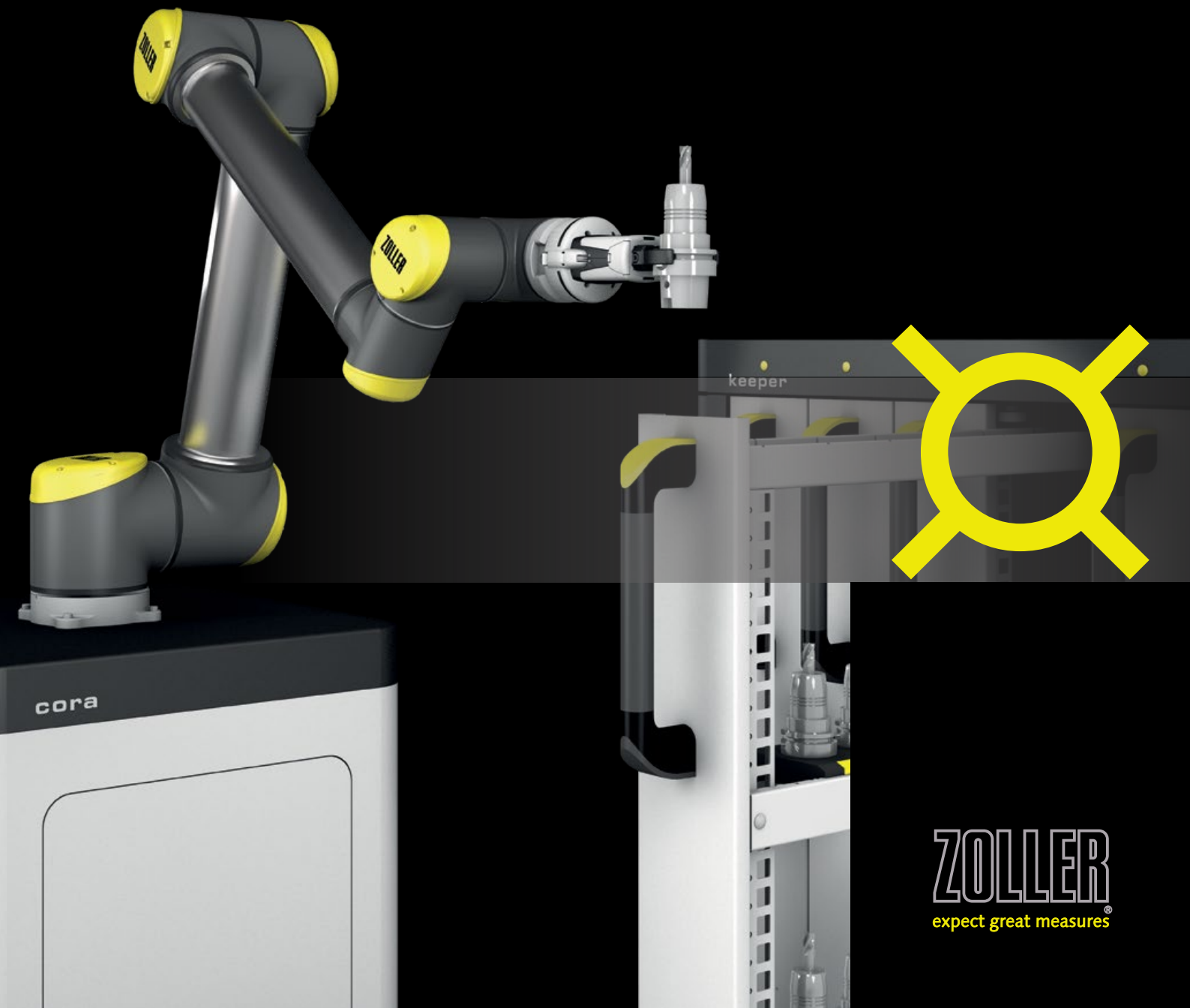


ZOLLER

Smart Automation

Automation Solutions for Cutting Tools



ZOLLER
expect great measures®

The Right Contact for Automation Solutions for Cutting Tools

ZOLLER offers the right solution for any task related to automated tool handling.

