Awarded!

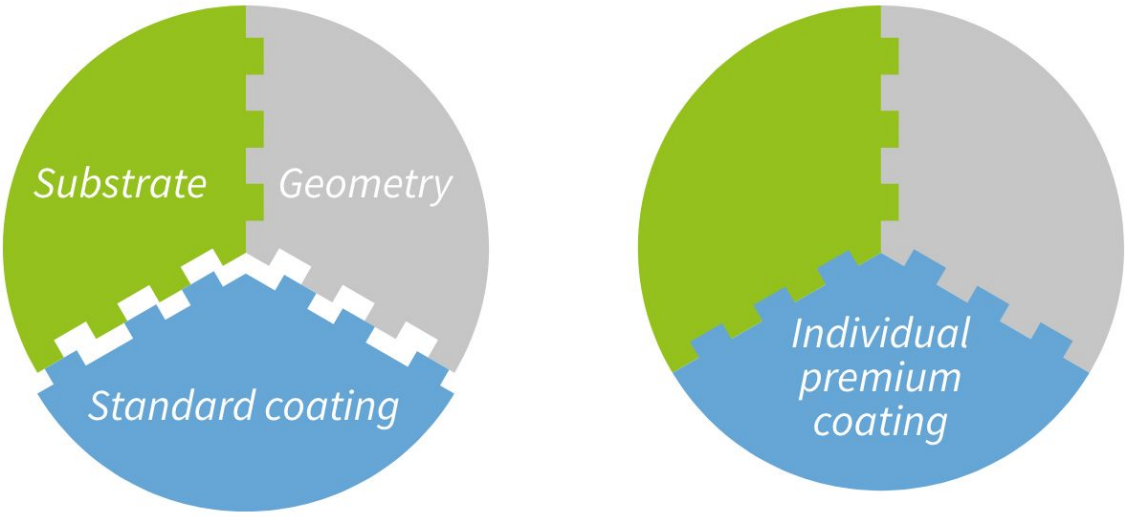
At the award ceremony for the Innovation Prize of the State of Baden-Württemberg (Photo: Ministry of Economic Affairs, Labor and Tourism Baden-Württemberg)

CemeCon congratulates Zecha

Our customer ZECHA wins the 2021 Baden-Württemberg State Innovation Award with a new type of diamond-coated micro-precision tool.

The State Innovation Award – the Dr. Rudolf Eberle Award – was one of the first prizes to be awarded for innovation in Germany. It has been honoring unconventional ideas for innovative products, processes or services since 1985. It is awarded to medium-sized companies from industry, the skilled trades and technological services.

We congratulate and say: rightly deserved!



The formula for success: substrate + geometry + individual premium coating = perfect precision tool

With the IGUANA tool family, ZECHA is revolutionizing the market for diamond tools in the micro range. The high-end tools are multi-flute-cutters in the small diameter range with extremely sharp cutting edges and highly wear-resistant diamond coating.

Our customer is now adding another component to the successful formula of “substrate + geometry + coating = perfect precision tool”: the subsequent processing of the coating by laser!

„One INNOVATION promotes the next! For us at CemeCon, every SUCCESS STORY like that of our customer ZECHA is both a confirmation and an incentive. And it is a pleasure for us to see the contribution we make to this with our patented DIAMOND COATINGS.“

Dr. Toni Leyendecker, CEO of CemeCon AG

The prerequisite for this is the special diamond coating developed jointly by CemeCon and ZECHA. Thanks to its special features, the coating can not only be processed by means of a laser beam, but is also the perfect wear protection for the tool in demanding applications.

With the IGUANA tool family, ZECHA is revolutionizing the market for diamond tools in the micro range. (Photo: ZECHA)

The high thermal conductivity of the diamond coating ensures rapid heat dissipation. This is enormously important when machining temperature-sensitive materials such as CFRP and GFRP and enables a higher machining speed during cutting. The diamond coating has been perfectly tailored to the geometry and material properties of ZECHA tools and to the machining of abrasive materials. ZECHA uses carbides specially suited for this purpose as well as specially developed tool geometries, some of which are patented.

When machining highly abrasive materials, non-ferrous metals or copper in a wide variety of industries, many a tool reaches its limits. The innovative ZECHA laser machining (R = 1 µm) of the diamond coating has resulted in tools that shine above all due to their extreme sharpness, multi-flute design, miniaturization, extreme wear resistance, very long tool life and thus very high process reliability.

“One innovation promotes the next! For us at CemeCon, every success story like that of our customer ZECHA is both a confirmation and an incentive. And it is a pleasure for us to see the contribution we make to this with our patented diamond coatings,” says a delighted Dr. Toni Leyendecker, CEO of CemeCon AG.

ZECHA

ZECHAHartmetall-Werkzeugfabrikation GmbH has been one of the pioneers and trendsetters in the

field of micro cutting, punching and forming tools for almost 60 years. Originating from the watch industry, the uncompromising focus on miniature tools with the highest precision is evident.

www.zecha.de

Micro tools

multilayer diamond coatings

Diamond coatings