

mauth
WERKZEUG-SCHLEIFTECHNIK

We live metal



Your Experts since 1996

Analyze.
Optimize.
Benefit.

High-quality customised tools



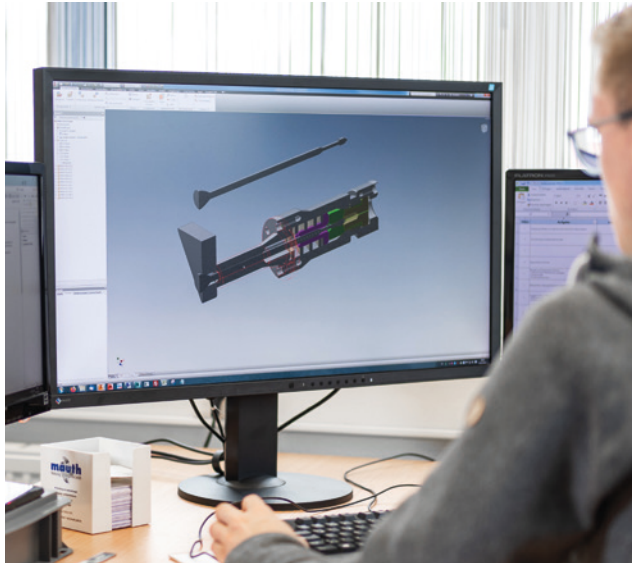
Mauth Werkzeug-Schleiftechnik GmbH is your specialist for the development and production of high-quality and efficient special tools according to your specific requirements and in every batch size. Notable companies from the fields of hydraulics, air and space drive, mechanical engineering, automotive industry, electrical and medical technology as well as wood and plastic processing trust in the proverbial Mauth precision and quality.

The company located in Oberndorf/Neckar was taken over as Mauth GmbH in 1996 and has since developed into an innovative service provider with 49 committed and highly qualified employees. We are not only a tool developer and manufacturer. We rather see ourselves as your personal adviser, companion and optimiser for demanding, tool-related production processes. Your goal is our goal: seamless, reliable manufacturing processes with short production times and the best possible product quality with reduced costs and a minimum of rejects.

We will do everything to achieve that. You can rely on us to design, manufacture and deliver your tool in a few hours. This is what our more than 600 customers appreciate – and you can benefit from it too.



Check out
our image
video



CAD-CONSTRUCTION Whether you need bone drills for medical engineering purposes, inside-plunge cut-tools, profile form punches, circular saws or shaped cutting tips etc. – we develop and produce individual tool solutions for internal and external processing for your specific applications – also very complex forms for special tools. These are designed using the latest CAD methods. You will receive a drawing for approval to check.

In tool design, we use common standard formats such as DXF, DWG, IGES and STEP. If you use other file formats, simply contact us. Together we will find a solution for your perfect tool.



TOOL-PRODUCTION Individual tools from Mauth are used successfully by many companies, e.g. in the fields of hydraulics, aerospace, Mechanical engineering, automotive industry, electrical and medical technology as well as wood and plastic processing.

The CAD data of the designed tools are directly imported into our high-performance CNC machines. Whether tools for medical engineering, shaped drills, stepped drills, shaped mills, die sinking mills, punches, cutters or rotary in-serts in various versions – we bring your individual and special and standard tools in the correct form. We also guarantee flawless quality and ensure the perfect cut. Our machine park with a production surface of more than 2000 m² located in Oberndorf/Neckar is always kept up to date – the ideal basis for efficient manufacturing procedures and short production times.

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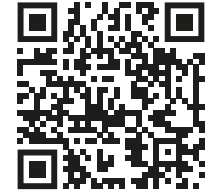
Individual Shapes



CONTRACT GRINDING You do not have the capacities or even option to perform your complex grinding tasks yourself? Or are you looking for polished expert knowledge in order to achieve even better grinding results? We would be happy to handle this for you!

Our grinding experts meet even the most demanding grinding requirements with the highest accuracy. Furthermore, our reliable courier service takes care of your logistics. We collect your tools if required and - once the grinding is completed - return them in time.

