

Targeted cooling at the blade

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Boehlerit is adding yet another element to its already extensive product portfolio for turning operations: tool holders with connections for an integrated cooling agent supply. The new tool holders are available with toggle clamp (ISO-P) and screw clamp systems (ISO-S).

The integrated cooling agent supply directly to the indexable insert via the tool holder significantly improves the cooling of the blade. At the same time, the temperature development in the workpiece is reduced, allowing for more accurate tolerances and reducing the wear of the cutting edge, thereby increasing tool life and productivity. In many cases, cutting speeds or feed rates as well as surface qualities can also be improved. Additional benefits of an integrated cooling agent supply via the tool holder are improved chip control and more efficient chip removal. The precisely positioned stream of cooling agent helps optimise efficiency and process reliability of your turning operations.

The new Boehlerit tool holders with connections for integrated cooling agent supply are available with toggle clamp (P) and screw clamp systems (S). The P tool holders are suitable for all ISO-certified indexable inserts. There are no loose parts and only a small number of spare parts is required, making handling noticeably easier. The indexable inserts may be clamped safely and speedily and are easy to remove thanks to a forced release mechanism. As there is no troublesome build-up, chip removal is unimpeded.

With the S tool holders, clamping of the insert is also quick and safe – in this case, using a tapered positioning screw. Again, chip removal is obstacle-free and a maximum of three spare parts is required. In both cases, the cooling agent is supplied either from the rear, i.e. the end of the shank, or from the bottom up on the cutter.

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: Tool holder with internal coolant

