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Purpose-made, innovative FN geometry determines the processing pace

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Innovative solutions for the high-grade machining of materials constitute just one of the areas that the reputation of carbide pioneer Boehlerit rests on. In order to continue fulfilling international quality standards, Boehlerit has developed a new fine-finishing geometry to complete its aluminium turning programme. The newly designed FN geometry perfectly complements the existing range thanks to its unique chip former that reaches far into the corner radius, thereby achieving a chip break even with smaller feed depths. Depending on the machining process, there are two grades available: The BCN10T (HC-N10) grade is ideal for the processing of alloyed aluminium materials and NF metals. Thanks to its PVD TiAlN layer, it is also suitable for stainless steels and grey cast iron. The BWN10T (HW-N10) milling grade, on the other hand, is best suited for the machining of low-alloy aluminium and NF metals with medium to high cutting speeds thanks to its high wear resistance, and helps achieve optimal machining results despite unfavourable conditions. The wavelike design of the cutting edge reduces material build-up.

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: FN-Geometrie

