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Machining deep bores without vibration using indexable inserts

During boring processes with large depths or unstable machining conditions, vibration often occurs. This vibration degrades the quality of the bore and has a negative effect on the life of the tool.

MAPAL indexable inserts with arc shaped land have proven successful at eliminating this vibration. Very good results are obtained especially during the machining of cast materials. MAPAL is now combining the technical properties of an arc shaped land with the economic advantages of pressed inserts. The result is a highly cost-effective solution for boring processes with replaceable inserts.

Indexable inserts with arc shaped land are used for example for cylinder bores, during the machining of crankshaft bearing journals, hydraulic housings or also gearboxes for wind energy converters. The arc shaped land is in contact with the bore wall during the machining process and supports the tool. This support surface minimises the vibration that occurs. The arc shaped land is comparable with the arc land chamfer on a reaming tool.

Captions:

MAPAL is combining the technical properties of an arc shaped land with the economic advantages of pressed inserts

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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 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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