



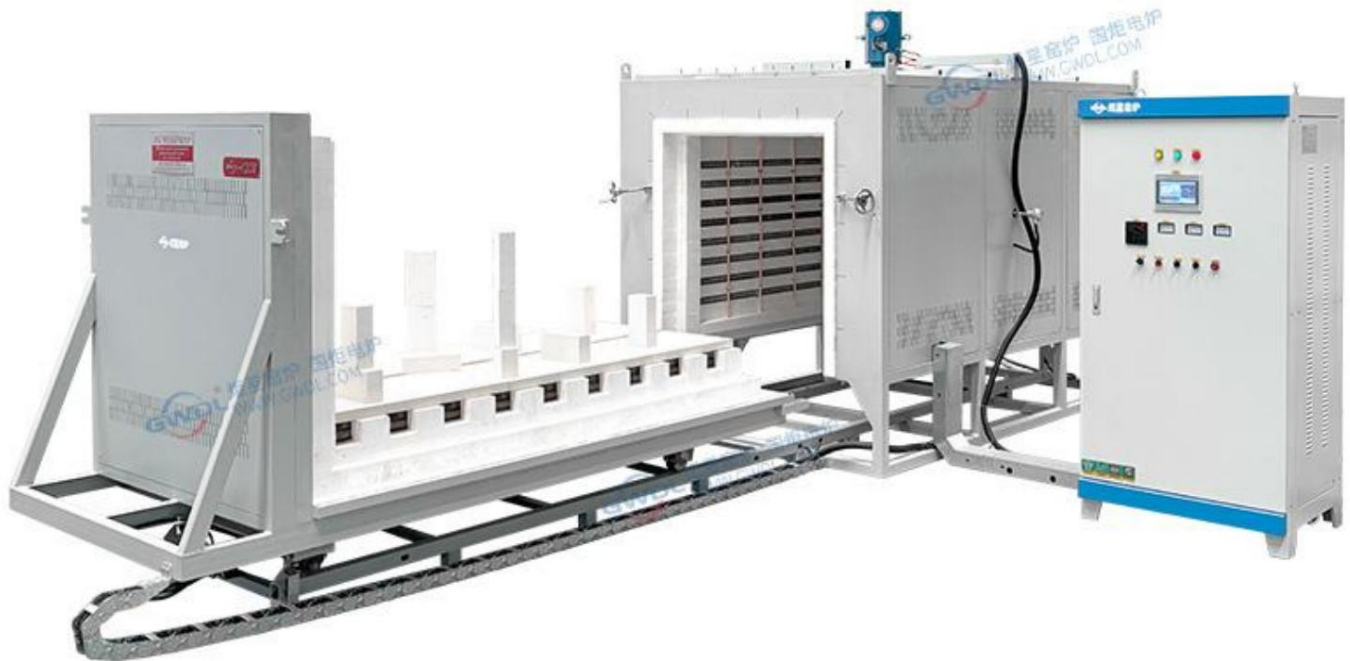
高新技术企业/专精特新企业
专业的高温加热制造工厂 (-100~2600°C)

中国热处理行业协会理事单位
ISO45001:职业健康管理体系认证
ISO14001:环境管理体系认证
ISO9001:质量管理体系认证
欧盟CE产品认证



咨询电话
400-668-1868
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Core Technical Specifications of GWDL-1200STYC High-Temperature Precision Bogie Furnace



Main website: www.gwdl.com Email : wgg@gwdl.com Contact information: 0379-69936781, 0379-69936789 Address : No. 1,
Xingye 1st Road, Science and Technology Industrial Park , Jianxi District ,
Luoyang City, Henan Province



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洛阳炬星电窑炉
LUOYANG TORCH STAR ELECTRIC KILN

