KEMPF

Issues with burrs?



WE GOT SOLUTIONS

#burrfree

WHO IS KEMPF?



WHO WE ARE

We are KEMPF GmbH. When it comes to precision tooling and deburring solutions, this is more than our business – it is our expertise and our passion. Since 1962, we have been delivering tools that do more than simply perform a machining operation. They solve manufacturing challenges, optimize processes, and make production more efficient. Backed by more than 60 years of experience, countless successful customer projects, and a clear mission, we help manufacturers produce components that come #burrfree straight out of the machine – eliminating unnecessary rework, reducing cycle times, and improving process reliability.



WHAT WE DO

We develop and supply tooling solutions for every aspect of metal cutting. Our portfolio includes custom tools, PCD/CBN tooling, drills, milling cutters, turning & grooving tools, burnishing tools and much more. Our greatest passion, however, is one thing: #burrfree straight out of the machine.

What does that mean? Imagine a workpiece leaving the machining center completely finished – without manual filing, secondary deburring operations, or additional finishing processes. That is exactly what our deburring tools are designed to achieve. Our goal is to help you reduce machining costs, shorten production times, and maintain consistently high quality by eliminating manual or outsourced deburring. We deliver more than cutting tools – we provide tooling solutions that create measurable process improvements throughout your production.



WHY CHOOSE KEMPF?

- Because we do more than supply cutting tools: We solve manufacturing challenges. We listen, understand your application requirements and develop tooling solutions that fit your process perfectly.
- The industry's most comprehensive portfolio of deburring tools: What you find at KEMPF is often hard to find elsewhere.
- Speed & flexibility: While others are still designing the tool, we already deliver.
- Experience & expertise: More than 60 years of engineering and manufacturing knowledge go into every tool that leaves our facility.
- Quality without compromise: ISO 9001:2015 certified, technically proven, and validated in production.

Whether you are producing high-volume parts, developing prototypes, or machining complex precision components, KEMPF is the partner that helps take your manufacturing performance to the next level.

OUR PROMISE

We do not believe in one-size-fits-all solutions – unless a standard tool truly is the best option for your application. Instead, we provide the tool that delivers the best possible solution for your manufacturing challenge. By combining advanced technology with craftsmanship, flexibility with reliability, and innovation with practical engineering, we help customers achieve the highest level of machining performance.

If you are facing a deburring challenge, your search ends here. We have the solution – precise, cost-effective, and #burrfree straight out of the machine. KEMPF – More tools. More expertise. More competitive advantage.

LEADING THE WAY IN DEBURRING TECHNOLOGY

With the Back-Burr Cutter & Path deburring system, the award-winning Burrless Chamfering Cutter, recipient of the Best of Industry Award 2023, and the innovative ibex deburring system, KEMPF continues to set new standards in machine deburring.

Our tooling solutions are engineered to eliminate manual deburring operations entirely, reducing production costs while saving valuable time and labor. Instead of relying on secondary finishing operations, the deburring process is completed directly in the machine – with precision, repeatability, and uncompromising quality.

The result is shorter lead times, lower labor requirements, consistently high component quality, and a clear competitive advantage for your production.

Image caption:
For example, dihw, Issue 4/2024, described the Back-Burr Cutter & Path deburring system as the "Superman of deburring tools." The system combines a spiral-fluted micro-grain carbide Ball Cutter with a custom NC program. This enables contour tracing along curved edges, delivering reliable, secondary-burr-free, high-precision deburring. It is the only solution that shifts the point of contact during machining, significantly extending tool life while producing exceptionally uniform edge quality.



THE #burrfree BASICS

WHY IS #burrfree STRAIGHT OUT OF THE MACHINE SO IMPORTANT?

With the ever more complex requirements for high-precision components with increasingly difficult workpiece contours, today's competitive advantage lies in manufacturing these components with a consistent high quality - #burrfree.
If deburring is implemented in the production process of the CNC machine, not only time is saved, but resources are also gained that were previously tied up. The use of machine deburring tools almost always leads to lower unit costs in series production and at the same time to fewer quality defects or complaints from the end customer.



WHAT IS A BURR?

