

## Deep hole drills even for the smallest diameters



**AMB, Stuttgart  
Hall 6  
Stand C38**

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 centers to include models above one millimeter 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 deep hole drill for machining steel and cast iron will be available in a diameter range of 1,0 - 2,9 mm (shank Ø 3mm) for drilling to depths of 20 to 30xD.



### At a glance

- Reliable and stable process
- Internal cooling from Ø 1mm
- Extremely smooth coating
- Optimized chip flute profile
- Up to 30xD without chip removal

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