In an era where companies are facing a shortage of trained professional workers, automating everyday tasks – whether in the tool grinding shop or in tool preparation, delivery, and set up – can be the answer to this challenge.

Depending on requirements, the solution may be a closed system with additional modules, a complex automation concept, or collaborative robot support in the tool room.

You can achieve any degree of automation for your system based on your ZOLLER presetting and measuring machine with CNC drives ready for automation – and expand as needed. You can purchase solutions today for machines that have been on your shop floor for years. And you will still be able to do so into the future, guaranteed.

Everyday Work in Tool Handling

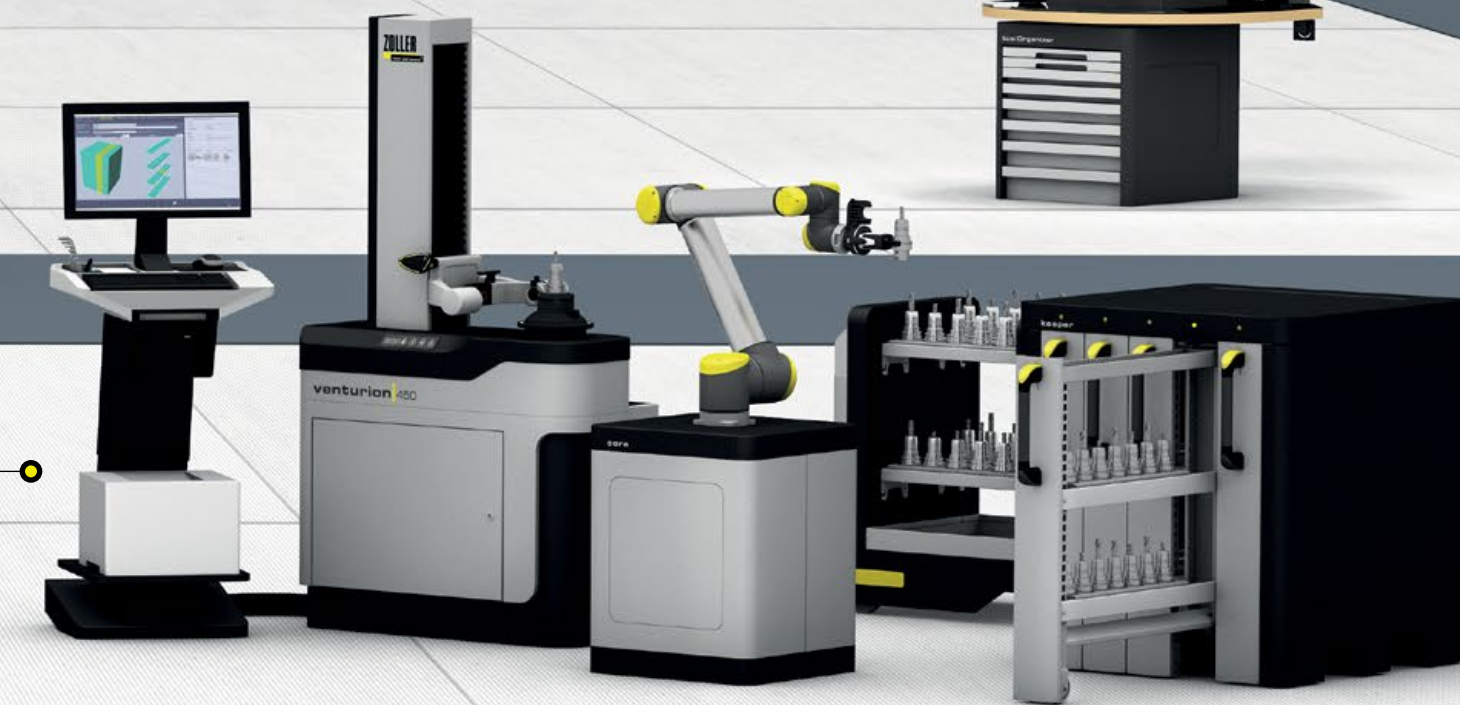


In the tool grinding shop:

- Measure and inspect tools
- Transfer and sort tools
- Clean and mark tools
- Package tools and label packages

During tool delivery and in the presetting room:

- Pick and assemble tools
- Preset and measure tools
- Transfer tools
- Clean tools
- Label tools



24/7 Tool Inspection with »roboSet 2«

The combination of a ZOLLER universal measuring machine for tool measurement and the »roboSet 2« automation solution is specially designed for tool manufacturers and grinders with a high tool throughput. Equipped with a multi-pallet system and double gripper, it can process and document large numbers of tools fully automatically. Around the clock, 7 days a week, and fully automated. The measuring machine can also be operated autonomously.

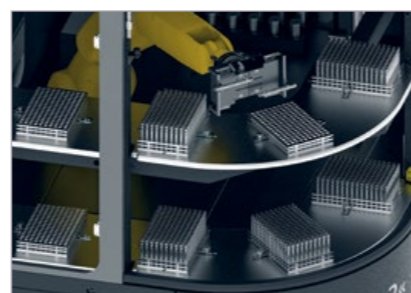


Your Benefits in Tool Inspection

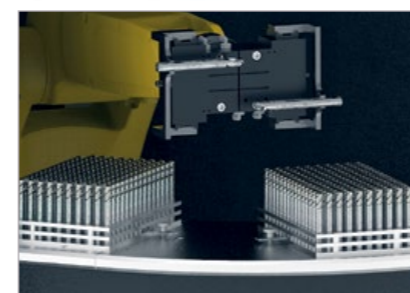
100% tool check and 100% inspected quality

High measuring accuracy and reliability

24/7 autonomous measurement



The **eight pallets on two levels** have capacity for up to 1800 tools. Tools are sorted according to their condition.



The **double gripper** loads and unloads the universal measuring machine in one highly effective work step.



»**roboClean**« cleans tools before measurement with ultrasound. This eliminates incorrect measurements due to chips or deposits.



»**roboMark**« labels the tools directly after measurement – individually and even with measurement data that was just generated.

Automated Tool Presetting with »roboSet«

Whenever you need tool handling in automated systems with robots or other transfer elements, »roboSet« is the right solution: Automation and transport components are combined with a ZOLLER presetting and measuring machine and other modules or elements if necessary to create a complex production line, then optimally adjusted to the control. Automated production lines can process a wide variety of even highly complex tasks quickly and reliably in sequence. Like automated presetting.



Your Advantages in Presetting and Measuring

Standardized work processes

High reliability

Presetting results precise to the μm



Fully automatic presetting and measurement for consistent tool parameters and a high level of predictability in production.



The pneumatic double gripper for tool holder and tools offers a fast feed and good safety.



The tool cart picks up complete tools and can be filled by the robot in the docking station.

Fully Automatic Tool Room with »cora«

The »cora« collaborative robotic assistant supports humans in all standard tasks in automated tool preparation. Thanks to a connection to the ZOLLER TMS Tool Management Solutions software, the storage location of each tool and component is known. »cora« can, for instance, independently open the »keeper« tool cabinet, remove the prepared complete tool, insert it into the presetting and measuring machine and start the measurement process. In addition, your tools can be picked, assembled, clamped, cleaned, and labeled fully automatically.

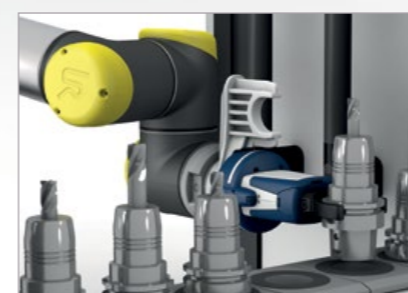


Your Benefits in Automated Tool Preparation

Tool measurement during production

Transmission of standard tasks to »cora«

Extremely high predictability



The **gripper** can securely grip a wide range of complete tools and a variety of tool holders, positioning them in both the presetting and measuring machine and in the Smart Cabinets or tool cart.



