



we live metal.



Zertifiziertes
Managementsystem
DIN EN ISO 9001

YOUR EXPERTS
SINCE 1996.

high-quality customised tools

Mauth Werkzeug-Schleiftechnik GmbH is your specialist for the development and production of high-quality and efficient special and standard tools according to your specific requirements and in every batch size. Notable companies ranging from mechanical engineering, the automobile industry, electrical and medical engineering and the wood and plastic processing industry trust in the proverbial accuracy and quality of Mauth.

The company located in Oberndorf/Neckar was taken over as Mauth GmbH in 1996 and has evolved into an innovative service provider with 40 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.



CAD-CONSTRUCTION

Best chances

Whether you need bone drills for medical engineering purposes, inside-plunge cut-tools, profile form punches, circular saws or shaped cutting tips – we develop and produce individual tool solutions for internal and external processing for your specific applications – also very complex forms for special tools. They are designed by means of CAD according to state-of-the-art methods. You will be provided with a 3D drawing for approval purposes. For tool development, we use common standard formats such as DXF, DWG, IGES and STEP.

Please contact us if you use other file formats. Together, we will find a solution for your perfect tool.

TOOL PRODUCTION

Individual shapes

Individual tools from Mauth are, amongst other things, successfully used in mechanical engineering, in the automobile industry, in electrical and medical engineering and in the wood and plastic processing industry.

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 inserts 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.

REGRINDING

Sharp lasts longer

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.

CONTRACT GRINDING

Sophisticated tool service

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.





drilling

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.

HOLED IN
FASTER AND
MORE ACCURATE

SHOWING THE CLEAR EDGE

milling

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. Furthermore, we produce mills with internal cooling and minimum specified lubrication.



reaming

Reamers are used to process boreholes in order to increase the surface quality as well as the shape and dimensional accuracy.

At Mauth, 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.



GLOSSY
SMOOTH
BOREHOLES

FOR PERFECT
RESULTS

grooving

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.



threads

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!



ESTABLISHING
CONNECTIONS

CUSTOMISED CONTOURS

punching

Form punches and punching dies are used for the production of metal sheets and must meet high requirements in terms of accuracy and wear resistance due to very short cycle times.

At Mauth, you can find customised square, hexagonal and octagonal as well as torx and profile form punches according to your requirements. The production is performed as required in your desired material quality.



medical engineering

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.



MICRO-
MECHANICS

AT THE CUTTING EDGE

sawing

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.



FLEXIBLE
EFFICIENCY
IN BEST SHAPE





profile grooving

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. Mouth shaped cutting tip systems are the perfect tools for the internal and external processing of your workpieces. The product portfolio comprises interchangeable form tools with one, two and three edges. 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.



special tools

Today, numerous industrial manufacturing processes increasingly require highly specialised tools which are not available as standard. Thanks to our extensive know-how and the modern machine park, we at Mauth are specialised in the manufacture of special tool products.

We design and produce complex tool forms according to your specifications by means of our CAD system. Up-to-date grinding machines ensure the perfect finish. Our smart production processes guarantee short production times and the economic manufacture even of the most demanding tools.

COMPLEXITY
MADE
SIMPLE

PROCESS OPTIMISATION

Everything runs smoothly

Mauth is well known as a developer and manufacturer of high-quality tools ranging from drills, inside plunge cut tools and mills over reamers and shaped cutting tips to tools for medical engineering. At the same time, we see ourselves as your personal adviser, companion and optimiser for your tool-related production processes.

If required, we visit your production on-site and work directly on the machine in order to find solutions for the problem and to make your manufacturing procedures more efficient. We advise regarding the best use of the tools and propose individual tool solutions.

And we examine how you can reduce the production times by means of a targeted use of your tools, how to minimise rejects and how to reduce the costs.





COATING

best surface quality

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 TiN, TiARN, TiCN or nACo, TiXCo, MCo or even special layers. 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.





QUALITY ASSURANCE

Excellent tools

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

But that is not everything: Our quality management is certified according to DIN EN ISO 9001. 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.

We also take care of the continuous vocational training of our team, which consists of 40 tool and grinding experts. That is why we always meet the increasing requirements in terms of repetitious accuracy, concentricity and cutting edge quality of special and standard tools.

LASER INSCRIBING

A clear thing

Clear labelling of your tools facilitates their handling and storage. The extensive search for the right tool is therefore a thing of the past, and error risks are minimised.

With our laser technology, we provide the option to label each of your tools individually and according to your requirements. Furthermore, printing labels for own labelling purposes is also possible.

COURIER SERVICE

Delivered free of charge

You want to be absolutely sure that your tools for medical engineering, drills, grooving tools, punches, saws, reamers, mills, shaped cutting tips and special tools will reach you on schedule? You would like to have your tools ground by us and returned as quickly as possible? No problem: Our reliable courier service fully spares you the logistical effort. We take care of an on-schedule delivery of your tools. In the field of contract grinding, we take care of the collection and return delivery of your tools to be processed on requested – in a quick, reliable and safe manner.

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.



WELCOME TO THE MAUTH FAMILY

Careers with the tool experts

Are you looking for an attractive, future-proof position with exciting challenges at a successful medium-sized metal processing company?

Welcome to Mauth Werkzeug-Schleiftechnik in Oberndorf/Neckar, the specialist for high-quality special and standard tools according to custom requirements.

One reason for our success is the fact that we appreciate our employees and customers as people and consider our company a family. Therefore, team spirit, reliability and trust are of particular importance to us – both inside and outside of the company. We always work in a joint and constructive manner on creative solutions for our customers.

Taking responsibility for the well-being of our employees is also reflected by the fact that we take the compatibility of family and occupation very seriously – such as through allowing home office working and organising special family days. Speaking of responsibility: Instead of giving Christmas presents, we donate each year to the Nachsorgeklinik Tannheim for children suffering from cardiac problems, cancer and cystic fibrosis.

It is no wonder, then, that many of our employees have been working for Mauth for years. When will you join the Mauth family?





Michael Mauth, CEO



mauth
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