In order to be able to remove a burr without leaving any residue or to be able to machine a workpiece #burrfree, it is first necessary to define what a burr actually is.
According to German Standard DIN ISO 13715, workpiece edges are considered "burr-like" if their protrusion is a deviation of > 0.05 mm from the ideal geometric shape. Smaller burrs are considered sharp-edged or even #burrfree. In practice, the picture is somewhat different. Which burr heights or burr root thicknesses are still accepted on a workpiece edge depends strongly on the requirements of the component and differs from application to application.

HOW MASSIVE CAN A BURR BE?

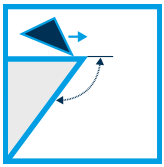
In general, the more massive the burr, the fewer deburring solutions there are. Therefore, the focus is on designing the pre-machining in a way to minimize burrs as much as possible.

Burr root thickness in mm	<0.05	0.05 - 0.1	0.1 - 0.2	0.2 - 0.5	0.5 - 1.0	1.0 -2.0	>2.0
Microfinishing	Almost all deburring solutions can be considered						
Honing							
Grinding							
Rubbing							
Milling			• Deburring tools • Manual deburrer • Grinding wheel • Finishing file				
Turning							
Fine drilling							
Drilling					• Rotary cutter • Deburring cutter • Rough grinding wheels Problem from secondary burr formation		
Sawing							
Punching							
Forged parts							
Castings							
Welded parts							



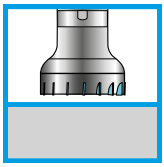
WHY IS BURR-MINIMAL MACHINING IMPORTANT?

Depending on the #burrfree requirements of the workpiece edge, a well-designed burr-minimizing machining process can possibly eliminate the need for a deburring tool afterwards. If this is successful, a very economical machining process is achieved without the use of another tool. But even if the use of a further tool remains necessary, burr-minimal pre-machining is always important, because deburring tools that follow in the machining process can then be used much more effectively and economically.



HOW DOES THE EDGE ANGLE INFLUENCE BURR FORMATION?

Pointed edge angles on the workpiece should also be avoided as far as possible, because the sharper the edge, the larger the burr that is generated. At chamfered edges or countersunk holes, only a minimal burr occurs from a blunt edge angle of ≤ 45° and practically no burr at 30°.



HOW DOES THE MACHINING TOOL INFLUENCE THE BURR FORMATION?

In order to be able to produce a component that is as free of burrs as possible, it is NOT only the actual deburring tools that are important. Rather, it is also important to keep an eye on the actual "preparatory work". Not only chip- and edge angles have an influence on burr formation, the tool itself plays a crucial role.

Optimized cutting tools with sharper cutting edge geometries also generally lead to less burr formation - with shorter tool life. However, in the field of machining non-ferrous metals, for example, it is possible to achieve both the goal of minimizing burrs and the goal of maximizing tool life. The use of PCD as a cutting material and an appropriate tool design make sense here.



HOW DO APPLICATION PARAMETERS INFLUENCE BURR FORMATION?

Burr minimization can also often be achieved by adjusting the machining parameters where the tool meets the workpiece edge. For example by:

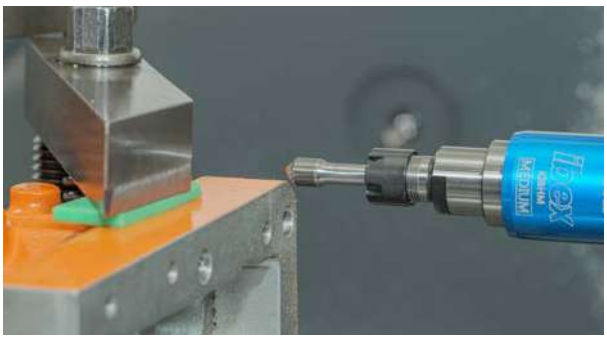
- Reduction of the depth of cut for a face milling operation
- Reduction of the feed rate at the exit of the bore hole

As an alternative, our ExBurrDrill drills, specifically designed for minimum-burr drilling, are also recommended (see the Deburring Tools catalog, starting on page 24).

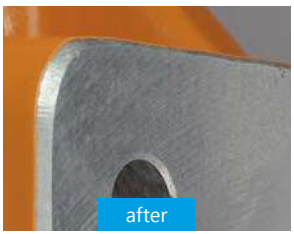
CASE STUDIES

• APPLICATION

Machine deburring of an undefined contour on an aluminum cast component for an extruder







• TOOL

IBEX DEBURRING SYSTEM

As shown in the illustration, the ibex deburring system from KEMPF features the ibex tool holder in a horizontal machining application – delivering reliable performance even without coolant.

