



Fast-Slow Integrated Sintering Furnace
Instruction Manual

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SAFETY AND CLEANING

1. Sintering furnace is use for firing ceramic materials of teeth.
2. The device must be put at least 25-30cm away from the wall.Be assure that the sintering furnace must be under normal ventilation environment.
3. The sockets must be put near the power source.The instrument board behind must be connected firmly.
4. Do not operate near by inflammable.
5. Please use dry or a little wet cloth clean the surface of the sintering furnace.Do not use solvent or other liquid cleaner to purify the control panel.Please do not let the liquid seep into the sintering furnace.
6. Damages caused by mis-operation can not be included in warranty scope.
7. In order to the best work environment, we suggest you use a exclusive circuit. The socket use an overload resistant protector would be best. The three-phase circuit must have a dedicated line for a reliable grounding wire.
8. Before any maintenance, you must plug off from the electrical socket .
9. In order to avoid any accident of serious scald, please use proper instrument to put in or move the objects .
10. Do not use nippers or other instrument to operate the furnace, these instruments may damage the screen or the membrane.
11. The firing deck is a movable (up or down) part. The to-and-fro motion is controlled by the program.
12. The inner place of the furnace include fireproof ceramic-fiber and porcelain dust, these may be released by the movement of opening.Once

- these materials are inhaled by human, it may cause cancer. The dust can irritate the skin and eyes, cause the respiratory tract hoarse or fester. Do not use condense air blow the dust into the work environment.
13. After the furnace is used for the first time or is not used for a long time, it should be empty burned under normal procedures. The furnace temperature shall not exceed the rated temperature to avoid damage to heating elements and lining.
 14. The program automatically enters the stop state after running.
 15. When the equipment is idle, the lifting platform should be raised to the top to ensure the safety of the furnace cavity Dryness.

THE INTRODUCTION FOR THE SINTERING FURNACE

1. Voice prompt function
2. Touch screen size / 7 true color
3. Temperature control accuracy, + / - 1 degree
4. Precision stepper motor drive, smooth free operation and no jitter.
5. High purity silicon carbide rod
6. Hyperbolic sintering system, automatic temperature calibration before each sinter process.
7. Low noise tray and the speed is programmable
8. Traditional 10 hours slow burning available diameter of 100mm crucible heap two layers, only The sintering can be completed by 8.5 degrees of electricity
9. The maximum temperature can be set to 1560 °C
10. The maximum heating rate is 50/C/min
11. There is no need to preheat the sintering furnace in advance. Ready to use in any time
12. Automatic fast cooling technology.
13. 24 custom programs and built-in programs.
14. ELECTRIC POWER: rated power 2KW
15. TYPICAL SPECIFICATION: WXD_{XH} : 370*530*780mm,
Weight include the package: 50Kg
16. DEVICE IN BOX COMPLETE WITH:
Zirconia slow burning crucible /2 piece
Special fast burning crucible / 1piece
Curcible pliers quick burning and curcible fork/ Each 1 piece
Sintered bead/1 bag
Hearth/ 1 piece

SAFETY INSTRUCTIONS

PICTOGRAMS



This pictogram warns the hot surfaces. Burn injuries may occur.



This pictogram warns may cause personal injury or damage to the device.

INSTALLMENT AND START UP THE PLACE OF INSTALLMENT

The sintering furnace must be installed in the dry room and it must be put at least 25 cm away from the wall.

If the temperature is below 15 °C (59 °F) (e.g. after transport), leave the device to stand for approx. 30 minutes before using it for the first time at room temperature.

Ensure that the device is on a heat-resistant surface. The radiation and heating of the device is in the non-hazardous range. However, heat-sensitive surfaces of furniture and veneers could become somewhat discolored over time due to the constant influence of heat.

Please avoid direct sunlight.

Must not put flammable around the sintering furnace.

CONNECTING THE DEVICE TO THE MAINS POWER SUPPLY

Take out the sintering furnace core from the accessories for standby
(it must be placed in a safe place)

Insert the output plug of the power unit into the sintering furnace and the input plug of the power unit into the external plug.

(for 220 V instruments only)

Turn on the power switch of power unit, then turn on the power switch of sintering furnace.

When the sintering furnace starts and display the main interface

(when the temperature is displayed), press the down button, and the sintering platform moves downward (do not place any obstacles on the track of the sintering platform)

Assemble the baking core on the sintering platform.

Never start up the device without baking core!

POWER UNIT:

The output voltage can be controlled to reduce the driving voltage. Effectively prolong the service life of silicon carbide rod. The lower voltage is used to drive the silicon carbide rod to reduce the heat load so the service life of the silicon carbide rod is greatly prolonged.

Power unit must be placed in a well ventilated and dry place.

INTERING FURNACE STAND BY MODE INTRODUCTION

Idle temperature:

Idle temperature is sintering furnace not in firing ,a temperature value user hope to it static. The furnace will automatically adjust the idle temperature according to the current mode.

(when the silicon molybdenum rod is a heating body, it is not allowed to set the idle temperature, otherwise the heating rod will be damaged.)

Sound: If sound function on, there will be a sound that press any key.

FURNACE HARDWARE (AND ACCESSORIES) INSTRUCTIONS

FUSES

On the back of the device, there are 2 device fuses. The identification plates show information about the fuse ratings used in the device. Fuses with other ratings must not be used.

230V T8H250V 100/110V T20H250V

FAN

The device is equipped with a fan. Activation, deactivation of the fan are controlled automatically. The fan prevents excessive heating of the device and contributes to its general operating safety. For safety reasons, the device must not be operated without a fan. The upper cover of the firing chamber and the openings in the rear cover must not be closed or blocked.

SPARE PARTS

Spare parts must comply with the technical requirements determined by the manufacturer. This is always assured when using original spare parts.

WARRANTY AND LIABILITY

This furnace provide 1 years (except heating body) limited warranty: warranty starting from goods delivery for the first vendors.

DESCRIPTION OF THE FURNACE



Energy saving and environmental protection



Custom Sintering



Efficient and fast



Uniform sintering



Double-layer stacking



Touch screen control panel