

ZOLLER
expect great measures

Tool Holders – The Perfect Interface
for Digital Manufacturing

Tooling Solutions





We, the family-owned and technological company, ZOLLER, align our product portfolio entirely to this spirit of uniqueness. Our ZOLLER Solutions technology provides our ZOLLER Solutions with an outstanding product enhancement – a trendsetting step toward the ZOLLER total solution.

Typical ZOLLER:
Everything from a single source.

CHRISTOPH ZOLLER, ALEXANDER ZOLLER
Management

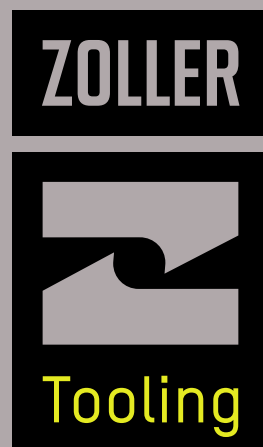


We Stand for Smart Solutions

ECONOMICS

ZOLLER is always a step ahead in the development of new products, creating solutions for the future. We have been following this principle for decades, and not only with our measuring machines. Equip yourself for the digital requirements of tomorrow and prepare for the Smart Factory of the future – with our ZOLLER Tooling Solutions:

Tool holders with ZOLLER »idChip«. We deliver all tool holders with an integrated chip and DataMatrix code on request. This allows you to clearly identify your tool holder at all times, with a comprehensive overview of all information: The number of heating processes, uses on the machine, and much more. The finish of key functional areas on the tool holder, such as the hard-turned clamping shoulders and drive slots guarantees a long lifetime and outstanding precision in the machining process. Sustainable and economical: that is the future.



Networked processes

Precision guarantee

Everything from a single source



We Stand for Networked Technology

SOLUTIONS

The ZOLLER »idChip« is made from exceptionally robust material. The 3-groove technology in the chip bore of the tool-holding fixture guarantees a form fit with the adhesive, for a safe and fixed connection. ZOLLER Tooling Solutions – the tool-holding fixture system, as perfect interface for your digital manufacturing.

MYZOLLER portal with web shop. We go one step further and present you the ZOLLER Tooling Solutions online: Our web shop ensures a simple, clear and fast overview of the selection of your requested products, in addition to providing the digital twin at the push of a button and, on top, guarantees price transparency in a demanding procurement market. The MYZOLLER portal is our contribution to your digital networking with ZOLLER: reliable, innovative, successful – typical ZOLLER.

Perfect systems embody pure intelligence:
A network of skills and components provides
the basis for our innovative ZOLLER products –
for maximum efficiency from a single source.

CHRISTOPH ZOLLER
Managing Director

Guaranteed quality

Networked future

Available in the ZOLLER web shop



Over 2000 Highly Qualified Holders

ZOLLER Tooling Solutions offer a comprehensive range of tool holders for any requirement in your machining process. All of our holders are consistently rated better than DIN requirements.

Experience our tool holders online and via video at solutions.zoller.info/en/tooling

SK 40/SK 50 steep taper and MAS BT 30/BT 40/BT 50/BTD 30/BTD 40 steep taper:

All ZOLLER Tooling steep tapers are consistently better than AT3 taper angle tolerance quality. This results in a perfect precision fit in the spindle.

HSK-A/HSK-E/HSK-F hollow taper shank: All ZOLLER Tooling hollow taper shanks have hard-turned functional surfaces. This ensures you benefit from a perfect connection between the machine and tool.

PSC 40/PSC 50/PSC 63/PSC 80 polygonal shank coupling: All ZOLLER Tooling polygonal shank couplings have consistently better actual geometry than the targets for polygon shape. This results in a perfect precision fit in the spindle.

High Performance Cutting: ZOLLER Tooling Solutions also offer tool holders for high performance cutting of high-strength and difficult to machine materials. The tool holders stand out for their highly precise concentricity and high holding forces.



Everything from a Single Source, down to the Basics

One contact person, products coordinated to work together, exponential power for your production: Benefit from ZOLLER Tooling Solutions for the entire manufacturing process. We offer a complete program of high-performance, high-precision measuring systems for your entire machining process. ZOLLER Tooling Solutions serves as the perfect interface for digital manufacturing.



ZOLLER Solutions for Efficient Manufacturing



1 ZOLLER Tooling Solutions

ZOLLER Tooling Solutions offers you a fully comprehensive range of tool holders of the highest quality that form the perfect interface to your digital manufacturing. With the ZOLLER »idChip« you uniquely identify your tool holders and have tool life, a digital twin and further information available anytime and anywhere. The matching of our measuring, shrinking and balancing machines to the tool holders guarantees you a smooth manufacturing process. Equip yourself for the digital requirements of tomorrow and prepare for the Smart Factory of the future – with ZOLLER Tooling Solutions.



