

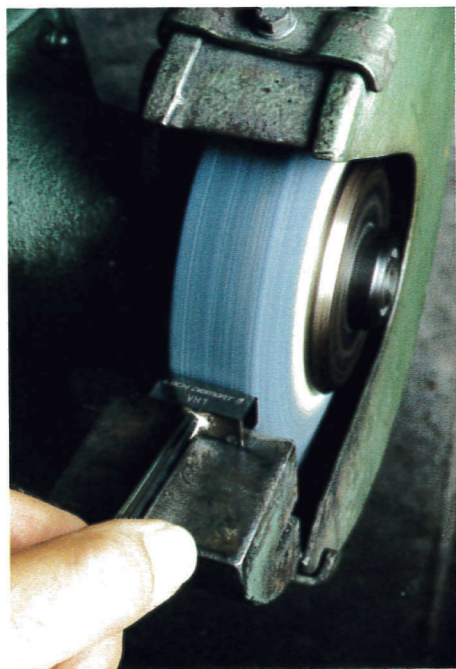
### LACH DIAMANT innovations at AMB

#### The "Multi-Point" Hand Dresser

When it comes to dressing of grinding wheels, established manufacturer LACH DIAMANT is continuing to introduce patent-worthy new developments, such as drebojet-plus diamond dressing rolls or highly efficient diamond dressing plates like the Dia-Fliese-perfect.

This time, LACH DIAMANT points to a simple little machine, found in every tool shop and fitter's shop, the "tool and cutter grinder" fitted with one or two conventional grinding wheels.

The dressing is mostly done with a little steel wheel, well known for ages, if done at all, since the disadvantage of these "little wheels/rolls" is the cloud of dust developing during dry dressing. The solution, also for geometrically clean wheels, provides a multi-point hand dresser, developed by LACH DIAMANT.



A VH1 Diamond Multi-Point Hand Dresser shown dressing a grinding wheel on a tool and cutter grinder

The grinding wheel is dressed at diamond-like speed, without the mentioned unpleasant dust formation. This proven diamond tool is available in two versions: Type VH1 for the dressing of O.D. grinding wheels and type VH2 for cup grinding wheels, a must-have for every tool shop and fitter's shop.

#### The world premiere of contour-profiled diamond and CBN profile grinding wheels

The technology of contour-profiled-profile grinding wheels also heralds the comeback of metal binders for LACH diamond and CBN grinding wheels.

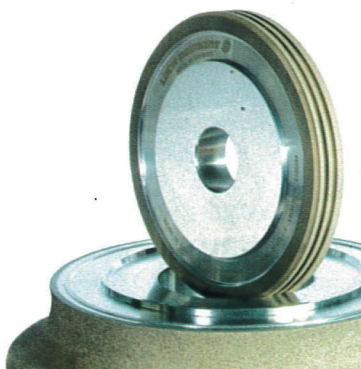
The resin bond grinding wheel needs several processing steps during the deep grinding of components made of carbide, high-alloyed steels or ceramics, such as aluminium oxide, magnesium oxide or else non-oxide ceramics, such as silicon nitride. The new metal bond »contour-profiled« profile grinding wheel now accomplishes these works in one single step with time and cost-savings.

Almost every profile type, concave or convex, is possible, even with the smallest tolerances of up to 0.005 mm.

Costs for abrasives and wheels could be reduced by a factor of 8, as one single profiled contour-profiled grinding wheel is sufficient for all so far necessary set of wheels. Tool life is now up to 25 times longer, for example for solid carbide thread inserts.

The contour-profiled wheels achieve up to 35 to 60 percent time savings through higher feed rates per workpiece.

Compared to other machining methods, the LACH DIAMANT technology guarantees an almost 100 percent repeat accuracy of the original profile. Profile deviations are also excluded during service.



Three in one - contour-profiled Diamond and CBN profile grinding wheels represents the new technology for drastic cost savings during serial production

#### CBN precision grinding pins and wheels for the internal cylindrical grinding of hardened steel

When internal cylindrical grinding of hardened steel HRc 55 or HSS, precision

grinding pins from 0.5 mm and internal grinding wheels from 10 mm in electro-plated bond G-MX 500 guarantee maximum abrasion and tool life. A new AMB brochure gives detailed information on all available, in-stock models with all diamond and CBN grain sizes.

LACH DIAMANT can look back on many years of experience with CBN/Borazon™, when in 1969 the world-first presentation of this abrasive proved its superiority to diamonds, especially with regard to temperature resistance.

#### Non-slip grinding / deburring with electro-plated diamond and CBN tools

Parallel to the increasing popularity of "lightweight" materials such as fibre composites, there is also an ever-increasing demand for machining tools that can improve performance and cost-efficiency.

PCD (polycrystalline cutting materials) have long since proven their superiority to carbides during the machining of aluminium, GRP, CFRP, green ceramics, graphite and other materials. On the other hand, electro-plated diamond and CBN tools have been around for almost fifty years.

Electro-plated diamond or CBN files and grinding pins are essential for tool and mould construction.

Companies that are machining graphite as well as manufacturers of carbides and ceramics appreciate electro-plated tools, especially because of the possibility to quickly and efficiently coat a large variety of different tool shapes, mounted on steel bodies, with either coarse or fine diamond grit.

LACH DIAMANT offers all users extensive know-how with regard to the optimal diamond grain size, depending on individual tasks and existing machine conditions.

The company offers a special service for all electro-plated diamond and CBN tools: re-coating of submitted steel bodies or worn-out electro-plated tools, also for tools of other manufacturers.

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