More about
regrinding



REGRINDING Even a tool of highest quality only performs perfectly if the blades are always optimally sharp.

By means of three modern CNC machines, we ensure the accurate regrinding of standard tools, stepped tools and moulding tools of all types as well as of saws with a diameter of up to 800 mm. With regular regrinding of your tools, you benefit from a longer service life and reduced costs instead of continuously investing in new tools. Furthermore, you can always rely on the highest processing and product quality of your workpieces.

DRILLING

HOLED IN FASTER AND
MORE ACCURATE

The increasing demands of modern cutting technology such as the desire for increasingly efficient manufacture processes as well as the development of new materials and processing methods require high-performance drilling tools for special application areas. At Mauth, we produce high-performance, durable and high-quality drills made from different materials for a broad range of applications. Furthermore, we produce drills with internal cooling and minimum specified lubrication.



MILLING

SHOWING THE CLEAR EDGE

During the manufacture of the different mill types, your individual requirements are in the focus: The adaptation of the spiral increase of the mills is possible like the uneven separation of the mill cutting blades. The number of cutting edges, as well as their material and size, are also adapted to your needs. Furthermore, we produce mills with internal cooling and minimum specified lubrication.



get in
touch
with us

REAMING

GLOSSY SMOOTH
BOREHOLES

Reamers are used to machine and smooth bores with high precision down to the μ range. With a reamer, you can sustainably improve the surface quality as well as the shape and dimensional accuracy. At Mauth, your experienced tool manufacturer, you will find high-quality moulding reamers, stepped reamers, machine reamers and manual reamers for your specific application. All reamers are also available with central interior cooling or with cooling directly at the cutting edge. Your demands and your specific requirements are decisive.



GROOVING

FOR PERFECT RESULTS

You need to groove complex internal shapes into your workpieces? We deliver the matching tool – from inside plunge cut tools to internal broaching tools and front pierce tools. Our individual axial and radial tools allow for exactly the internal shape that you imagine – with the highest dimensional and angular accuracy.



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touch
with us

THREADS

ESTABLISHING CONNECTIONS

You need a thread drill, thread moulder or thread mill adapted to your component? Just send us a draft, a pattern or your component drawing. We will then produce the matching special threaded tool with the desired cutting edge geometry. Depending on the requirement, the threaded tool is made of high-speed steel and/or solid carbide, equipped with matching interior cooling and specifically designed according to the material to be processed and your individual application. We precisely produce every special threaded tool according to the standard or even with non-standard thread types. Your needs decide!



PUNCHING

CUSTOMISED CONTOURS

Forming punches are used for shaping inner and outer contours and, thanks to particularly short cycle times, have to meet high demands on precision and wear resistance.

At Mauth you will find customer-specific square, hexagonal and octagonal punches as well as torx and profile shape punches according to your specifications. The production takes place as required in your desired material quality.



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with us



MEDICAL ENGINEERING

MICRO-MECHANICS



If the focus is on health and optimal treatment of patients as is the case in medical engineering, maximum precision and quality of the instruments used is essential.

