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The Boehlerit material grades MB30EDM and MB40EDM – tough and corrosion-resistant

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Tool manufacturers have high standards when it comes to materials: not only must they be tough and hardwearing, but their toughness must also result in a long lifespan. Bearing all this in mind, tool expert Boehlerit has, with MB30EDM and MB40EDM, launched two material grades on the market that offer tool manufacturers highly favourable characteristics. Both have a coarser grain, which increases the fracture toughness of the carbide and minimises the breakout of cutting edges. For instance, the MB30EDM grade has a KIC value of 18.4 with a hardness of 1,250 HV30, while the MB40EDM grade achieves a KIC value of >24 with a hardness of 1,070 HV30. With these ideally balanced features, both materials are suitable for the punching and/or forming of even thick sheet metals that until now had to be worked using tool steels, with only minimal wear. This is entirely in line with the Boehlerit motto of "as tough as necessary, as hard as possible", explains Marien Melchionda, head of international sales segment wear protection and semi-finished products.

In addition, both MB30EDM and MB40EDM offer a high level of corrosion resistance. As is the case with the mixed binder grades MB05, MB10EDM and MB20EDM that have long been a fixture of the Boehlerit product range, this corrosion resistance also makes for increased process safety and a longer product lifespan. Accordingly, the grades are highly resistant against corrosive attacks, both during the manufacturing process and during actual use. Boehlerit now has a total of five corrosion-resistant grades in its product portfolio, covering most application requirements that arise with tool manufacturers and making even fine punching and forming a reality.

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: MB30EDM MB40EDM image

