

320 | 420 | 620

# smile

The entry level for professional  
tool presetting and measuring



**ZOLLER**  
expect great measures®

smile  
320 | 420 | 620

# Success Is a Question of Attitude

ZOLLER »smile« is a must for machining production companies. At least for those who want to secure their success and expand. The advantage of these professional pre-setting and measuring machines lies not only in fast and precise measurement but also in the direct transmission of tool data to processing machines. Errors in data input thus belong to the past, as do machine breakdowns and production faults. At the same time, set-up and downtimes are optimized and all aspects of process safety are enhanced. A variety of reasons for greeting the challenges of the future with a »smile«.



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»eQ« one-hand control handle

Optic carrier with snap gauge

Spindle

Membrane keypad

Robust cladding

## Only the **Best** for You — and for Your Customers

The idea is very simple. High-quality workpieces can only be manufactured using perfect tools and precise machines. For this purpose, tools must be carefully measured and optimally preset. And this can only be achieved when the presetting and measuring machine works precisely to the  $\mu\text{m}$ . That's why only the best components are used for the ZOLLER »smile«. Components like THK guides, Heidenhain measuring systems, and Bosch/Festo pneumatics. The superior design is ideal for heavy-duty workshop use. That way, you can always rely on precision. And keep your customers satisfied with high-quality parts.



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## Many **Advantages** Can Be Seen — Others Felt

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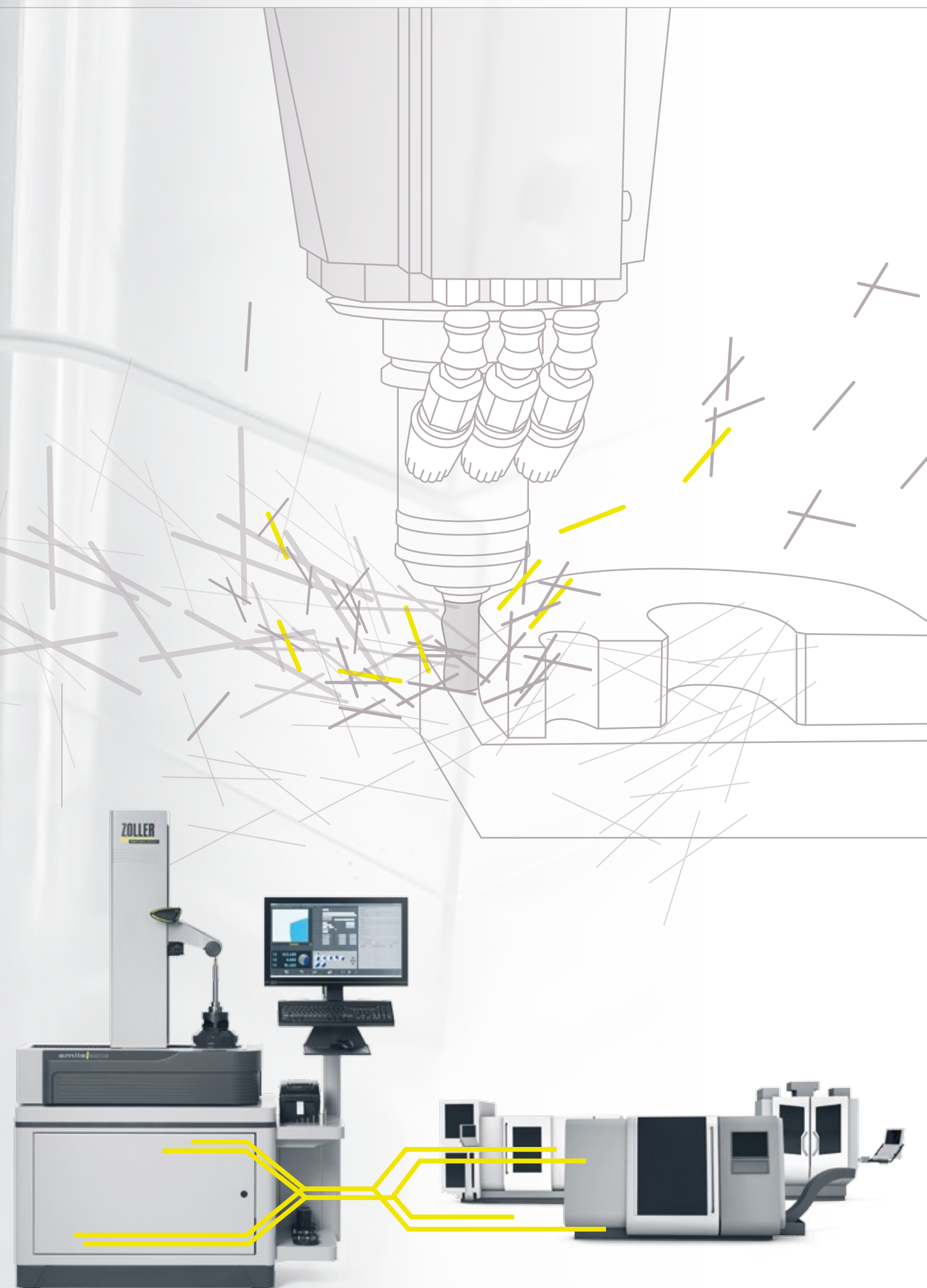
Choosing the ZOLLER »smile« always means deciding in favor of convenience and simplicity of operation. A prime example is the ergonomic one-hand control »eQ«, which brings the optic carrier into position quickly and easily on both axes with the push of a button. Additional working comfort is guaranteed by the variable control unit, the freely accessible tool spindle, the membrane keypad, and the spindle hand wheel.

