ZOLLER
expect great measures

The ultimate tool presetting systems



Unlock your manufacturing potential with ZOLLER UK's range of tool presetting, inspection, storage and management solutions.

Increase productivity.

Reduce scrap. Increase tool life.

> Prior to installing the ZOLLER, we were setting the tools on a machine and a typical set-up was between 15 and 40 tools. We were loading every one into the machine, measuring them, taking the readings and putting those into the machine control. With the ZOLLER we can preset all of our tools while the previous job is running.
>
> Phil Rawnson, Managing Director, MRT Castings

Discover the final piece to your shopfloor. **Improve the efficiencies of your manufacturing processes.**

Downtime. The dreaded eight-letter word that sends shivers throughout industry and continues to be one of the main barriers to achieving increased productivity.

The good news for thousands of subcontractors and machinists operating across the UK and Ireland is that there is a cost-effective and proven solution to keep their spindles turning.

Based out of a state-of-art Advanced Innovation Centre in Derbyshire, ZOLLER UK offers world-leading tool presetting, inspection and measurement solutions to help companies make better parts with maximum efficiency.

It's not rocket science. We simply reduce downtime by taking tool setting away from the machine, making sure machines continue to do what they do best... produce accurate parts at the first time of asking.

That is just the starting point. ZOLLER UK technologies are also proven to reduce scrap by eliminating costly reworks, guarantee tool accuracy by validating geometric characteristics and extend tool life through access to real-time data on tool performance.

Don't take our word for it. Our install base spans automotive, aerospace, medical, renewables and precision engineering, with a wide range of companies already enjoying a host of benefits that emanate from our unique solutions.

Discover the power of tool presetting

Tool presetting is still one of industry's best-kept secrets, yet this is changing as more firms begin to understand the benefits of measuring tools away from the machine.

Our team of ZOLLER UK technical experts can walk you through the different solutions available and how they can make a major difference to your quality scores, run rate and your bottom line.

Better still, you can see a wide selection of our technology in action at our advanced demonstration centre in Derbyshire, giving you the opportunity to run production tools through a selection of our tool presetting solutions.

The support doesn't stop there, with specialists also on hand to deliver training, maintenance, and application support – all geared towards keeping your spindles turning.

Will you invest in the ultimate tool presetting system?

The benefits of ZOLLER tool presetting and tool management solutions

Reduce scrap

Tool presetting can ensure the precision and accuracy of tooling, producing right-first-time products, eliminating the need for costly reworks and helping to reduce scrap levels.

Reduce machine downtime

Presetting your tools offline not only confirms tool quality but eradicates machine downtime, allowing machines to run at maximum capacity, producing more parts, more accurately, in a shorter time frame.

Extend tool life

Extend tool life by gaining real-time data on tool wear and performance to identify potential issues, ensuring the highest accuracy and superior quality of workpieces.

Guarantee tool accuracy

Tool presetting validates geometric characteristics of tooling prior to being used on the shopfloor. This enables components to be machined accurately, repeatably and right-first-time.

Increase productivity & efficiency

Setting tools offline increases the spindle-on time, therefore increasing productivity. ZOLLER presetters perform a multitude of important tool measurement tasks to confirm quality and position of tooling prior to use.

Efficient tool identification

ZOLLER's innovative Tool Management Solutions (TMS) software provides full locatability and traceability of tools across the shopfloor. Easily track and locate tooling to reduce delays across the production process.

Preset for **maximum performance and profitability**

Industry 4.0. Ready

Manufacturers will recognise the small inefficiencies in their production processes, but few acknowledge the significant advantages of presetting tooling and having a linked up tool management strategy.

Does the following apply to you?

- You use CNC machine tools
- You use CAD/ CAM systems
- You set your tooling on the machine tool
- You have a high scrap rate
- You invest significant amounts of money in tooling

ZOLLER can deliver these benefits

Increased productivity
Reduced set-up times equals increased machining time. While your machine tools are running, get the next tool ready to start and preset it to µm accuracy.

Reduce scrap
Accurate tool measurements ensure components are manufactured correctly, reducing the need for reworks and expensive scrapped parts by ensuring the correct tool is used.

Increased tool life
Regular reviews of cutting tool quality with ZOLLER enables you to maximise tool life, reducing overall tooling costs and the risk of spindle crashes.





> **In our first year of using the ZOLLER tool presetter, sales increased by £300,000**, then the next year grew by another £700,000. That's £1 million and that's all down to the ZOLLER machine making our processes more efficient and **improving the productivity of all of our machine tools**. I've never had a piece of equipment that has had the impact that the ZOLLER has.
>
> Tom Bassett, Founder, ProCam Services

> **We would never be without a ZOLLER** because it keeps the spindle running. It measures the lengths, diameters and all the information is stored on the back of the chip so it can be directly sent to the machine. It saves a significant amount of time and **reduces our set-ups by about 2 hours**, meaning we've now got more capacity and subsequently increased productivity on our machines.
>
> Neil Griggs, Engineering Manager, Benham Precision Engineering

Unlock **additional capacity** on your shopfloor

The way you measure, inspect and preset your tooling has a dramatic effect on your production capabilities.

Many machine tool purchasers specify 'on-machine setting systems' believing this to be the most cost-effective way of managing their tool assemblies - this could not be any further from the truth. On-machine setting will determine tool stick-out length only, however, this takes up valuable machining minutes, which are compounded every time a setting operation is performed.

