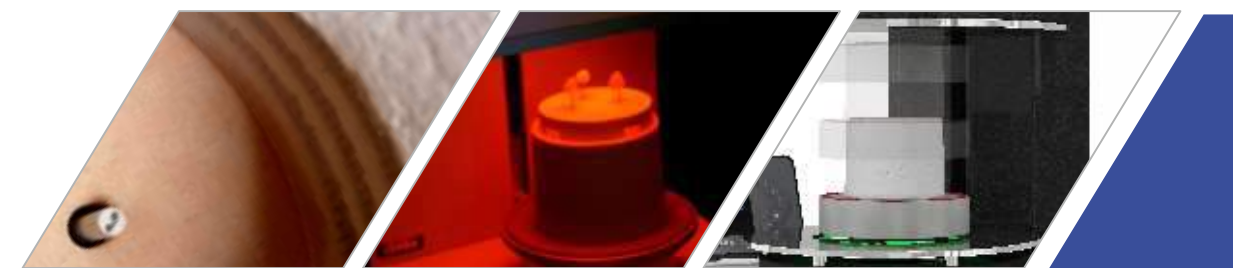


HELIOS PRO



Universal
porcelain furnace



HELIOS PRO has been designed the way we implemented brand new technological solutions that make your work nice and guarantee the best results ever. As soon as the machines have been made they are continuously moderated and updated. Our furnaces are always a few steps ahead so we commit each technological request of dental ceramic.

HELIOS PRO is a furnace designed for all types of dental ceramic. Its latest version includes even greater possibilities of programming. It also guarantees more perfect results for a ceramic treatment.

NO MORE CERAMIC CRACKS

Ceramic cracking is mostly caused by an incongruity of a metal & ceramic "VAK" factor due to occurring cooling & drying errors. Quick and slow drying functions of a HELIOS PRO furnace provide an integration of expansion parameters any type of ceramics and metal alloys. The risk of ceramic cracks, is minimized as much as possible.

NO STRESS

Friendly programming procedure enables changing parameters or setting up new programmes for new ceramic. A very clear display and software guarantee easy know-how furnace and its operating. Each programme can be named individually what improves work organization due to different systems of ceramic.

NAVIGATION BY YOUR SMARTPHONE

Standard HELIOS is equipped with a mobile, ergonomic control panel with a LED screen. You can choose 200 different optional programmes. Also because of WiFi and Bluetooth you can navigate a furnace by a smartphone or a tablet. Simply download software for Android and make your work easy.

NO STRESS WORK

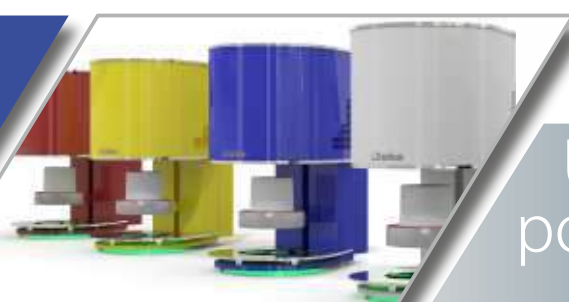
There is no need to worry that in case of any problems you will not have a machine to work on. HELIOS is covered with a 36 month warranty and ASSISTANCE insurance. ROKO is not a dealer but a manufacturer that is why we can deal with your issues much quicker or provide a replacement device.

PLATINUM TEMPERATURE SENSOR

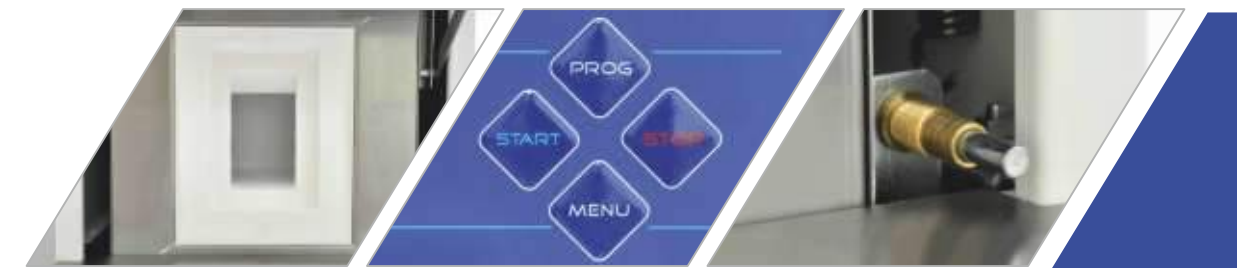
A platinum thermocouple finished by laser, guarantees the highest quality measurement either at low or high temperatures.

