



HIGH-TEMPERATURE ELECTRIC FURNACES

PRECISE & ENERGY CONSERVATION

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洛阳炬星窑炉有限公司
LUOYANG JUXING KILN CO., LTD.

1. