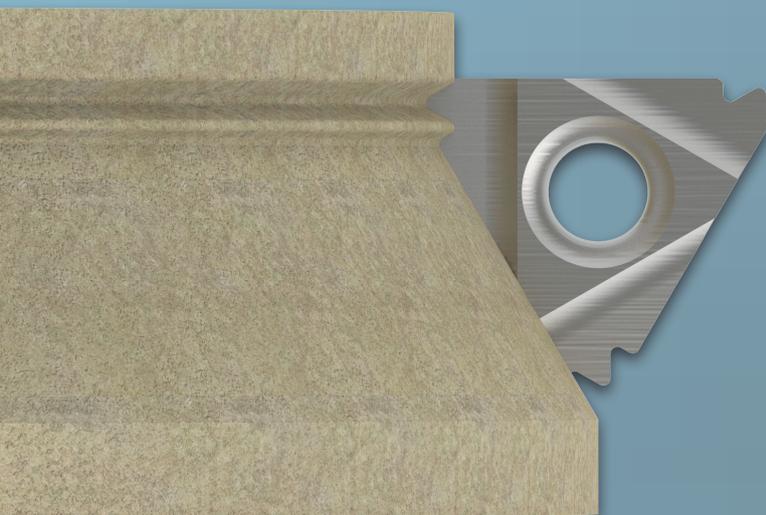


# ***LACH DIAMANT*** ***Profile Grinding*** ***»contour-profiled«***

**fast**  
**precise**  
**cost-effective**

***World Premiere***  
***EMO 2017***

**The new dimension for the profile  
grinding of solid carbide, hardened  
steels and ceramics in serial production**



# LACH Diamond »contour

*The cost killer for the deep feed grinding of hardened steels and ceramics in series*

## Why »contour-profiled«?

### Profile Options

almost any profile is possible with minimal tolerances up to **0,005 mm** - internal and external radii

### Costs for Abrasives

can be reduced up to **factor 8** - only one »**contour-profiled**« grinding wheel replaces the up to now necessary wheel set.

### Profile Duration - Tool Life

approximately **25 times** higher profile duration - for example solid carbide thread cutting inserts - compared to a resin-bond wheel set.

### Time Savings

on average **35% - up to 60%** higher feeds per workpiece possible

### Profile Width and Depth

the entire diamond or CBN coating - width and height - can be used for the contour - even wheels with large full radius.

### Service – Reprofileing

»contour-profiled« grinding wheels can be reprofiled **multiple** (!) times, without problems with contour repeatability. No profile distortion during new manufacturing or reprofileing.

The profiling of metal-bond grinding wheels »**contour-profiled**« is based on the discovery “gentle touch grinding” (Original LACH EDG process - Electrical Discharge Grinding) of Horst Lach 35 years ago for shaping polycrystalline diamonds. This process has now been modified for metal-bond grinding wheels (Pat. EP 0076997).

