Lifting furnace model GWDL-1800YS

Video Link: Juxing - 1700°C Double-Platform High-Temperature Lifting Electric Furnace - Luoyang Juxing Kiln Co., Ltd.

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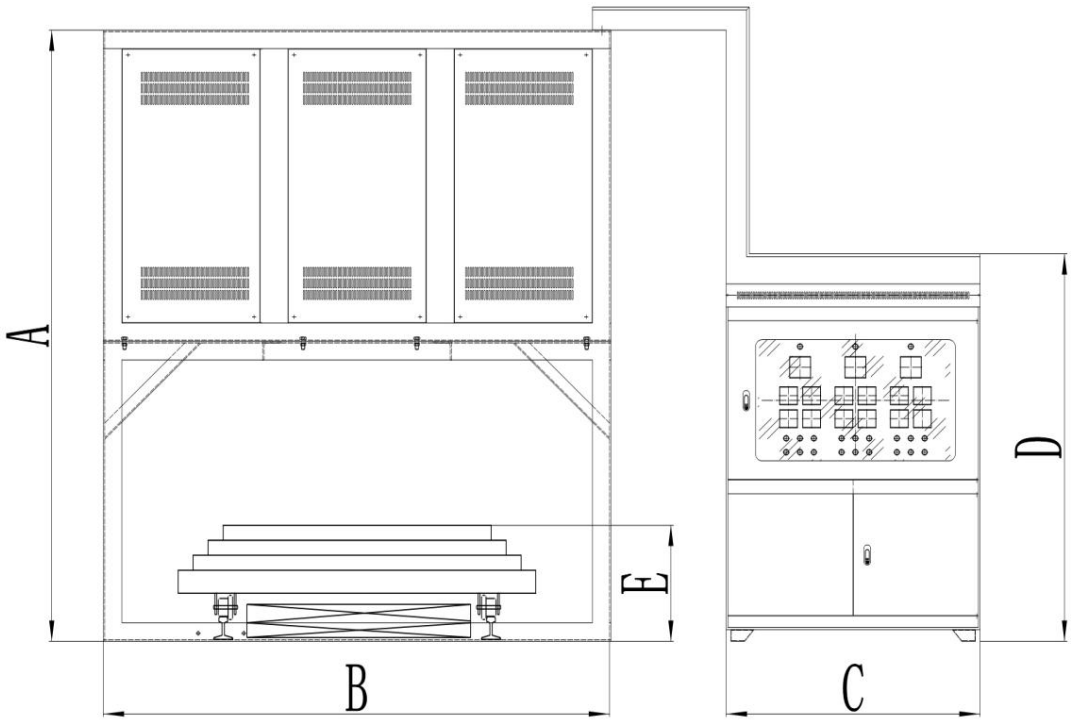

Technical parameters:

The GWDL-YS series 1800-degree lifting furnace, as shown in the figure, features a separate design for the control system and furnace chamber. The furnace lining uses imported...
It is made of vacuum-formed high-purity alumina lightweight material.

It adopts 1800-type silicon molybdenum rod heating elements; it is a special equipment developed for laboratories of universities, research institutes and industrial and mining enterprises for sintering, melting, analysis and production of ceramics, metallurgy, electronics, glass, chemicals, machinery, refractory materials, new material development, special materials, building materials, metals, non-metals and other chemical materials.

The control panel is equipped with an intelligent temperature regulator, power switch, main heating start/stop button, voltage and ammeters, and a computer interface for real-time monitoring of the system's operating status. This product utilizes reliable integrated circuitry, ensuring a good working environment and strong anti-interference capabilities. The furnace shell temperature remains ÿ45ÿ at its highest, significantly improving the working environment. Microcomputer program control with programmable curves enables fully automatic heating/cooling. Temperature control parameters and programs can be modified during operation, offering flexibility, convenience, and simple operation. Temperature control accuracy: ±1ÿ with no overshoot; constant temperature accuracy: ±1ÿ. Rapid heating rate, with a maximum heating rate ÿ45ÿ/min. The furnace lining is made entirely of vacuum-formed high-purity alumina lightweight material, offering high operating temperature, low heat storage, resistance to rapid heating and cooling, no cracking or slag shedding, and excellent insulation performance (energy saving is over 60% of that of older electric furnaces). The rational structure, with double-layered inner and outer furnace jackets and air-cooled heat dissipation, significantly shortens the testing cycle. Category

