**METAV 2018, Düsseldorf**

**Hall 14, stand C46**

**Solid carbide finishing mills with diameters from 2 mm (0.0787")**

DS multi-flute cutters up to 4 x D

With solid carbide tools from the DS milling cutter system, Horn is incorporating top-class products into its portfolio for machining copper, graphite, aluminium, plastics, fibre-reinforced plastics, soft and hardened steels as well as titanium and superalloys. The end, torus, full radius, double radius, multi-flute and roughing cutters are available from stock with diameters from 2 to 16 mm (0.0787 to 0.6299"). Micro end mills can be supplied with diameters ≥ 0.2 mm (0.0079"). The h5-quality tool shanks boast impressive concentricity of 0.005 mm (0.0002"), which makes them ideal for finishing operations.

The expertise acquired in a host of applications is now demonstrated in the new products added to the range of DSM multi-flute cutters. With an extended working range from 2 to 20 mm (0.0787 to 0.7874"), the finishing mills with six to eight cutting edges are available for machining depths that are 2 x, 3 x and 4 x the diameter in a sharp-edged version or with a corner radius of 0.2/0.5 and 1.0 mm (0.0079/0.0197 and 0.0394"). Their precision-ground chip spaces ensure good chip flow and the optimised face geometry produces very good surfaces, for example Ra ≥ 0.1 µm (0.000003937") for 42CrMo4. When machining steels, cast iron and hard-to-cut materials, the face geometry ensures an even wear rate and the new coating increases tool life.

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**Image captions:**

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**Image 1:** The optimised face geometry of Horn's DS multi-flute cutters produces very good surfaces.

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**Image 2:** DSM finishing mills, 2 to 20 mm diameter (0.0787 to 0.7874").

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