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Product Brochure



SINTERING SERIES

T-Crystal Dental Furnace

TC-CDF

Compact box sintering furnace with 1.5kW power, lightweight polycrystalline mullite fiber lining. Ideal for zirconia sintering in dental labs and small-batch laboratory applications.

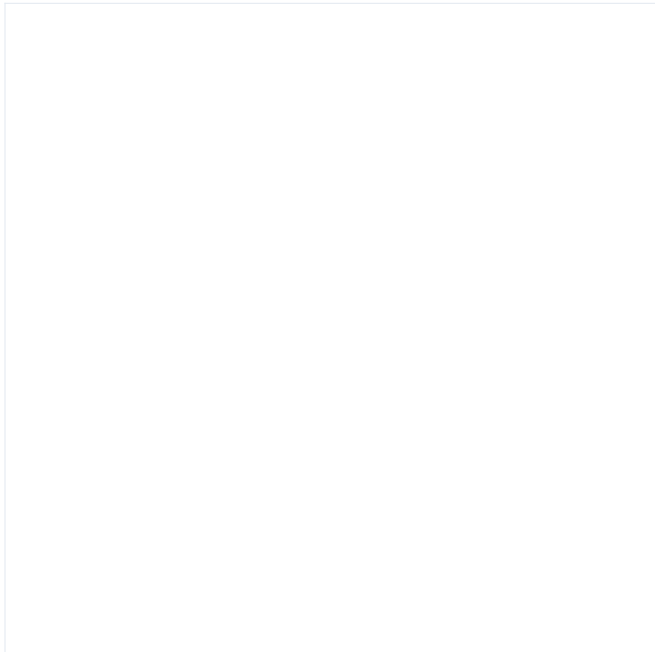
<https://www.planetaryballmills.com/products/sintering-series/t-crystal-dental-furnace.html>



Product Overview

Compact box sintering furnace with 1.5kW power, lightweight polycrystalline mullite fiber lining. Ideal for zirconia sintering in dental labs and small-batch laboratory applications.





Product Introduction

Tianchuang box-type sintering furnace uses high-purity polycrystalline mullite fiber as the furnace material. It is light weight, compact and has a power of only 1.5kW. It is suitable for use in small laboratories and even home-style working environments. It has been widely used in dental laboratories for zirconia sintering and laboratories for small batch sintering.

The box-type sintering furnace is a heat treatment equipment used in the sintering process. Its appearance and structure are similar to a box. The workpiece or sample is placed in the furnace for sintering treatment. By heating to a certain temperature, the bonding force between the material particles is enhanced to form a solid whole. This furnace is designed as a closed structure to ensure that a specific atmosphere is maintained during the sintering process and that the workpiece or sample is heated evenly.

Technical parameters

Furnace size	100*100*100mm (width*height*depth)
maximum temperature	1700°C (not more than 2 hours)
working temperature	1600°C
Temperature control method	Intelligent 50-segment programmable control
Thermocouple	Type B
Temperature control accuracy	+/-1 °C
Rated power	1.5kW
net weight	58kgs
Overall dimensions	410x380x610mm

Product Features

- It is specially designed for sintering small batch samples of zirconia denture crystals, structural ceramics, polymer ceramics and other laboratory samples.
- The power is only 1.5kW, no special high-power circuit is required, and the circuit in the home can be used.
- Fast heating speed, adjustable from 0-40°C/minute.
- The 7-inch high-definition touch screen is easy to operate and can store 30 different process programs.

Accessories & Customization

Standard accessories:

- 1 silicon molybdenum rod ;
- 1 corundum crucible ;
- 1 pack of zirconium beads ;
- 1 fireproof brick ;

Accessories & Customization

Accessories

Grinding jars, heating elements, sample holders, control modules and other matching accessories can be selected according to the product configuration.

Customization

For voltage, capacity, chamber size, process temperature or application requirements, please contact TENCAN for a suitable configuration.