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# European

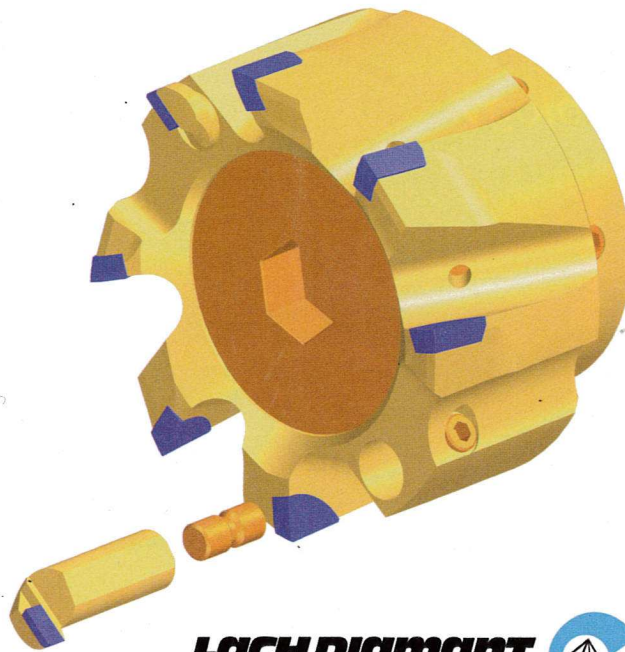
## TOOL & MOULD MAKING

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### Polycrystalline-Diamond Milling Cutters with Adjustable Finish-Cutting Inserts Are Suited for HSC Aluminium Processing

With the dia-compact monobloc face and square-angle polycrystalline-diamond (PCD) milling cutters currently available from **Lach Diamant**, surface finishes of 8 to 15  $\mu\text{m}$  can be produced on plane surfaces. This value now can be improved to better than 5  $\mu\text{m}$  in high-speed cutting (HSC) operations by using **dia-compact milling cutters with adjustable design-integrated finish-cutting inserts**. Because the inserts are already factory adjusted, the milling cutter—like all dia-compact monobloc PCD cutters—can be put on the machine directly.

This design is recommended for all precision aluminium machining, such as, for example, the production of high-grade sealing surfaces or optical surfaces on parts for household articles or medical devices. For parts that later



**LACH DIAMANT**



will be coated, using dia-compact cutters with the adjustable inserts considerably reduces polishing costs. Such

PCD cutters allow aluminium automotive and aircraft parts to be completely and efficiently machined on CNC centres.

Lach Diamant's dia-compact monobloc cutters fitted with the finish-cutting inserts accommodate cutting speeds to 7,000 m/min and feed rates as high as 0.25 mm per tooth. Following successful centrifugal force testing to 48,000 rpm at the technical university in Darmstadt, a Lach Diamant PCD monobloc milling cutter 125 mm in diameter was granted approval for HSC processing at 24,000 rpm.

Founded in 1922, Lach Diamant offers a wide range of diamond- and CBN-coated grinding tools and wheels.

**Lach Diamant (Jakob Lach GmbH & Co. KG)**



HANAU, GERMANY

[www.etmm.info/2008/10/047](http://www.etmm.info/2008/10/047)