With up to 10 mm of tension and pressure compensation, it reliably compensates for dimensional variations along irregular cast contours. Combined with the conical cutters featuring Cross-Cut geometry, it produces a consistent chamfer without variations in quality. Even complex geometries are deburred with precision – without any manual rework. The result is shorter production times, greater process reliability, and more time for value-added operations.

• APPLICATION

Front- and back-side deburring of a curved bore in a cast component in a single machining operation





• TOOL

IBEX DEBURRING SYSTEM

The ibex forward and backward cutters are ideally suited for deburring internal and external edges, including contoured surfaces. The deburring path can either be defined by an NC program or automatically compensated by the tool. Thanks to the tool holder's compression and extension capability, the cutter maintains consistent contact with the contour throughout the machining process. Both edges are completely deburred in less than four seconds.

• APPLICATION

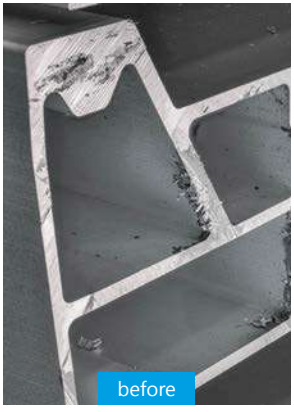
Machine deburring of saw-cut aluminum extruded profiles for packaging machinery

• TOOL

IBEX FLEX
DEBURRING SYSTEM









When machining complex aluminum extruded profiles for packaging machinery, the ibex FLEX deburring system from KEMPF completely replaces manual deburring and reduces manual labor by approximately 90%. The profiles are made from a soft aluminum alloy and often exhibit dimensional variations caused by the extrusion process – a challenge for conventional deburring systems.

The ibex system combines a tool holder with up to 10 mm of pressure compensation and specially ground cutters featuring Cross-Cut geometry to automatically compensate for these variations. With the FLEX version, three pressure settings (SOFT, MEDIUM, HARD) can be adjusted directly on the tool, making it ideal for varying material hardness.
Deburring is performed directly in the CNC machine without contour-specific programming. Components with reinforcing ribs and irregular end faces are now fully machined and deburred in approximately 30 minutes. The cutters achieve a tool life of more than 1,200 minutes.

In addition to significant time savings, the process delivers more consistent deburring results, reduces the risk of injury, and frees operators for other tasks. Thanks to its flexibility, the ibex system is ideally suited for extruded profiles with dimensional variations and is perfectly suited for industrial applications involving changing geometries.

CASE STUDIES

• APPLICATION

Back chamfering of turbine components for power plants made from 1.4901 heat-resistant stainless steel, each with 400 bores

• TOOL

REVCUT BACK CHAMFERING TOOL







Back chamfering 400 bores in a steam strainer made of 1.4901 heat-resistant stainless steel presented a major challenge. Standard tools failed due to the unfavorable ratio between the bore diameter and chamfer diameter. Angle head and folding tools were either too expensive or lacked process reliability. The specially developed KEMPF RevCut solves this challenge with its eccentric cutting action and rigid shank design. The tool delivers low-vibration machining, produces burr-free 120° chamfers, and achieved up to 800 machining operations per cutting edge. Its replaceable carbide inserts also provide a cost-effective and reliable solution.

• APPLICATION

Front- and back-side deburring of a curved bore in steel

• TOOL

GMO DEBURRING TOOL





To deburr the curved bore edges on this sample component, the GMO deburring tool was used, specifically designed for this type of application.

Spring force adjusts the deburring pressure, while an adjustment screw sets the cutting diameter.

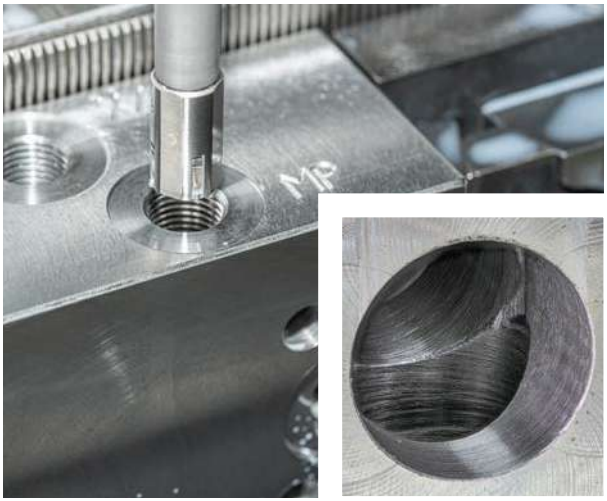
This enables clean, reliable deburring results on virtually any machine.

