# PRESS RELEASE

**Hufschmied Zerspanungssysteme at the IDS 2025**

**Optimized for dental technology materials**

Bobingen (Germany), February 27, 2025 – Hufschmied Zerspanungssysteme GmbH will be presenting its special tools for dental applications at the IDS from March 25 to 29, 2025. The main products on display at booth L031 in hall 3.1 at the International Dental Show will be a solution for aligner production and the Zirkonator, a patented high-performance tool for the production of zirconium dioxide dental prostheses.

**March 25 to 29, 2025**

**Hall 3.1, Booth L031**

As impressively confirmed by a benchmark from the Augsburg University of Applied Sciences, the machining of zirconium dioxide has been significantly improved by Hufschmied's tool development. The Zirkonator is a roughing and finishing tool that makes it possible to finish directly to the final dimension. Thanks to the patented nano-crystalline diamond coating (DIP), it offers consistently outstanding quality and up to 30 percent longer tool life than conventional tools. The exceptionally smooth running of the tool allows the reliable processing of preparation margins up to 0.1 mm.

Other material challenges

Whether zirconium, plastic, nanocomposites, cobalt-chrome, titanium, wax or PEEK – Hufschmied offers a wide range of milling tools for the materials used in dental technology, which are often very difficult to work with. The tools are also compatible with a wide range of machines commonly used in the industry. The second tool in focus is the SHARP-LINE 112SH. With this tool, Hufschmied presents the optimal solution for the production of aligners made of PMMA or PET. An innovative, extremely sharp cutting geometry allows the delicate transparent materials to be processed burr-free and with almost glass-clear cut edges. Since SHARP-LINE 112SH keeps its cutting edge for a very long time, the tool enables efficient and economical aligner production.

**Available image material**

The following printable images are available for download on the Internet:   
<https://kk.htcm.de/press-releases/hufschmied/>

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| Image source: Hufschmied Zerspanungssysteme  **SHARP-LINE 112SH is a customized solution for the production of dental aligners** | Image source: Hufschmied Zerspanungssysteme  **The Zirkonator impresses with its superior performance and service life during zirconium processing.** |

**Available video material**

You can find the following video material on our YouTube channel:   
<https://www.youtube.com/watch?v=zMXvmP4QCp4>

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| Source: Hufschmied Zerspanungssysteme  **Video on dental aligner production** |

About Hufschmied Zerspanungssysteme GmbH

Established in 1991 and headquartered in Bobingen near Augsburg, Hufschmied Zerspanungssysteme GmbH is a manufacturer of high-quality tools for machinable production and friction stir welding. By specializing at an early stage in the machining of plastics, fiberglass materials and carbon fiber, Hufschmied has become a leader in Europe in the development of solutions for new materials. The company is an established system supplier to renowned machine tool manufacturers. Tools and manufacturing process consulting from Hufschmied are particularly valued in the automotive and aerospace industries as well as in medical technology.

The company is involved in numerous organizations, including Composites United Deutschland e. V. Hufschmied's manufacturing operations are located in Bobingen, Winterlingen and Sigmaringen on the Swabian Alb. Hufschmied is certified according to ISO 9001:2015 (quality management) and ISO 14001:2015 (environmental management).

*Hufschmied Zerspanungssysteme GmbH – One Cut Ahead*

For more information: www.hufschmied.net

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| **Additional information:**  Hufschmied Zerspanungssysteme GmbH Marco Beigl Edisonstrasse 11d 86399 Bobingen Germany  Phone: +49 8234 9664-0 Telefax: +49 8234 9664-99 E-Mail: info@hufschmied.net  www.hufschmied.net | Press contact:  HighTech communications GmbH Brigitte Basilio Brunhamstrasse 21 81249 Munich Germany  Phone: +49 89 500778-20 E-Mail: b.basilio@htcm.de  www.htcm.de |