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**New PCD milling programme – Face Mill**

As part of its new PCD milling programme, Horn has developed the DM70 and DM90 series, which is specially designed for face milling and shoulder milling. The focus is on high efficiency milling and surface quality as well as burr-free milling.

DM70

Horn developed the DM70 series especially for face milling. The system enables high efficiency milling and good surface quality when using small diameter tools. The precise face and taper contact interface guarantees axial run-out to within microns. The simple and quick replacement of the PCD-tipped milling cutter onto a carbide body is suitable for lean production processes and automated production systems. The carbide body also offers high stability and guarantees a long service life, even when the inserts are re-tipped several times. The series is ideal for stable milling as well as face milling operations in deep structural components due to the availability of large and small diameter variants, as well as a short and a long HSK63-A holder. The tools offer reliable cooling with a sophisticated, screw-mounted coolant distribution system on the face.

DM90

From face milling or shoulder milling of die-cast aluminium components to the machining of engine or housing components and even the face milling of surfaces of various non-ferrous metals, burr-free machining is essential. Accordingly, PCD-tipped inserts are the benchmark. The DM90 series is specially designed to meet these requirements and deliver high performance. It is available with long or short flutes in diameters from 50 mm (1.968“) to 125 mm (4.921“). HORN offers the appropriate tool for these applications, without the need for time-consuming presetting of the inserts. The series is notable for its extremely smooth running and axial run-out accuracy to within microns. Whether for roughing cuts up to ap = 4 mm (0.157“) or for finishing cuts, the system achieves surface finishes of better than Rz 4 µm (0.000157“).

Cost-effectiveness and productivity combined with Horn technology, high flexibility and reliability are offered by the extensive range of Horn tools in the field of ultra-hard cutting materials. The face milling cutters of the DM70 and DM90 series complement the portfolio for reliable aluminium machining in combination with five PCD end milling cutter types and an exchangeable head milling system.

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Photo caption: The precise face and taper contact interface of DM70 series guarantees axial run-out to within microns.

Source: HORN/Sauermann



Photo caption:The PCD tipped-inserts of DM90 series are notable for their extremely smooth running and axial run-out accuracy to within microns.

Source: HORN/Sauermann

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