



# KREBS & RIEDEL

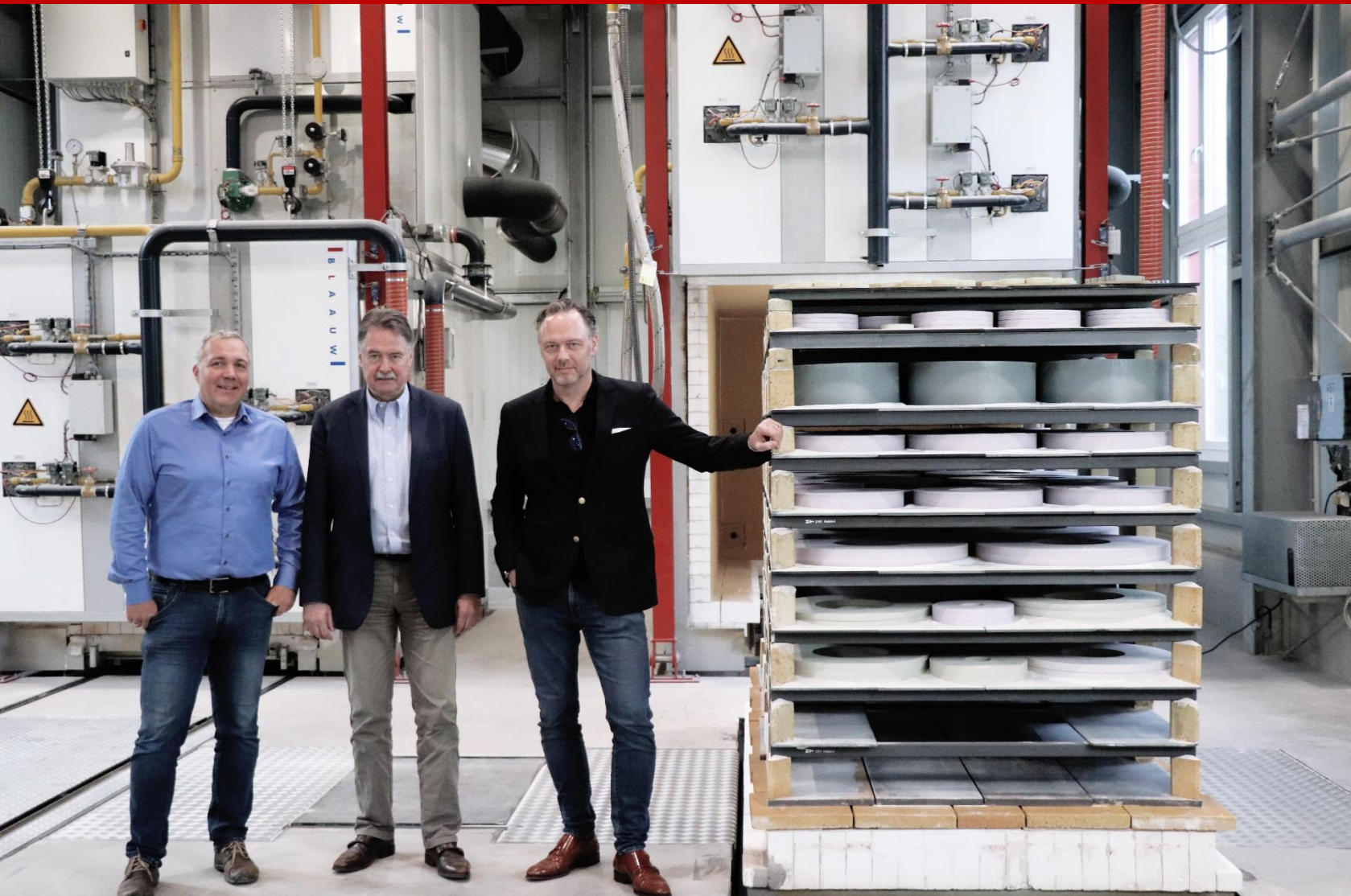
Schleifscheibenfabrik GmbH & Co. KG

Innovative  
grinding technology  
since 1895





# Owner-managed family business



## Founded

- 1895 in Bad Karlshafen
- By Carl Krebs

## Employees

- Currently 250 employees
- 12 apprentices

## Management

- Diplom Volkswirt Florian Riedel
- Dr. Ingo Kuhl

## Goals

- Growth
- Internationalisation
- Expanding scope



# KREBS & RIEDEL stands for...



## Innovative grinding technology since 1895

- Specialisation on bespoke grinding solutions
- Servicing highest customer requirements
- Reproduceable and homogenous quality
- Fast delivery times and adherence to schedules
- Excellent application engineering support worldwide
- More than 125 years of experience
- Made in Germany
- Innovation leadership
- Close cooperation with machine manufacturers, universities and research institutions
- Continuous learning and training of grinding skills together with our customers

# Milestones

- 1895: Production of vitrified grinding tools
- 1933: Introduction of resin-bonded grinding tools
- 1950: New company HQ is built
- 1985: Start of production of CBN and DIA grinding tools
- Certification to ISO 9001 standard
- 1997: R&D department opened
- 2000: founding member of the oSa
- 2014: New office in Shanghai, China
- 2015: 100% naphthalene free products
- 2015: Lowest specific CO<sup>2</sup> emissions in the industry
