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BSM-FC40

Zirconia Sintering Furnace

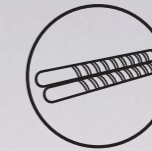
FAST
SINTERING



Fast/Standard
Sintering



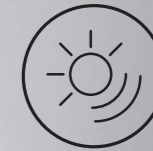
Large Sintering
Space



High-purity
Silicon Carbide



Tray Material
Upgraded



True-color
Touchscreen



BSM-FC40

BSM-FC40, with its compact design, efficient heating, and precise temperature control, offers a perfect zirconia sintering solution for dental laboratories and dental practices.



Large Sintering Space

2 sintering trays (φ100 mm), allowing sintering of up to 80 single crowns at the same time in a single sintering program, increasing work efficiency.



Fast Sintering

High-purity silicon carbide heating elements with a maximum temperature increase rate of up to 50°C/min reduce the sintering time of Aconia cases (1-3 units) to 3 hours, while maintaining excellent sintering results without cracking and discoloration.



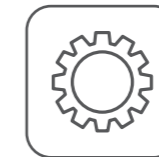
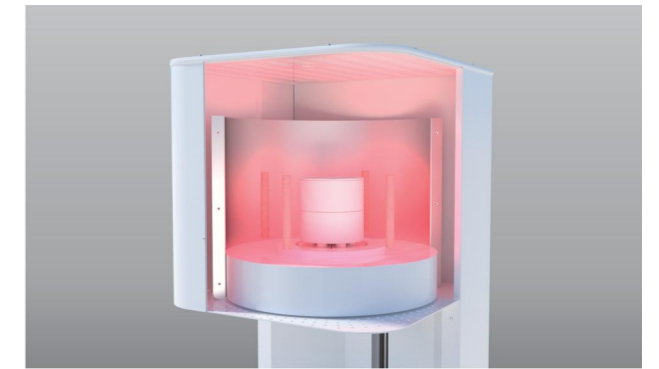
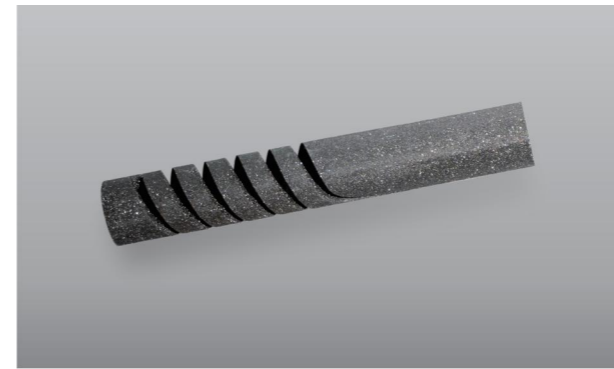
Sintering Tray Material Upgraded

The material of the sintering trays is upgraded with higher density and much more superior thermal shock resistance, reducing the problems of cracking during the rapid temperature increase and the replacement frequency, while saving your cost with a longer lifecycle.



Circular-shaped Heating Design

BSM-FC40 adopts a circular-shaped heating design with 4 heating elements arranged in a circle around the chamber to ensure a homogeneous temperature distribution for uniform sintering results.



Built-in/Customized Sintering Programs

4 built-in programs, exclusively designed for Aconia users, enable easy start of fast/standard sintering, cleaning, and calibration.
100 sintering program capacity for customized sintering of the zirconia materials on the market.



Intelligent Two-Stage Cooling Function

BSM-FC40 carries an intelligent two-stage cooling function, which can precisely identify the real-time temperature and automatic lowering of the sintering platform when the temperature drops to 800°C and then when the temperature drops to 500°C, greatly shortening the cooling time and freeing operators from manual monitoring and possible heat burns.



Unique "Sandwich" Thermal Insulation Technology

The insulation design of the BSM-FC40 adopts the unique "Sandwich" (three layers of insulation) thermal insulation technology, which ensures heat retention and improves energy efficiency.



Technical Parameters

WidthXDepthXHeight	400mmx590mmx870mm
Chamber Size	φ110mmx90mm
Number of Trays	2
Tray Diameter	φ100mm
Heating Element Type	High-purity Silicon Carbide
Power Supply	220V/50Hz
Maximum Withstand Temperature	1600°C
Control Method	7-inch True-color Touchscreen Operation
Maximum Number of Program Settings	100

Weight	80Kg
Sensor Type	High Precision Type B Thermocouple
Fastest Sintering Time	3 Hours (Including Cooling Time)
Number of Heating Elements	4
Rated Power	4KW
Working Temperature	≤1600°C
Heating Rate	≤50°C/min
Heating Types	Fast & Standard Sintering
Application Scope	Zirconia Sintering