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SawTec 2.0 – Saws with interchangeable teeth

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Austrian carbide and tool specialist Boehlerit, whose development expertise is based on its close connection to the steel industry, is exploring new paths when it comes to sawing and will be launching the "SawTec 2.0" tool system with interchangeable teeth, an intelligent, next-generation machining solution, in May 2020.

Saw blades are used by the metal-processing industry all over the world for separating rods, blocks, pipes, rails and profiles. In most cases, saw teeth are welded on, which is labour-intensive and costly especially for large saw diameters, given the need for re-sharpening and the logistics involved.

Kapfenberg-based development pioneer Boehlerit has reacted to this situation by creating the innovative "SawTec 2.0" tool system, which offers a solution for large-diameter saw blades, using screw-mounted, interchangeable saw teeth. A tangible benefit of this product is that the screw-mounted carbide saw teeth of the SawTec 2.0 are easy and quick to exchange. The patented "SawLock®" clamping system ensures stability, efficiency, precision and a high degree of flexibility. A range of tooth geometries are available to enable users to choose the right blade for steel, stainless steel and highly heat-resistant steel, depending on the material to be sawn.

The initial programme will consist of interchangeable teeth with a width of 9 mm, in three cutting geometries (SP, SM, SS) and two cutting grades (BCP40X and BCM40X), suitable for all standard steel, stainless steel and highly heat-resistant alloys. The interchangeable teeth come with a state-of-the-art coating that increases the cutting surfaces by up to 200 % in m², while increasing the cutting speed at the same time. Saw blades are available in a diameter range of 600 to 1500 mm, with the drilling hole for holding the spindle being executed according to customer requirements.

Users who need to keep an eye on costs for their sawing operations and are looking for a cost-effective solution will make the right choice with the "Sawtec 2.0" tool system with interchangeable teeth by Boehlerit!

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: Sawtec 2.0 – saws with replaceable teeth

