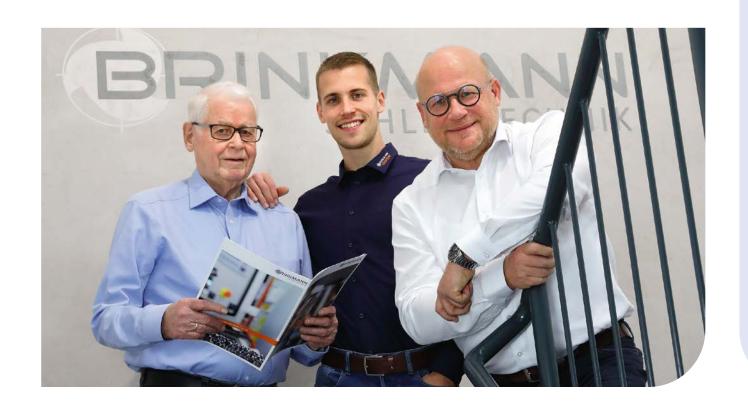




- 3 THE COMPANY
- 4 TEAM & TECHNOLOGY
- 6 PROCESS CHAIN
- 7 CNC TOOL GRINDING
- 8 TOOL ID | LASER INSCRIPTION
- 10 MILLING TOOLS | HSC
- DRILLING TOOLS | DEEP-HOLE DRILLS

- 14 CUSTOM TOOLS | TOOL DESIGN
- 16 TOOL COATING
- 17 CIRCULAR SAW BLADES
- 18 QUALITY ASSURANCE
- 20 LOGISTICS
- THE BENEFITS AT A GLANCE



Maximum safety and accuracy in CNC tool grinding, amongst other things, for:

- Chip removal operations
- Tool and mould making
- Automotive technology
- Aerospace
- Mechanical engineering
- Medical technology
- Manufacturing of jigs and fixtures

"PERFECT TOOL GRINDING IS PART OF OUR FAMILY TRADITION"

BRINKMANN SCHLEIFTECHNIK – YOUR SPECIALIST FOR CNC TOOL GRINDING

Brinkmann Schleiftechnik, based in Paderborn, Germany, has been an expert provider of state-of-the-art CNC tool grinding services Since 1977. Our many years of experience together with our highly skilled workforce and sophisticated machinery guarantee our customers outstanding quality. Our professional service for the regrinding of cutting and machining tools is founded on established processes and ongoing documentation based on the DIN ISO 9001 quality standards.

CNC TOOL SERVICE – YOUR PARTNER FOR UNCOMPROMISING ACCURACY

Capable, flexible and punctual – that's Brinkmann Schleiftechnik in a nutshell. We are one of the best companies in our field. Our list of customers includes renowned companies throughout Germany and in other European countries. We design and manufacture custom tools to our clients' specifications. To ensure professional lifecycle management, we apply laser identification marks to your high-performance tools.

MOLDINO PREMIUM PARTNER FOR CNC TOOL GRINDING

Brinkmann Schleiftechnik is an expert in regrinding Moldino geometries true to the original. As a long-term, dependable premium partner, we are recommended by Moldino when it comes to providing optimum regrinding services.

OPTIMUM COATINGS AND EFFICIENT LOGISTICS

To ensure you are able to use your tools reliably and on schedule, we provide them with an optimised coating and dispatch them with our smooth-running logistics procedure. Try us out!







PEOPLE AND MACHINERY WORKING TOGETHER HAND-IN-GLOVE

Brinkmann Schleiftechnik employs experienced, qualified expert staff. We are committed to the vocational training of cutting tool mechanics. Our expertise accumulated over many years – coupled with our state-of-the-art machinery – guarantee our customers outstanding quality and reliability. Sustainability and sparing use of resources are key features of our company philosophy.

CONSISTENT INVESTMENTS TO PROVIDE FURTHER GROWTH

We are fully aware of market trends and invest appropriately in the latest generations of machinery, technology, processes, IT systems and regular staff training. Through this combination of technology and experienced team, we are in a position to offer our customers an unparalleled tool service.

The foundation for our success

- Recognised expert suppliers and vocational training workplace for modern CNC tool grinding
- Thoroughly trained, and long-standing wellversed team
- State-of-the-art machinery with fully-automated grinding processes
- High quality standards due to continuous application of high-end measuring systems



BRINKMANN SCHLEIFTECHNIK – EFFICIENT PROCESSES FOR A FIRST-CLASS CNC TOOL SERVICE

LASER MARKING AND CODING

We apply a data matrix code to make each tool identifiable

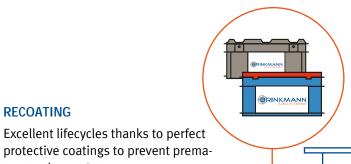
- Transparent tool lifecycle management
- Fast, dependable logging of orders
- Clear concise tool and grinding data





BOX-LENDING SYSTEM

Free-of-charge for customers





ture tool wear & tear

RECOATING



COLLECTION

Regional collection service: Brinkmann Schleiftechnik collects and delivers

Supraregional transport service: reliable long-standing UPS parcel service customer

ACCURATE REGRINDING

Moldino tool regrinding true to the original, HSC tools, torus tools, drilling tools, saw blades

Cutting-edge machinery and gauging technology

DELIVERY

Delivery of ground tools: convenient, safe and fast in our own special transport boxes.



