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## Machining of plastics to a new performance level

When machining thermoplastics such as PEEK, POM or PA 6, the poor thermal conductivity of the materials and the relatively low melting temperatures make machining difficult. To meet these requirements, MAPAL has developed the Mono-Drill-Plastic drill and optimised the geometry of the so-called single-lip drill, also called the spindle drill. With the new Mono-Drill-Plastic, a new performance level for machining modern plastic materials has been reached.

The Mono-Drill-Plastic has been given special properties such as an extremely sharp blade geometry and special point thinning. As a result, bore tolerances up to IT7 are realised. To optimally dissipate the heat via the chips, the drill made of uncoated solid carbide has a large, polished chip flute. As a result of a special carbide substrate, the Mono-Drill-Plastic also has the best possible rigidity and wear resistance. Even when dry drilling, the new solid carbide drill is convincing. Here the precise geometry and the special chip flute prevent the premature, so-called smearing, of the material. As well as for use to machine plastics, the Mono-Drill-Plastic can also be used to machine aluminium.

From July 2015, the new Mono-Drill-Plastic will be available with a diameter range of 0.97 to 13.03 millimetres and a length of up to 5 x D.

Captions:

The new Mono-Drill-Plastic drill from MAPAL.

Words: 206 Characters: 1,101 Characters with spaces: 1,304
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by mail to Patricia Müller or  
by e-mail to [patricia.mueller@de.mapal.com](mailto:patricia.mueller@de.mapal.com).

MAPAL Präzisionswerkzeuge  
Dr. Kress KG  
P.O. Box 1520 | D-73405 Aalen

Contact:  
Andreas Enzenbach

Phone: +49 7361 585-3683  
Fax: +49 7361 585-1019  
E-Mail: [presse@de.mapal.com](mailto:presse@de.mapal.com)



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## Short profile 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 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 subsidiaries and representatives in 44 countries worldwide. In 2014 the MAPAL Group had 4,500 employees, generating sales of EUR 510 million.

MAPAL Präzisionswerkzeuge  
Dr. Kress KG  
P.O. Box 1520 | D-73405 Aalen

Contact:  
Andreas Enzenbach

Phone: +49 7361 585-3683  
Fax: +49 7361 585-1019  
E-Mail: [presse@de.mapal.com](mailto:presse@de.mapal.com)