



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

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- 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  $\leq 440$  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  $\varnothing 100\text{mm}$  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.

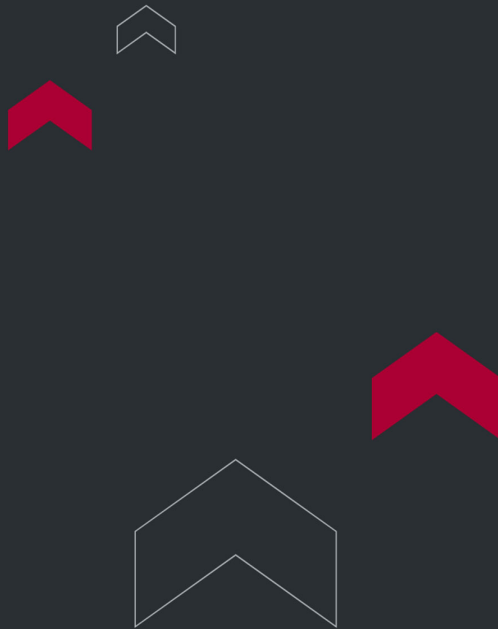
## TECHNICAL SPECIFICATIONS

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



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