



# KERAMOS 1650 Dental Restorations Sintering Furnace

## Zirconium Dioxide Sintering

### Description

**Keramos 1650** with maximum continuous operation temperature of 1650 °C is a furnace for Zirconium Dioxide restorations sintering with an automated lift control.

The furnace is a stand-alone device equipped with embedded controllers and electrical circuits to perform a firing program. A Windows Tablet PC, which is delivered with the furnace, or any other computer, is used only as a human interface to the device. After programming and downloading the program to the furnace processor the computer could be disconnected and re-connected any time without interrupting the executed program.

The system programming is open and is suitable for various supplier materials.

Windows architecture **KeraWorks** Software provide friendly and easy to use programming and monitoring environment.

The furnace is heated through the Kanthal Molybdenum Di-silicide elements. The high purity of this elements in addition to the low bulk evaporation rate significantly reduce the risk of translucent Zirconia discoloration.

The furnace package includes a set of Zirconia Toughened Alumina Sintering Bowl and Lid.



- *Remote monitored through your home PC or mobile phone!*

 HELLENIC PRODUCT.

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## KeraWorks control and monitoring software.



- Programming with up to 15 Temperature, and Lift position programming steps. Graphical inspection.
- Storage and reload of unlimited number of distinct programs.
- Continuous monitoring of Temperature. Real time graphical presentation of executed program data.
- Data file creation for all executed programs. Saves all data on local memory.
- Real time actual Power (W) and totalized Energy (kWh) chart.
- Alarm and event message tab. Overheating Alarm, open Thermocouple Alarm, Heater Alarm.
- Programmable over temperature limiter monitor/configuration.
- Power Safe, Uninterrupted Power Supply backup configuration. Recovers program after short term power failure.
- Stand by function.
- Unattended operation, can be programmed to start and finish a program overnight.
- Remotely monitoring and control through network connection.

### Specifications:

- Maximum/continuous temperature 1650 °C.
- Operating Power:  
115 VAC – 50/60Hz.  
230 VAC – 50/60Hz
- Maximum Power: 2200 W.
- Useful heated chamber dimensions: 120mm diameter, 100mm height.
- B type (PtRh/Rt) embedded thermocouple. Resolution 0.1 °C
- Temperature control accuracy  $\pm 1$  °C.
- Resistors type: Kanthal Super, MoSi<sub>2</sub>, fully exposed.
- Capacity: up to 2 Sintering bowls stacked

### Options:

- Power Safe module. Battery uninterrupted power supply backup system. Recovers program after short term power failure.
- Programmable Stand-alone over temperature limiter.
- Thermocouple Calibration Package.

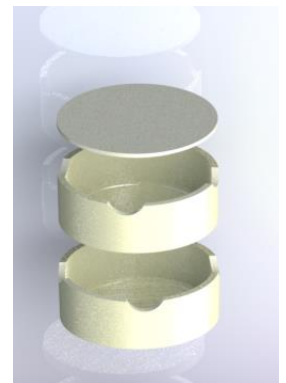
### Standard Package

- Keramos 1650 furnace body
- 8'' Tablet PC with Windows10
- Sintering Bowl Set

Part/No.....Keramos 1650\_V1.2

### Additional Sintering Bowl order

- ZTA Sintering Bowl  
Diameter 120mm  
P/N: ZTA-SB-C-120
- ZTA Bowl Lid  
Diameter 120mm  
P/N: ZTA-SL-C-120



- Compliant with **Low Voltage Directive 2006/95/EC** (harmonized referenced standard EN 61010-1: 2001 and EN 61010-2-010:2003) and **EMC Directive 2004/108/EC** (harmonized referenced standard EN 61326-1:2006).

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