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DELTAtec 90N Tang: Smooth and stable cutting operations

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The Boehlerit milling range also includes a tool system with a tangential clamping system for cutting inserts. The 90° edge milling system DELTAtec 90N Tang is ideal for the roughing of steel and cast materials and combines a smooth cutting motion with extremely stable machining characteristics. With 4-bladed cutting inserts, the system ensures a high level of productivity while keeping tooling costs low.

The tangential milling system now also includes system size 09. As the first step of the market launch, the new product portfolio includes a face milling cutter and an end milling cutter in a standard size and in XL with a longer shaft. The diameter range of the face milling cutter lies between 40 and 80mm, with two different tooth pitches. Face milling cutters are available in diameters from 20 to 32 mm. The tool system DELTAtec 90N Tang comes in four cutting grades right from the start. The grades BCP25M and BCP35M for the processing of steel, BCM40M for stainless materials and BCK20M for cast materials are available in the tried-and-tested geometries and cutting edge finishes. In the second phase of the market launch, a helical milling cutter in a face and end milling version in the same diameter range will be added to the DELTAtec 90N Tang programme. As with the milling system in system size 13, a helical cutting edge will be used for soft cutting and the best possible distribution of cutting forces. Furthermore, great emphasis was placed on reducing vibrations through a specially developed, uneven spacing pattern.

The axial and radial design of the DELTAtec 90N Tang tool system was adjusted to the market's machining requirements and the basis of the LNMX13 was modified further.

Thanks to its large feed depth, the system is particularly cost-effective even at smaller tool diameters. In addition, care was taken to ensure the robustness of the indexable insert against breakage, which in turn has a positive impact on process safety. All this resulted in four cutting edges for reduced cost per cut and maximum stability with regard to 90° machining and the grades designed for this particular application. Excellent machining properties and high efficiency are thus the common denominator for all standard steel, cast and stainless materials. Thanks to its geometrical design, this tool system also makes shoulder and contour milling possible, in addition to helical infeed and full slot milling.

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: The tangential milling system DELTAtec 90N Tang extended by the system size 09

