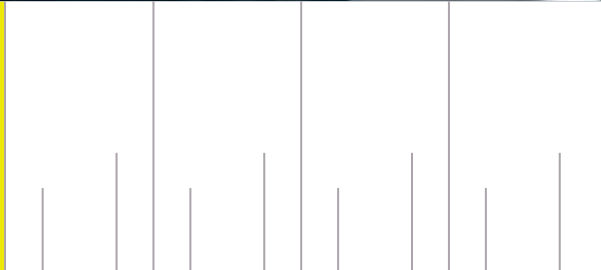
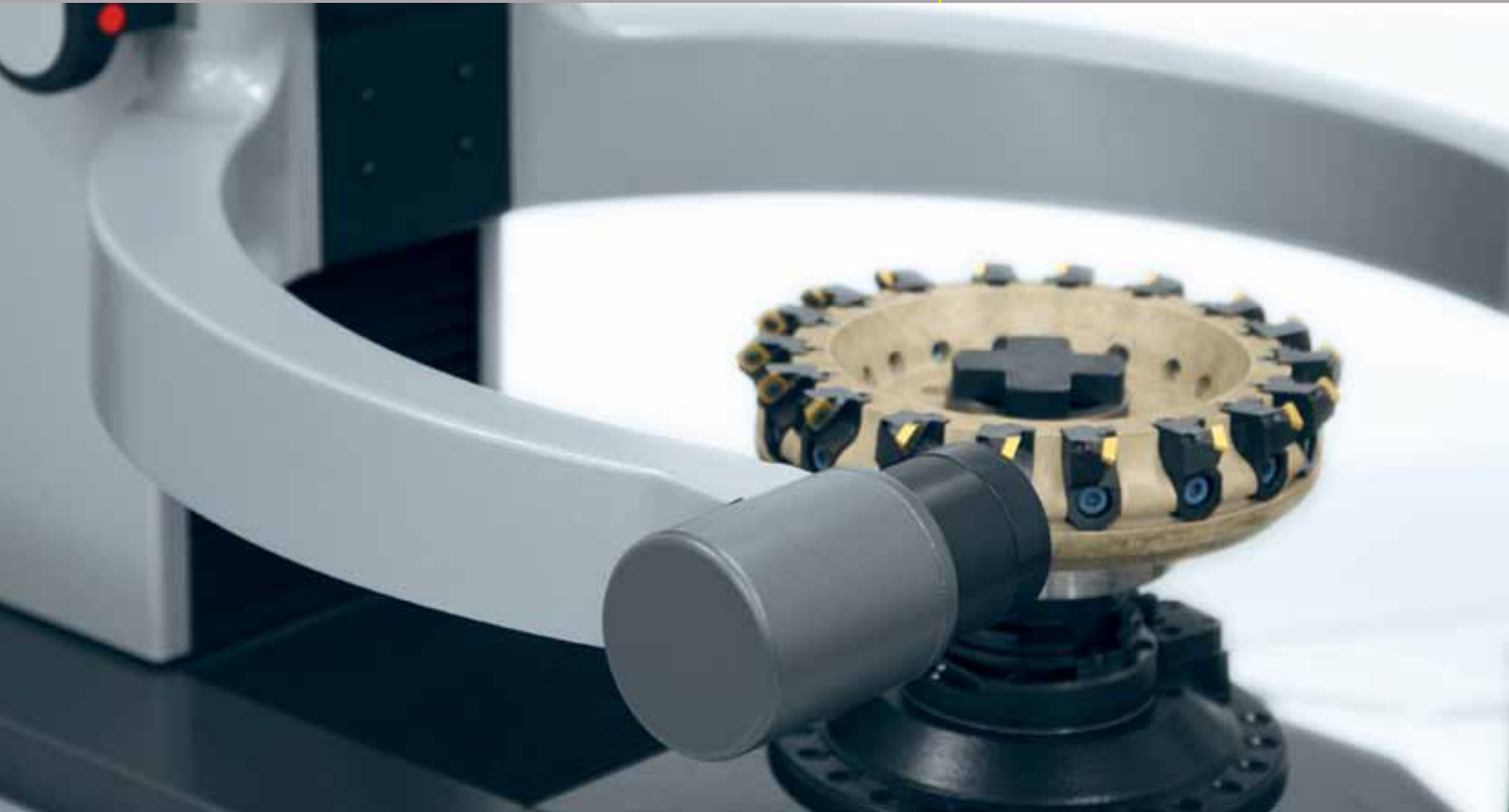


Presetting and measuring machine  
**zenit**



The presetting and measuring machine for milling heads

»zenit«

You want to adjust your face milling cutters and right-angle milling heads precisely to ensure the precision and evenness of your work pieces? You want to increase the service life of your tool

cutting edges to drastically reduced your production and tool costs?

No problem with ZOLLER »zenit«: the high-precision presetting and measuring machine for milling heads and all types of tools increases the quality of your work pieces and lowers the costs.