Parameters:	1800 degrees
Maximum operating temperature;	1780°C, 1750°C,
Long-term operating temperature	80°C to 1800°C
control range; Temperature	thermocouple, type B,
sensing element;	temperature measurement range 0-1820°C, ±1°C on all sides (integrated circuit control,
Heating element mounting position;	no
Temperature control accuracy.	overshoot), ±1°C (depending on furnace size; large furnaces can use multi-point control to
Furnace temperature uniformity	achieve better furnace temperature uniformity).

heating rate	The heating rate is freely adjustable, with an adjustment range of: fastest heating rate of 20 degrees Celsius per minute (20 degrees/min non-linear) and slowest heating rate of 1 degree Celsius per hour (1 degree/h). It uses imported 1800U-type silicon molybdenum rods at high temperatures.
Heating element	The furnace body, made with 66 silicon molybdenum rods, is CNC machined and undergoes polishing, grinding, pickling,
Furnace body	phosphating, powder coating, and high-temperature baking. It features a two-tone design, a novel and attractive appearance, and advantages such as oxidation resistance, acid and alkali resistance, corrosion resistance, high-temperature resistance, and easy cleaning. The furnace body adopts an internationally advanced air-cooled double-layer structure. Effective air-cooling guide baffles ensure overall cold air circulation in the
Furnace body structure	furnace shell, ultimately cooling the conductive sheets of the heating elements before they are discharged from the furnace body, preventing high-temperature oxidation of the conductive sheets and ensuring a good working environment. This lifting furnace can use a double lifting platform, allowing for alternating loading platforms at high temperatures, resulting in higher work efficiency and energy savings.
Double loading station	
Loading platform in and out	The charging platform's entry and exit are achieved through an electric screw mechanical drive, with adjustable speed, good stability, and high precision. The platform's lifting
Loading platform lifting	mechanism uses a dual-cylinder hydraulic system with adjustable lifting speed and a manual lowering button in case of power failure. The furnace door opens via a bottom-mounted vertical lifting mechanism. The charging platform
The charging platform is combined with the furnace opening.	and furnace opening are sealed with 3-4 layers of tapered steps, each equipped with elastic high-temperature sealing strips to effectively absorb the expansion of the refractory materials at the furnace opening and charging platform. The charging platform is constructed from vacuum-formed high-purity alumina lightweight material combined with high-purity
Refractory material for loading platform	alumina hollow spherical plates, ensuring both thermal insulation and load-bearing capacity. The furnace lining uses alumina foam ceramic, and the areas prone to material handling (furnace bottom) use high-purity lightweight hollow spherical alumina plates. These plates have high
Furnace refractory materials	operating temperatures, low heat storage, resistance to rapid heating and cooling, do not crack or slag, and have excellent insulation performance (energy saving effect is more than 80% of that of old-style electric furnaces). Four layers of insulation are used: alumina fiber cotton, alumina fiber board, and alumina foam ceramic. Imported materials are used, and the energy saving effect is more than 80% of that of old-style electric furnaces. For long-term operation without furnace
thermal insulation materials	interruption, with a casing temperature below 45 degrees Celsius, an integrated modular control unit is employed, ensuring accurate control precision. A dual-loop control and dual-loop protection system is designed, providing protection against overshoot, overshoot, undershoot, phase loss,
Furnace shell temperature	overvoltage, overcurrent, overtemperature, current feedback, and soft start. Closed-loop
Protect	technology with thyristor module trigger control, phase-shift trigger control, or zero-crossing triggering is used. Output voltage, current, or power is continuously adjustable, exhibiting constant voltage, constant current, or constant power characteristics. The current loop is the inner loop, and the voltage loop is the outer loop. When a sudden load is applied or the load current exceeds the current limit, the
control	output current of the voltage regulator is limited to the rated current range, ensuring normal operation of the output and the voltage regulator. Simultaneously, the voltage loop also participates in regulation, limiting the output current of the voltage regulator to the rated current range, maintaining constant output current and voltage with sufficient adjustment margin. This protects the heating elements from excessive current and voltage surges, achieving safe, reliable, and precise control.
Display parameters	Real-time temperature, temperature range number, time period, remaining time, output power percentage, voltage, current, etc.
Button	It uses imported buttons with a lifespan of over 100,000 cycles and comes with an LED indicator.
Temperature profile setting	Employing an intelligent temperature controller, it offers multiple adjustment modes including standard PID, AI-based APID, or MPT. It features self-tuning and self-learning capabilities, excellent control characteristics with no overshoot or undershoot, and 30-segment programmable control, enabling arbitrary slope temperature rise and fall control. It also includes jump (cycle) functionality.

