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New steel turning generation – High performance, optimal cost-benefit ratio

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Innovations regarding carbide, coating, and chip flow have given rise to a completely new generation of grades for steel turning. The perfect alignment of all these parameters has created the new, cost-effective steel turning grades BCP10T, BCP15T, BCP20T, and BCP25T.

These new Boehlerit turning grades offer excellent performance and process reliability throughout the entire turning process. A newly developed chip breaker with a modified chamfer provides optimised vibration cancelling for the machine and guarantees excellent chip flow and break.

The new BCP15T and BCP25T grades are particularly suitable for turning applications with interrupted cutting. The newly developed AlTiN-PVD coating is able to deal with high temperature and toughness requirements, while its golden colour ensures ideal wear recognition. The process-reliable PVD coating comes into its own with small components, low cutting speeds, and frequent material entry.

The new BCP10T and BCP20T grades, on the other hand, were developed with an eye to a new, two-colour CVD coating concept. The CVD coating is based both on the tried-and-tested MT-TiCN coating system to prevent flank wear and on an α -Al₂O₃ coating to protect the indexable insert against excessively high temperatures and to reduce crater wear. Again, wear recognition is made easy by the yellow TiN surface layer of the flanks. Both turning grades are particularly well suited for continuous cutting. The new BCP10T and BCP15T grades are recommended for medium applications with high cutting speeds, long operation times, and stable roughing. In contrast, BCP20T and BCP25T deliver excellent results at medium cutting speeds.

The new turning grades are the ideal solution for the entire steel turning process, which is becoming increasingly challenging. Always ensuring maximum cost efficiency, Boehlerit is your ideal partner when it comes to innovations.

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 turning, 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: Up to 30 % longer tool life with coolant directly on the cutting edge



Pictures

Abb. 2: The new steel turning generation of Boehlerit