- 2019: Additional production facility in Germany
- 2020: New office in Bengaluru, India
- 2020: 125 years of Krebs & Riedel
- 2021: Production of PU grinding and polishing tools
- 2022: New representative office in Tokyo, Japan
- 2022: Certification EMAS environmental management





# Highlights

**Export  
48%**

**Sales 2022  
EUR 32 million**

**subsidiary  
companies  
in China  
& India**

**> 30 partners  
worldwide with  
local contacts**

## KREBS & RIEDEL

KREBS & RIEDEL is one of the world's leading manufacturers of modern grinding tools.

The product range includes conventional grinding wheels, cutting wheels, cup wheels and grinding segments with vitrified or synthetic resin bonds as well as vitrified bonded CBN and diamond tools.

KREBS & RIEDEL products are used worldwide.

**645 raw  
materials**

**25,000  
formulas**

**140,000  
products**

# KREBS & RIEDEL is successful worldwide

Strategic partner  
SL Munson & Company  
USA

## Distribution:

**Asia:** Japan, Malaysia, South Korea, Taiwan, Thailand, Vietnam

**Europe:** Belgium, Denmark, Finland, France, Great Britain, Ireland, Italy, Austria, Poland, Portugal, Romania, Russia, Sweden, Switzerland, Serbia, Slovakia, Slovenia, Spain, Czech Republic Hungary, Belarus

**Americas:** Argentina, Brazil, Canada, Mexico, USA

Headquarters  
KREBS & RIEDEL grinding  
disc factory GmbH & Co. KG  
Bremer Str. 4434385  
Bad Karlshafen, Germany

