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Boehlerit – your partner for carbide rods and special solutions

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Boehlerit is a true pioneer in the development of cutting materials from carbide and a European premium manufacturer whose outstanding expertise results from its close links with the steel industry. The result: high-end grade solutions for rotating carbide tools that are suitable for a wide range of applications.

The Kapfenberg-based tool manufacturer looks back on many years' experience with carbide blanks and semi-finished products for the precision tool industry and offers a multitude of special material grades with varying grain sizes. The micro-grain carbide grades HB10F, HB20F and HB30F were developed for the machining of non-ferrous metals, aluminium alloys, fibre-reinforced plastics, graphite, low- and medium-hard casting materials, chilled casting and hardened steels. Furthermore, Boehlerit offers two special grades in the micro-grain range with HB20UF and HB44UF. HB20UF is ideal for the processing of composites as well as for HSC milling. HB44UF is used for all rotating tools within the field of HSC technology and for the machining of hardened steels up to 64 HRC.

HB40T, a special carbide grade that was developed by Boehlerit, offers a combination of toughness and wear resistance that is ideal for the roughing of titanium.

When it comes to milling titanium, its toughness poses a challenge for the cutting material used, as it leads to high temperatures and wear levels on the tool blade. To counteract this, tools require a sophisticated combination of metallic hard materials that have contradictory properties. Carbide grade HB40T offers an ideal combination of high wear resistance and toughness. Boehlerit offers the HB40T grade as a bar material. These blanks are perfect for the manufacturing of shaft tools that are used for titanium roughing applications, for example. The HB40T is thus the starting point of choice for tooling applications in almost all industrial areas where titanium is processed. Typical areas of application include the processing of aeroplane structure parts or engine components, products in the medical technology sector or components for chemical or energy plants. Boehlerit is also your ideal partner for purpose-built solutions in the field of preformed blanks for milling and drilling tools.

New in the Boehlerit portfolio is the extremely wear-resistant, ultra-fine grain grade HB05UF, the ideal solution for the processing of abrasive compounds and materials in a hardness range of > 64 HRC.

Press release

The company

Boehlerit, headquartered in the Austrian town of Kapfenberg, sets global standards with carbides and tools for the processing of metal, wood, plastics and composites. With cutting materials, semi-finished products, precision tools and tool systems for milling, turning, drilling and forming, Boehlerit ensures process safety and efficiency on a global scale. The company's extensive product portfolio includes highly specialised tools for the machining of crankshafts as well as for the mining industry, for bar peeling, tube and sheet metal processing and heavy-duty machining. The Boehlerit product range also features carbides for construction components and wear protection. When it comes to coating technology, Boehlerit holds a global monopoly, ranging from the first-ever nano-CVD bonding layer to the hardest diamond layer worldwide. With its many years' experience in metallurgy, coating technology and state-of-the-art press technology, Boehlerit is a highly competent development partner for toolmakers.

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Pictures

Abb. 1: Rods

