

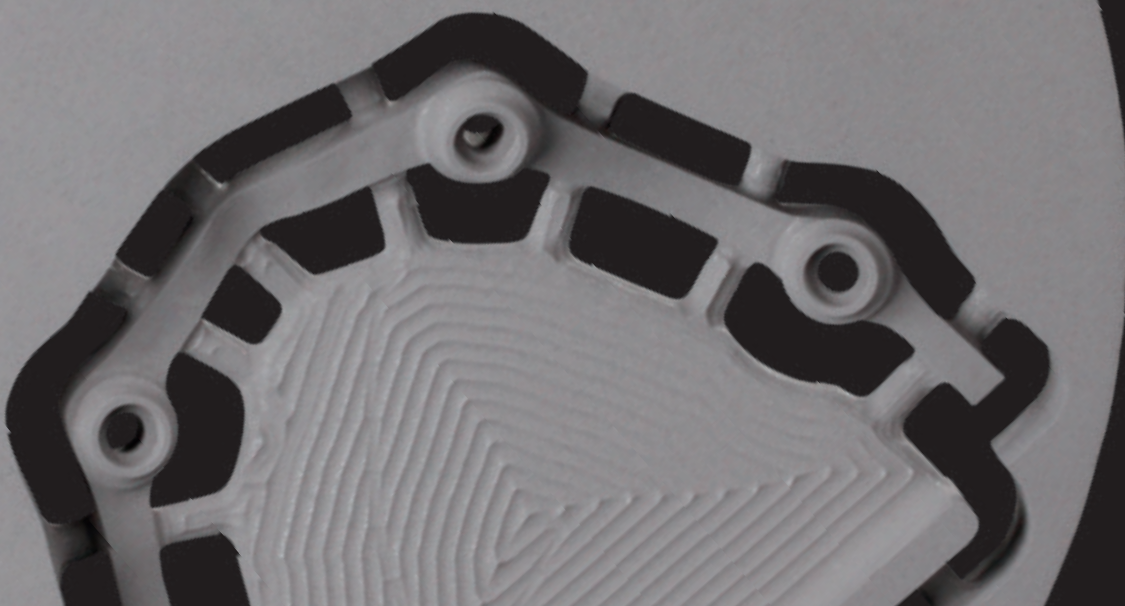
# Zirkonzahn<sup>®</sup>

*Human Zirconium Technology*



## SINTERMETALL

*Mill it with the Zirkonzahn CAD/CAM System*



## SINTERMETALL

*Zirkonzahn's already vast assortment of milling materials is being extended with the self-developed and state of the art Sintermetall. With the CAD/CAM system, besides zirconia and resin temporaries, you are now also able to produce non-precious metal restorations. Not only does this provide your lab with an added value but also you only need one furnace for all the materials.*

- *Chrome-cobalt alloy for metal frameworks for veneering with ceramics*
- *The possibility of manufacturing non-precious restorations in your own laboratory with the Zirkonzahn CAD/CAM system*
- *Your CAD/CAM system doesn't have to be upgraded*
- *High flexural strength through seamless material bond and smooth surfaces (final density > 98 %)*
- *High edge stability*
- *No smearing when processing*
- *Oxygen-free sintering in the Zirkonofen 700 Ultra-Vakuum sintering furnace with high vacuum and special sintering adapter (no additional furnace is required)*
- *Due to perfect temperature distribution up to 14-unit restorations are possible*



*Bar made from Zirkonzahn Sintermetall – CAD/CAM milled with the M1 Soft Milling Unit*

