



	1050ÿ
Temperature, Voltage (AC),	380V/45°C,
Power, Long-term Operating	long-term ÿ1050°C
Temperature, Temperature Control Accuracy	±1ÿ
Temperature control system	Equipped with a 7-inch touchscreen for centralized control, the temperature controller uses high-precision 50-segment temperature control, and the touchscreen can store 15 sintering curves. The PLC is a top-tier international brand (Siemens), and an integrated power regulator (Sichuan Yingjie) supports various control modes such as constant current, constant voltage, and constant power. It also supports communication of voltage, current, and power. Protection: A dual-loop control and dual-loop protection system is designed, providing protection against overshoot, over-adjustment, segmentation, phase loss, overvoltage, overcurrent, overtemperature, current feedback, and soft start.
Discharge	Inclined rotating furnace tube for material discharge
Furnace tube material/size:	310S stainless steel tube, center diameter ÿ500*2500mm (with internal tipping plate), ends diameter ÿ159*350mm.



atmosphere	Nitrogen, carbon dioxide, and water vapor are supplied by two flow meters. Nitrogen and carbon dioxide flow rates are 0-20 L/min. A water vapor evaporator with a controllable flow
steam evaporator	rate of 5-50 g/min is included. The inlet pipe is 316L with external insulation and pipe heating. It features a digital pressure display, flange seals at both ends, rotary
Pressure	joints, inlet and outlet valves, and an
at both ends of the furnace tube	overpressure safety valve. The nickel-chromium/nickel-silicon K alloy has a temperature measurement range
seal, temperature measuring element and	of 0-1350y. Three independent temperature controllers (left,
temperature	center, and right) ensure uniform furnace temperature (1y/h to 15y/min). Adjustable high-temperature alloy
measuring range,	resistance wire (Beijing Shougang HER) is installed
temperature control	around the furnace tube at 0-10 degrees and a speed of 0-5 r/min. The furnace lining uses high-purity alumina fiber
zone, heating rate,	and vacuum-
heating element tilt angle, rotation speed	formed lightweight
Refractory materials	fiberboard. Lightweight hollow spherical alumina plates are used in areas prone to material handling (furnace opening and bottom). This provides 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 80% of that of traditional electric furnaces). It adopts a three-layer insulation system, consisting of alumina fiber cotton, alumina fiber board, and alumina
thermal insulation materials	polycrystalline fiber board, achieving an energy-saving effect of over 80% compared to traditional electric furnaces.
Furnace shell temperature	For long-term operation without furnace interruption, with a casing temperature
Protect	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, over-adjustment, under-adjustment, phase loss, overvoltage, overcurrent, overtemperature, current feedback, and soft start. Closed-loop technology with
control	thyristor module trigger control, using phase-shift trigger control or zero-crossing triggering, allows for continuous adjustment of output voltage, current, or power, 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 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 the heating elements from excessive current and voltage surges, achieving safe, reliable, and precise control. (Temperature, temperature range number, time interval, remaining time, output power percentage, voltage, current, etc.)
Display parameters	
button	It uses imported buttons with a lifespan exceeding 100,000 cycles and features LED indicator lights. Employing an intelligent
Temperature profile setting	temperature controller, it offers multiple adjustment modes including standard PID, AI-based APID, or MPT, boasting self-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 features programmable/operable commands such as jump (loop), run, pause, and stop, allowing modification of the program at any time during operation. Utilizing an AI-powered adjustment algorithm with curve fitting capabilities, it achieves smooth and even curve control.



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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Communication interface	The electric furnace is equipped with an RS485 communication interface, with a communication distance of up to 1000 meters. It can be controlled via computer for starting, pausing, stopping, setting and reading temperature curves, and parameter settings. It is highly reliable and easy to operate. The computer screen displays a wealth of information, including measured values, setpoints, output values, time intervals, interval numbers, temperature curves, and power percentage curves. Temperature curves can be stored on the computer and can be recalled and modified at will, along with setpoints and commonly used parameters. Historical curves and reports can be filtered by time interval (1 second to 1 hour) and can be stored long-term. The package includes an instruction manual, a certificate of conformity, a crucible tong, and a pair of high-temperature
Parts	gloves. The electric furnace comes with a one-year free warranty.
warranty coverage and period	

List of main components of Juxing kiln

Serial Number	Item Name	Classification	Temperature						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		Temperature controller	858P	858P	858P	858P	858P	858P	Xiamen Yudian
4		thermocouple	K	S	B	B	B	B+ fiber	Taisho/Bright
5	Electrical control section	Voltmeter	•••••	Chint					
6		ammeter	•••••	Chint					
7		SCR power regulator	•••••						Juxing Kiln



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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	Alitendum	Alitendum	Mullite Zirconia fiber 2100



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