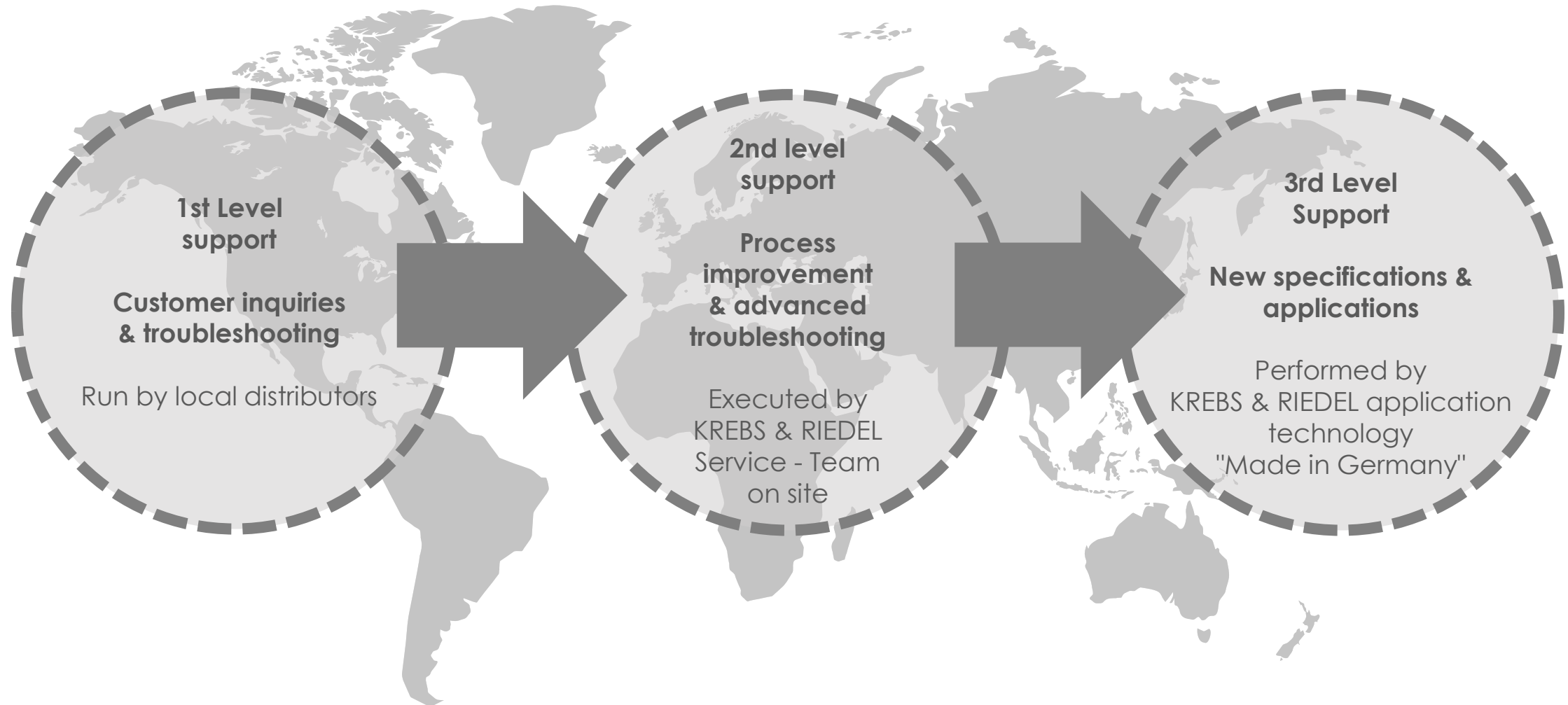
Representative office  
KREBS & RIEDEL Tokyo  
Japan

Subsidiary  
KREBS & RIEDEL  
Shanghai Co. Ltd.China

Joint Venture  
PROTEUS ABRASIVES  
Hongkong

Subsidiary  
KREBS & RIEDEL  
Abrasives India pvt Ltd.  
Bangalore, India

# Three tier support system



# Excellent application technology

## Worldwide service with experience

- Identify optimization potential
- Defining the specifications
- Process optimisation on site
- Best possible support from competent application engineers
- Basic & special training courses in grinding and dressing technology