ZOLLER »zenit« is the presetting and measuring machine for special tasks. Absolutely operator-independent and absolutely  $\mu$ -precise, »zenit« meets all adjustment requirements for multiple milling tools with extreme comfort. Each adjustment task is checked by an automatic measuring process. In addition, the ergonomically designed work station of the »zenit« ensures increased productivity and precision as your operators will appreciate their work station and can work extremely precisely. And last not least, the prolonged service life of the tools drastically reduces costs and increases the quality of the work pieces. In short: ZOLLER »zenit« profits all areas. Convince yourself!

Precise adjustment of face milling cutters and right-angle milling heads, increasing service life:

with ZOLLER »zenit«.

Simply open and be amazed!

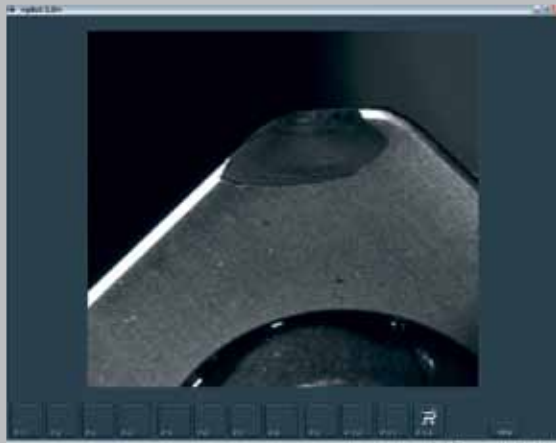
More precise measuring for maximum productivity

## ZOLLER »zenit« with »pilot 3.0«

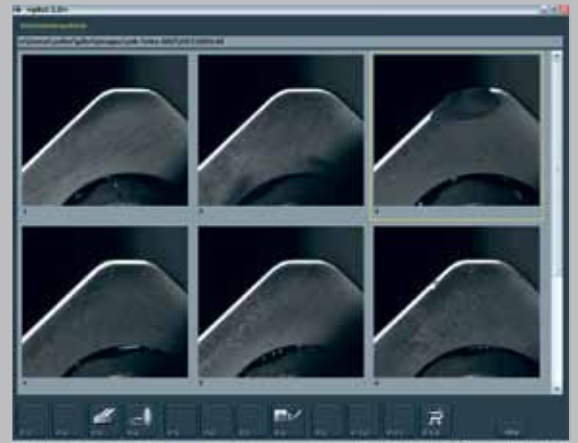
The combination of ZOLLER »zenit« and the »pilot 3.0« electronics allow for efficient and economical operation.

The quality of the tools reduces downtimes, possible complaints are avoided by complete documentation.

### Useful programs for efficient working with ZOLLER »pilot 3.0«



**Cutting edge inspection** (individual cutter/large image)  
to inspect cutter quality



**Automatic cutter inspection »a.e.c.«**  
fast overview of all cutters

### Precise changes and ergonomic operation



1. High-precision spindle »A.C.E.« for power-operated tool clamping at the touch of a button.



2. Easy assembly and adjustment through optimal working height and access to the presetting mechanism or cutter.



3. Satellite monitor for a better overview. (Option)

## All highlights at a glance:

### ZOLLER »pilot 3.0«

- Presetting and automatic measurement of all types of milling heads
- »pilot 3.0« image processing for high operating comfort
- Automatic correction of cutting edge
- Software »univer« milling heads
- »apus« editable test protocol
- »libra« user information/help system
- Automatic cutting edge inspection for a longer service life, better quality of the workpieces and less machine downtime
- $\mu$ -precise adjustment of the axial run-out
- Fully automated presetting and measuring of PCD (3D) cutting edges/cassettes

»pilot 3.0« provides you with customized programs for fast and easy measuring and adjustment of PCD cutters, right-angle milling heads and face cutting edges, as well as tools of all types.



Diagram "Largest cutting edge" with tolerance range and function cutting edge correction



Input dialog »FORED«, example measuring program  
"Milling cutter with roughing and finishing cutting edges"

1. The »A.C.E.« spindle is designed to hold the ZOLLER tool posts for tool systems, such as steep tapers, HSK, Capto, KM and others. Changes of the holding fixtures take 10 seconds - with guaranteed 1  $\mu$ -precision.
2. The hand rest facilitates comprehensive presetting tasks, such as the elaborate setting of three-dimensional cassettes with several keys simultaneously.
3. An additional TFT-Display\* makes the cutting edge display more ergonomic when presetting the tools: cutting edge image, nominal dimensions and deviations are directly in the operator's field of vision.

