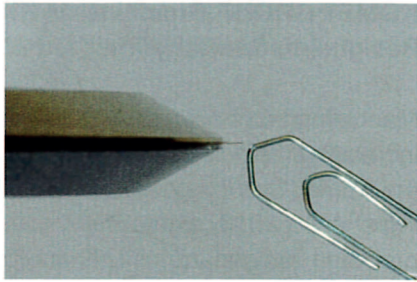
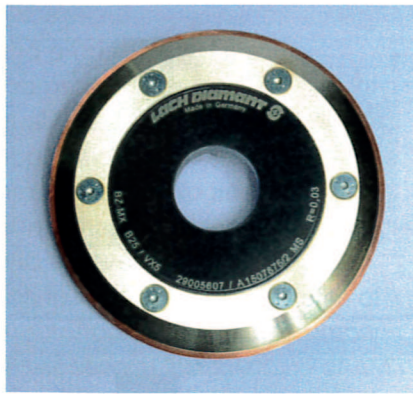


The mold & die journal



1/ UltraThin cutting wheel with a cutting width of 30 μm shown in comparison with the size of a paper clip



2/ A fully assembled UltraThin cutting wheel (Pictures: LACH DIAMANT Jakob Lach GmbH & Co. KG, Hanau, Germany)

LACH DIAMANT Jakob Lach GmbH & Co. KG, Hanau, Germany

Lach Diamant developed new technologies to allow for the production of diamond and CBN cutting wheels with a cutting width of up to 0.02 mm (20 μm), which can be increased in μm increments.

UltraThin by Lach Diamant is a multi-part precision cutting wheel – available in resin, metal and electro-plated bonds – with a diameter of up to 500 mm; cutting width varies according to the respective diameter.

Cutting depths of up to 15 mm – even in extremely rigid surfaces – are possible with Lach Diamant's UltraThin cutting wheels.

The innovative core system of UltraThin provides not only the lowest cutting widths, but also allows a multiple re-coating of the diamond and CBN grinding layers, so that the cores can be reused multiple times.

UltraThin precision cutting wheels meet highest requirements, even micromechanical specifications. Examples: Chip breaker grooves in the micro tool industry. Examples from medical technology are grinding of wire rolls, or machining of green ceramic and semi-conductors. There are many other possible applications for this amazing innovation.

More information will be available at AMB Stuttgart, Germany, from Sept. 13th to 17th 2016.