Gathering process of relevant data

Bespoke grinding wheel recommendation

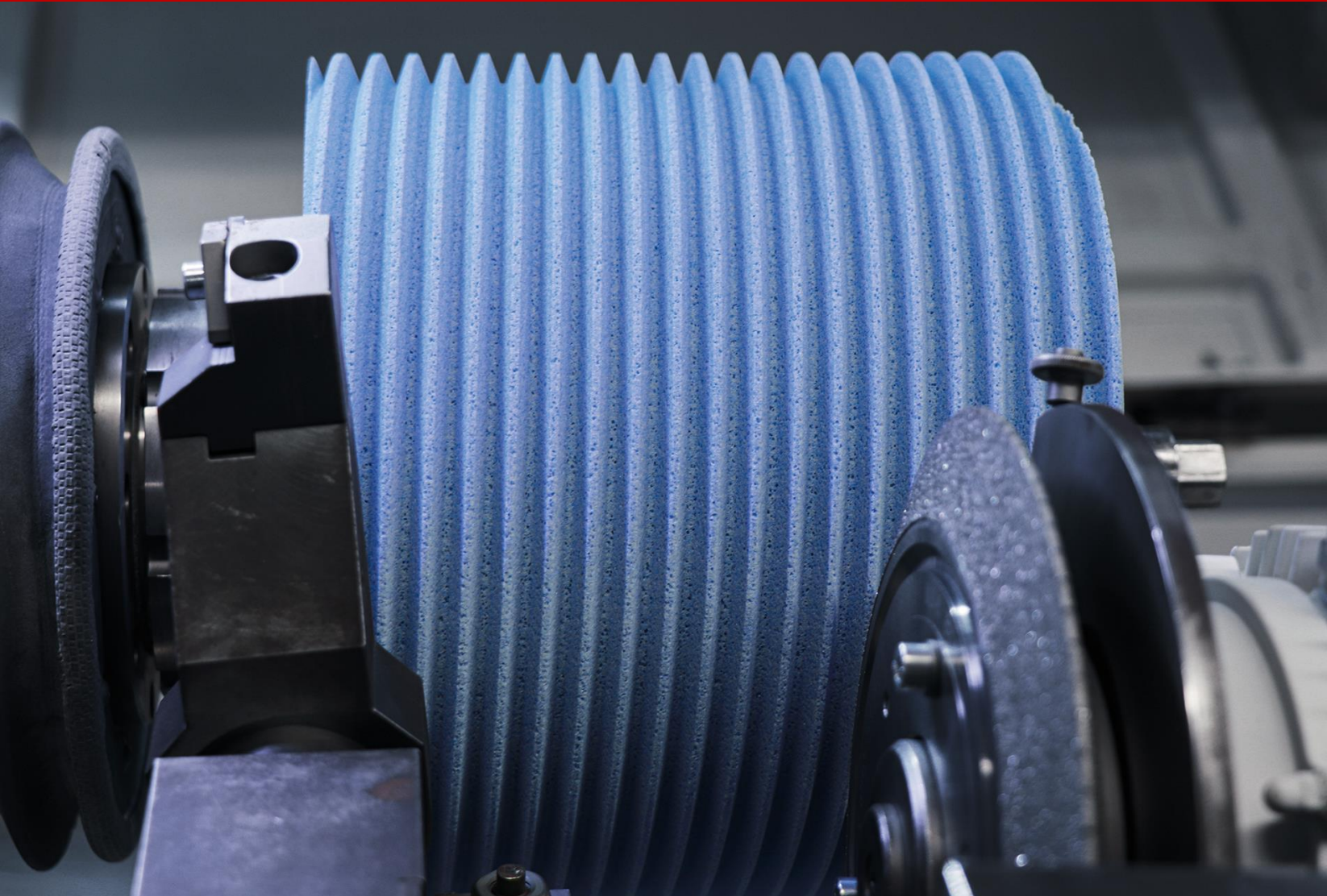
Solution design in dialogue with customer

Test on customer site and optimisation

After-sales service




# Consistent & high product quality

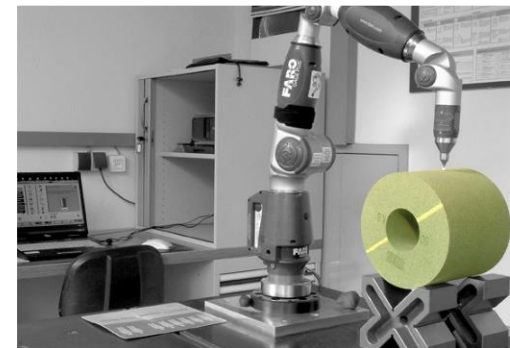


- High-quality raw ingredients
- Modern kilns
- Efficient firing cycles
- Automated mixing technology
- Modern dressing / profiling technology
- Automated pressing process
- Precise testing machines
- State-of-the-art CNC machines

# Quality management

- Quality management in accordance with ISO 9001
- Grinding wheel selection according to DIN / ISO
- Founding member of the  Organization for the safety of abrasive tools
- Reproducible production processes
- Continuous improvement of all processes (CIP)
- Documentation of all process flows
- Constant review + further development of safety standards
- Qualified and professional employees

