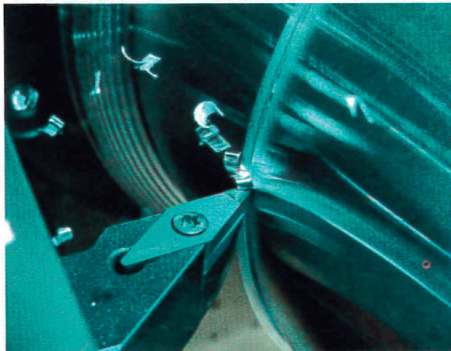


A quantum leap for the process-reliable turning of aluminium alloys

LACH DIAMANT can look back on twenty years of experience in the development of PCD chip breakers. The first CO-type patent was issued on January 26, 1999. It was a laser cut chip groove for PCD materials. Practice has shown, however, that chip breakers with a manufactured chip groove have proven to be only suitable to a limited extent for a process-reliable, controlled chip breaking process of long chipping aluminium alloys. An active chip breaker was the final solution. It had to show outstanding performance during rough machining as well as fine finishing.



LACH DIAMANT's PCD IC-plus already announced as the world's best chip breaker was born.

While CO-type chip breakers only redirect the chips, the new IC-plus world's best chip breaker will already guide chips with a cutting depth (ap) of 0.01 mm. The cutting depth can be increased up to the maximum length of the cutting edge.

Monoblock PCD milling cutter for high performance cutting

In November 2004, when LACH DIAMANT was awarded the Hessian Innovation Prize for a newly developed technology for the cost and time efficient machining of aluminium components with a monoblock diamond cutter dia-compact, it was said "Nothing is more efficient than this."

However, there was still something more efficient, as proven by the development of Cool Injection-Plus, cooling directly via the PCD cutting insert.

Today, maximum tool life, extremely high cutting results and feed rates are taken for granted by leading automotive manu-

facturers and suppliers due to the use of LACH DIAMANT's monoblock milling cutters.

In addition, perfect surface quality and part accuracy have been achieved. This is followed by reductions of cycle time by 50 percent and more.

The PCD monoblock milling cutter by LACH DIAMANT is completely mounted and balanced, delivered with an adapter of your choice and it can be immediately used on a machine, without adjustments.

Since 1973, LACH DIAMANT has been a pioneer in the PCD cutting tool sector. Today it offers a wide product portfolio for a multitude of industries.

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