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Deep hole drills even for the smallest diameters

Deep hole drills with very small diameters are needed for various sectors in the automotive industry, for example for the drilling of fuel injection nozzles, or for medical technology. In order to be able to produce these delicate parts, MAPAL has extended its portfolio of deep hole drills with internal cooling for machining centres to include models above one millimetre diameter.

The geometry of the new drills has been specially adapted to the small diameter range. Thanks to the newly designed chip flute and special face geometry, very high feeds and cutting speeds are possible with deep hole drills. Thanks to the innovative cooling channels, the drills are also suitable for use with minimum quantity lubrication (MQL). Despite lengths of up to 30xD, the gas/oil mixture is reliably transported to the cutting edges. Instead of a full coating, the new tools are coated only at the head for higher cost-effectiveness.

The new miniature deep hole drills are available in the diameter range from 1.0 to 2.9 mm (shank diameter 3 mm) for universal drilling in steel and cast iron machining and drilling depths between 20xD and 30xD.

Pictorial material:

MAPAL has extended its portfolio of deep hole drills to include models above 1 mm diameter.

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Short profile of MAPAL Dr. Kress KG:

MAPAL – tooling the customer's success

MAPAL Präzisionswerkzeuge Dr. Kress KG is one of the leading international suppliers of precision tools for the machining of practically all materials. The company founded in 1950 supplies leading customers in particular from the automotive and aerospace industries and from machine and plant engineering. With its innovations the family-owned company sets trends and standards in production and machining technology. MAPAL sees itself as a technology partner, supporting its customers with the development of efficient and resource-conserving machining processes using individual tool concepts. The company is represented with production facilities, sales outlets and service partners in 44 countries. In 2015 the MAPAL Group had 4,800 employees, generating sales of EUR 540 million.

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