Providing even more benefits is the intuitive ZOLLER software interface of the »pilot« operating technology, which ensures precise measuring results without extensive training with graphic user guidance. And success stories from day one.

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# For Continuous Motion in Your Production

Set the tool, insert in the machine, transmit data to the machine, and the chips are flying:  
With ZOLLER »smile«, it is possible to transmit tool data directly to the machine control unit.  
This is not only much safer than manual input, but it is also much faster. The outcome of  
networking is fewer machine breakdowns and more productivity.



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# »smile« Always a Good **Solution**

Whatever you are planning — with »smile« from ZOLLER, you're in the right place. Simply select the required measuring range and the version of »pilot« image processing technology that suits you — the measuring ranges and electronics can be freely combined.

## »smile / pilot 1.0«

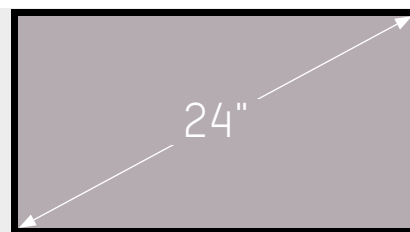
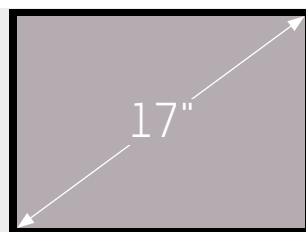
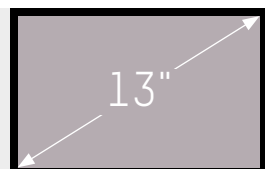
ZOLLER »pilot 1.0« image processing technology provides all the measuring and setting functions needed for quick and easy measurement and presetting of standard tools. This basic version is a solution specifically meant for small and medium lot sizes and offers the highest quality at an outstanding cost-performance ratio.

## »smile / pilot 2 mT«

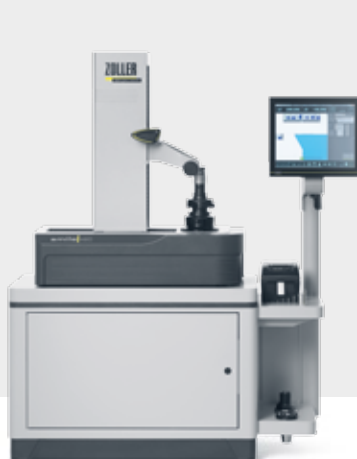
The ideal entry-level variant for networked manufacturing: The intuitive, contemporary touchscreen of »pilot 2 mT« impresses not only with its simple handling but also with customizable settings making it both practical and efficient.