How much spare capacity do you have on the shopfloor?

Take a look at this example to see how much time and money you could be missing out on by setting your tools on your machine.

5x machine tools charged at **£100** per hour

Running an **8-hour** shift, **5** days a week

With **20** tool changes per machine in a shift, taking **3** mins setting time per change

1,300 hours per year. **162** full shifts per year. **£130,000** per year chargeable time

25 hours per week. **3** full shifts per week. **£2,500** per week chargeable time

By setting tools on your machine, you are missing out on:

Tool presetting can get you this time and money back

Setting your tools offline with a ZOLLER tool presetter eradicates this downtime and performs a multitude of important tool measurement tasks to confirm quality and the position of your tooling prior to use.

- **Presetting increases productivity**
- **Presetting eradicates tool run-outs**
- **Presetting increases accuracy**
- **Presetting increases repeatability**
- **Presetting reduces scrap**

Challenge us to calculate your **untapped** capacity

Connecting the Shopfloor

Achieve total integration with minimal effort with ZOLLER, elevating your production efficiency to new heights.

ZOLLER solutions are designed to grow with any business and cater to any specific requirements. They offer future-proof efficiency to enable departments in manufacturing facilities to communicate with one another seamlessly.

ZOLLER's product portfolio is built with the vision to offer smart manufacturing via a digital network, providing interconnectivity capabilities, ease of use and automation to increase production efficiencies.

ZOLLER can communicate with any machine tool and controllers, including these leading brands:

DMG MORI · GROB · HELLER · HURCO · Mazak · ANCA CNC MACHINES · MILLS CNC · Matsuura · HERMLE · HAAS Haas Automation Inc. · XYZ Machine Tools · chiron · SIEMENS · HEIDENHAIN · FANUC ...and many more



TMS

ZOLLER Tool Management Solutions (TMS) provide a single-source database as well as a tool storage system, data transfer, tool monitoring and toolholders that are all interconnected.

Ensure the right tool is in the right place at the right time for faster set-ups, reduced downtime and increased productivity, enhancing tool inspection and measurement solutions in the process.



zidCode

Increase safety and efficiency in your production processes with automated data transfer.

zidCode feeds data output from the ZOLLER presetter directly into a CNC machine's control system without human input, resulting in zero errors. This provides complete confidence that tools will produce accurate parts first time, every time.

Industry 4.0. Ready

Software

ZOLLER's tool management software solutions are designed to deliver peak performance by integrating comprehensive measuring, evaluation and administration functions.



pilot 1.0

ZOLLER's pilot 1.0 image processing technology makes it possible to preset and measure standard tools quickly, precisely and easily.

- **User Friendly** - Simple measuring results thanks to intuitive user guidance.
- **Fast** - Quickly clamp and measure tools in process.
- **Clear** - Clearly structured control elements in the software interface.

pilot 4.0

ZOLLER's pilot 4.0 software provides an all-inclusive software interface for tool measurement and redefines real-time tool presetting.

- **User-Friendly Interface** - Designed for simplicity and ease of use.
- **Customisable** - Each operator can create a personalised working environment.
- **Advanced Detection** - Advanced algorithms detect stages and edges to simplify the measuring process.
- **Anywhere Access** - Access pilot 4.0 on any device, anywhere at any time.

smileBasic

The entry-level setting and measuring machine for standard tools.

The smileBasic is easy to operate and is equipped with all standard functions for professional tool presetting solutions. Its robust construction ensures it performs comfortably in all shopfloor environments. Built with an SK50 high-precision spindle with integrated calibration spheres, the smileBasic delivers fast measurement, setting and inspection of tool cutting edges at the push of a button.



smileBasic from £53 per week*

*Indicative price for base machine only, subject to credit approval

Specifications:

Max. tool length Z:	350mm; 13.8”
Max. tool diameter D:	320mm; 12.6”

smile420

The professional solution for presetting and measurement of standard tools.

The smile420 is an essential tool for manufacturing companies performing machining work, guaranteeing high-level accuracy and repeatability thanks to its unique CNC spindle and auto-focus capabilities. The smile’s variable control unit, ergonomic single-hand operating handle and the direct transmission of tool data to your machines is seamless, improving production efficiency.

smile420 from £100 per week*

*Indicative price for base machine only, subject to credit approval

Specifications:

Max. tool length Z:	800mm; 31.5”
Max. tool diameter D:	420mm; 16.5”



Free zidCode unit*

venturion

The premium presetting and measuring machine for all tools.

Its robust and modular design makes the venturion the ideal tool presetting solution for every CNC production environment.

The ACE (Auto-Clamping Element) spindle receives all tool workholding systems and provides accuracy of up to two microns. Whatever your tool management requirements, the venturion can be configured to meet the needs of specific production processes.

Industry 4.0. Ready

Key Features:

- High-precision spindle with power-activated tool clamping.
- High-quality camera features additional lenses to capture every detail.
- Practical hand wheel for easy and safe positioning of the spindle.
- Automated measurement with CNC and auto-focus.
- Automatic cutting edge shape recognition.
- Strong incident light with automatic adjustment optimally illuminates edges and steep flanks.

venturion from £276 per week*

*Indicative price for base machine only, subject to credit approval

Specifications:

Max. tool length Z:	1600mm; 63”
Max. tool diameter D:	1200mm; 47.2”



Free zidCode unit*

*T&Cs apply

ZOLLER

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