= Satisfied customers

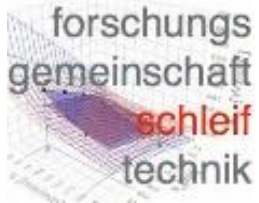




# Innovative through R&D



**ARBEITSKREIS  
SCHLEIFTECHNIK**



**FORSCHUNGSGEM.  
SCHLEIFTECHNIK**



**FRAUNHOFER  
INSTITUTE IKTS**



**WZL GETRIEBE-  
KREIS**



**SAE  
INTERNATIONAL**



**IFW HANNOVER**

## Innovative through

- Strong team in R&D
- Modern test field
- Own R&D grinding machines
- Development of new material systems
- Optimisation of production processes

## Close cooperation with

- Research institutes
- Universities
- Customers

# Mechanics need precise components – close tolerances by innovative grinding technology



**WIND  
ENERGY**



**AUTOMOTIVE**



**MACHINERY  
GEAR**



**AIR &  
SPACE**



**HEAVY  
MACHINERY**



**HIGH SPEED  
TRAINS**



**MARINE  
INDUSTRY**



**MINING, OIL  
& GAS**



**ROBOT  
INDUSTRY**



**E-DRIVES**



# Highest surface quality with advanced grinding technology



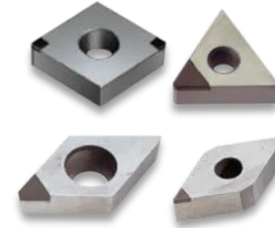
**FOUNDRIES &  
STEELWORKS**



**PROSTHESES &  
IMPLANTS**



**ROLLER  
BEARING**



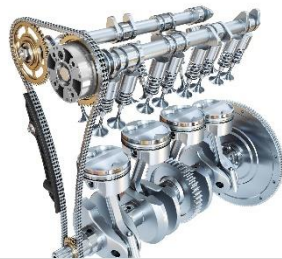
**MACHINING  
TOOLS**



**TOOL & MOLD  
PRODUCTION**



**HYDRAULICS**



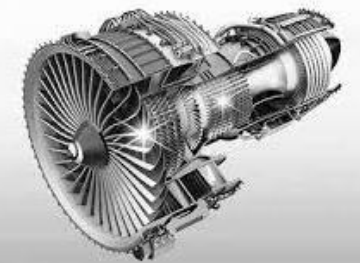
**COMBUSTION  
ENGINES**



**INJECTION  
TECHNOLOGY**

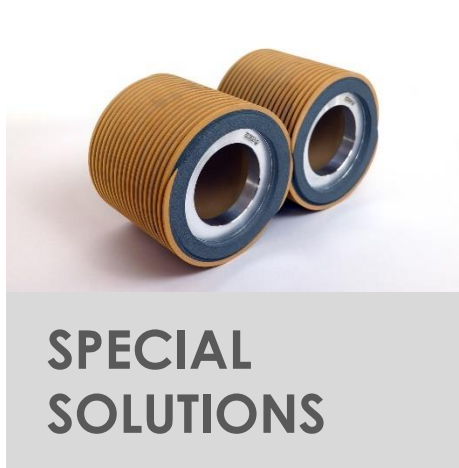
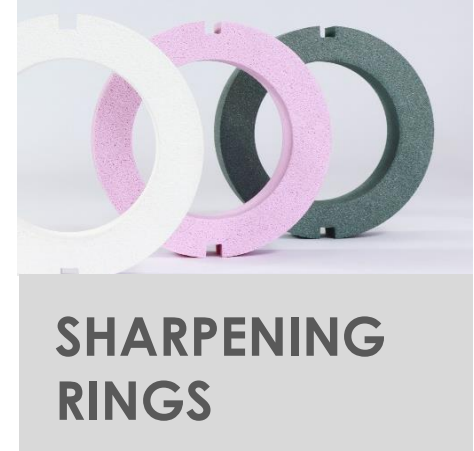


