit«



CNC-controlled swivable camera 0°

CNC-controlled swivable camera 45°

CNC-controlled swivable camera 90°



Collet chuck holder/turret



Wooden storage shelf



Storage shelf

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Interfaces



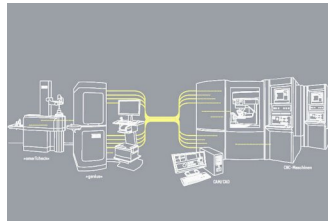
Color laser printer



Label printer



Maintenance unit



Data transmission



»ace« high-precision spindle



High-precision spindle SK50/ vacuum



Hydro-expansion clamping adapter



Hydro-expansion chuck attachment holder



Set of reduction sleeves



Holding fixture D32 mm



Membrane keyboard

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