2 ZOLLER TMS Tool Management Solutions

TMS Tool Management Solutions Software offers everything you need to manage tools, tool holders, fixtures and measurement instruments to meet your requirements, both digitally and physically. You receive digital twins of all tool holders with your order, and can import them into your ZOLLER TMS Software with just one click. No detours. The data is always available, for instance for assembling and measuring tools or for setting up the machine. Make your manufacturing process even more efficient and precise.



3 Efficient tool storage with ZOLLER Smart Cabinets

The »toolStation« workbench from the ZOLLER Smart Cabinets product line completes your tool storage, offering your employees a comfortable working environment for tool assembly: with optimal lighting and clearly arranged assembly tools. The »toolStation« is connected to TMS Tool Management Solutions through either a control unit mounted on the rear wall or a separate control unit. The ZOLLER »keeper« tool cabinet, for instance, can be activated directly, and items such as Tooling Solutions tool holders or complete tools can be checked out and removed, and 3D storage areas, drawings, and bills of materials can be displayed.



4 Heat Shrink Tools with »powerShrink«

ZOLLER »powerShrink« is the optimal solution for fast, safe and energy-conscious shrinking of your tools. With »powerShrink« you save time, reduce your electricity costs and protect your shrink fit tool holders. The perfect interaction of electronics, software and mechanics guides you through the shrinking process reliably and quickly. Benefit from a heating system that is perfectly matched to your shrink fit tool holders, the technologically perfected cooling system, and the ergonomic and simple operator guidance.



5 Balance Tools with »toolBalancer«

To use your machines in the most efficient way possible and with the best performance, you need finely balanced tools. With the »toolBalancer« balancing system developed and produced by ZOLLER, you can do more than just balance your tools with unbeatable precision. Thanks to state-of-the-art technology and the use of measurement and safety components that lead the world in the area of balancing, you will have a long-lasting, extremely ergonomic, and sustainable product.



6 Measurement and Heat Shrinking with »redomatic«

ZOLLER »redomatic« is the high-end solution for automated measurement, presetting and heat shrinking. It allows you to heat shrink your tools to the correct length with a precision of less than 10 µm. At the same time, you increase efficiency in preparing single and multi-spindle tooling machines and protect your shrink fitted tool holders. ZOLLER »redomatic« with ZOLLER heat shrink technology is perfectly matched to your tool holders and guarantees an efficient shrinking process.



Reliability for the Highest Precision



Hard-turned drive slots – guarantee 100% center position in the groove, perfect fit in the spindle, and perfect torque transmission.

Hard-turned clamping surface – guarantees optimal sliding of the clamping segments on the clamping shoulder and excellent clamping in the spindle. This results in a maximum concentricity on the clamping shoulder of 10 µm (5x more precise than DIN).

Hard-turned ejection surface – guarantees the HSK tool holder is released reliably during a tool exchange.

All ZOLLER Tooling tool holders are finely balanced – G2.5 at 25,000 min⁻¹ or max. remaining unbalance ≤ 1 gmm. This results in a smooth-running spindle during processing that protects bearings. You benefit from the extended lifetime of the spindle, an optimal part surface, and longer tool service life.

Chip pockets – for attaching data storage media such as RFID chips or ZOLLER »idChip« on ZOLLER Tooling tool holders. Standard on HSK-A hollow shaft tapers, SK steep tapers and polygon shaft tapers PSC.

ZOLLER »idChip« – for unique identification of your tool holders and the maximum product lifetime. Upon request, we can deliver the tool holders balanced with a permanently integrated chip directly to your manufacturing.

3-groove technology – in the chip drilling of the tool-holding fixture guarantees a safe and tight, fixed connection with the adhesive.

Concentricity tolerances – Tooling Solutions guarantee a concentricity of < 3 µm.

»coolTool« – for a perfect, cooled tool cutting edge, optimal chip control, and avoiding chip nesting on the tool cutting edge. The coolant drill hole is placed at an angle, guaranteeing that your coolant is delivered where it is needed: on your tool cutting edge. This ensures you achieve optimal machining results and improve the life of your tools.

Precision ground long reach ID with blending radius – guarantees maximum shrinkfit force, because the tool is clamped along the entire length of the shaft.

Four threaded bores – for subsequent fine balancing of standard shrink-fit tool holders.



Now it's your Turn – See for Yourself!