**BLADES &  
CUTTING TOOLS**



**TURBINE  
BLADES**

# KREBS & RIEDEL offers a wide range of solutions



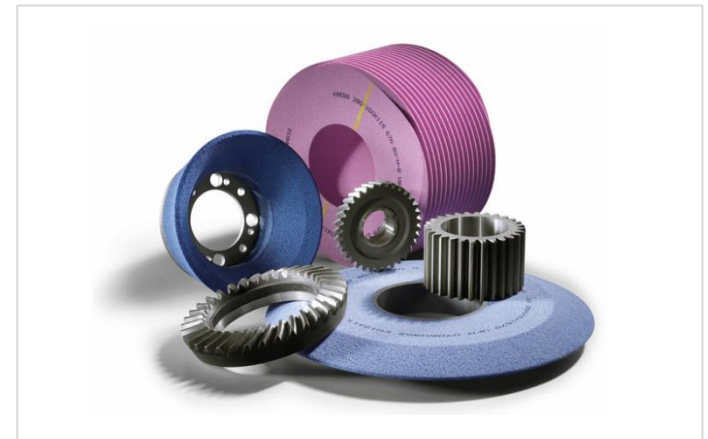
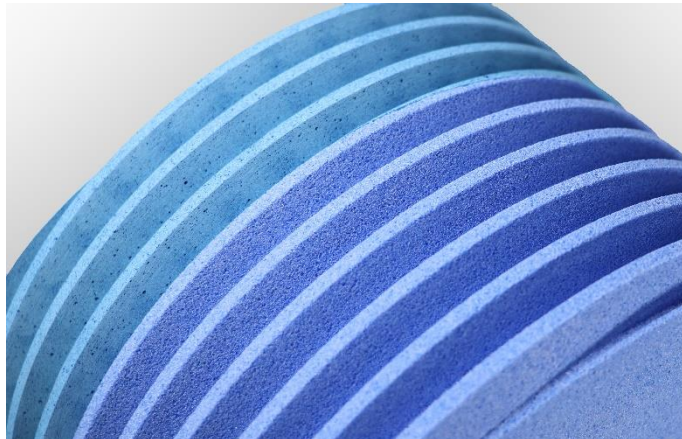


# Conventional grinding tools



- $\varnothing$  30 to 915mm
- Grinding segments
- Grit sizes from F20 to F400
- Precise finishing with CNC technology
- Modern vitrified bond systems
- Optimised pore space design

# Conventional grinding tools





# Super abrasive grinding tools



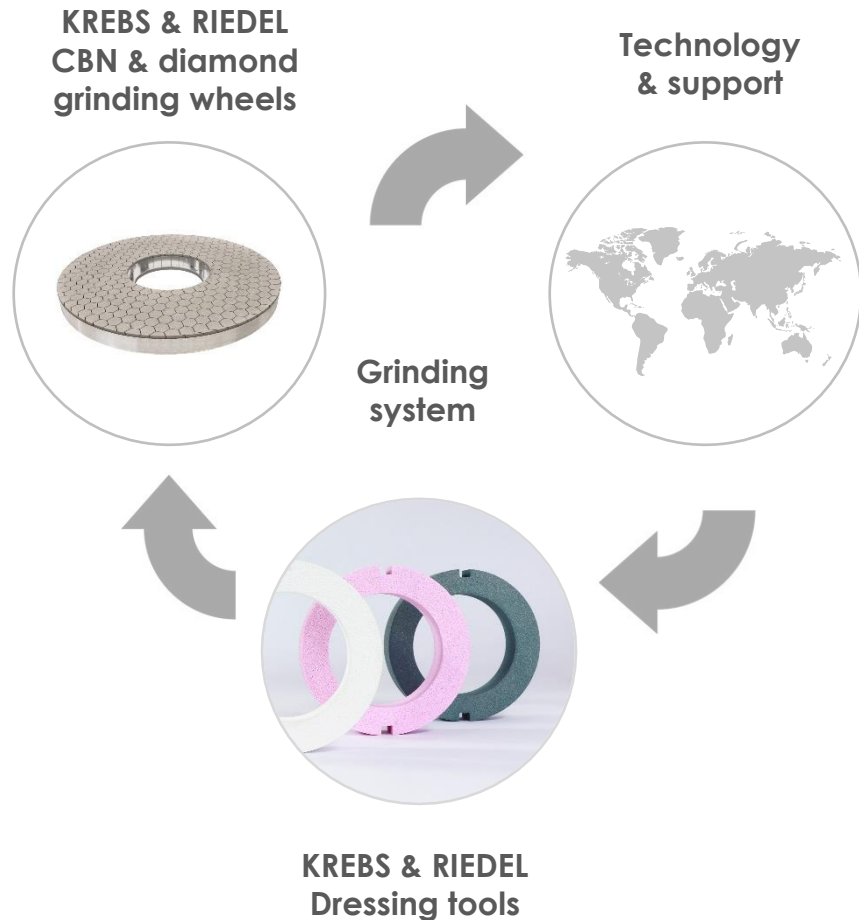
- $\varnothing$  2.5 to 900mm
- Speeds up to  $vc_{\text{max}}$  200m/s
- Grain sizes from 25 - 251 $\mu\text{m}$
- Bespoke qualities:
  - Abrasive layer in sandwich construction
  - Shape segmentation
  - Base body made of fiber composite materials