• APPLICATION

Conversion to fully machined production including bore deburring in valve housings made from 11SMn30+C steel

• TOOL

HSD DEBURRING TOOL



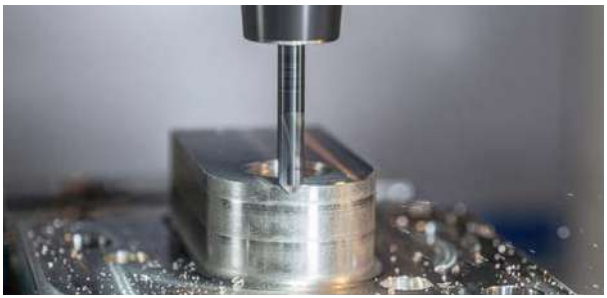
The HSD deburring tool is ideally suited for reliable deburring of cross-holes and intersecting bores directly in the CNC machine. Hydraulic pressure actuates the cutting edges, providing consistent burr removal even in hard-to-reach locations. For hydraulic components, the system meets the highest quality requirements, even in small production runs. If used with helical motion, larger bores can also be deburred reliably – without manual rework and with consistently high process reliability.

• APPLICATION

Machine chamfering of a circular contour on an aluminum component without secondary burr formation

• TOOL

BURRLESS CHAMFERING CUTTER







After rough milling the component with a KEMPF PCD semi-standard cutter, only a very slight burr remained along the defined contour – a typical result when the cutting edge exits the workpiece. The contour was then chamfered using the Burrless Chamfering Cutter Type 06N. Its patented V-shaped cutting edge keeps the tool engaged until the material is completely sheared, preventing secondary burr formation and producing a clean, defined chamfer.

CASE STUDIES

• APPLICATION

Reliable, burr-minimial drilling without a drill cap in a steel hydraulic housing

• TOOL

EXBURRDRILL





Drilling without burrs and drill caps – and without any additional deburring – is easy with the ExBurrDrill from KEMPF. In this application, the ExBurrDrill replaced a standard drill and eliminated the previously required manual and thermal deburring operations.
For a turned part with an annual production volume of 25,000 pieces, tool life increased tenfold from approximately 2,000 to around 20,000 bores. Burr formation at the bore exit is no longer measurable, inspection and rework are eliminated. Tool change time and machine downtime were also significantly reduced. The ExBurrDrill is now used in three diameters and produces up to eight bores per component – burr-minimal, efficient, and process reliable.

• APPLICATION

Optimizing aircraft component production for greater cost efficiency and process reliability

• TOOL

CUSTOM PCD TOOL FOR NON-FERROUS METALS



Success starts with the right tooling – especially when the goal is burr-free machining or maximum production efficiency. In this application, for example, three solid carbide tools were replaced by a single PCD tool. The result: 24-hour automated production without manual rework.

CASE STUDIES

• APPLICATION

Complete machine deburring of a magnesium actuator housing for the automotive industry directly in the machine

• TOOLS

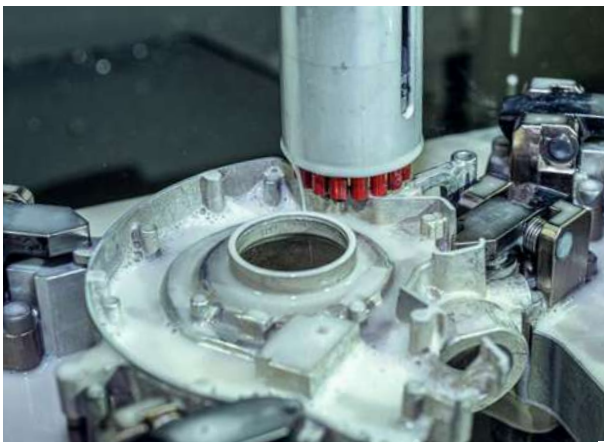
BACK-BURR CUTTER &
CERAMIC FIBER BRUSHES



before
(Deburring with the Back-Burr Cutter)



