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Milling from solid: high performance in aluminium and steel

MAPAL is expanding its portfolio in the area of high-performance milling cutters in the OptiMill family for aluminium and steel machining.

Reliably machining structural parts made of aluminium

The full potential of new, powerful machines can be used with the new OptiMill-SPM milling cutters "Rough" and "Finish". They exploit their strengths especially during the machining of structural parts made of aluminium.

High infeed depths as well as the highest feeds during roughing are possible with the new OptiMill-SPM-Rough. The reason for this performance is its innovative knurled roughing geometry that ensures the power consumption during machining is significantly lower compared to tools with a straight cutting edge. Furthermore, the heat introduction into the part is minimal due to the excellent plunging characteristics of the tool.

For finishing contours and pocket walls – even at large depths in one pass – MAPAL is announcing the OptiMill-SPM-Finish with newly developed geometry. It operates without problems even with large wrapping – also in the corners with enormous tool contact and a high load, the tool remains stable. The optimally designed cutting edge geometry ensures there is no vibration during the machining. The chip flutes are polished; as a consequence chip removal functions optimally.

Optimal for slot milling in steel

The OptiMill-Uni-Wave is the tool of choice if the issue is full slot milling with a groove depth up to 2xD in different materials. Due to its geometry, the highest machining rates are possible. Irrespective of all the advantages of the OptiMill-Uni-Wave, machinists often faced the difficulty that chip removal was not reliable, particularly in steel materials during the machining of slots with a depth $\geq 1.5xD$. For this reason,

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MAPAL now offers the OptiMill-Uni-Wave also with central internal cooling. This feature ensures optimal removal of the chips and longer tool lives. In addition, MAPAL is announcing the OptiMill-Uni-Wave as an extra long version. An efficient solution for roughing even in deep cavities is therefore now available. Despite its length, the new milling cutter is extremely stable due to its conically shaped neck.

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Captions:

MAPAL is expanding its portfolio in the area of high-performance milling cutters in the OptiMill family with the models (from left) OptiMill-SPM-Rough, OptiMill-SPM-Finish, OptiMill-Uni-Wave extra long design and OptiMill-Uni-Wave with internal cooling.

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If published, please send a voucher copy
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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

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production facilities, sales subsidiaries and representatives in 44 countries worldwide. In 2018 the MAPAL Group had 5,500 employees, generating sales of EUR 640 million.

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