	It has programmable/operable commands such as loop, run, pause and stop, and allows modification of the program at any time during program control and operation; it adopts an artificial intelligence adjustment algorithm with curve fitting function, which can achieve a smooth curve control effect; it has 30-segment (50-segment customizable) program control
Multiple curve inputs	function, and can input settings: 30 (50) segments for one curve, 14 (28) segments/line for two curves, 9 (15) segments/line for three curves, and 5 (9) segments/line for five curves; multiple curves can be input at the same time and can be called arbitrarily when used. The electric furnace is equipped with an RS485 communication interface with a communication distance of up to 1700 meters. It can be controlled
Communication interface	by computer to start, pause, stop, set and read the heating curve, and set parameters. It is highly reliable and easy to operate. The computer screen displays a wealth of information, including measured values, setpoints, output values, time intervals, segment numbers, heating curves, and power percentage curves. Heating curves can be stored on the computer and can be recalled and modified at will. Setpoints and commonly used parameters can be modified. Historical curves and historical reports can be filtered by time interval (1 second to 1 hour) and can be stored for a long time.
Random accessories include two heating elements, two sets of rods, one crucible tong, one pair of high-temperature gloves, and one DVD data disc.	
Warranty Scope and Period: The electric furnace is covered by a one-year free warranty, but the heating element is not covered by the warranty (it will be replaced free of charge if it fails naturally within three months).	
Customer optional configuration	1. Crucible, sagger, corundum furnace pad/silicon carbide pad; 2. Computer control software and hardware; 3. Touch screen temperature controller; 4. Added exhaust port; 5. Consumables: heating element; 6. Added observation port. 1. To avoid affecting the furnace's lifespan, we
Precautions	recommend a maximum heating and cooling rate of 10-20ÿ/min (rapid heating at high temperatures will shorten the lifespan of the heating element). 2. This lifting furnace does not use a vacuum seal structure, so flammable and explosive gases must not be introduced. 3. After a period of use, minor cracks may appear in the furnace chamber; this is normal. It will not affect its use, and it can be repaired with an aluminum oxide coating. 4. It is not recommended to introduce corrosive gases. If you need to introduce highly corrosive gases such as S or Na, please provide further instructions. We have informed you in advance that we will perform special treatment on the furnace. 5. High-temperature solution must not leak onto the furnace bottom. To prevent this, use a pad or alumina powder for isolation. 6. The instrument should be placed in a well-ventilated, dry place. The package includes one electric furnace, two
Packing list	heating elements, two sets of rods, one crucible tong, one pair of high-temperature gloves, one DVD data disc, one instruction manual, one certificate of conformity, one acceptance report (factory inspection report), and one sales delivery note. 1. The electric furnace is packaged in three layers: wrapped in foam paper, then wrapped in plastic film, and
Shipping Information	finally placed in a wooden crate. Package 2. Free domestic door-to-door delivery (free delivery within city limits). 3. We will bear all responsibility for any damage that occurs during the transportation of the electric furnace. 4. Logistics methods: truck, rail, ship (foreign trade export), air freight (foreign trade export). For nearby locations, our company will arrange dedicated transportation (packaging is wooden pallets and cardboard boxes). For example: A 1700°C lifting furnace, one loading platform,
Selection Guide	furnace chamber dimensions (depth-width-height) mm: 1300×750×600. Specifications: GWDL-1700YS-1/1300/750/600.

	Specifications and Models	Furnace dimensions (length, width, height) in mm	External dimensions (mm)	Voltage ACV	power kw	price
Name: Lifting Electric Furnace	GWDL-1700YS2500/800/800	2600×500×600	B=4000, F=1500 A=2800, J=2000	380	180	420000
Note:	1. Furnace dimensions for special models can be customized according to customer requirements (delivery time 17-30 days)! 2. Dimensions are in millimeters (mm). The dimensions listed are for reference only; the actual dimensions shipped will prevail.					

Thank you for contacting us! Company

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