



TORONTECH



DENTAL SINTERING LIFTING FURNACE TT- LF-120-1700

Dental Sintering Lifting Furnace TT-LF-120-1700 (also known as a denture crystallization furnace) features high-purity silicon molybdenum rods rated for 1800°C, ensuring clean, contaminant-free crystallization and sintering of zirconia dental crowns. It delivers a highly uniform temperature field and includes a convenient bottom-loading design with an automatic lifting mechanism for easy loading and unloading. This furnace is ideal for use in dental laboratories and clinics for the precision processing of zirconia crowns.

FEATURES

- Integrated 7-inch touchscreen menu system with real-time process curve display. Data can be exported, and up to 15 pre-set sintering programs from various zirconia block brands can be stored and accessed anytime. Each program supports up to 30 editable segments.
- Lined with high-purity alumina ceramic fiber for clean, contamination-free operation, with an iron content of ≤ 440 ppm.
- Equipped with pure U-shaped silicon-molybdenum rods as heating elements, ensuring clean firing of individual zirconia crowns without contamination and supporting fast sintering cycles.
- Cylindrical furnace structure with ring-shaped heating for a highly uniform temperature field, enhancing crown translucency and consistency.
- Features an automatic bottom-loading design with a precision screw system and high-accuracy linear sliders, offering smooth, stable, and shake-free vertical movement.
- Supports two $\varnothing 100$ mm sintering trays simultaneously, accommodating approximately 25–50 zirconia crowns per batch for efficient high-volume output.
- Built with a modular safety system that includes audio and visual alarms for over-temperature, overload, and thermocouple failure, along with automatic protective shutdown functions.

TECHNICAL SPECIFICATIONS

Model	TT-LF-120-1700
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Chamber Size	Φ120×120mm
Appreance Size	400×550×866mm
Weight	55KG
Max Temp	1700℃
Work Temp	1600℃
Power/Voltage	220V/2KW (110V is also available)
Heating Element	MoSi2
Chamber Material	Polycrystalline inorganic alumina ceramic fiber material prepared by wet vacuum filtration
Temp Control Precision	±1℃
Thermocouple	Type B platinum rhodium thermocouple
Temperature Controller	7-inch intelligent microcomputer PID touch instrument, SCR voltage regulation control, PID parameter self-tuning function; programmable 15 groups of 30 program segments, program heating, program heat preservation, program cooling
Heating Rate	1-15℃/min freely setting
Body Structure	Furnace temperature control integrated structure
Protection	Modular control, sound and light alarm signal will be sent out for over temperature and broken coupler in the working process, and the protection action will be completed automatically
Safety Protection	The equipment is equipped with a circuit breaker, which will automatically pop open in case of short circuit leakage, which can protect the safety of equipment and operators
Outshell	High-quality cold-rolled steel plate CNC machine tool blanking processing, after welding, grinding, polishing, phosphating, pickling, surface electrostatic spraying plastic powder
Certificate	ISO9001 CE SGS TUV

Standard Accessories	1. Furnace body 1 set 2. Power cord 3 meters 3. Thermocouple 1 piece 4. Manual 1 copy 5. Crucible tongs 1 set 6. One pair of high-temperature gloves 7. Two spare silicon-molybdenum rods
Optional Accessories	1. Sintering tray 2. Zirconia block 3. Furnace bottom plate
OEM	Customization of special product specifications can be realized according to user requirements



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