after



For volume production of a complex steering gear housing made of magnesium, a fully automated deburring process was implemented to eliminate manual rework, quality fluctuations, and high staffing effort. The central component is the Back-Burr Cutter & Path System: The "ball cutter" machines even hard-to-reach internal geometries, such as elliptical recesses and slotted holes, parallel to the contour. The specially generated NC data set not only controls the precise tool path, but also continuously shifts the cutting point on the workpiece - this significantly reduces localized wear and enables a tool life of up to 20,000 parts per cutter.

For surface and edge deburring, two ceramic fiber brushes are used. The self-sharpening cutting edges ensure consistent material removal with extremely low wear of only approx. 0.0005 mm per component.

The result: burr-free parts straight out of the machine, stable series quality, and halved staffing effort. With fully automated complete deburring, the cycle time increased by only 5 seconds per part. An excellent value for process-reliable complete deburring. For a production volume of 200,000 parts per year, this represents a worthwhile investment, ensuring consistent quality and reducing customer complaints.

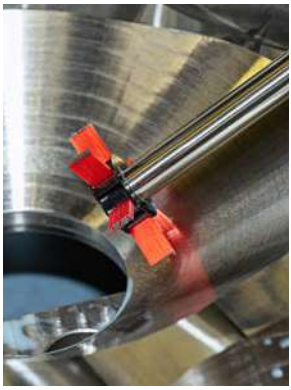
• APPLICATION

Machine polishing and deburring of stainless steel vessels for the pharmaceutical industry

• TOOL

CERAMIC FIBER BRUSHES









By using Ceramic Fiber Brushes made from high-performance ceramics, manual finishing of stainless steel pressure vessel lids for the pharmaceutical industry was significantly reduced. Instead of requiring up to 7 hours of manual polishing per component, the process now requires only 2 additional machine hours – reducing manual labor by approximately 70%. Made from aluminum oxide (Al_2O_3), the fibers are harder than steel while remaining flexible enough to conform to complex features such as tapers, bores, and grooves. The result is a uniform polishing action with a consistently superior surface finish, reliably achieving surface roughness values of Ra ≤ 0.06 µm.

Three different Ceramic Fiber Brush types were used, including the BÜA32-CB40M for surface polishing, the BÜA32-EB06M for tapered internal surfaces, and a WheelBrush for side deburring. These brushes produce no secondary burrs, require no coolant, exhibit extremely low wear, and are self-cleaning due to the regenerative properties of the ceramic fibers.

The previously required manual grinding and polishing operations were fully integrated into the machining process. The result is improved surface quality, higher productivity, lower manufacturing costs, and a repeatable, reliable process – even for small production runs.

THE PERFECT STARTING POINT

BURR-MINIMAL DRILLING

- for perfect pre-machining

FORCE-CONTROLLED DEBURRING TOOL

DEBURRING

- front- & back-side bores
- flat & curved bore edges

FORCE-CONTROLLED DEBURRING TOOL

DEBURRING

- cross-holes, slots & grooves



EXBURRDRILL

Minimum burr at maximum feed rate – the ExBurrDrill makes it possible. These custom-engineered tools dramatically reduce burr formation compared to conventional drills without compromising tool life.

Learn more:

GMO DEBURRING TOOL

Patented tooling system for deburring bores starting at 0.8 mm in diameter. Deburring intensity is adjusted by spring force, while the cutting diameter is set using an adjustment screw. A wide range of interchangeable cutting edges makes the system suitable for a broad variety of applications.

Learn more:

HSD DEBURRING TOOL

Cleanly remove burrs from bores – even at depths of up to 50×D. The HSD tool makes it possible. It is particularly effective in high-volume production, making it the ideal choice for manufacturers who demand precision and reliable machining processes.

Learn more:

CONTOUR-CONTROLLED DEBURRING TOOL

CHAMFERING

- back-side contours up to 2x bore Ø



CONTOUR-CONTROLLED DEBURRING TOOL

CHAMFERING

- front-side contours
- back-side contours



FORCE-CONTROLLED DEBURRING TOOL

DEBURRING & CHAMFERING

- undefined edges & contours



REVCUT REVERSE CHAMFERING TOOL

The KEMPF RevCut chamfers or countersinks the back side of bores from Ø 1 mm up to twice the bore diameter – without changing spindle direction. Its robust, mechanism-free design prevents chip jamming, while the modular design allows economical replacement of the solid carbide cutting edges.