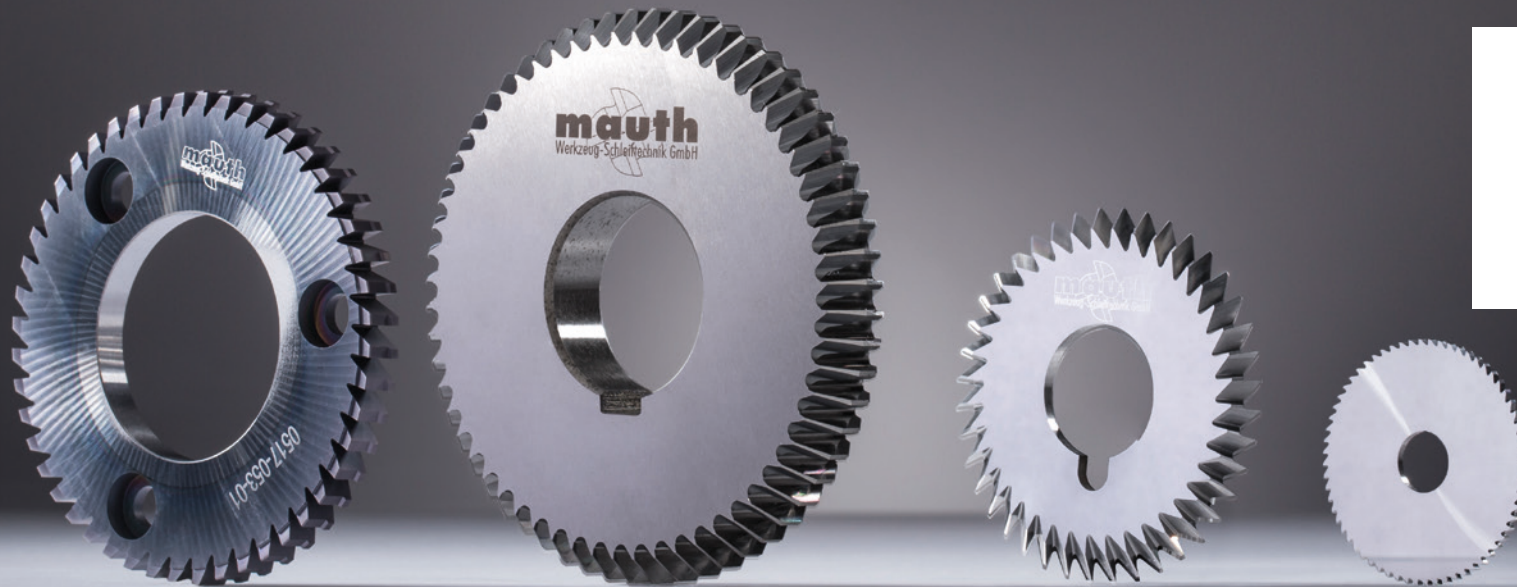
At Mauth, you will find individual tool solutions such as high-precision bone drills and bone mills as well as reamers for orthopaedics and dental technology. Our thread whirling plates for bone screw threads are a particularly economical option to generate the required thread. Of course, all medical engineering tools are manufactured according to your specific requirements.

SAWING

AT THE CUTTING EDGE

Whether you require fine, rough or individual tooth forms – we make sure that you have a saw at hand matching your material, and that you can always work with in a reliable manner.

We not only manufacture high-quality and durable circular saws and circular panel saws, but also perform the CNC-controlled regrinding of complete circular saw sets according to your specific requirements.



get in
touch
with us

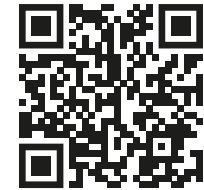
PROFIL GROOVING

FLEXIBLE EFFICIENCY
IN BEST SHAPE

You not only benefit from individual shaped cutting tips on multi-spindle automatic lathes but also on universal CNC lathes. Here, the processing times can be reduced by up to 80 percent – while the quality is increased and the costs are reduced. Wir bieten Ihnen ein breites Sortiment an Formstechplatten.

These include single-edged form-changing inserts with a width of 9-33 mm and three-edged form-changing inserts with a width of 3-11 mm. Our shape inserts are available in different widths depending on the requirement, if required also double-edged special profiles up to 4 mm wide.

Thanks to the excellent replacement accuracy of below 0.01 mm and the consistent repeatability, our shaped cutting tips offer uncompromising quality for fast and efficient production processes.

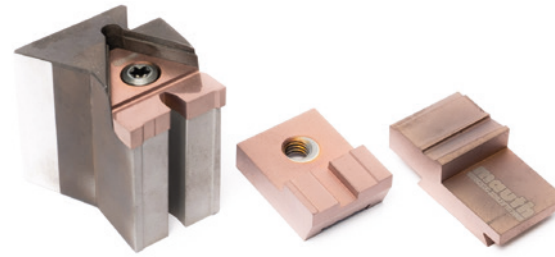


To the
catalog
overview

MOLD PLATES DRILLING SYSTEM

The mold plates are excellent for manufacturing of complex parts and components requiring high precision require. The drilling system allows the mold plates to be positioned and fixed at different angles to ensure precise machining.