PROFESSIONAL - FROM THE START

Manufacturing companies are on the look-out for flexible service providers that are in a position to deliver professional services for their high-performance tools. For many years, Brinkmann Schleiftechnik has been an established expert for CNC tool grinding. We combine craftsmanship with innovative technologies, skilled labour and finely-tuned processes.

ACCURATE CNC SOFTWARE OPERATED BY A QUALIFIED TEAM

We use the latest CNC software and provide our staff with continuous training in CNC programming. Their skills, combined with high-performance grinding technologies, ensure optimum grinding results. Precise measurement technology guarantees outstanding precision.

HIGH OUALITY FOR YOUR TOOLS

Continuous quality assurance, fully automated CNC grinding processes at the cutting edge coupled with the latest coating processes guarantee the high quality standard of Brinkmann Schleiftechnik. We grind your tools true to the originals and deliver on time.

Our tried-and-tested transport box system will impress you – it is simple, convenient and safe.

TOOLS WITH TOOL IDS

High-performance tools are key capital investments for companies. To enable you to implement professional asset management, we can provide laser marking of your tools with a data matrix code. We look forward to receiving your request!



TOOL ID – YOUR DIGITAL TOOL PASSPORT WITH UNIQUE LASER MARKING

Since the end of 2020, Brinkmann Schleiftechnik has been providing customers with unique serial numbers for their carbide tools in the shape of data matrix codes. The marking procedure uses a proven laser system and provides a transparent, efficient lifecycle management system for tools: the laser marking enables us to link all the key data relating to the grinding of that particular tool and save this information in our ERP system when logging the order.

PRODUCE ORDERS AS EASILY AS A SUPERMARKET CHECK-OUT

Once the tool details and the serial numbers for each of your carbide tools have been stored, our team – in conjunction with a scanner – can generate the order automatically. The tool details stored in our system and the fact that the tool is scanned in a carefully screened scanner box means the order is quickly and securely generated.

TOOL HISTORY – EVERY SERIAL NUMBER TELLS ITS OWN STORY

The automatically logged orders together with the stored tool and grinding data enable Brinkmann Schleiftechnik to display an accurate, dedicated tool history for each of your serial numbers. This enables us to verify how frequently and when your tools have been reground. The codes also prevent any form of mix-up between tools because serial numbers are stored in customer-specific form and are, as a result, traceable.

Important: none of your tool data can be read by third parties, so it is all absolutely safe.

TOOL-ID – PERFECT PAIRING: OERLIKON BALZERS & BRINKMANN SCHLEIFTECHNIK

Our long-standing partner, Oerlikon Balzers, also benefits from this method. Together, we have founded a worldwide "Tool ID" pilot project. After an extensive test phase, the system went live at the end of 2020. Thanks to the code marking and realtime tracking using live platforms in the background, Oerlikon Balzers can monitor exactly what tools are delivered by Brinkmann Schleiftechnik daily. That means greater efficiency for their production facilities because many of the manual handling actions are no longer required and this results in a faster supply chain.

BEYOND TOOL ID - INDIVIDUAL LASER MARKING

Of course, we can still provide you with durable marking of your tools using laser lettering and engraving – even without Tool ID. Brinkmann Schleiftechnik can deliver individual marking of your high-quality tools using approved laser systems. As an option, the tool shanks can be marked with your company name, logo, a barcode or inventory number.

Allow us to introduce our Oerlikon Balzers project:





The advantages of laser marking your tools:

- It supports lifecycle management
- Transparent traceability
- Unique assignment in the ERP system
- Tool ID supports digitisation
- Absolutely unequivocal identification of each tool
- Faster, more secure handling







NEW PROFESSIONAL GRINDING OF MILLING TOOLS AND HSC-MILLING CUTTERS

Professional regrinding of high-performance tools combined with exactly the right recoating process puts your milling tools back at the cutting edge. Brinkmann Schleiftechnik works with absolute accuracy and is fully aware of the latest trends.

We will return your high-performance tools to you quickly and at the highest standard of quality so you can get them working hard for you once again.

We will be pleased to advise you in depth on optimum tool performance.

