



— RAMONA HÖNL

3D-Printed Dentures

The International Dental Show (IDS) in Cologne is the world's leading trade show for the dental industry. Held from March 12 through 15, over 2,300 exhibitors will be in attendance to showcase their latest products and innovations. TRUMPF will also be taking part; after all, dentures are increasingly being manufactured using 3D printers – and TRUMPF is one of the world's top five suppliers of 3D printing solutions.

The ability to print dentures is no longer merely a futuristic vision, it is reality. Nowadays, ever-more dental laboratories are using 3D printing to manufacture bridges, crowns, implants, or even entire sets of teeth. This approach brings with it many benefits. "3D printing is faster and more affordable, particularly when producing high volumes," comments Reinhard Sroka, who is TRUMPF's industry manager for the dental sector. This is because most dental products are custom-made items. For decades, dental technicians have been manufacturing tailor-made models for their patients using milling machines or die casting. "They need around 20 minutes for each part," explains Sroka, who is himself a master dental technician.

— TRUMPF 3D printer is the world's fastest dental printer

3D printing – notably the TruPrint 1000 machine from TRUMPF – offers a much faster solution. Whereas dental technicians have to manufacture each tooth individually, the 3D printer builds up an entire platform by itself. The TruPrint 1000 with multilaser functionality is the world's only small format machine to work with two lasers simultaneously. In the space of just two to three hours, up to 80 teeth can be manufactured per cycle – which equates to around three minutes per tooth. "This makes our 3D printer the fastest dental printer on the market," highlights Sroka.