With our form plates, your work will not only be faster, but also more precise and efficient. Thanks to the innovative drilling system, the plates can be exchanged quickly and easily, which saves a lot of time.



CALIBRATION TOOLS

Our calibration tools are specifically designed to meet the needs of different industries and applications. We rely on the latest technology and high-quality materials to guarantee you the highest level of precision and durability. Another advantage of our calibration tools is their ease of use. In addition, we offer you comprehensive advice and support so that we can create the optimal product for your requirements.

Trust in our competence and experience and get the best out of your tools.





GEAR HOBGING

Gear hobbing tools are indispensable helpers for the precise manufacture of gear wheels, gears and other rotating components. With their help, complex geometries can be milled with the highest quality and accuracy. Every detail counts: from the shape of the tool to the choice of the right material and perfect matching to the respective application. Gear hobbing tools are true masterpieces of technology that are indispensable in modern production. Whether in the automotive industry, in mechanical engineering or in the aerospace industry – gear hobbing tools are used wherever maximum precision and reliability are required. With their help, the foundations for the mobility and progress of tomorrow are laid.

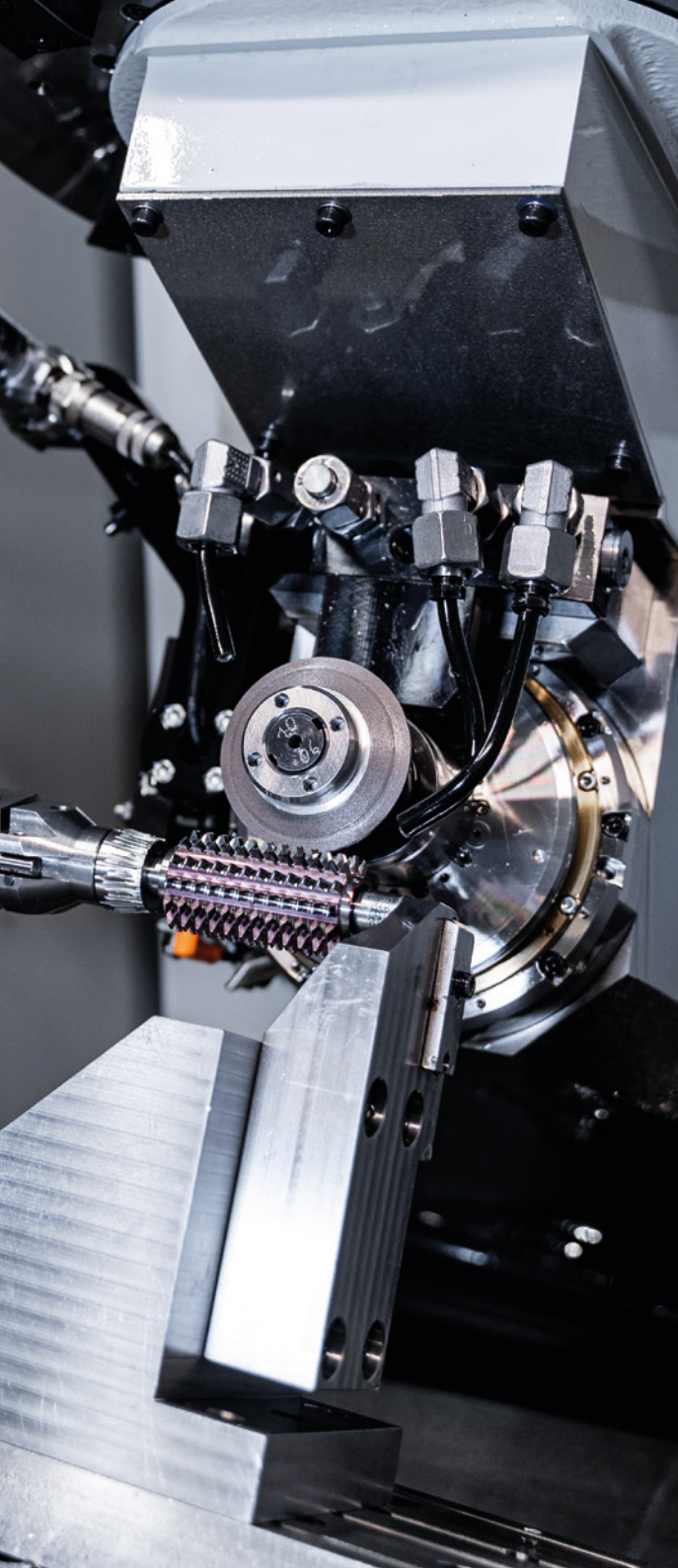
Gear cutting tools

Whether hobbing or skiving - you will find the right tool for your requirements with us.