Learn more:

CHAMFERMILL DEBURRING CUTTER

The extensive range of tools for deburring and chamfering of simple edges covers virtually all chamfer angles and diameters from 0.2 mm to 45 mm. Custom geometries can be produced quickly and easily.

Learn more:

IBEX DEBURRING SYSTEM

When components with undefined edges require deburring, the ibex deburring system, consisting of the ibex tool holder and ibex cutters with special Cross-Cut geometry, is the preferred solution. It compensates for dimensional variations of up to 10 mm through compression and extension, while different spring rates enable use with a wide range of workpiece materials.

Learn more:

FORCE-CONTROLLED DEBURRING TOOL

DEBURRING & CHAMFERING

- front- & back-side bores



CONTOUR-CONTROLLED DEBURRING TOOL

SPOTFACING & CHAMFERING

- front- & back-side bores



FORCE-CONTROLLED DEBURRING TOOL

DEBURRING & CHAMFERING

- front- & back-side bores



BURRAWAY® DEBURRING TOOL

Bores starting at 1.00 mm in diameter can be reliably deburred with this tool. The spring pressure of the spring-loaded cutting edge can be easily adjusted across a wide range. An economical all-round tool suitable for use on any machine.

Learn more:

FLIPCUT SPOTFACING & CHAMFERING TOOL

By reversing the direction of rotation, precise chamfering and countersinking operations can be performed in a single setup. The carbide-tipped cutting edges provide long tool life, while tools with internal coolant starting at Ø 7.92 mm ensure reliable chip evacuation.

Learn more:

BURR-OFF DEBURRING TOOL

A deburring tool cannot be designed any simpler, which is why it offers high application flexibility combined with excellent wear resistance. The cutting edges can also be resharpened cost-effectively.

Learn more:

CONTOUR-CONTROLLED DEBURRING TOOL

DEFINED DEBURRING

- front- & back-side 3D contours

BEST OF INDUSTRY AWARD NOMINEE 2019



CONTOUR-CONTROLLED DEBURRING TOOL

DEFINED CHAMFERING

- without secondary burr formation

WINNER 2023 BEST OF INDUSTRY AWARD



CERAMIC FIBER DEBURRING TOOL

DEBURRING & POLISHING

- of workpiece edges



BACK-BURR CUTTER & PATH DEBURRING SYSTEM

The Back-Burr Cutter & Path deburring system is designed for precise deburring of bores from Ø 0.8 to 9.8 mm. Available with reduced shank (Type A), uncoated (Type A-N), three-flute design (Type AS-3F), or continuous shank (Type B), the cutter can optionally be supplied with an NC program to shift the point of contact and optimize tool life.

Learn more:

BURRLESS CHAMFERING CUTTER

The world's first chamfer cutter with V-shaped cutting edges – the patented cutting geometry delivers outstanding chamfers. Secondary burr formation is eliminated, which removes the need for any additional rework after chamfering. This is how time and costs are reduced.

Learn more:

CERAMIC FIBER STONE MOUNTED POINT

When workpiece edges need to be machined, even on hardened materials, these grinding pins with fixed ceramic body are the ideal solution. High abrasiveness combined with low wear is just one of their advantages. Perfect for use with the Micromotor system.

Learn more:

CERAMIC FIBER
DEBURRING TOOL

DEBURRING, POLISHING & DESCALING

- of cross-holes & bore walls



CERAMIC FIBER
DEBURRING TOOL

DEBURRING, POLISHING & CHAMFERING

- of cross-holes



CERAMIC FIBER
DEBURRING TOOL

DEBURRING & POLISHING

- of side surfaces & edges
- of threads



CERAMIC FIBER STONE FLEXIBLE SHAFT

Deburring cross-holes without damaging the bore wall – the flexible shank makes it possible. Even deep internal and hard-to-reach contours can be machined with ease.

Learn more:

CERAMIC FIBER CROSS-HOLE BRUSH

Centrifugal force causes the ceramic fibers to expand, enabling efficient deburring of (cross-)holes. Unlike nylon brushes, the fibers return to their original position after machining, ensuring consistently reliable results, especially in high-volume production.

