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# ADVANCED GRINDING SOLUTIONS

## KREBS & RIEDEL CELEBRATE THEIR 125TH ANNIVERSARY AND GEARS UP FOR THE FUTURE

### INNOVATIVE GRINDING TECHNOLOGY SINCE 1895

The cornerstone of the KREBS & RIEDEL grinding wheel factory in Bad Karlshafen was laid some 125 years ago. Today the family owned company operates worldwide as a manufacturer of individually manufactured precision grinding wheels and impresses with innovation and solution-oriented application technology advice. Above all, customers from the automotive, aerospace, mechanical engineering, medical technology and wind power sectors rely upon the high-precision products manufactured by Krebs & Riedel. In addition to conventional grinding wheels, cutting wheels, cup wheels and grinding segments with ceramic and synthetic resin bonds, KREBS & RIEDEL also manufactures CBN and diamond tools with ceramic bonds. The medium-sized family business with over 250 committed employees and an annual turnover of 31 million euros is one of the leading German manufacturers of abrasives. An export share of around 48% shows the companies international orientation.

The medium-sized family owned company has subsidiaries in China and India, as well as 30 international distributors including Advanced Grinding Solutions Ltd of Coventry here in the UK. A team of application technology consultants looks after customers worldwide. KREBS & RIEDEL attaches particular importance to research and development and works closely with several research institutions. Important

investments in sustainability management and the expansion of the Bad Karlshafen site are currently being planned.

KREBS & RIEDEL is a specialist in the field of gear applications and supplies top gear manufacturers around the globe. These grinding wheels are used on many gear grinding machines, including those from the manufacturers Gleason, Kapp-Niles, Klingelnberg, Liebherr, Mitsubishi, Reishauer and Samputensili. Single-profile and composite tools for fine or polishing grinding operations are available to achieve the fine surface quality and high load-bearing proportions. These combinations can be combined and delivered with the tried and tested compositions as well as with the Blue Moon specification. Advanced Grinding Solutions now supplies Krebs wheels to several top UK gear manufacturing companies who are able to call off specially profiled wheels for gear production on fast deliveries. Under agreement Krebs can keep customer's blank wheels in stock and upon order will profile these to suit and then supply within just 2 or 3 days.

### THE EFFECTIVE "BLUE MOON" WHEELS FOR CONTINUOUS GENERATING GEAR GRINDING

Blue Moon 147A and 148A - specifications for increased economic efficiency through extended dressing cycles and increased removal rates in the grinding process. By using special abrasive grain geometries and

proportions in connection with an optimized pore space design, a very high level of ease of cutting with little heat input and high cutting performance is achieved. Unprofiled or pre-profiled for modules 1 - 12 in the highest quality according to customer specifications for grinding speeds of up to 80 m/s

### CONTINUOUS GENERATING GEAR GRINDING

KREBS & RIEDEL produces a wide range of dressable grinding worms with a ceramic bond for your gear machining. All specifications guarantee the highest profile accuracy with the lowest thermal loads on the workpieces. The combination of our grinding worms with fine-grain or polishing worms creates powerful tools that enable grinding and polishing in one application. The following design variants of the compound screws are possible: Unprofiled or pre-profiled forms for modules of 0.8 - 5, larger modules are possible upon request.

Krebs & Riedel offers a new carbon fibre base body variant for CBN and diamond abrasives. The proportion of carbon fiber guarantees maximum strength with the lowest weight. The body is up to 75% lighter than a comparable steel body. In addition to easy handling during assembly, extremely smooth running is achieved. This means that the load on the grinding spindle is lower. In addition, they offer significantly better damping behavior than conventional base bodies. This is with interrupted cuts and grinding processes with changing contact conditions. In addition, the carbon base bodies are often used when machining small filigree components. The grinding behavior is more harmonious and leads to improved surface quality. With the new CBN wheels an increase in productivity can be achieved through increased stock removal with an improved service life. Thanks to the fact that the base body can be re-assigned, good economic efficiency is also achieved, despite the higher material price. Therefore, it is not just a short-term thought, but a trend that will also prevail over the long term. The working speeds are up to 100 m / s. Depending on the composition, higher working speeds can also be achieved.

There is plenty of additional information available for download via the AGS website:

[www.advancedgrindingsolutions.co.uk](http://www.advancedgrindingsolutions.co.uk)



## Grinding Perfection for Every Process

- CBN and Diamond Wheels in Vitrified Bond
- Grinding Wheels in Vitrified and Resin Bonds

**ADVANCED GRINDING  
SOLUTIONS**

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**Innovative Grinding Technology since 1895!**



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