The specially configured additional **handle** can securely grip and operate the pull-outs of the »keeper«. After opening or closing, it is swiveled by 90° and does not interfere with tool handling.



Networked with the **z.One** database and integrated into ZOLLER TMS Tool Management Solutions, »cora« handles tool storage and delivery processes independently.

ZOLLER Service

Your goal is maximum efficiency for your production. Our goal is to support you with well-designed system solutions. We also offer you a comprehensive service for this. Whether in the personal consultation on site or when developing perfectly tailored solutions for individual requirements – if you choose ZOLLER, you not only get excellent products, you also get unique production know-how, as well as qualified contact partners to answer questions at any time - over the entire life cycle of the ZOLLER products. Make use of the ZOLLER know-how to optimize your production processes.



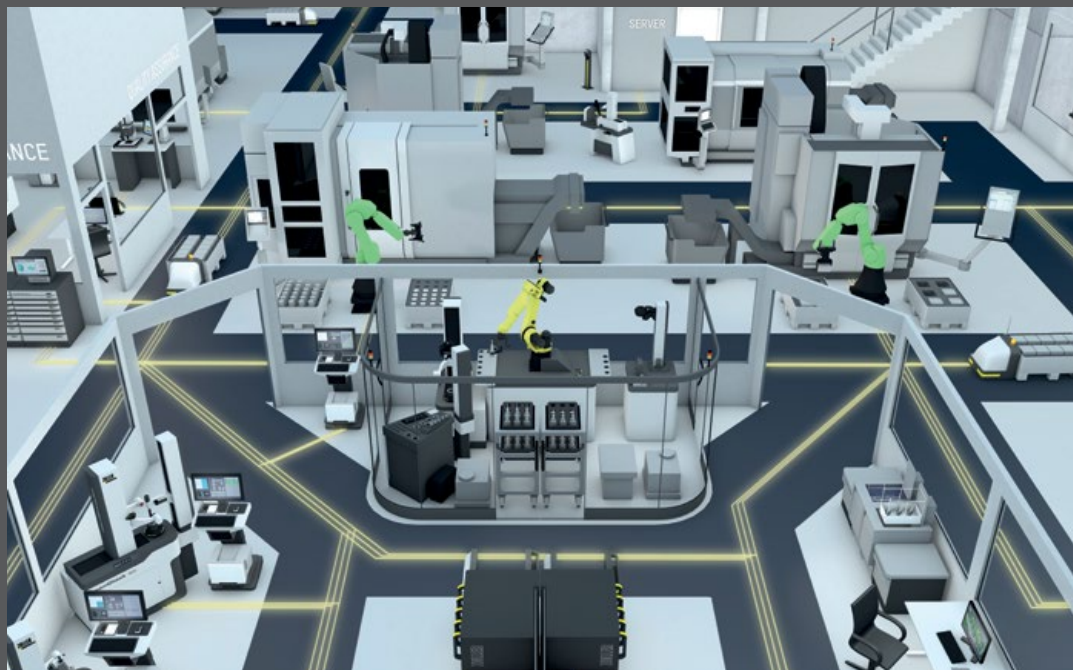
Alexander Zoller | Christoph Zoller



ZOLLER Solutions

With us, you get more than excellent products. You get individual system solutions connected with your tools. To do this, we combine hardware, software, and services. Everything from a single supplier. Everything for your success. We call it: ZOLLER Solutions.

ZOLLER Automation Solutions Can Revolutionize Your Tool Measurement



Robotic handling, in conjunction with the fully automatic measuring solutions offered by ZOLLER presetting, measuring and inspection machines, is the logical next step toward automated tool measurement.