# MATERIAL MANUFACTURE AND SINTERING PROCESS

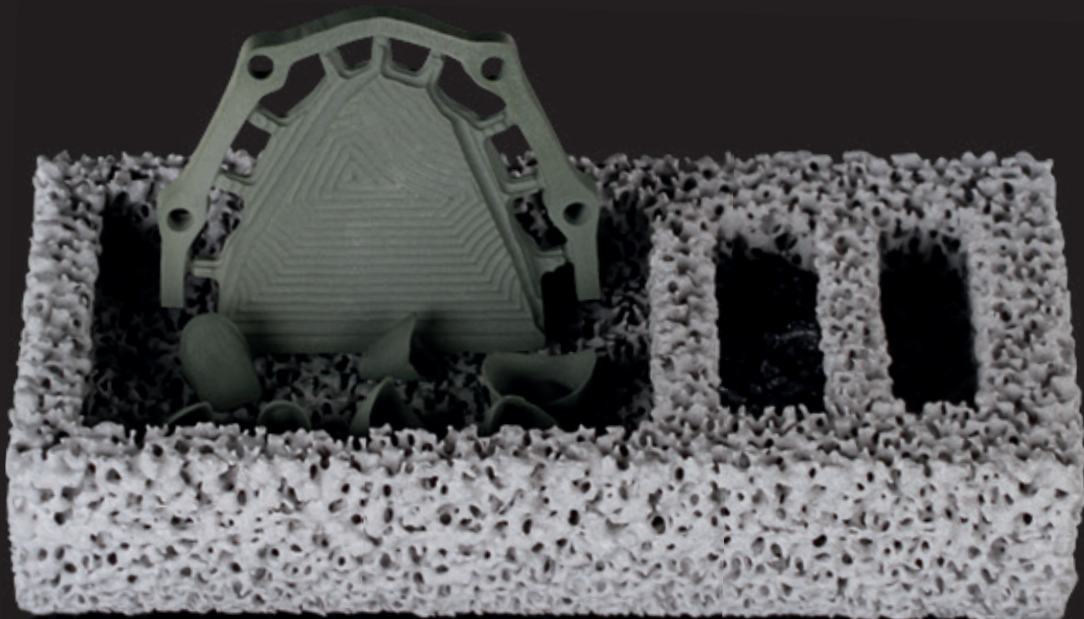
*The innovative material manufacturing technology guarantees excellent processing of the material without any smearing.*

*Our sintering process leads to a seamless material bond and smooth surfaces, resulting in a comparatively high fracture strength.*

*The chrome-cobalt alloy can be sintered using the especially developed sintering adapter Sinter Metal Furnace Adapter in the Zirkonofen 700 Ultra-Vakuum sintering furnace with high vacuum (without the use of protective gas).*

*Advantages of our process:*

- *Very economical, because no additional sintering furnace is required*
- *Operational after a few simple steps*
- *Low maintenance, very robust*
- *Low use of the heating elements of the Zirkonofen 700 Ultra-Vakuum*
- *No contamination of the combustion chamber, because it is hermetically sealed*



*The restoration is placed in the specially designed sintering tray with chamber system for sintering*

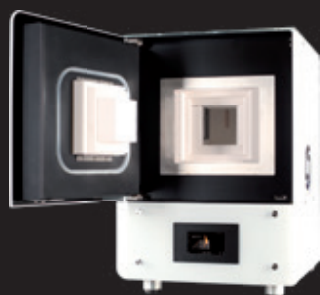
## ZIRKONOFEN 700 ULTRA-VAKUUM



- Easily adaptable for sintering of sintermetall with a special sintering adapter
- Equipped with high vacuum for oxygen-free sintering
- Prettau® Zirconia is becoming even more translucent
- Equipped for novel material technologies
- Monitored cooling system
- Bigger combustion chamber
- Modern, high-quality full glazing
- 4,3" colour touchscreen control panel
- 14 pre-installed programs
- Updateable via USB interface
- Storage capacity space for up to 2,000 programmes
- Special sintering programs upon request

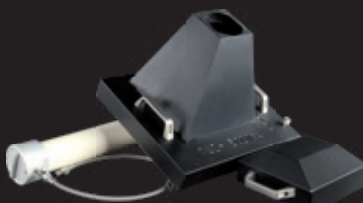
## HUMAN ZIRCONIUM TECHNOLOGY

ZIRKONZAHN Worldwide – Tel +39 0474 066 680 – info@zirkonzahn.com – www.zirkonzahn.com

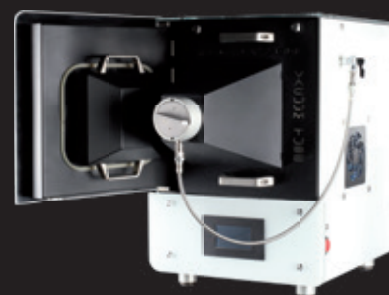


Zirkonofen 700 Ultra-Vakuum

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Zirkonofen 700 Ultra-Vakuum  
with Sinter Metal Furnace Adapter



WEAA1322®