**EMO 2017**

**Hall 5, Stand A54**

**Extension to range of face milling cutters and shoulder mills**

**Arbour milling cutters for long-chipping or short-chipping materials**

Horn's milling tools sales portfolio – based on Boehlerit tools – will be expanded to include the ETAtec 45P face milling cutter and the ZETAtec 90N rough milling cutter.

The ETAtec 45P arbour milling cutters, featuring diameters of 50 mm (1.9685") to 160 mm (6.2992"), come equipped with between five and ten 7-edged inserts. The tools not only offer a 45° angle of attack and positive geometry, but also generate low cutting forces, all of which ensures a smooth machining process accompanied by high levels of productivity – an important user benefit, particularly in cases where less powerful machines and unstable clamping setups are being used. Thanks to the multifunctional concept – involving one tool holder for two different insert versions – the inserts designed for face milling can easily be swapped with round cutting inserts if profile milling needs to be carried out, for example.

Where the new arbour milling cutters really show their strengths are in applications involving machining long-chipping materials such as stainless steels, titanium or nickel-based alloys. For these materials, inserts with or without chipbreaker geometry and in various steel grades are available. The ZETAtec 90N arbour milling cutters, featuring diameters of 50 mm (1.9685") to 160 mm (6.2992"), are equipped with five to ten inserts, each of which has six cutting edges. The excellent standards of reliability they achieve during rough machining are thanks to their negative geometry – while the positive rake angle ensures a smooth cut. What's more, the milling cutters also prove a real asset for customers performing helical or linear plunging, despite the negative geometry.

The benefits of the cutting insert's properties truly come to the fore in cases where short-chipping materials are being machined – when milling anything from simple steels to cast materials, for example. To ensure that the correct cutting insert can be selected for the task at hand, two substrates and geometries are available: one steel grade for stainless steels and one for cast and non-ferrous metals.

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**Image caption:**

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**Image 1:** ETATec 45P multifunction arbour milling cutter (with a round insert in the image) for face milling and profile milling.



**Image 2:** ZETATec 90N roughing arbour milling cutter. Can also be used for helical or linear plunging despite the negative geometry.

**Image credits:** Paul Horn GmbH, Nico Sauermann

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