Thanks to our many years of experience in the field of gear cutting tools and our modern manufacturing processes, we can guarantee you the highest level of precision and quality. We rely on the latest technologies and attach great importance to continuous further development.

**HOBGING
CUTTER:
inquiry form**





POWER SKIVING

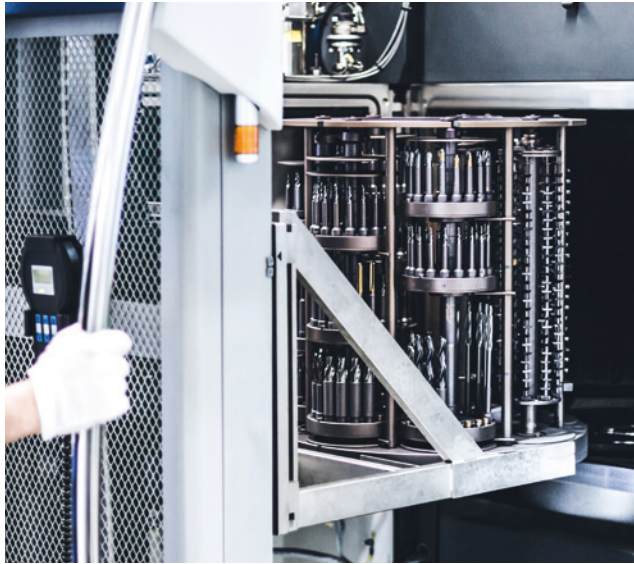
Skiving wheels are an indispensable part of machines and systems used in industrial production. They are used to produce gearings even on complex components. Whether internal or external gearing, straight or helical gearing, skiving wheels can be used flexibly on turn-mill centers and multi-spindles. Due to the design of the tools and the machining strategy, gears can be manufactured quickly, flexibly and therefore very economically, despite interfering contours.

Any questions? Our experts are at your disposal to help you with any questions.

SKIVING:
inquiry form



COATING



Only an optimum coating of the tool surfaces ensures high-quality cutting surfaces with calculable wear, a long lifetime of the cut and a long service life of your tool.

We use special coatings for aluminium as well as for high-alloy steels and further materials. Whether TiAlN, MCo, MB5 or more: For your special or standard tool and your application, we choose the optimum type of surface coating.

QUALITATIVE LEAP WITH PVD COATINGS

Increasingly demanding applications and new materials that are hard to process require new coating procedures. Within the scope of a joint project with research institutes, we have performed research how new materials such as sandwich, glass fibre and carbon fibre can be optimally processed with different types of coatings and/or materials. Here, high-quality PVD coatings offer extensive options.

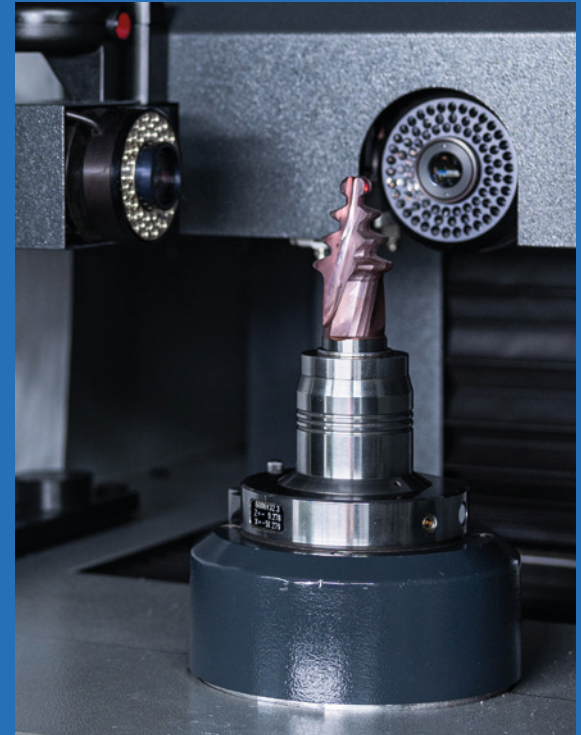
By means of the in-house PVD coating procedure, we can adapt the cutting edge preparation and the coating even better to the respective tool. Therefore, you reduce the wear of your tools even under the most demanding conditions and you achieve additional processing quality for your workpieces.

