

Presetting and measuring machine
gemini



The presetting and measuring machine for crankshaft cutters and turn-broach tools

»gemini«

Need to preset crankshaft cutters quickly, conveniently and precisely? It's easy with the ZOLLER

»gemini« presetting and measuring machine. The »gemini« is ergonomically designed, which allows operators to easily preset as well as automatically measure and check tools. This means you will profit from top-quality products, increased productivity and seamless documentation.



Using a »gemini« will help you improve the quality of your crankshafts while at the same time giving you numerous advantages in your production process: tool costs, downtime, wear and outlay on maintenance are all reduced. You will save personnel costs thanks to automated and operator-free measurement processes. Mounting the tool cutting edges is made easier by the crankshaft cutter's ergonomic arrangement and tool holder. Also, the »gemini« provides documentation of all the measuring results quickly and accurately in either printed or electronic form.

Preset, measure and check crankshaft cutters – quickly and easily.

Only the ZOLLER »gemini« can do this.

The many advantages will leave you convinced.



ZOLLER »gemini«

Measurement ranges

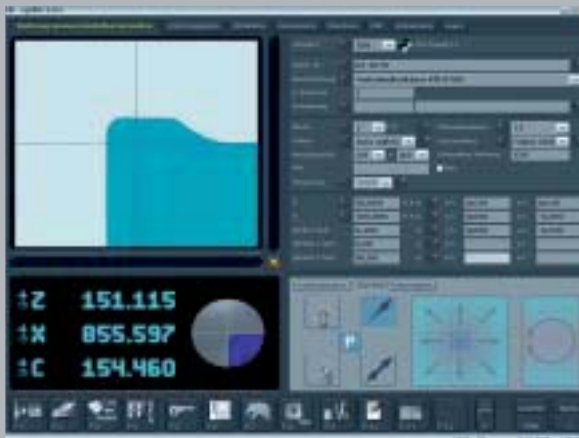
| | Length Z axis | Radius X axis | Diameter |
|--------|------------------|------------------|----------|
| gemini | 150 mm | 500 mm | 1000 mm |

ZOLLER »focus 360i« software measures 120 cutting edges in just 80 seconds: Z, X, W1, W2, cutting edge radius, cutting edge run-out and concentricity!

State-of-the-art technology and intelligent image processing ZOLLER »gemini« with »pilot 3.0«

With the perfect interaction between hardware and software, »gemini« and »pilot 3.0« guarantee precise results and economical operation, from automatic documentation in testing logs to data archiving for repeat work.

Perfect control and automated processes with ZOLLER »pilot 3.0«



»pilot« software interface



Cutting edge inspection (for right-hand cutting tools)

Safe and ergonomic equipment



Force-operated tool clamping, automatic tolerance compensation, and a short taper are used in tool mounting

- » high repeat accuracy when clamping; for high-precision presetting and measuring.



Automatic cutting edge cleaning*

- » for preparing tools optimally for the presetting or measurement process: saves valuable time because only clean cutting edges are measured.



ZOLLER loading carriage and load centering on the toolpost*

- » for safe and ergonomic handling when loading and unloading heavier tools.

All the highlights at a glance:

»pilot 3.0« software gives you perfect control over all processes and measurements, since all the results are automatically documented in testing logs. In addition, all data is archived so that repeat work is carried out quickly and easily.

■ Systematic use of brand-name products

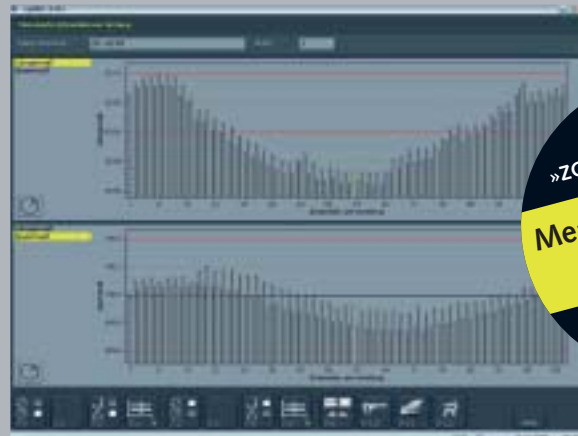
» for reliability, availability and low maintenance costs.

■ Controller and ZOLLER »pilot 3.0« software with graphical user interface

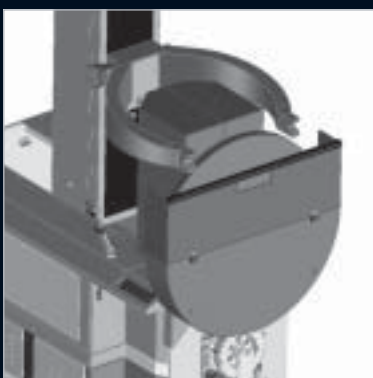
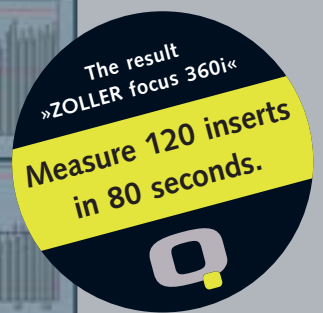
» for fast and safe operation, fully automatic and rapid measurement processes and a range of possibilities for documenting the presetting and measurement results.



»a.e.c.« automatic cutting edge inspection
(for right-hand cutting tools)



"Largest cutting edge" diagram with tolerance band
and cutting edge correction



Protective cover with automatic lift*

» for a high level of operating safety and ergonomics thanks to good access to the tool cutting edge during presetting.

■ ZOLLER »focus 360i« technology

» for quick measuring of all cutting edges at the periphery, the only technology in the world which does this: for huge time savings during full measurement of tools with different cutting edges.

■ Automatic axial run-out compensation

» for a longer tool service life and higher work-piece accuracy: axial run-out errors of the machine spindle are compensated during measurement and presetting.

■ ZOLLER »a.e.c.«

» for automatic cutting edge inspection (for right-hand cutting tools): allows complete checking of the tools at the push of a button and ensures that only 100% correct inserts are installed in the tools. This means that only completely checked tools are used on the machine: set-up times are minimised, quality and service life are maximized.

» With ZOLLER you have the edge.

- » A thriving, independent, family business in its third generation with locations worldwide.
- » ZOLLER has expertise in development, sales and service.
- » Over 25,000 machines worldwide since 1968.

» ZOLLER is there for you – all over the world.

» With ZOLLER you set the standard.



The ZOLLER seal of quality guarantees precision, reliability and cost-effectiveness. That's what ZOLLER stands for.



The ZOLLER seal of technology stands for the highest level of innovation: ZOLLER is developing the technologies today which you will need tomorrow.

» ZOLLER has the simple solution.

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