

Technical Parameters

|                               |                           |                                   |                                    |
|-------------------------------|---------------------------|-----------------------------------|------------------------------------|
| Dimension(W*D*H)              | 400mm*590mm*870mm         | Weight                            | 80Kg                               |
| Chamber Size                  | φ110mm×90mm               | Sensor Type                       | High Precision Type B Thermocouple |
| Number of Trays               | 2                         | Sintering Tray Size               | φ105mm                             |
| Heating Element Type          | Silicon Carbide Rod       | Number of Heating Element         | 4                                  |
| Power Supply                  | 220V/50Hz                 | Rated Power                       | 4KW                                |
| Maximum Withstand Temperature | 1600°C                    | Working Temperature               | ≤1550°C                            |
| Monitor                       | 7"True Color Touch Screen | Maximum Number of Program Setting | ≤100°C/min                         |
| Individual Program            | >100                      | Heating Type                      | Fast/Standard Sintering            |
| Application                   | Zirconia Sintering        |                                   |                                    |

About Besmile

Besmile is a global digital solutions provider for restorative and implant dentistry.

We offer integrated systems—premium CAD/CAM materials, advanced equipment, and precision implants—designed to streamline workflows and ensure reliable results.

All core products are developed and manufactured in-house, ensuring consistent quality and continuous innovation.

Trusted by over 1,000 partners in more than 100 countries, we empower dental professionals to create confident, lasting smiles.

Technology creates the best smile.



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Zirconia Sintering Furnace

BSM-FC40



80-Unit Capacity



Fast/Standard Sintering



Environmentally Friendly



IoT Cloud Platform



Upgraded Materials



All-In-One Sintering Solution For Chairside Or Lab Use

Zirconia Sintering Furnace

# BSM-FC40

## Digital Workflow



The BSM-FC40 is a high-capacity fast sintering furnace designed for performance and precision. With high-purity silicon carbide heating rods, uniform heat distribution, and advanced PID temperature control, it delivers reliable results and accurate color in as little as 90 minutes—ideal for dental labs and chairside restorations.

## Key Features



### 90-Min Fast Sintering

- Optimized cooling technology: completes sintering in as fast as 85 minutes, with full cycles including cooling in just 3 hours.
- High-purity silicon carbide rods enable rapid heating at 0–100°C/min.



### 80-Unit Large Capacity

- Ø110mm large furnace chamber with double-layer crucible stacking; sinter up to 80 units at once for maximum productivity.



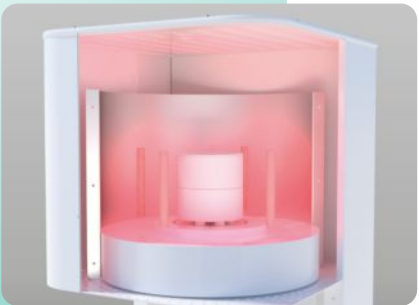
### IoT Cloud Platform

- Remote monitoring and control via PC or mobile devices.
- Unattended operation boosts efficiency.



### NEW Upgraded Materials

- High-purity refractory crucible delivers exceptional thermal shock resistance, minimizing the risk of cracking.
- Advanced insulated furnace chamber with “sandwich” structure for long-lasting heat retention.



### Precise Temperature Control

- PID intelligent temperature control, cylindrical chamber design, and circumferential heating arrangement ensure uniform heat distribution.

### Versatile Sintering Programs

- Fast and standard sintering modes; built-in cleaning and calibration curves.
- Supports customized sintering curves with storage for 100+ programs.

## Accessories



Crucible



Spiral heating elements



High-purity zirconia beads