# Super abrasive grinding tools





# Double disc grinding



## KREBS & RIEDEL as a system supplier for individual solutions

In addition to an intensive process analysis, we supply you with grinding, dressing and sharpening tools that are tailored to your processes and your requirements:

- Double disc grinding wheels up to  $\varnothing$  1500mm
- Sharpening rings, AL<sub>2</sub>O<sub>3</sub> white, AL<sub>2</sub>O<sub>3</sub> pink and SiC
- $\varnothing$  100 mm to 600 mm; 80 to 600 mesh

Delivery from stock possible Two-layer version possible

# Grinding & cutting discs

## Cutting discs

- $\varnothing$  50 to 800mm
- Speeds up to  $v_c = 100\text{m/s}$
- Grit sizes from F8 to F400
- All common abrasive grain variants
- With and without fabric inserts
- Matched resin systems
- Modern filler components

## Grinding wheels

### without fiber reinforcement

- $\varnothing$  up to 900 mm / widths up to 300 mm
- Working speeds up to 63 m/s
- Special sizes are possible
- All common abrasive grain variants



## Fiber re-inforced grinding wheels / compact grinding wheels

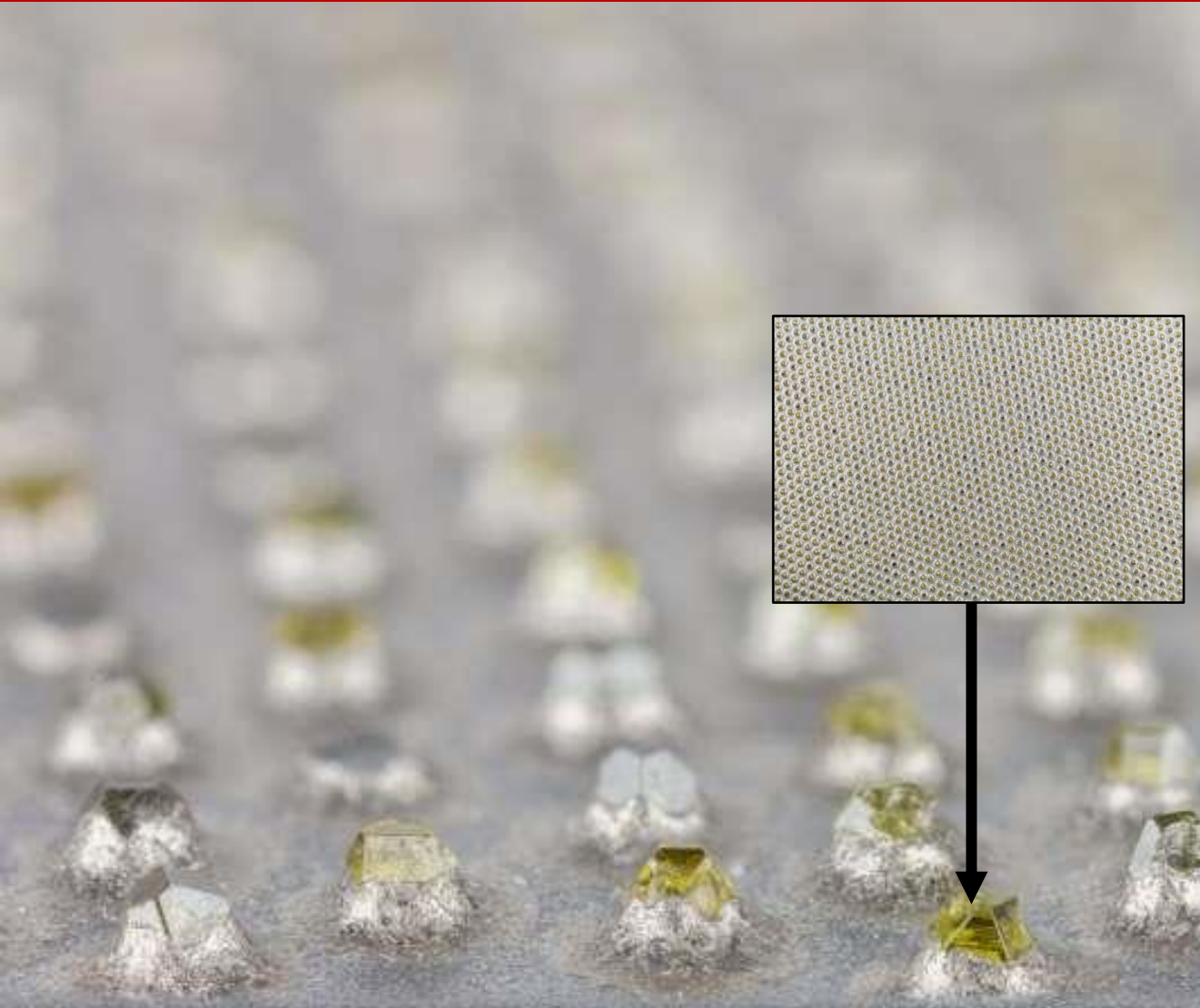
- $\varnothing$  from 300mm to 600mm
- Widths from 20mm to 80mm
- Working speeds up to 63 m/s



