

NEWS

TOOLS

Lach Diamant: Pcd and Cbn cutting inserts for controlled chipbreaking

Lach Diamant (www.lach-diamant.de), the pioneer among the manufacturers of diamond tools is showing the new complete program of patented "**Pcd inserts**" with chipbreaker at the **Amb** in Stuttgart (9-13 September 2008). For the first time worldwide "**Cbn cutting inserts**" with chipbreaker have been presented.

Lach Diamant is basing this development on ten years experience in the manufacturing of Pcd cutting inserts with chip guide steps or chip breakers, which led on January 26, 1999 to the first patent

applications (e.g. European patent Ep 1 023 961 B1 and Ep 1 023 962 B1).

In comparison to conventional aluminum alloys, these significantly tougher alloys tend to produce unwanted ribbon chips and thread chips.

By unforeseen and unwanted machine shutdowns tools can be damaged which have to be replaced and in some cases large clews of cutting chips have to be removed from the working space of these machines. This development is not limited to Pcd cutting materials one and is evidenced by the introduction of the Cbn cutting insert program by Lach Diamant under the name of Cbn-Duo power with chipbreaker.

Cbn chipbreaker inserts from the **dreborid®** program are recommended by Lach Diamant, on one hand for the cutting of grey cast iron with positive cut and on the other hand for the finishing of hardened steels in order to prevent disrupting ribbon and thread chips. ■