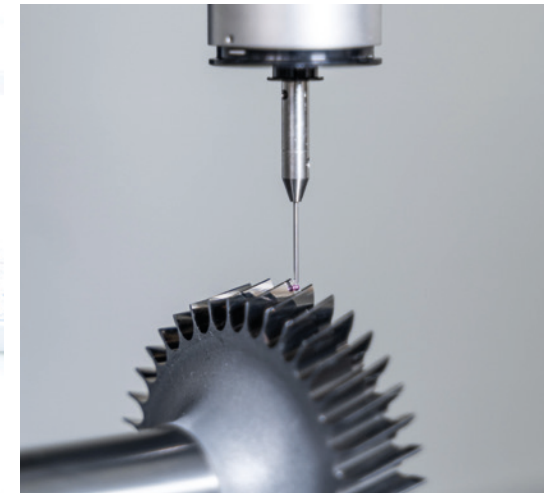
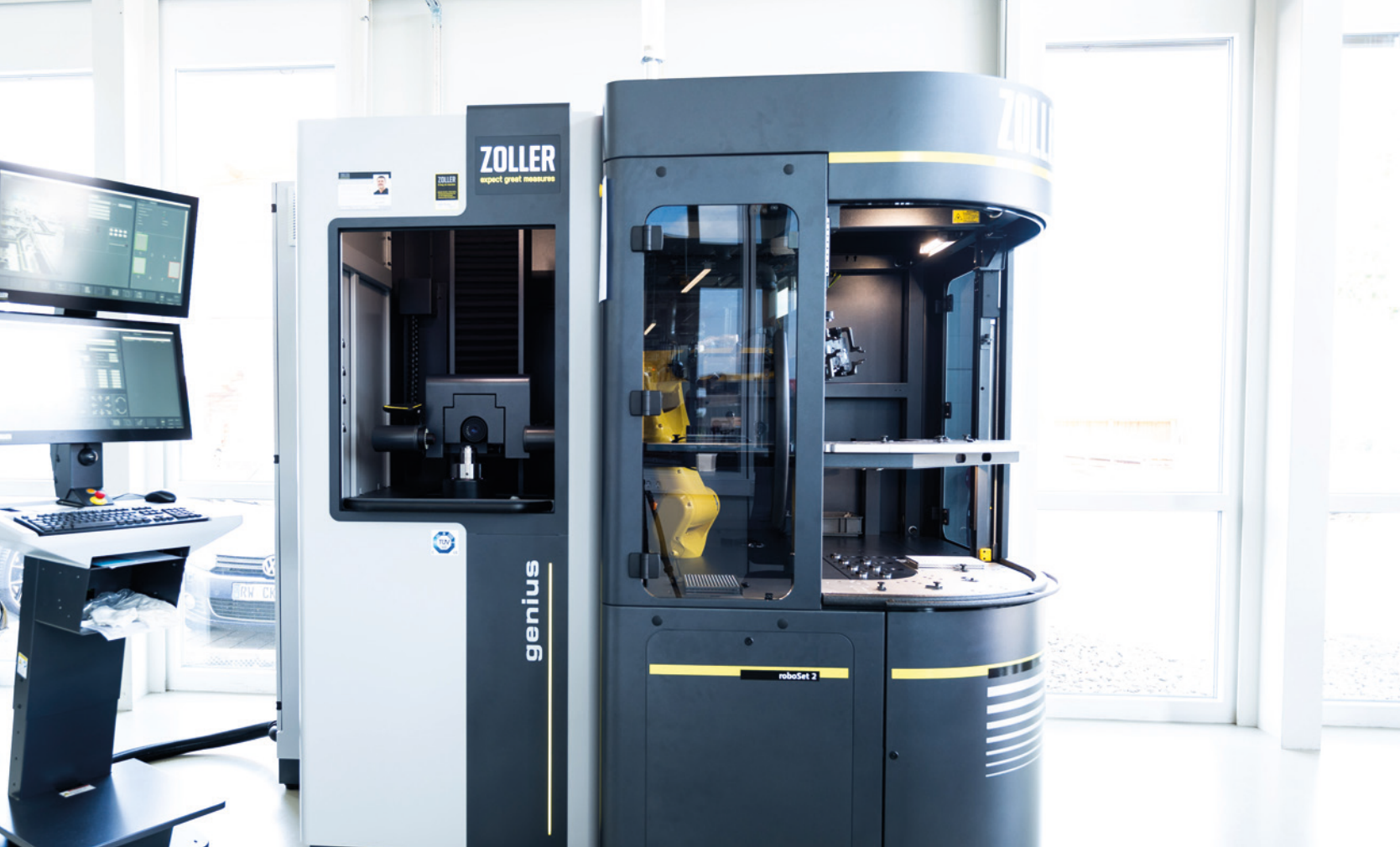