Learn more:

CERAMIC FIBER WHEEL BRUSH

For deburring and polishing external contours on 3-axis machining centers, as well as deburring thread run-ins and run-outs on lathes, the Wheel Brush is the preferred solution. Available in two diameters and shank lengths, it offers maximum application flexibility.

Learn more:

CERAMIC FIBER
DEBURRING TOOL

DEBURRING & POLISHING

- of large surfaces

CERAMIC FIBER
DEBURRING TOOL

DEBURRING & POLISHING

- of cross-holes, grooves and threads on a lathe

CERAMIC FIBER
DEBURRING TOOL

DEBURRING & POLISHING

- of small surfaces & workpiece edges







CERAMIC FIBER TURNING BRUSH

For deburring cross-holes, grooves, as well as external and internal threads on the lathe with stationary tool. The Ceramic Fiber Turning Brush is available in four versions: two types with square shank and adjustable brush angle, and two types with round shank and fixed brush angle.

Learn more:

CERAMIC FIBER SURFACE BRUSH

For deburring, polishing, and machining larger surfaces such as housings or grooves, Ceramic Fiber Brushes with diameters of 25 mm and larger deliver fast, efficient results. They remove milling marks and small feather burrs while achieving surface finishes of approximately Rz 1 / Ra 0.1 and burr root thicknesses around 0.2 mm. With over 80% high-performance abrasive ceramic and self-sharpening fibers, they maintain their shape and cutting performance throughout their long tool life. The consistent grinding performance ensures reliable, repeatable results in CNC machines and robotic applications.

Learn more:

We always look at the entire manufacturing process. That's why we offer not only the industry's most comprehensive portfolio of deburring tools, but also a wide range of additional tooling solutions that make your manufacturing processes easier.

BURNISHING TOOLS



Whether you need diamond burnishing tools or roller burnishing tools for internal or external applications, we provide the right tooling solutions for demanding surface finish requirements.

Our tools solve typical manufacturing challenges such as dimensional accuracy, tight tolerances, and surface finish specifications across a wide range of workpiece materials, including aluminum, steel, stainless steel, titanium, and high-strength alloys.

PCD/CVD & CBN INSERTS



Cutting tools with PCD (polycrystalline diamond), CBN (cubic boron nitride), and CVD-coated cutting edges are used wherever conventional carbide solutions reach their limits.

Our inserts are designed for process reliability, repeatability, and long tool life, delivering consistent results even in high-volume production.

We also offer cost-effective standard PCD milling cutters and drills, as well as CVD and MCD milling cutters.



NEW – Our solid carbide tools catalog with 144 pages of drills and milling cutters for high-performance machining.



And for every other machining application, there's always a

CUSTOM TOOL made by KEMPF

QUALITY TOOLS

MADE IN GERMANY

- Free tool design
- Fast delivery, starting from just 3 weeks after drawing approval
- Repair & regrinding service

