



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 
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+86 379-69936789

1200 °C Small Rotary Furnace **GWL-1200KQGA**



Technical parameters

category	1200 degrees
parameter	
Model	GWL-1200KQGA
Specifications (Furnace Chamber Dimensions)	Furnace Chamber Dimensions (Depth-Width-Height) mm: Diameter 200 * Heating Zone 1000 mm
The furnace tube has a diameter of 200mm, a total length of 1400mm, a 600mm wide end , and a 200mm conical discharge end .	
AC power	380V/15KW
Rated operating temperature:	1150 degrees Celsius
Operating temperature up to	1100 degrees Celsius
The control range is	80 to 1400 degrees.
Thermocouple type K for temperature sensing element, temperature range	0-1350 degrees Celsius.
Heating element installation location:	around the furnace tube
Furnace tube material:	quartz glass tube
rotational speed	Adjustable from 1-10 r/min

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Atmosphere Interface and Safety	Air inlet and outlet: One air inlet each equipped with a float flow meter; 0-30L furnace tube seal: 304 stainless
steel flange, silicone sealing ring; vacuum	degree: -0.1Mpa; mechanical vacuum pump; furnace tube tilt
angle: 1-10 degrees ; temperature control	accuracy: ±1 degree (integrated circuit control, no overshoot);
heating rate is freely adjustable, adjustment	range: fast
heating rate is 10 degrees per minute (10	degrees/min), slow heating rate is 1 degree per hour (1 degree/h); high-temperature alloy
heating rate	resistance wire heating element is used. The furnace body is CNC machined and manufactured through polishing, grinding, pickling, phosphating, powder coating, and high-temperature baking. It features a two-tone design, a novel and
Heating element	attractive appearance, and advantages such as oxidation resistance, acid
Furnace body	and alkali resistance, corrosion resistance, high-temperature resistance, and easy cleaning. The furnace body adopts a double-layer air-cooled structure. Effective air-cooling guide baffles ensure overall cold air circulation within the furnace shell, ultimately cooling the conductive sheets of the heating elements before they are discharged from the furnace body, preventing high-temperature oxidation
Furnace body structure	of the conductive sheets and ensuring a good working environment. The furnace lining is made of vacuum-formed alumina lightweight material. Areas prone to material handling (furnace opening, furnace bottom) use lightweight hollow spherical alumina plates, offering high operating temperatures, low heat storage, resistance to rapid heating and cooling, no cracking, no slag shedding, and
Refractory materials	good insulation performance. It employs a three-layer insulation system: aluminum silicate fiberboard, alumina fiberboard, and alumina (polycrystalline) fiberboard.
thermal insulation materials	
The furnace shell temperature remains	below 45 degrees Celsius during continuous operation without shutting down the furnace.
Protect	Employing an integrated modular control unit, the system boasts accurate control precision and features dual-loop control and protection. It provides protection against overshoot, overshoot, undershoot, phase loss, overvoltage, overcurrent, overtemperature, current feedback, and soft start. Utilizing closed-loop technology with thyristor module triggering control,
control	phase-shift triggering, or zero-crossing triggering, the output voltage, current, or power is continuously adjustable, exhibiting constant voltage, constant current, or constant power characteristics. The current loop forms the inner loop, and the voltage loop forms the outer loop. When a sudden load is applied or the load current exceeds the current limit, the voltage regulator's output current is limited to the rated current range, ensuring normal operation of the output and the regulator. Simultaneously, the voltage loop also participates in regulation, limiting the regulator's output current to the rated current range, maintaining constant output current and voltage with sufficient adjustment margin. This protects heating elements from excessive current and voltage surges, achieving safe, reliable, and precise control.
Display parameters	Temperature, temperature range number, time period, remaining time, output power percentage, voltage, current, etc.
button	The selected buttons have a lifespan exceeding 100,000 cycles and feature LED indicator lights. Employing an intelligent temperature
Temperature profile setting	controller, it offers multiple adjustment modes including standard PID, AI-based APID, or MPT, with self-tuning and self-learning functions. It boasts excellent control characteristics with no overshoot or undershoot, and features 30-segment programmable control, enabling arbitrary slope temperature rise and fall control. It also includes jump (cycle) functionality.

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	It supports 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;
The warranty coverage and	Four 30-
period for random	section heat-insulating plugs, one crucible tong, and one pair of high-temperature gloves.
accessories with multiple curve inputs: The	electric furnace is covered by a one-year free warranty, and the heating element will be replaced free of charge within three months if it is damaged due to non-human factors.
Shipping Information	1. The electric furnace is packaged in three layers: first wrapped in foam paper, then wrapped in plastic film, and finally packed in a wooden crate. 2. Free delivery within China (free delivery within city limits). 3. We will bear the 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).

List of main components of Juxing kiln

Serial Number	Item Name	Classification							Manufacturer's Notes	
			1200 degrees	1400 degrees	1600 degrees	1700 degrees	1800 degrees	1900 degrees		
1.	Outer shell	Double-layer shell	• • • • •						Juxing Kiln	
2	heating element	electric heater	High-temperature alloy resistance wire	silicon carbide rods	silicon molybdenum rod	Type 1800 silicon molybdenum rod	Type 1850 silicon molybdenum rod	Type 1900 silicon molybdenum rod	Juxing Kiln	
3	Electrical control section	Temperature controller	858P	858P	858P	858P	858P		Xiamen Yudian	
4		thermocouple	K	S	B	B	B	B+ fiber	Taisho/Bright	
5		Voltmeter	• • • • •	Chint						

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6		ammeter	• • • • •	Chint					
7		SCR power regulator	• • • • •					Juxing Kiln	
8		contactor	• • • • •					Chint/ Delixi	
9		Air circuit breaker	• • • • •					Chint/ Delixi	
10		Button	• • • • •					Chint/ Delixi	
11		buzzer	• • • • •					Chint/ Delixi	
12		Quick Melt	• • • • •	Ming Melt					
13		transformer	• • • • •					Juxing Kiln	
14		Ceramic fiberboard/module	1260 1500 1700 1800 1850					Juxing Kiln Zirconia fiber 2100	
15	Refractory and heat- insulating furnace	Insulating bricks at the furnace opening (inner door)	• • • • •					Juxing Kiln	
16		Sintering plate	Quartz ceramics	Quartz ceramics	Corundum Mullite	Corundum Mullite	Corundum Mullite	Juxing Kiln Zirconia fiber 2100	



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Thank you for contacting us!

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