The full range of tool clamping systems is now available in our web shop. Find your perfect tool holder easily, quickly and conveniently and use the digital twin that is immediately available in your CAM and tool management system.

www.myzoller.com





Typical for us Zollers – clear objectives for global success

CHRISTOPH ZOLLER, EBERHARD ZOLLER, ALEXANDER ZOLLER
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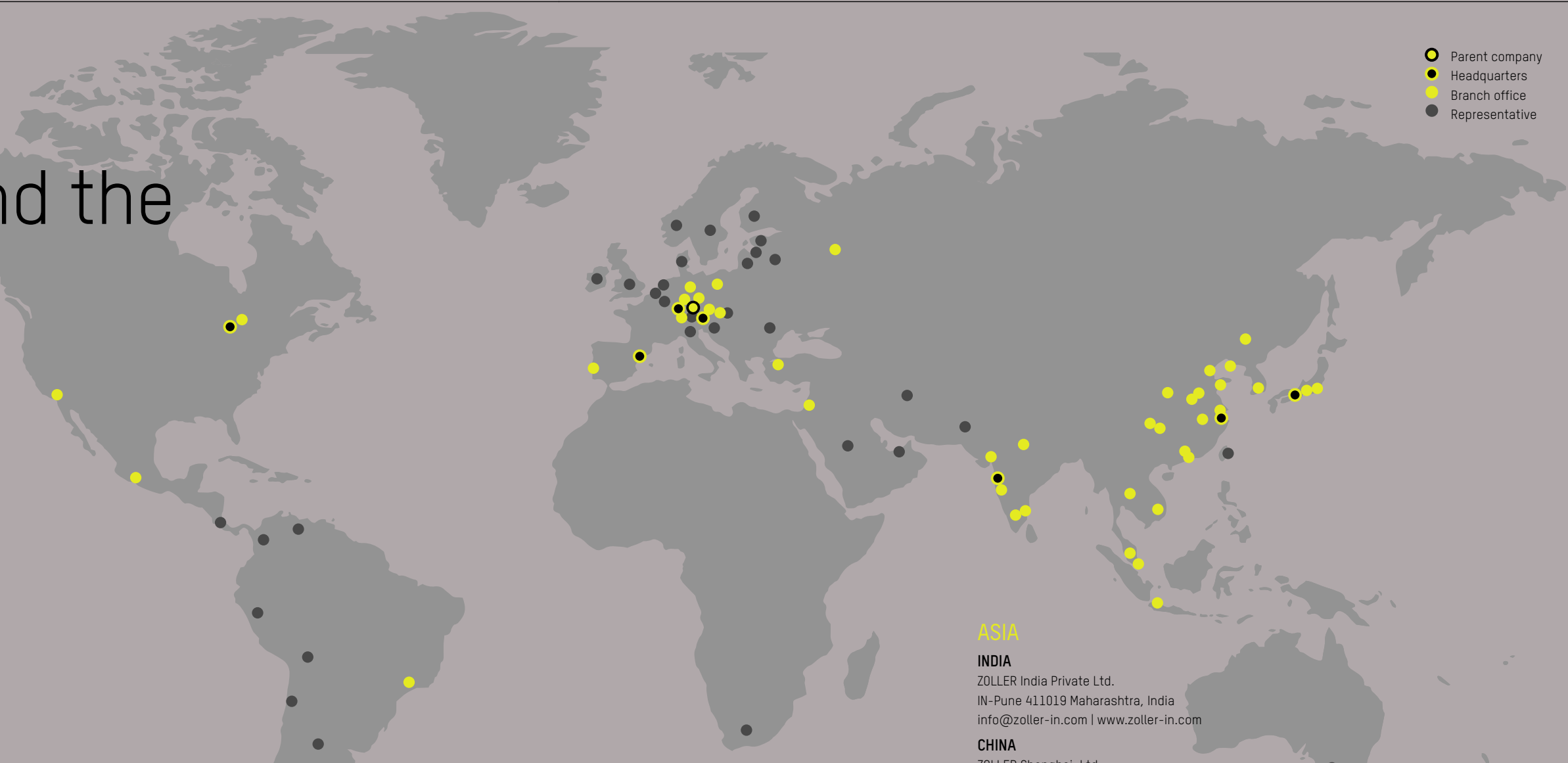


In Germany at Home – Around the World for You

ZOLLER quality is “made in Germany” – and there for you, anywhere in the world.

Our company has its own locations and branches at 85 sites in 62 countries, guaranteeing we are close to customers and can provide first-class, personal customer service in local markets.

- Parent company
- Headquarters
- Branch office
- Representative



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ZOLLER Solutions

More speed, higher quality, safe processes – with ZOLLER, you increase the efficiency of your production. ZOLLER offers you outstandingly precise devices for adjusting, measuring and testing cutting tools, software, interfaces, cloud services and solutions for the automation of tool processes. You can combine all of this to create your individual system solution – on your way to the smart factory.

Presetting & Measuring

Tool Management

Inspection & Measuring

Automation

Everything from a Single Source.
Everything for your Success.
Everything with ZOLLER Solutions.

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