

Zirkonzahn[®]

Human Zirconium Technology

ZIRKONOFEN TURBO

Speed beyond any expectations

ZIRKONOFEN TURBO

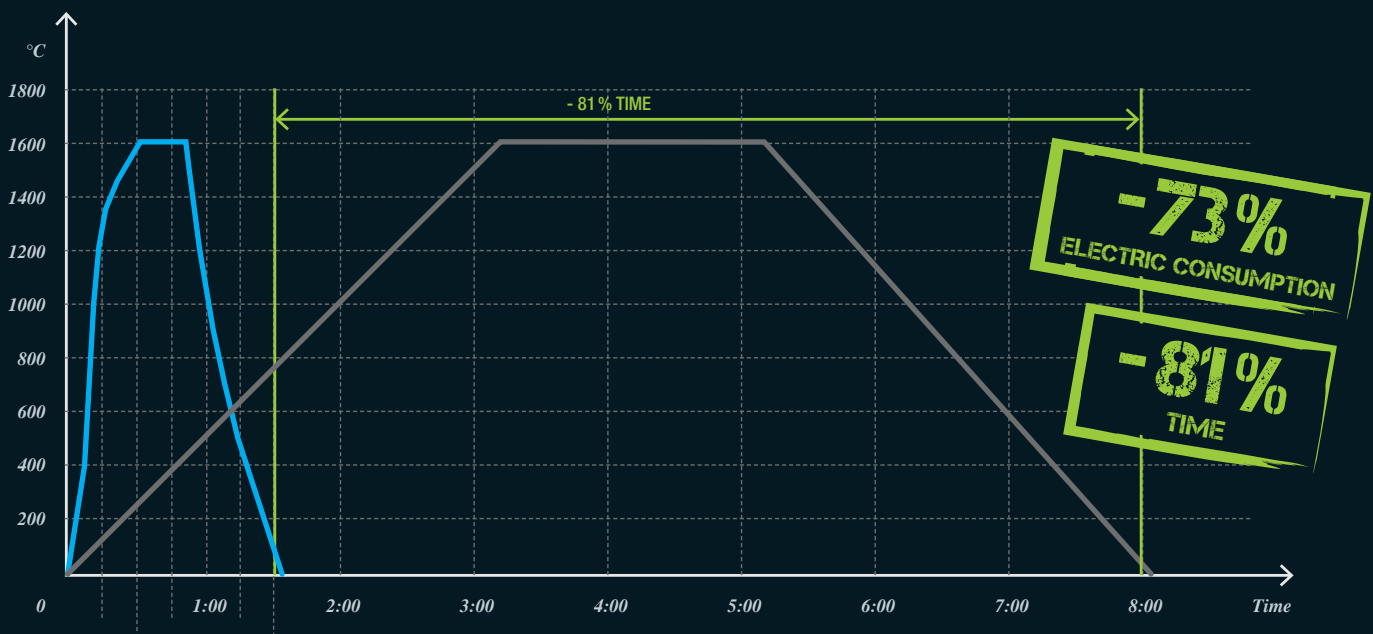
A NEW ERA BEGINS

With the new Zirkonofen Turbo sintering furnace and its pre-set fast sintering programmes 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 an existing Internet connection, perform independent temperature calibrations and create individual sintering programmes in addition to the already existing ones. The furnace includes a large number of pre-set programmes 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.

1	SLOW PROGRAMME – 12 h	HEAVY	≥ 5 g PER UNIT	...
2	STANDARD PROGRAMME – 8 h	MEDIUM	3–5 g PER UNIT	 SHORTEST PROGRAMME – 45 min
3	SPEED PROGRAMME – 3.5 h	LIGHT	2–3 g PER UNIT	 LARGE NUMBER OF PRE-SET PROGRAMMES
4	ULTRASPEED PROGRAMME – 1.5 h	SUPER LIGHT	≤ 2 g PER UNIT	 PERSONALISED SINTERING PROGRAMMES

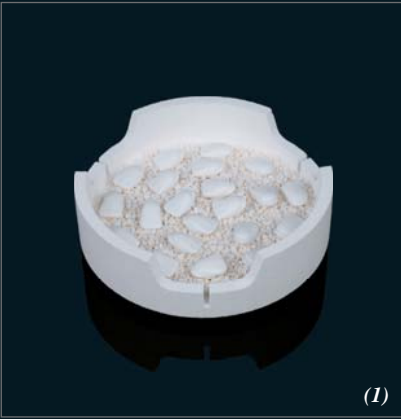
The Speed and Ultraspeed programmes should not be used for sintering dental units with a wall thickness exceeding 4 mm. Therefore, when selecting the sintering speed, attention must be paid to the elements' wall thickness and weight.



RAYONOFFEN

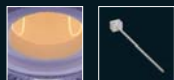
-  Turbo sintering of zirconia in 1h30
-  120 Round sintering chamber with room for up to 120 zirconia elements
-  4 MoSi₂ high-performance heating elements
-  Large sintering chamber with a capacity of 0.9 l
-  Over 1000 minutes of sintering time per programme
-  Baking Recovery Function
-  7" colour 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
-  Optimised 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 programmes
-  Personalised sintering programmes
-  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. Using three sintering trays stacked on top of each other (1) (2) or the ceramic plate (3), makes it possible to sinter up to 120 zirconia elements or three full-arch bridges with sintering stabiliser 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 discolouration 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.





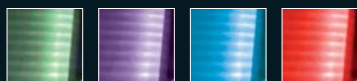
WATCH THE VIDEO



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" colour 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

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

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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