

ZOLLER Solutions

Measuring Technology 4.0



- ✓ Digitized measuring processes
- ✓ Efficient production process
- ✓ 100% documentation



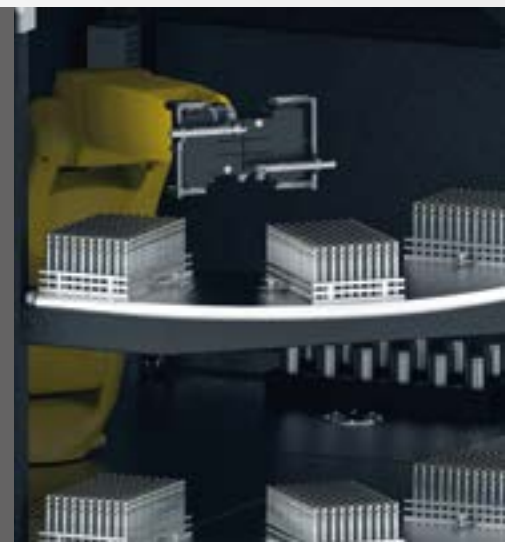
ZOLLER
expect great measures®

For perfect regrinding or manufacturing processes

With Measuring Technology 4.0 Solutions from ZOLLER, you are ready for the networked future – the Smart Factory. Whether incoming tool inspection, manufacturing or final inspection: ZOLLER offers the perfect solution for checking and measuring tools, for tool storage, and for automation concepts – all networked with the z.One central tool database.

- The shop floor compatible compact solutions for universal tool inspection are easy to operate, and adapted to your requirements.
- Tool management, easy measuring of the grinding wheel package, data transfer and the inspection of first grinding results are all essential for the effective setup of grinding machines.
- No more searching for tools and accessories. With Smart Cabinets by ZOLLER, these software-linked storage cabinets ensure maximum transparency and organization with minimal effort.
- Smart automation solutions ensure high quality and deliver high efficiency.

**For 100% perfect tools and digitized processes –
Measuring technology 4.0 by ZOLLER**



Measuring Technology 4.0 in your grinding department



TMS Tool Management Solutions software offers everything for efficient tool management. This software solution can be linked with CAM, ERP, and other systems.



z.One is the central database. It ensures data consistency throughout all steps of the production process, in ERP and other software systems.



Incoming tool inspection with the »pomBasic« universal tool inspection device, and the »reGrind« software module



Generate the measuring process on an external workstation using the »caz« software module, which simulates a measuring machine



Assemble grinding wheels at the workbench, supported by the »keeper« and »toolOrganizer« Smart Cabinets



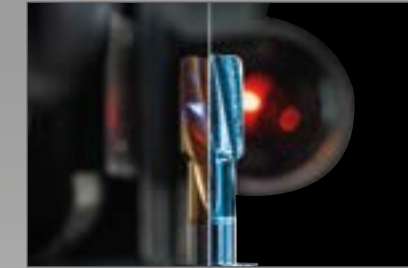
Measure grinding wheel packs with the ZOLLER »smile« measuring machine



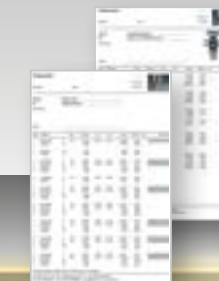
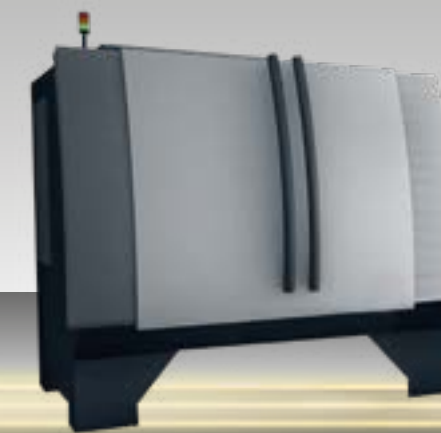
Transfer measured tool data to the grinding machine with one mouse click in the »pilot« measuring machine software



Automate final tool inspection with »roboSet 2« and the »genius« universal measuring machine



On a networked shop floor, every real tool needs a digital twin in the virtual world — created quickly and easily, and managed within the TMS Tool Management Solutions



1

Tool and Data Delivery

With the delivery of the tools, tool data is included, either in DIN or ISO format. All data for tool organization are managed via the z.One tool database.

