**SEPTEMBER 2022 | AMB STUTTGART**

**M475 groove and cut-off milling system**

Paul Horn GmbH is presenting a completely new generation of groove and cut-off milling system at AMB 2022. The newly developed tool system enables highly economical and productive milling performance. Each precision-ground indexable insert offers four usable cutting edges. This means that the user no longer needs different inserts to equip the milling cutter body. Horn offers the positive inserts with round chip breaker groove in the new grade RC4G. This grade enables high cutting performance during the milling process. The M475 system complements the existing Horn milling systems M310, 382 and 383. The special surface treatment of the milling cutter bodies offers a high level of protection against abrasion from chips.

The cutter bodies are available from stock as side milling cutters, shell milling cutters and screw-in milling cutters. The shell and screw-in milling cutter variants are equipped with an internal coolant supply. Horn offers the side milling cutters in diameters from 80 mm to 200 mm. The cutting and grooving width is optionally 5 mm (0.197“), 6 mm (0.236“) or 8 mm (0.315“). As shell mills, the tools are available in diameters from 63 mm (2.480") to 200 mm (7.874"). The groove widths are the same as for the side cutter variant. The screw-in cutters are available for groove widths from   
5 mm (0.197") and diameters from 40 mm (1.575") to 63 mm (2.480") as standard. The effective number of teeth of all variants depends on the respective diameter. For example, it is zeff = 2 for the 40 mm (1.575") diameter shell mill and zeff = 13 for the 200 mm (7.874") side cutter. The large number of effective cutting edges also contributes to the economic efficiency of the new M475 milling system.

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**Photo caption:** The precision-ground indexable insert offers four usable cutting edges.

Source: Horn/Sauermann



**Photo caption:** The completely new developed tool system M475 enables highly economical and productive milling performance.

Source: Horn/Sauermann

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