# Vacuum brazed diamond dressing tools, grinding wheels & millstones

... as a replacement for electroplated tools

- Superior quality and durability
- Higher removal rate
- Very good grain retention
- Low pressure needed
- Precise diamond layout and full control in contact area



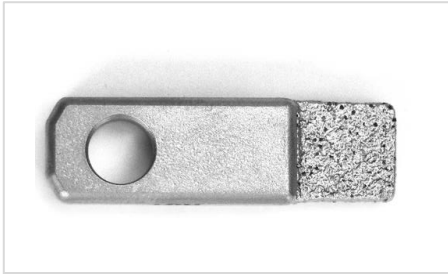
# Vacuum brazed diamond dressing tools, grinding wheels & millstones



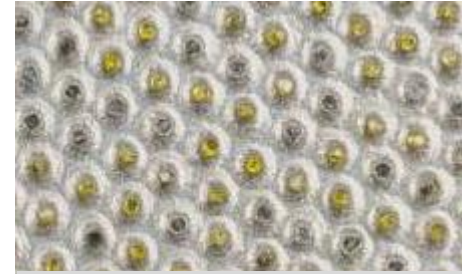
**PRE-PROFILING  
ROLLS**



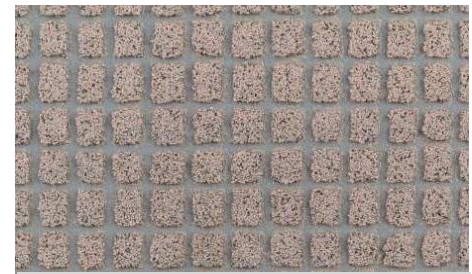
**PROFILE  
ROLLERS**



**DRESSING  
PLATES**



**LAYER  
VARIANT I**



**LAYER  
VARIANT II**



**MILLSTONE  
FLAT GRINDING**



**MILLSTONE  
PERIPHERAL GRINDING**



**GRINDING DISC  
FACE GRINDING**



**LAYER  
VARIANT III**



**LAYER  
VARIANT IV**





# KREBS & RIEDEL

## Schleifscheibenfabrik GmbH & Co. KG

---



**KREBS & RIEDEL**  
**Schleifscheibenfabrik**  
**GmbH & Co. KG**

Bremer Straße 44  
34385 Bad Karlshafen  
Phone: +49 5672 184-0  
[mail@krebs-riedel.de](mailto:mail@krebs-riedel.de)  
[www.krebs-riedel.de](http://www.krebs-riedel.de)