### ZOLLER »zenit«

- Presetting and measuring of multiple cutting tools, especially right-angle milling heads and face milling cutters
- 2-axis-CNC-controlled model with autofocus
- Base made of special light metal alloy
- Power-operated tool clamping
- Pneumatic spindle brake
- High-precision spindle »A.C.E.« for power-operated clamping and  $\mu$ -precise change of tool posts as well as universal use for all types of tools
- Single-hand operating handle and touch-sensitive keyboard
- Easy operation through photo-realistic input dialogue
- Automatic cutter recognition for maximum setting precision at fast and fatigue-free operation
- Ergonomic work station with optimal loading/unloading height and comfortable access to tools and adjustment screws
- 17" TFT color display with dual operation, keyboard, touch screen and height-adjustable cockpit

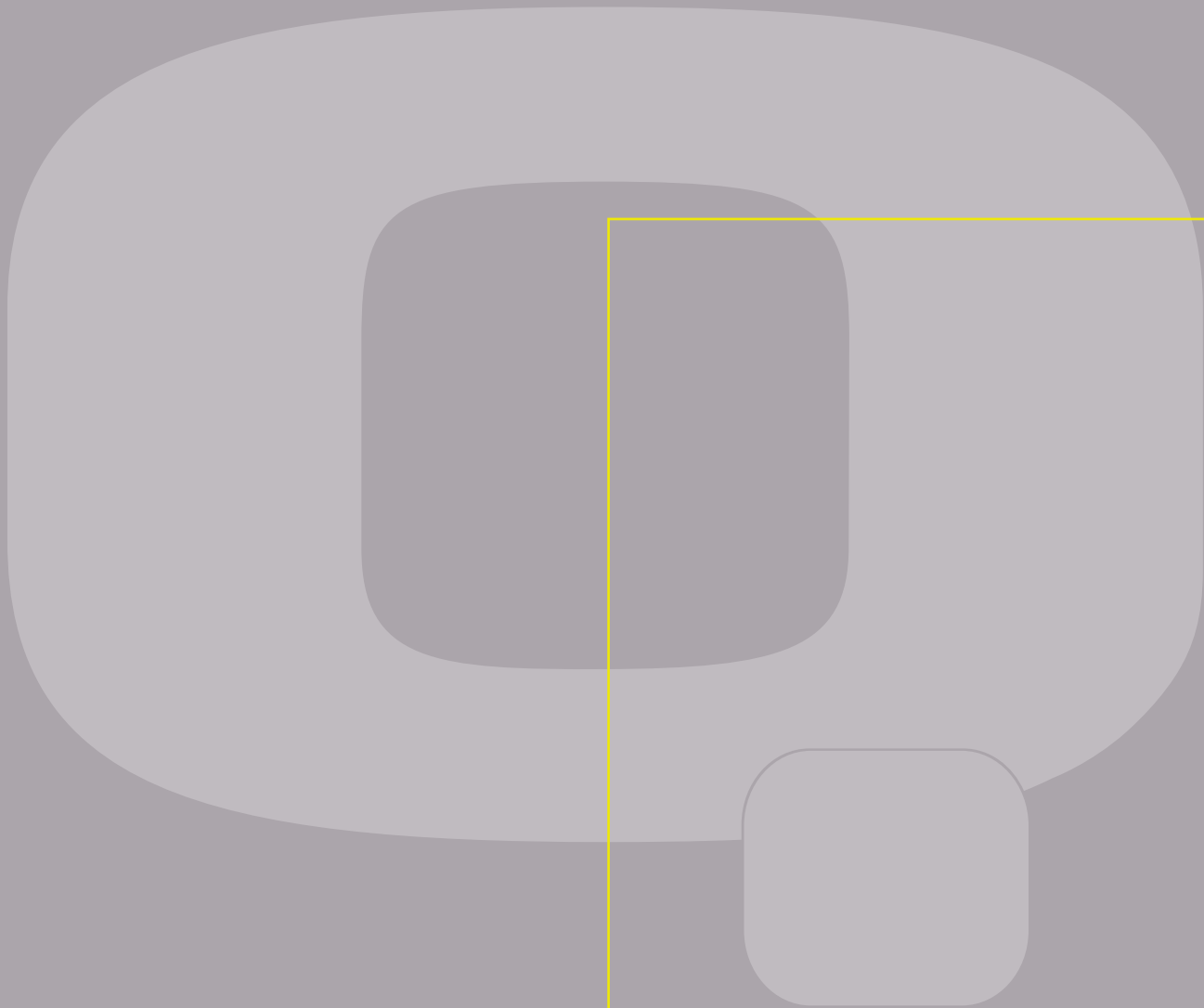
(\* = option)



ZOLLER »zenit«

measuring ranges				
	Length Z-axis	Radius X-axis	Diameter	Snappauge-Ø
»zenit«	600 mm	250 mm	500 mm	250 mm
	800 mm	250 mm	500 mm	250 mm
	1000 mm	250 mm	500 mm	250 mm
	1200 mm	250 mm	500 mm	250 mm

Technical modifications reserved. The depicted machines may include options, accessories and control variants.



» ZOLLER gives you superiority.

» Healthy, family-owned business in its third generation with facilities worldwide.

» ZOLLER has the know-how in development, distribution and service.

» Worldwide over 25,000 presetting and measuring machines as well as tooling machines have been sold since 1968.

» ZOLLER is at your service – worldwide

» Set positive signals with ZOLLER.



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



The ZOLLER seal of technology stands for maximum innovative power: ZOLLER develops the technologies you need tomorrow today.

» ZOLLER offers the easy solution.

ZOLLER UK

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