

Press release

07/07/2025

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Innovative System Solutions from Pleidelsheim

With ZOLLER on the Way to the Smart Factory

The family-owned and technology company E. ZOLLER GmbH & Co. KG will be presenting itself at EMO 2025 in Hanover as a full-range supplier for presetting, measuring and inspecting tools as well as for managing tools and tool data in metal-cutting production. of tools as well as for the management of tools and tool data in cutting manufacturing. The comprehensive product portfolio ranges from economical presetting and measuring machines as basic equipment to digitalized and automated tool organization in a Smart Factory. The Pleidelsheim-based technology specialist thus once again demonstrates its outstanding expertise in all aspects of presetting, measuring and preparing cutting tools for future-oriented, digitized and internationally competitive manufacturing. **Start with a Solution - Enter a System: ZOLLER brings its system solutions for more efficiency in production to life at EMO.**

ZOLLER is currently positioning itself as a complete provider of system solutions for greater efficiency in machining production. From production planning and the tool store to tool preparation to the CNC machine and via tool disassembly back to the store, all tool data is digitally recorded and managed. With its Tooling Solutions, ZOLLER offers the perfect interface for digital manufacturing and provides the optimum components and equipment throughout the entire manufacturing process.

Smart processes with ZOLLER

In the work preparation department, the tool data is recorded with the TMS Tool Management Solutions software. Tools are stored and managed in a clear and structured manner in the Smart Cabinets storage system. The »toolOrganizer« tool cabinets are designed for cutting tools and small parts of all kinds. The sturdy »keeper« storage cabinets hold complete tools and tool holders. The »toolStation« workbench provides skilled personnel with an optimum workstation for convenient tool assembly and disassembly. The energy-efficient, ergonomic heat-shrink system »powerShrink 400/600« is ideal for shrinking tools. To balance tools, the specialists use the highly precise and safe »toolBalancer« balancing technology. The tools are set and measured on the »smile« or »venturion« presetting machines, and they are automatically fed into the magazines of the CNC machines with the help of the »coraLogistic«, »coraMeasure LG«, »loadBox«, »roboBox« or »coraMachineLoad« automation systems.

Manage paperless

At all stations, the tool data is recorded via barcodes, QR codes or DataMatrix codes, either with the »idChip« technology with hand-held scanners in connection with the »zidCode« tool identification, and



Fig. 1: ZOLLER shows its comprehensive product portfolio from economical presetting and measuring machines as basic equipment to digitalized and automated tool organization in a Smart Factory.



Fig. 2: Christoph Zoller, Eberhard Zoller and Alexander Zoller (from left to right), the Managing Directors of E. ZOLLER GmbH & Co. KG, present the ZOLLER world novelties for tool heat-shrinking and balancing as well as Tooling Solutions.



Fig. 3: With »zidCode 4.0« and the ZOLLER »idChip«, the tools communicate directly with the CNC machine.

centrally managed in the z.One database. ZOLLER's »zidCode« technology ensures secure data transfer to the CNC machine. It identifies the tools and automatically transfers all production-relevant data to the control of the CNC machines. With the further developed technology »zidCode 4.0« and the data memories »idChip«, the tools even communicate directly with the CNC machine. With the help of the »z.DMI« system, tool data is sent to or received from machine controls such as Siemens, Heidenhain or FANUC without additional manual input and confirmation. This drastically reduces set-up times at the machines, and also avoids faulty data transmissions and thus uneconomical downtimes and delays due to so-called crash or components produced as rejects.

With the components and software from ZOLLER, manufacturing companies realize a paperless, continuously digitized and automated tool organization. In this way, they create maximum transparency and flexibility in tool use. With its system solutions, ZOLLER supports manufacturing companies on their way to the Smart Factory.