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category	
parameter	1200 degrees
Model,	GWL-STCY
Power Supply (AC),	Three-phase 380V,
Furnace Chamber Dimensions	depth × width × height: 2000*1000*1000 mm, evenly distributed on
(mm), Heating Element Installation Position,	both sides of the furnace plus the bottom, ±1 degree (integrated
Temperature Control	circuit control, no overshoot) ±5 degrees (no load). K-type thermocouples, temperature
Accuracy, Furnace Temperature	measurement range 0-1200
Uniformity, Temperature Measuring Element	degrees Celsius, heating rate freely adjustable, adjustment range: fastest
heating rate	heating rate 15 degrees Celsius per minute (15 degrees/min), slowest heating rate 1 degree Celsius per hour (1 degree/h). The furnace body, manufactured using high-temperature alloy resistance wire as the heating element, is CNC machined and
Heating element	undergoes polishing, grinding, pickling, phosphating, powder coating, and
Furnace body	high-temperature baking. It boasts a novel and attractive appearance and possesses advantages such as oxidation resistance, acid and alkali resistance, corrosion resistance, high-temperature resistance, and easy cleaning. The furnace body employs an advanced air-cooled double-layer structure. Effective air-cooling guide baffles ensure overall cold air circulation within the
Furnace body structure	furnace shell, ultimately cooling the conductive plates of the heating element before they are discharged from the furnace body, preventing high-temperature oxidation of the conductive plates and ensuring a good working environment. The furnace opening and charging platform are fitted with stepped, cross-sealed refractory materials, with angles at both the top and bottom. The opening angle of the charging platform
Furnace opening and charging platform refractory material	increases, gradually decreasing as the closing angle decreases. The 500kg electric inlet/outlet furnace lining is made of vacuum-formed high-purity alumina lightweight material. Areas prone to material handling (furnace opening, furnace bottom) utilize lightweight
matching, charging platform load-	hollow
bearing, charging platform inlet and outlet	spherical alumina
Refractory materials	plates, offering high operating temperatures, low heat storage, resistance to rapid heating and cooling, and excellent insulation performance (energy saving is over 80% of that of older electric furnaces). The furnace uses three layers of insulation: aluminum silicate fiberboard, alumina fiberboard, and alumina (polycrystalline) fiberboard, achieving energy savings of over 80% compared to older electric furnaces. It can operate continuously without
thermal insulation materials	interruption, maintaining an outer shell temperature below 45 degrees Celsius. An integrated modular control unit ensures accurate control and features dual-loop control and protection, including protection against overshoot, over-adjustment, under-adjustment,
Furnace shell temperature	phase loss, overvoltage, overcurrent, overtemperature, current feedback, and soft start.
Protect	Closed-loop technology with thyristor module trigger control and phase-shift trigger control allows for continuous adjustment of output voltage, current, or power, providing 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
control	current limit, the voltage regulator's output current 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, ensuring...

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	The voltage regulator's output current is limited to the rated current range, maintaining constant output current and voltage with sufficient adjustment margin. This protects the heating element from excessive current and voltage surges, achieving safe and reliable control with high precision. Temperature, temperature range number, time interval, remaining time, output power percentage, voltage, and
Display parameters	current are displayed using imported buttons with a lifespan exceeding 100,000 cycles and equipped with LED indicators. An intelligent temperature
button	controller is employed, offering multiple adjustment modes including standard PID, AI-based APID, or MPT. It features self-
Temperature profile setting	tuning and self-learning functions, excellent control characteristics with no overshoot or undershoot, and 30-segment programmable control. It can achieve arbitrary slope temperature rise and fall control, and has programmable/operable commands such as jump (loop), run, pause, and stop, allowing modification of the program at any time during operation. Employing an AI-based adjustment algorithm with curve fitting capabilities, it achieves smooth and even curve control.
touchscreen	The touchscreen allows users to set temperature profiles, save historical profiles, and generate data reports.
Mixing blower	Metal agitator fan, PLC and temperature range automatic start.
Multiple curve inputs	The system features a 30-segment programmable control function, allowing input settings: 30 segments for one curve, 14 segments for two curves, 9 segments for three curves, and 5 segments for five curves. Multiple curves can be input simultaneously and recalled at will. The package includes two heating elements, two sets of
Warranty coverage	rods, one crucible tong, and one pair of high-temperature gloves. The electric furnace comes with a one-year free
and duration of included accessories	warranty; heating elements are not covered by the warranty (free replacement within three months for natural damage). 1. To avoid affecting
Precautions	the furnace's lifespan, we recommend a maximum heating and cooling rate of 10-20y/min (excessive heating will shorten the lifespan of the heating elements). 2. This electric furnace does not use a vacuum sealing structure, so flammable and explosive gases must not be introduced. 3. After a period of use, minor cracks may appear in the furnace chamber of this electric furnace. This is normal and will not affect its use. It can be repaired with an alumina coating. 4. It is not recommended to introduce corrosive gases. If you need to introduce highly corrosive gases such as S or Na, please inform us in advance so that we can perform special treatment on the furnace. 5. High-temperature solution must not leak onto the furnace bottom. To prevent this, a pad or alumina powder can be used for isolation. 6. The instrument should be placed in a well-ventilated, dry place. The package includes
Packing list	one electric furnace, two heating elements, two sets of rods, one crucible tong, one pair of high-temperature gloves, 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 two layers: wrapped in
Shipping Information	sponge paper, then wrapped in plastic film, and finally secured with an iron frame as a base.



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| | <p>2. Free domestic door-to-door delivery (free delivery within city limits)</p> <p>3. We will be responsible for any damage that occurs during the transportation of the electric furnace.</p> <p>4. Logistics methods: transportation by car, rail, ship (foreign trade export), and air (foreign trade export). For nearby locations, our company will arrange dedicated vehicles for transportation (packaging is wooden pallets and cardboard boxes).</p> |
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