

Press release

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ZOLLER: Complete System for Data and Tools

On the Way to the Smart Factory

The family and technology company E. ZOLLER GmbH & Co. KG is showcasing at AMB 2024 in Stuttgart its outstanding expertise as a full-service provider for tools and tool organization. The comprehensive product portfolio of the Pleidelsheim-based technology specialist ranges from economical presetting and measuring devices as basic equipment to digitalized and automated tool organization in a Smart Factory. Start with a solution – Enter a system: Experience sophisticated components and comprehensive complete systems for more efficiency in production with ZOLLER at the AMB 2024.

With its Tooling Solutions, ZOLLER offers the perfect interface for digital manufacturing and provides the optimum components and devices for the entire manufacturing process.

Benefit from Digital Tool Data

In digitalized production, tool data is recorded and managed with the ZOLLER-Software TMS Tool Management Solutions. This applies to all stations and areas from tool planning, the tool store and tool preparation up to the CNC machine and via tool disassembly back to the store. This means that tool data can be used efficiently throughout the process, from work preparation to the CNC machine. This ensures maximum transparency, consistently reliable processes and flexible use of tools. It also optimizes the stock of tools and thus makes a significant contribution to economical production.

Perfectly Prepared Tools

The 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 storage cabinets of the »keeper« series accommodate complete tools and tool holders. The »toolStation« workbench provides an optimum workstation for convenient tool assembly and disassembly for specialist personnel. The energy-efficient, ergonomic shrink fit units in the »powerShrink 400/600« series are suitable for shrinking tools as well as the combined system »redomatic« with inductive shrink-fit technology integrated in the universal presetting and measuring device. To balance tools, specialists make advantageous use of the high-precision and safe »toolBalancer 550/750« balancing technology of ZOLLER. The tools are set and measured on the presetters »smile« or »venturion«. In the field of micro tools, the compact »pomBasicMicro« right next to the CNC machine demonstrates its unbeatable capabilities.

Of course, the ZOLLER product portfolio also offers the right measuring and inspection devices for grinding wheels – the »genius«, smartCheck«



Image 01: ZOLLER is showcasing its comprehensive product portfolio, from economical presetting and measuring machines as basic equipment to digitalized and automated tool organization in a Smart Factory.



Image 02: Tools and accessories are stored in a clear and structured manner in the Smart Cabinets storage system from ZOLLER – perfectly networked in the production process.

and »threadCheck« device series impress with their innovative, reliable ZOLLER high-end design.

Secure Paperless Production

At all stations, the tool data is recorded and transferred via barcodes, QR codes or DataMatrix codes, optionally with »idChip« technology, using hand-held scanners in conjunction with the tool identification »zidCode«. All data is managed centrally in the z.One database. The ZOLLER »zidCode« technology ensures secure data transfer to the CNC machine. It identifies the tools and automatically transfers all production-relevant data to the CNC machine control system. 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 system »z.DMI«, tool data is sent to or received from machine controls such as FANUC, Heidenhain, Makino, Mazak, Matsuura, Okuma and Siemens without additional manual input and confirmation. This drastically reduces set-up times on the machines and also avoids incorrect data transmissions and therefore uneconomical downtimes. The tool data is automatically written back to the database. This also keeps tool life data up to date.

Fully Automated

Manufacturing companies can fully automate all processes from the warehouse via tool preparation to the CNC machine with the modular Automation Solutions components from ZOLLER. This allows them to easily cope with the current shortage of skilled workers. For example, with the »coraMeasure LG« automation system, tools are delivered on pallets to the presetting and measuring machines using a gantry robot. This can be realized in combination with any presetting and measuring machines from all ZOLLER series.

The ZOLLER »roboBox« automates all tool preparation activities, from mounting, measuring and setting to shrinking. The »coraLogistic« system is designed for unmanned transportation from the warehouse to the CNC machine. It consists of the logistics modules »coraTransporter«, »smartPallet« and »coraExpress«. Guided by digital data, tools arrive fully automatically from the assembly station »toolStation« stored in the transport pallets of »coraTransporter« (optionally »smartPallet«) on the »coraExpress« driverless transport trolley to the specified stations. Manual transportation is no longer necessary and the misdirection of tools is eliminated.

The »loadBox« system can be used to automate the picking and provision of tools in production from a central warehouse. Tool magazines on CNC machines are loaded and unloaded with the »coraMachineLoad« systems. The »coraMove« loading module places the tools precisely.

Control with Software from the Cloud

The webTMS software from ZOLLER controls and monitors all processes in the overall Automation Solutions system. All integrated tool data is managed clearly and can be accessed at any time and made available for the applications in production and in the Automation modules. This ensures maximum reliability, optimum transparency and enables flexible control of the integrated processes.



Image 03: With »zidCode 4.0« and the ZOLLER »idChip«, the tools communicate directly with the CNC machine.



Image 04: Automated tool measurement with the »coraMeasure LG« automation system and the new »smartPallet« module.



Image 05: ZOLLER Automation Solutions transfer tools to the CNC machine fully automatically – for maximum efficiency in production.



Picture 06: Production control of ZOLLER Automation Solutions with the ZOLLER software webTMS.

Online Always Up To Date

ZOLLER is also constantly developing its MYZOLLER customer portal to fully digitalize all tool-related processes. The portal simplifies and streamlines business processes and offers a fast online service.

MYZOLLER enables customers to manage their ZOLLER products online as well as consumables or individual parts, maintenance contracts and licenses. All machine documents are now also managed via the customer portal.

The webshop offers a simple, clear and quick selection of the requested products, provides the digital twin at the touch of a button and guarantees price transparency in a demanding procurement market. ZOLLER also uses its customer portal to provide information on training courses for staff, new products and technology presentations in-house, at partner events and at trade fairs. Customers can get in direct contact with ZOLLER experts via the 1:1 expert meeting and receive individual advice for their needs.

Visit ZOLLER at the AMB trade fair in Stuttgart: Hall 1, Booth 1G50

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 more than 79 years. At present, the company has installed over 43,000 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 support.

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