Continuously innovative

Starting with presetting and measuring devices of the »smile«, »venturion« and »hyperion« series for simple and reliable measuring and presetting of drilling, turning and milling tools, the company has significantly expanded its portfolio of devices, software and services in the recent years through intensive innovation. This includes, in particular, the integration of the newly developed inductive shrinking technology in the universal setting and measuring machine »redomatic«. The certified heat-shrink systems of the »powerShrink 400/600« series have already proven their worth as stand-alone solutions in numerous manufacturing plants. They combine maximum operating convenience with energy efficiency and maximum safety. The same applies to the »toolBalancer 550/750« balancing system, which uses pioneering technology to balance tools for HSC machining safely and with high precision.

Automate modularly

ZOLLER goes one step further and paves the way to the Smart Factory with its modular Automation Solutions. For the automation of the many upstream and downstream processes in tool provision with previously labor-intensive activities, ZOLLER offers solutions with its modular concept for the tool logistics, tool commissioning as well as in tool assembly and tool measurement.

The logistics modules of »coraLogistic« know when to take which tools where. They find themselves independently and save a lot of time by eliminating manual transports.

With »coraMeasure LG« tools can be automatically identified and measured. The tools are identified using ZOLLER »idChip« technology. A ZOLLER presetting and measuring machine takes care of the measuring process for the tools.

Fully automated, the retrieval system with the »loadBox« provides the desired tool deliveries from the central tool storage. The tools leave the warehouse on time and are delivered to their destination in the production.



Fig. 4: The newly developed »powerShrink 400/600« shrink series for shrinking tools with optimum energy efficiency and maximum safety.



Fig. 5: With the newly developed »toolBalancer 550/750« balancing system from ZOLLER, you balance your tools with state-of-the-art technology and ergonomic design.

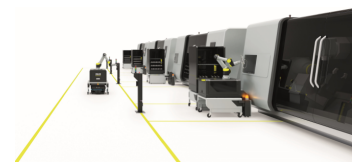


Fig. 6: ZOLLER Automation Solutions transfer tools fully automatically to the CNC machine - for more productivity in production.

»roboBox« automates processes such as the assembly, measurement, presetting and shrinking of tools. It then transfers the tools directly to »coraLogistic«.

»coraMachineLoad« takes care of the automated loading and unloading of the machine: The measured tools are transported to the machine by »coraLogistic« and reliably inserted into the tool magazine by the »coraArm« robot unit.

The production planning of ZOLLER Automation Solutions is handled by the ZOLLER webTMS software. Here, the data of the entire ZOLLER system converge according to the modules used. All tool data is managed clearly and accessible at any time and made available for the applications in production as well as in the automation modules. In this way, you maintain an overview and control of all processes at all times.

Always up to date online

For the complete digitalization of all processes related to tools, ZOLLER is also constantly developing its MYZOLLER customer portal. The portal serves to simplify and effectively manage business processes and offers a fast online service. With MYZOLLER, customers are able to manage their ZOLLER products online. Consumable and individual parts as well as maintenance contracts and licenses can be managed online. The webshop offers a simple, clear and fast selection of the requested products, provides the digital twin at the push of a button and guarantees price transparency in a demanding procurement market. In addition, ZOLLER's customer portal provides information on training for personnel, on new products, and on in-house technology presentations, at partner events and trade fairs. Via the 1:1 expert meeting, customers can get in direct contact with the ZOLLER expert and receive individual advice for their needs.

About E. ZOLLER GmbH & Co. KG

E. ZOLLER GmbH & Co. KG., headquartered in Pleidelsheim near Stuttgart, has a passion for presetting and measuring technology, and has been developing innovative solutions for more economical production processes for 80 years. At present, the company has installed over 40,000 presetting and measuring machines worldwide with unparalleled software solutions.

Today, ZOLLER offers everything users need for efficient and reliable tool handling in cutting processes. ZOLLER solutions are used to physically and digitally record, measure, manage, store, and inspect tools throughout the entire tool life cycle. An international network of branch offices and representatives guarantees the highest possible quality of service through personal customer advising.

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Hall 4, Booth C21**