PREMIUM CNC GRINDING PARTNER FOR MOLDINO

We are experts on producing the perfect radius for original-quality grinds on your high-performance tools. As a long-standing, dependable partner of Moldino, we are recommended as ,preferred partner to ensure regrinding of these tool geometries to the original standard.

For your milling tools, we can provide these services:

- Perfect regrinding of HSC milling tools
- True to original grinds for Moldino tools
- Custom radius geometries for HSC and carbide machining
- Regrinding of torus geometries
- Optimum high-performance recoating for excellent performance
- Laser marking and measurement reports





TESTING THE TOUGHNESS OF VHM HIGH-PERFORMANCE AND VHM DEEP-HOLE DRILLS

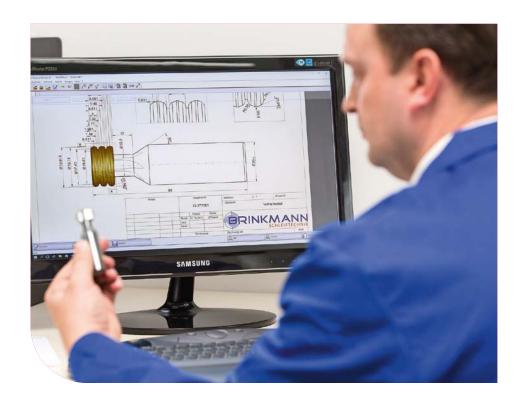
High-performance and deep-hole drills are subject to extreme loadings but, at the same time, are expected to meet the toughest demands in terms of drilling results. Brinkmann Schleiftechnik provides high-accuracy regrinding of solid-carbide spiral drills made by leading manufacturers, which extends the service lives of your high-performance drilling tools. In our specialist facility we apply fully automated CNC grinding processes, supported by experienced, skilled team members.

We will machine your high-performance tools using our high-performance machines in process-optimised workflows with fully automated tool loading systems. Our objective is to return your high-quality drilling tools to you as good as new and with the best possible grind quality.

Best possible grind quality for VHM highperformance and VHM deep-hole drills:

- Exact regrind ensures long service life
- Meets the highest demands for materials and machining
- Fully automated CNC grinding processes
- Experienced, highly qualified team







CUSTOM TOOLS MADE BY BRINKMANN SCHLEIFTECHNIK

Brinkmann Schleiftechnik is your expert tool grinding operation for special tools built to customer specifications. With our specialist knowledge, we are in a position to design, develop and manufacture step tools in HSS or carbide on the basis of your drawings, or can adapt your own tools accordingly. Using the latest in gauging technology, CNC-based grinding processes and 3D simulations, we can achieve exceptional results. On request, we can also supply detailed measurement reports.

FROM THE CAD DRAWING TO THE INDIVIDUAL CUSTOM TOOL

Our experts will liaise with you to ascertain the field of application and key requirements for your custom tool. The technical data thus compiled is then included in the IT-assisted design process for your new tool. Based on the CAD drawing finally agreed with you, we will manufacture your custom tool and ship it to you through our fast logistics system.

Custom designs made by experts:

- Step tools made of HSS and carbide
- Individual custom tools or adaptations in line your drawings
- Manufacturing of special-length tools
- Professional tool design

State-of-the-art gauging technology and CNC grinding processes with 3D simulations guarantee outstanding accuracy.

The benefits to you of our coating service:

- Extended tool lifecycles thanks to improved cutting-edge stability
- Expert recoating service optimises your tools
- Significantly reduced tooling costs and lower wear & tear
- Comprehensive advice on the ideal coating
- Supports material characteristics for outstanding performance
- Guarantees better temperature resilience and higher loading capabilities of your tools
- The latest coatings are always available

INNOVATIVE PROTECTIVE COATINGS ENHANCE PERFORMANCE

Ideal selection of the wear coating and the right cutting geometry significantly improve the lifecycles of carbide tools.

HIGHTECH COATINGS FROM OERLIKON BALZERS

For many years, Brinkmann Schleiftechnik has been cooperating closely with Oerlikon Balzers, the world's leading supplier of anti-wear coatings with an extensive research and development division. You will therefore always benefit from the latest coating technologies.

HOLISTIC SERVICE FOR YOUR HIGH-PERFORMANCE TOOLS

Take advantage of the holistic approach provided by our CNC tool grinding shop. We will grind and coat your tools and make sure you can get them back into operation quickly and at the highest performance standard.







For regrinding circular saw blades, Brinkmann Schleiftechnik uses a state-of-the-art production line. CNC controlled grinding machines employing CBN-abrasive grinding and high-pressure cooling are responsible for the fully automated grinding, tooth-cutting and chamfering processes, which ensures the best possible grind quality for your circular saw blades.