## »smile / pilot 3.0«

The control unit can be modularly expanded for high and complex manufacturing requirements, remaining incredibly user-friendly despite comprehensive capabilities. From presetting, measuring, and inspecting to tool management, »pilot 3.0« covers the entire spectrum of tool measurement.



»smile 320«



»smile 420«



»smile 620«

# ZOLLER Solutions The Solution for Your Success

More speed, greater flexibility, safer processes — with ZOLLER system solutions you'll get more out of all aspects of your production. To assure this, we combine hardware, software, and services with our unique manufacturing expertise for you. Everything from a single supplier. Everything for your success. Everything with ZOLLER solutions.

We look forward to hearing from you:

Tel.: +49 7144 89 70-0 | E-mail: [post@zoller.info](mailto:post@zoller.info)

For more information about our comprehensive range of services, please visit  
[www.zoller.info](http://www.zoller.info)

Technical Data	Axes				Electronics	Holding Arm for Electronics	Variable cockpit Control Unit	180° Tool Spindle Accessibility	Transmitted Light Camera System	Higher Enlargement/Resolution	Tool Holder Spindle	Reinforced Brake	Automatic VSH Change Detection	Automatic Zero-point Monitoring	Increased Clamping Force from Size HSK63 Onwards	Spindle Options	Length Adjustment – Tools	Tool Identification <sup>2)</sup>	Manual Write/Read Station <sup>2)</sup>	Center Height Measuring Device / Camera	Cutting Edge Inspection	Tool Inspection	Electronic Measuring Probe	Machine Table	Shelves	Membrane Keypad	One-hand Control Handle	Maintenance Unit
	Manual	Micro Adjustment   Hand Wheel	CNC Drives	Separate Clamping Z/X																								
»venturion 450«	●	⊙	●	●	-	⊙	●	●	⊙	●	⊙	⊙	⊙	●	●	●	⊙	⊙	⊙	⊙	⊙	⊙	-	●	●	●	●	
»smile 620«	●	⊙	⊙	-	-	⊙	●	⊙	●	-	●	⊙	-	⊙	-	●	⊙	⊙	⊙	⊙	⊙	⊙	⊙	-	●	●	●	
»smile 420«	●	⊙	⊙	-	-	⊙	●	⊙	●	-	●	⊙	-	⊙	-	●	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	●	●	
»smile 320«	●	-	⊙	-	-	●	●	⊙	●	-	●	-	-	●	-	●	-	⊙	⊙	-	-	-	⊙	-	⊙	-	-	
»smileCompact«	●	-	-	-	●	-	-	-	●	-	●	-	-	●	-	●	-	-	-	-	●	-	⊙	-	-	-	-	

## Measurably More Profit

With ZOLLER »smile« and TMS Tool Management Solutions, you reduce tool costs and make full use of your machines because you measure tools especially quickly, easily, and operator-independent. Moreover, you network your presetting and measuring machine with all the stations in the manufacturing process using the z.One central tool database. That means the right tool is at the right place at the right time. And your profits will increase markedly!

Calculate for yourself how much savings potential your company can tap into:

www.zoller.info/en/**productivity calculator**

Technical Data	Measuring Range, Z Axis	Tool Diameter	Snap Gauge
»smileCompact«	350 mm	320 mm	0 mm
»smile«	350 / 420 / 600 / 800 mm	320 / 420 / 620 mm	0 / 100 mm
»venturion 450«	450 / 620 / 820 mm	420 / 620 mm	100 mm

- standard
- ⊙ possible
- not possible

\* Up to max. HSK 63 and only with table  
<sup>1)</sup> Available for table electronics or retaining tube, DME, no CNC, no tool inspection  
<sup>2)</sup> From pilot 2 mT onwards



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[www.zoller.info](http://www.zoller.info)



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