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Modular milling tool system for heavy duty machining

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Heavy milling with the greatest efficiency under extreme loads – the new generation BULLtec 2.0

The new modular tool system from Boehlerit for general heavy-duty machining covers diameter ranges from 160 to 400 millimetres. It can be equipped for the face milling of a very wide range of materials, such as steel and stainless steel to aluminium to titanium, by simple exchanging of the cartridges and indexable inserts. No adjustment work is necessary when changing the cartridges. Robust, modular, simply efficient.

The machining of components with high feed rates and maximum cutting depths is generally referred to as heavy-duty machining. Whether it is a matter of milling slabs, or machining large machine beds, large crankshafts, wheelsets, conveyor pipes or sheet edges: it always results in extreme demands being placed on the tool. Due to its wide experience in the steel industry, Boehlerit has for decades been one of the pioneers in tool development in this sector. This has led to the creation of an extensive product programme with a very wide range of industry-oriented solutions. With the gathered know-how, Boehlerit has now developed its new modular tool system BULLtec 2.0 for face milling operations, which sets new standards in performance and flexibility.

A milling cutter from the new tool system always consists of a basic body with interchangeable cartridges for the indexable inserts. With three base body designs from 200 to 315 millimetres of diameter in the standard range, tools can be achieved with 11 to 18 edges. "With this, we are fulfilling the request we have often received from customers for a robust, and yet versatile heavy-duty machining mill", adds Thomas Waltenberger, who is in charge of the segment Heavy Duty Machining at Boehlerit. The standard range comprises cartridges for indexable inserts for face milling for maximum cutting depths of 7 to 17 millimetres. What's special about the cartridges is their stable and precise connection to the base body. This way the tool system can be quickly and simply adapted to special tasks with a few swift hand movements.

Apart from its extraordinary versatility for a wide range of possible applications and the simplicity of its handling in practice, the new tool system is, however, also characterised by enormously high performance. "This is a result of, among other things, the specially designed cutting angles of the indexable inserts, which produces a very gentle cut", explains Johann Winter, Key Account Manager at Boehlerit. This is softer on the tool and machine, and leads ultimately to large extensions of service life. "We have, for example, already achieved substantially higher service lives when machining steel girders with a 12-edged tool than with the previously used 20-edged tool" confirms Winter. So the efficiency per edge of the new tool system is also "heavy-duty".

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: BULLtec 2.0 image

