

**Zirkonzahn<sup>®</sup>**

*Human Zirconium Technology*

## **ZIRKONOFEN TURBO**

*Speed beyond any expectations*

## ZIRKONOFEN TURBO

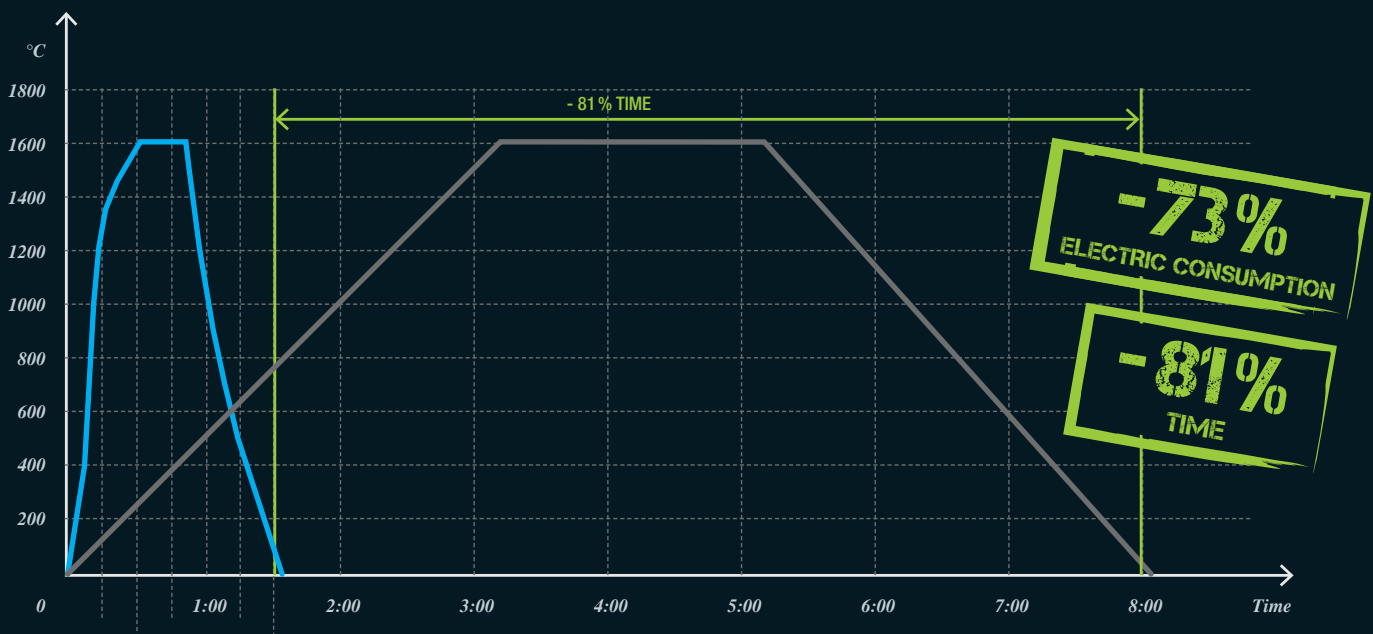
### A NEW ERA BEGINS

With the new Zirkonofen Turbo and its pre-set fast sintering programs perfectly adapted to each kind of Zirkonzahn zirconia, it is now possible to sinter smaller zirconia structures in about 1 hour and 30 minutes. This cuts processing time by 81 % and reduces electric consumption by 73 %. As a result, small zirconia structures can be created and finished in 2 hours and 10 minutes only.

With the Zirkonofen Turbo, the user can download and install the updates directly in the furnace via the Internet connection, perform independent temperature calibrations and create individual sintering programs in addition to the already existing ones. The furnace includes a large number of pre-set programs that are perfectly matched to each kind of Zirkonzahn zirconia, which means that the heating, holding and cooling phases vary slightly depending on the material.