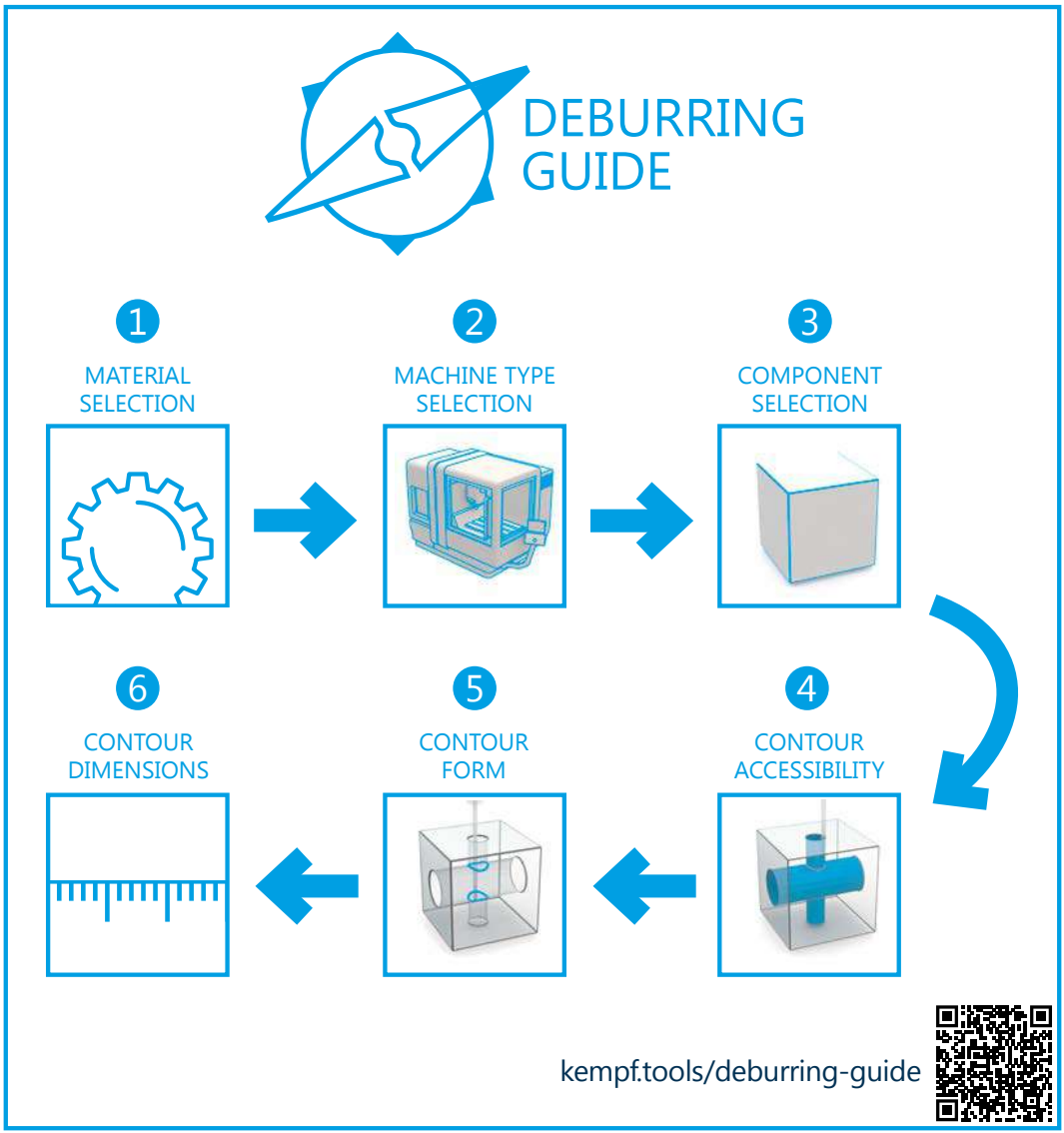


YOUR PATHS TO A DEBURRING SOLUTION

With an exceptionally large portfolio for a wide variety of machining cases, we can offer a suitable solution for almost every deburring problem. We offer you several options to safely navigate the world of deburring tools and select the right deburring tool for your application.

1 ONLINE-TOOL "DEBURRING GUIDE"

Are you looking for the right deburring solution? Then our online tool, the "DEBURRING GUIDE", can help. In six steps, you'll be guided through material selection, machining, the workpiece, and the actual "deburring problem" and at the end, you'll be presented with a selection of suitable tool solutions. This way, you can be sure you're always using the right deburring tool for your application.



2 ONLINE-SEMINAR

For over 60 years, we have been known as a “problem-solver” in the field of cutting tools, and we have since also established a reputation as a “deburring specialist”. Through our online seminars, which focus specifically on the topic of “deburring”, we aim to provide you with an overview of the various deburring methods and tools and to assist you in resolving any machining issues that may arise.

The demands on high-precision components are constantly increasing, and perfect deburring is becoming more and more important. We want to help you automate the deburring process as fully as possible so that you, too, can produce #burrfree straight out of the machine in the future.

- What are burrs, and how are they defined?
- How do burrs form?
- How can burr formation be minimized during machining?
- What deburring solutions do we offer for which applications?



kempf.tools/burrfree

3 PERSONAL CONTACTS

If you prefer to speak with us in person, our team of deburring specialists is always here to assist you. If you have product-specific questions or questions about a particular application, our in-house professionals are your best choice. We’d also be happy to connect you with the appropriate salesman to address your needs on-site.



OUR TEAM OF DEBURRING EXPERTS

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