



Technical Specifications:

project	temperature	1200y
AC voltage		380V/8KW
temperature control accuracy		±1y
Furnace tube material		High-purity quartz tube D150*600mm; 1 irregularly shaped quartz tube for vacuum sintering, with both ends... 80mm in diameter, 150mm in center.
Heating		600mm,
zone		Ensure that the constant temperature zone has two temperature control zones, each of which can be controlled independently.
		Mechanical bearing transmission, capable of automatic rotation
temperature		Adjustable from 0-5 r/min
control, rotating speed, furnace tube tilt angle		Electric tilt 0-15 degrees
touchscreen		Centralized control via a 7-inch touchscreen (each temperature increment can be set via a Siemens PLC on the touchscreen). (2 gas paths)
Sealing flanges and valves		1. The sealing flange of the irregular-shaped pipe is made of stainless steel, with 2 air inlets + 1 air outlet + 1 vacuum.
Vacuum		Equipped with PTFE feed push rod
pump with rotary joints at both		The flanges at both ends of the intermittent sintering furnace tube are made of 316L stainless steel, and the rotary joint uses a magnetic fluid seal.
ends of the feed.		Direct-drive double-stage vacuum pump 2L/S

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Vacuum gauge,	Digital vacuum gauge -100 to 100 kPa (controllable micro-positive pressure sintering process); 2-channel, 2-star mass flow
gas inlet flow meter,	meters for nitrogen, argon, oxygen, etc. (0-5 L/min); ±1
temperature control accuracy,	degree (integrated circuit control, no overshoot); ±3γ (depending on heating chamber size); Thermocouple graduation number S, temperature measurement range
furnace temperature field uniformity, temperature measuring element, and temperature measuring range,	0-1600 degrees, 1γ/h to 10γ/min; Adjustable imported Kanthal A-1 resistance wire; 30-segment programmable control function, can input settings:
Heating rate heating element	30 segments for one curve, 14 segments/segment for two curves, 9 segments/segment for three curves,
Multiple curve inputs	5 segments/segment for five curves; multiple curves can be input simultaneously and can be arbitrarily recalled during use.
Temperature profile setting	Employing an intelligent temperature controller, it offers multiple adjustment modes including standard PID, AI-based APID, and MPT. It features self-tuning and self-learning capabilities, exhibiting excellent control characteristics with no overshoot or undershoot. It boasts 30-segment programmable control, enabling temperature rise and fall control with arbitrary slopes. Programmable/operable commands such as jump (loop), run, pause, and stop are available, and the program can be modified at any time during operation. Utilizing an AI-powered adjustment algorithm with curve fitting capabilities, it achieves smooth and even curve control. The integrated modular control unit ensures accurate control precision and incorporates dual-loop control and protection, providing protection against overshoot, overshoot, undershoot, phase loss, overvoltage, overcurrent, overtemperature,
Protect	current feedback, and soft start.
control	Employing closed-loop technology with thyristor module trigger control, phase-shift trigger control, 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 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 output current of the voltage regulator is limited within 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 within 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. Three layers of insulation are used: 1200mm aluminum silicate fiberboard, 1400mm alumina fiberboard, and 1700mm alumina (polycrystalline) fiberboard, achieving energy savings of over 80% compared to traditional electric furnaces. The furnace is tiltable and manufactured
thermal insulation materials	using CNC machine tools, undergoing polishing, grinding, pickling, phosphating, powder coating, and high-temperature baking. It features a two-tone design for a novel and attractive appearance, and boasts advantages such as oxidation resistance, acid and alkali resistance, corrosion resistance,
Furnace body	high-temperature resistance, and easy cleaning. The double-layer furnace shell and air-cooled furnace (γ45 degrees Celsius) come with a one-year free warranty. Heating elements and furnace tubes are not covered by the warranty (heating elements will be replaced free of charge if they fail naturally within three months).
Cooling structure	
furnace body temperature	
Warranty coverage and period	



高新技术企业/专精特新企业
专业的高温加热制造工厂 (-60°C~2600°C)

中国热处理行业协会理事单位
ISO45001:职业健康安全管理体系认证
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



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Random spare parts	One instruction manual, one certificate of conformity, one crucible tong, one pair of high-temperature gloves, and one tube furnace-specific crucible. One, two sealing rings
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Product Name/Model	Furnace tube diameter	heating zone	Delivery time
Rotary tilting tube furnace GWDL-1200XQGA	D150mm	600mm	30 working days

Thank you for contacting us!

Thank you to get in touch with us!

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