2

»pomBasic« Inspection Device

»pomBasic« is the compact solution for universal tool inspection. Actual data are recorded and wear dimensions for tool regrinding are determined. Data is transferred automatically using the »reGrind« software module.

3

»caz« External Workstation

»caz« stands for computer-aided ZOLLER and is a virtual measuring machine. With this software solution you can generate and simulate the measuring processes on a external workstation.

4

Smart Cabinets Storage Systems

Smart Cabinets store grinding wheels, components and accessories not only in a safe and clear manner, but they also enable an automatic stock control. The graphical display of the storage location facilitates it to find your work materials.

5

»smile« Measuring Machine

With »smile« you can measure all relevant geometries of grinding wheels and tools. With »pilot« measuring software you can handle many things with just a click of the mouse. For example completing the measuring processes generated in »caz«.

6

Data Transfer to the Grinding Machine

The open data interface, GDX (Grinding Data Exchange), ensures the direct data exchange between CAD/CAM system, ZOLLER measuring machine (for example, the »genius«), and grinding machine. Measuring processes are generated automatically and completed securely.

7

»roboSet 2« Automation Solution

»roboSet 2« — in connection with the »genius« universal measuring machine — is the automation solution for the final inspection of finished tools. Every tool is checked 100% before delivery.

8

Digital Twin in Work Proceeding

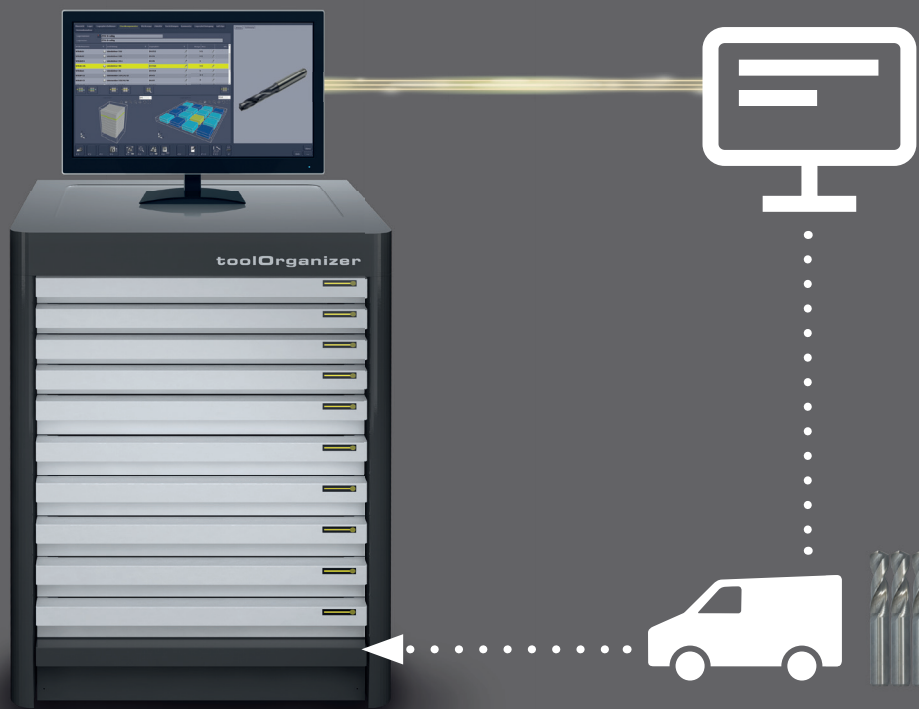
Representing work procedures in tool management is done using the digital twin of every single tool. This twin includes geometries and production data, which are available at any time.

9

100% Quality 100% Documented

Measurement values are available in reports and can be completed including other parameters. All measurement data and tool data are available in the z.One database.

ZOLLER Solutions Consignment Stock



- You provide the Smart Cabinets, including tool management software from ZOLLER, to your customer.
- Your customer uses tools as needed. You will be informed when the minimum stock level is reached.
- You deliver new tools in time. Your customer only pays for tools they use.

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We reserve the right to make technical changes. The depicted storage systems and machines may include options, accessories, and control variants. BRMETE4.00-EN 07/2019.