

## 1600 °C CVD Multi-Zone Tubular Furnace Technical Specifications



Widely used in ceramics, metallurgy, electronics, glass, chemicals, machinery, refractory materials, new material development, and special products.

Materials, building materials and other fields.

Features:

1. Control accuracy:  $\pm 1$  °C furnace temperature uniformity  $\pm 1$  °C (depending on the size of the heating chamber).
- 2 Easy to operate, programmable, PID self-tuning, automatic heating, automatic heat preservation, and automatic cooling, requiring no human intervention;

It can be equipped with a computer for communication via a calculator.

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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



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Computer-controlled electric furnace (start furnace, stop furnace, pause heating, set heating curve, save heating curve, history)

(Curves, etc.), the software is free; see Computer Control System for details.

3. The furnace tubes are made of corundum 99 ceramic.

4. Stainless steel KF metal flange seal (double rubber ring)

5. The furnace body temperature is close to room temperature.

6. Dual-circuit protection

7. Imported refractory materials, excellent thermal insulation performance, and high temperature resistance.

8. Vacuum degree: -0.1 MPa

9. It can pass through various gases (oxygen, nitrogen, ammonia, hydrogen, etc.)

Technical Specifications: Temperature			
Spend project	1050y	1250y	1450y
Long-term working temperature			
Spend	±1y	±1y	
Furnace tube material:	stainless steel tube / corundum tube	Stainless steel pipe/corundum pipe	Corundum tube
Rotation speed adjustable	from 1-10 r/min	1-15 degrees	1-15 degrees
Furnace temperature field uniformity	For higher requirements, the following can be adopted: Multipoint temperature control	For higher requirements, multi-point temperature control can be used.	For higher requirements, multi-point control can be adopted.
Uniformity			

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Temperature sensing element and temperature measurement range	Nickel-chromium and nickel-silicon: 0-1350y	Nickel-chromium and nickel-silicon: 0-1350y	Platinum-Rhodium 0-1700y
Number of program curve segments	One group has 22 segments, and three groups have 50 segments each. Group 2, 8 segments	One group of 22 segments, three groups of 1y/h to 1y/h to 1y/h to 45 degrees	545 degrees
Computer interface	RS485 RS232 USB	<p style="text-align: center;">&lt;span style="padding: 0px; border: 0px; font-weight: inherit; font-style: inherit; font-size: 12px; font-family: inherit; vertical-align: baseline;"&gt;RS485 RS232</p> <p style="text-align: center;">USB</p>	
Warranty coverage and period	The electric furnace comes with a one-year free warranty, but the heating element and furnace tube are not covered by the warranty (the heating element will be replaced free of charge if it fails naturally within three months).		
Random spare parts	Two heating elements, two sets of rods, one instruction manual, one certificate of conformity, one furnace door insulation brick, one crucible tong, and a high-temperature hand sanitizer. One set, one tube furnace-specific crucible, and two sealing rings.		

Gas control cabinet

Two types of air intakes	are available (1-10 options).
Gas mixing is achieved	by adjusting the values of each intake flow meter.
valve	Imported stainless steel valves (ordinary, stainless steel, solenoid valves, etc. are available).
Flow meter	Two flow meters, each with a flow rate of 0-300 ml/min (depending on the intake air volume, mass flow meters, float flow meters, etc., may be selected).

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One pressure gauge with dual pointer indicators for positive and negative pressure detection (digital vacuum gauge or other options are optional).	
Two-stage rotary vane vacuum pump	
Gas-specific PV hoses for gas pipelines (clean stainless steel tubing can be used depending on gas requirements).	
Pressure protection	This system was specifically designed to prevent hazards caused by closed or blocked furnace tube exhaust ports, or excessive furnace tube pressure. Its principle is as follows: a signal from an electrical contact pressure gauge or pressure sensor drives the control module to close the electromagnetic intake valve and activate the electromagnetic exhaust valve and alarm. This protects the normal operation of the electric furnace.
Gas leak alarm	Based on the atmosphere, prevent leakage; Function: When the gas leak alarm detects that the content of toxic or dangerous gases in the (indoor) air exceeds a certain value, the drive module shuts off the electric furnace and the gas supply, and opens the exhaust port and ventilation, thereby obtaining a higher and safer working environment.

List of main components of Juxing kiln

Serial Number	Item Name	Classification	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		Temperature controller	858P 858P 858P 858P 858P 858P						Xiamen Yudian
4	Electrical control section	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	Alumina Mullite		Juxing Kiln Zirconia fiber 2100	



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