*Would you like to cut costs and produce faster and with higher precision?*

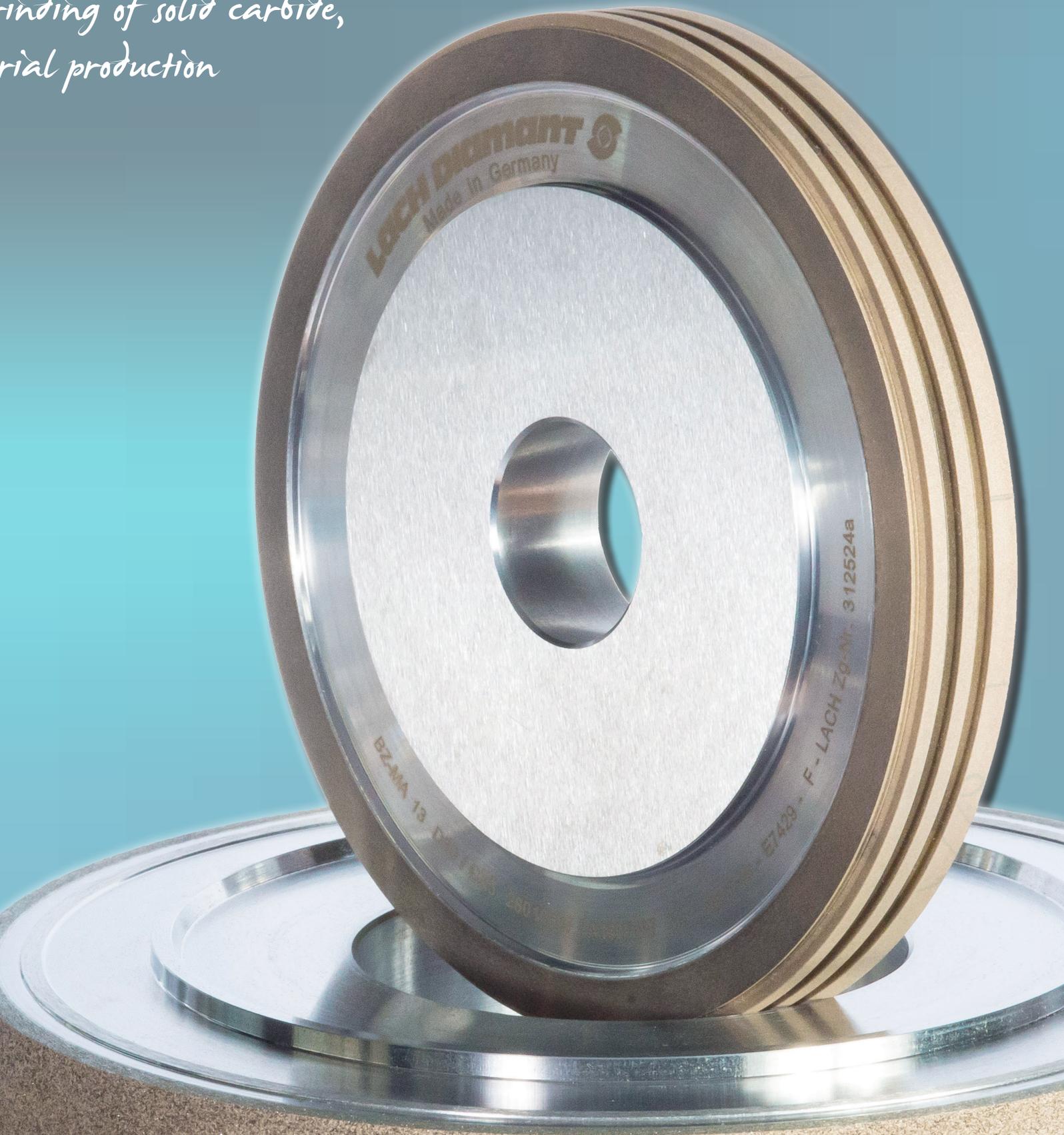
**Please specify your application.**

**We will be pleased to advise you.**



# **d and CBN Grinding Wheels OUR-profiled»**

*Grinding of solid carbide,  
material production*



# LACH DIAMANT®

## Your Innovative Partner

Reliable, Customer-oriented, and Ready to Provide Customized Solutions

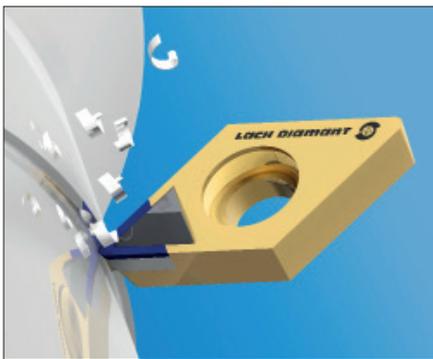


Head Office and Plant in Hanau near Frankfurt, Germany



Plant in Lichtenau near Chemnitz, Germany

Built in 1997 – expanded in 2007 and 2012 - Plant for polycrystalline diamond and CBN tools (PCD and PCBn)



### LACH DIAMANT Innovations

Example: »IC-plus world´s best«  
PCD chipbreaker - world innovation  
(pat.) at EMO 2017 - process-reliable  
from 0,01 mm cutting depth (ap), feed  
up to maximum cutting edge length.  
Indispensable for cutting non-ferrous  
metals in serial production.



### LACH DIAMANT Service

Resharpener and regrinding service  
for all PCD and CBN (PCBn) tools,  
MCD and CVD, and natural diamonds.  
Reprofiling of diamond and CBN grinding  
wheels, recoating of electro-plated  
diamond tools.



### LACH DIAMOND INC., Grand Rapids/Michigan/USA

Production and service facility of poly-  
crystalline diamond and CBN tools for  
the automobile and aviation industries  
and for the wood, plastic and composite  
industries.

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