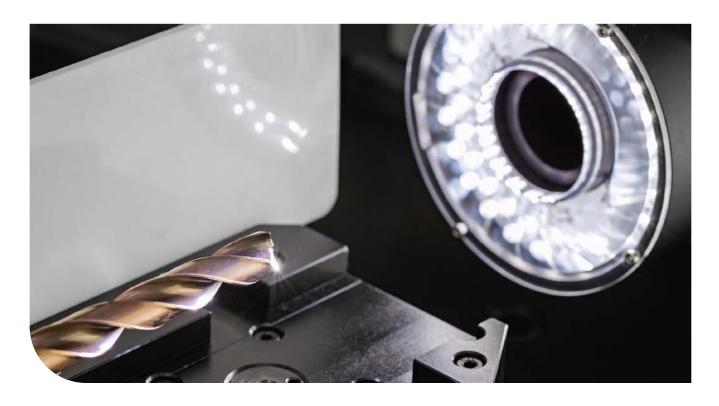
The workflows of all the processes for regrinding and repairing your circular saw blades are monitored by our IT systems. In this way, we can guarantee our customers in the field of high-tech machining a high degree of reliability on fully automated sawing lines. Whether it is tooth recutting, segmental repairs or custom manufacturing – we can supply HSS segment sawblades and HM saws that meet the highest standards with excellent grinds.

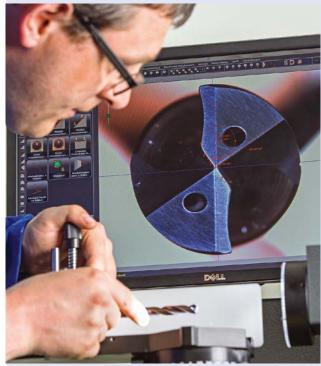


CNC supported grinding service for circular saw blades:

- Accurate CNC grinding of HSS segment and HM saws
- Exact grinding of chip breaker grooves
- Recutting of new teeth for any tooth profiles and geometries
- Grinding, retoothing and chamfering of HSS saw blades using CBN-abrasive grinding and highly efficient HP cooling
- CAD design of a range of tooth profiles and tooth pitch combinations (Vario toothing)
- Exact-fit segment repairs
- Custom manufacture of HM tipped circular saw blades for cutting wood, NF metals and steel
- Continuous monitoring of tooth geometries







HIGHEST QUALITY STANDARDS IN CNC TOOL GRINDING

Quality is more than just a promise – it is a commitment to our customers. As a quality-aware CNC specialist facility, we perform regular quality audits on all our tools. Brinkmann Schleiftechnik guarantees you the highest quality standards in CNC tool grinding.

MEASURING REPORTS DOCUMENT THE QUALITY

When machining your tools, we use high-performance CNC grinding machines and apply the latest processes. On request by our customers, we are pleased to supply a measurement report to verify the quality of the tools.

WE ARE EXPERTS FOR CNC TOOL GRINDING OF THE HIGHEST QUALITY

Brinkmann Schleiftechnik stands for state-of-the-art CNC tool grinding and combines high-tech solutions with many years' experience and first-class qualified staff.

The best CNC grinding quality – the benefits to you:

- Regular quality audits of all tools
- Informative measurement reports
- Use of contactless high-tech gauging systems
- The latest processes and methods
- First-rate qualified staff







VERSATILE TRANSPORT BOX SYSTEM FROM BRINKMANN SCHLEIFTECHNIK

Dependable, secure and fast – these are decisive factors in a competitive world. Brinkmann Schleiftechnik has set up an end-to-end supply chain that is the ideal logistics solution for delivering your high-grade grinding tools.

In conjunction with our specially developed transport box system, we can guarantee fast, convenient delivery. We can supply your high-performance tools securely and quickly.

The benefits to you of our transport and logistics solution:

- Our own versatile transport box system
- Convenient, secure, fast tool deliveries
- Simple, convenient handling
- Regional collection service: Brinkmann Schleiftechnik collects and delivers
- Supraregional delivery service: reliable UPS parcel service dispatch
- Above-average adherence to deadlines
- Boxes loaned to customers free of charge





WE ARE YOUR EXPERTS FOR CNC TOOL GRINDING

Accurate regrinding and recoating of high-performance tools.

THE BENEFITS TO YOU OF WORKING WITH BRINKMANN SCHLEIFTECHNIK

There are many reasons to take work together with Brinkmann Schleiftechnik, some of these are listed here.

Original-matching grinds for:

- Moldino tools
- Professional tools from a range of manufacturers

Comprehensive service from a single source for over 45 years:

- Professional advice
- CNC tool grinding
- Design
- Recoating
- Measurement reports
- Laser marking
- Transport box system
- Delivery service

Qualified and experienced staff

High-performance machinery with:

- Fully automated grinding processes
- Integrated tool loading systems
- Grinding disk changer

Efficient processes and high quality standards based on DIN ISO 9001

Safe, convenient handling thanks to special transport boxes

Fast, flexible order processing

