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Efficiency increase in steel machining by no less than a third

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...with the new Boehlerit cutting inserts Steeltec LCP15T, brand new turning grades and geometries for steel turning applications that are designed for a straight, uninterrupted cut.

An innovative, harder gradient hard metal ensures extra-high safety while the MT-CVD carbide layer is more resistant to wear and tear and ensures higher cutting speeds, in particular through an increase in the share of the TiCN layer. At the same time, Boehlerit has replaced HV2700Kappa Al_2O_3 (HV2350) with the more wear-resistant Alpha Al_2O_3 and increased layer thickness by 25%. *"The higher the process temperature, the greater the level of isolation"*, explains Heinz Gaber from Boehlerit Product Management in Kapfenberg, Austria.

In addition to harder metal and increased layer thickness, the new geometries that were developed in the chip channel also increase efficiency considerably. Using a high-speed camera, the breaking of the chip was analysed meticulously for each turning application to determine the optimum chip flow. The result – optimum turning geometries for highly diverse turning applications.

- FP = Fine ISO P, for the fine turning of steel with straight cuts.
- FMP = Fine Medium ISO P, for fine and medium intermediate geometries.
- MP = Medium ISO P, for medium steel machining.
- MRP = Medium Roughing ISO P, for roughing intermediate geometries.
- RP = Roughing ISO P, as a variant for heavy roughing.
- BC / BCU = Boehlerit Copy Universal, for copying geometries with good chip-breaking properties. It is considered a real problem solver for steel and super alloys.

Boehlerit is among the world's leading producers of carbide cutting materials for tools used in metal, wood and plastics machining. As a cutting material centre Boehlerit has a reputation as a development pioneer. By making optimum use of the synergies in one of Europe's largest tool groups, state-of-the-art technologies are used to create high-quality, innovative products, led by tool systems for the automotive and mining industry.

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.

Press/media contact

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Pictures

Abb. 1: LCP15T Image