To our
coating
solutions



Best surface quality





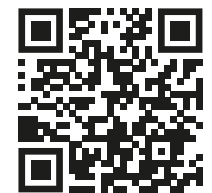
QUALITY ASSURANCE

EXCELLENT TOOLS

Decades-long experience in the design and manufacture of individual special tools for customers with high standards are an optimal basis for the proverbial Mauth quality.

Modern measurement machines equipped with an infrared and rotatable camera as well as a continuous target/actual comparison allow for a continuous improvement of the process and tool quality.

Coupling the measurement machine and the grinding centre as well as the measurement of the rotating tools in the rotation result in additional manufacturing accuracy. Furthermore, we generate automatic test logs during the manufacture of new tools upon request, thus minimising further error sources. And we guarantee the requested burden of proof from the raw metal to the finished product.



certification

SHIPPING PARTNER

Delivery & Service

Do you want to be absolutely sure that your tools will reach you on time? Would you like to have your tools sharpened by us and have them returned to you as quickly as possible? We take care of the timely delivery of your tools through our weekly courier service. In the area of regrinding, we can also pick up and return your tools to be processed on request - quickly, reliably and safely.

LOCATION

In the middle

Our headquarter is located in Baden-Württemberg - the heart of Europe - between Black Forest and Swabian Alb in the „winners region“.

Here, numerous global market leaders in metalworking trade use Swabian inventive spirit and maximum perfection.

● STUTTGART

● OBERNDORF AM NECKAR

CONTACT PERSON

Direct access

Our team in the field service are experienced and competent technicians who are at your side with technical know-how and great expertise.

We look forward to hearing from you!

If you cannot find the right contact person, do not hesitate to contact our head office.



Our
contact
persons

Careers with the tool experts

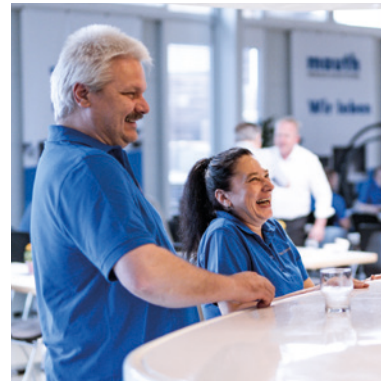
Our decades of success are only possible because we value our employees and customers as people and see our company as a family. Team spirit, reliability and trust in dealings internally and externally are particularly important to us. We always work together and constructively on creative solutions for our customers.

Our responsibility for the well-being of our employees is also reflected in the fact that the compatibility of family and career is very important, for example through working from home and special family days.

WELCOME TO THE MAUTH FAMILY



Are you looking for an attractive, future-proof job with exciting challenges in a successful medium-sized metalworking company?





Michael Mauth, CEO



mauth
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