PRECISE CONTROL

The latest generation system of temperature control guarantees a precise process and a real burning accuracy at the range of $\pm 1^{\circ}\text{C}$. Quick and efficient process guarantees a precision and the same results of each work.



TYTAN ZR



TYTAN ZR is a modern machine for sintering zirconium oxide. Thanks to the latest 2nd generation technology, they provide ideal stabilization of a sintering temperature and guarantee a high quality and transparency of zirconium oxide structures.

UNIFORM SINTERIZATION

4 efficient heating elements uniformly stabilize temperature in each area of the chamber. As a result, the individual parts of a work piece sinter at the same temperature, which secures against stress and minimizes the risk of fracture.

EFFECTIVENESS

A size of a chamber enables sintering of a full tooth bow including supportive elements and a stabilizing tray what reduces a risk of deformations. An additional shelf causes a double efficiency of a furnace.

ERGONOMIC SOLUTIONS

A compact and esthetic construction saves a lot of space in a lab. A cover of working chamber and elements that are made of stainless steel due to a high temperature risk.

MODULED DESIGN

Replacing of used elements or potential service do not require professional staff and can be proceeded by the user what saves time and money.

DEFORMATION ELIMINATED

Thanks to the control system and the 2nd generation heaters, any deformations or distortions of zirconium structures are eliminated.

COOLING CONTROL

The cooling process at a temperature from 1500°C to 800°C has a great influence upon the strength and stability of modern zirconia shape. HELIOS ZR/TYTAN ZR are the only few sintering furnaces outfitted with a programmable cooling process and controls the working parameters from the beginning to the very end of the sintering process.



Sintering
furnaces



Fully ceramic chamber

A chamber module is evenly and hard because it is made by molding under pressure. The structure of the sides are featured by high density. Heating coils are protected against mechanical damage and the effects of aggressive gases which significantly increase their durability.

Not only a socket, door and a chamber entrance are made of full ceramics. These elements are particularly vulnerable to damage from working with pliers and a ring. Pressed ceramics protects them from injuries.

The chamber is optimally roomy. Depending on a version, there are from 6 up to 16 rings size "6" or from 2 to 8 ring "9" (forms for dentures).



6x,6" S (small)



12x,6" M (medium)



20x,6" L (large)

4D heating

The heating coil, a Kanthal type has been formed linearly on the 4 walls of the socket. That ensures an even distribution of temperature inside and provides the ideal heating of rings regardless of their size or placement in the chamber.

Quartz cover of thermocouple

The temperature sensor is placed in the quartz cover, which protects it against mechanical damage and the effects of aggressive substances of the rings. Quartz cover has no thermal inertia (like ceramic covers) that is why the measurement of the thermocouple is extremely accurate.

Up to 1000°C within 60 minutes

The heating elements of TYTAN furnace have been designed to optimize the heating process. They allow heating of the furnace up to 1000 °C within 60 minutes.



Why TYTAN?

- ALL MUFFLE ELEMENTS MADE OF CERAMICS
- CHAMBER HOUSING OF STAINLESS STEEL
- THERMOCOUPLE COVERED WITH QUARTZ
- OPERATING CONTINUED AFTER POWER FAILURE
- HIGHLY PRECISE TEMPERATURE MESUREMENTS
- EVENLY TEMPERATURE IN THE FURNACE

TYTAN

Burn-out
furnaces

TECHNICAL DATA

	TYTAN				HELIOS			FORMAX
	25	50	100	ZR	PRO	PRO PRESS	ZR	
Height (mm)	430	450	480	570	425	590	860	330
Width (mm)	320	350	400	420	245	245	420	190
Depth (mm)	330	400	470	490	410	410	480	250
Voltage (V)	230	230	230	230	230	230	230	230
Power (W)	1400	2000	3000	2400	1400	1400	2400	1300
Program Quantity	1/15/30	1/15/30	1/15/30	30	200	200	200	-
Max.temp. (°C)	1050	1050	1050	1550	1200	1200	1550	-
Weight (kg)	17,5	24	32	42	16	18	42	5,5