<b>1</b>	SLOW PROGRAM – 12 h	HEAVY	≥ 5 g PER UNIT	...
<b>2</b>	STANDARD PROGRAM – 8 h	MEDIUM	3–5 g PER UNIT	 SHORTEST PROGRAM – 45 min
<b>3</b>	SPEED PROGRAM – 3.5 h	LIGHT	2–3 g PER UNIT	 LARGE NUMBER OF PRE-SET PROGRAMS
<b>4</b>	ULTRASPEED PROGRAM – 1.5 h	SUPER LIGHT	≤ 2 g PER UNIT	 PERSONALIZED SINTERING PROGRAMS

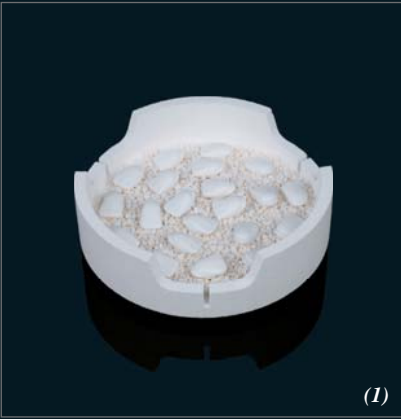
The Speed and Ultraspeed programs should not be used for sintering dental units with a wall thickness exceeding 4 mm. Therefore, when selecting the sintering speed, attention must be paid to the elements' wall thickness and weight.



RAYONOFFEN

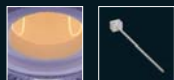
-  Turbo sintering of zirconia in 1h30
-  120 Round sintering chamber with room for up to 120 zirconia elements
-  4 MoSi<sub>2</sub> high-performance heating elements
-  Large sintering chamber with a capacity of 0.9 l
-  Over 1000 minutes of sintering time per program
-  Baking Recovery Function
-  7" color touch screen
-  New, user-friendly software
-  Update via LAN or WiFi
-  Heating rate of up to 120 °C/min possible
-  Cooling rate of up to 60 °C/min possible
-  Optimized cooling through fully automatic sintering platform
-  Maximum sintering temperature of 1700 °C
-  Control accuracy of +/- 2 °C at a final temperature of 1600 °C
-  Independent temperature calibration
-  Large number of pre-set programs
-  Personalized sintering programs
-  Compact, modern design with high-quality full glazing

The round shape of the sintering chamber, with a volume of 0.9 l, ensures optimum heat distribution and a uniform sintering of all zirconia structures. By using three sintering trays stacked on top of each other (1) (2) or the ceramic plate (3), it is now possible to sinter up to 120 zirconia elements or three full-arch bridges with sintering stabilizer in just one sintering process. For a deformation-free framework, the base of the trays should be covered with special sintering granules. In order to prevent discoloration or contamination of the zirconia bridges, it is recommended to cover them with a ceramic protection cover, which guarantees – in combination with the ceramic plate – optimal heat distribution thanks to its curved shape.





WATCH THE VIDEO



Heating elements and temperature sensor



Round sintering chamber



Status display via LED lighting

Green = idle mode

Purple = heating and holding phase

Light blue = cooling phase

Red = error

High-resolution

7" color touch screen



**1h30**  
ONLY

**-73%**  
ELECTRIC CONSUMPTION



High quality full glazing with hardened Securit glass  
UNI ISO 12150

Sintering tray for up to 120 zirconia elements

Automated sintering platform

## HUMAN ZIRCONIUM TECHNOLOGY

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Size (W x H x D)	39 x 69 x 49 cm
Weight	65 kg
Electrical power	3000 W
Mains voltage	200–240 V~ / 50–60 Hz
Sintering Chamber Capacity	0.9 l
Sintering chamber (Ø x H)	Ø 10.5 x 10.5 cm
Max. temperature	1700 °C
Materials	Zirkonzahn zirconia, zirconia from other manufacturers
Vacuum	No
Capacity	Up to 120 zirconia elements (with sintering trays) or up to three full-arch bridges (with ceramic plate)



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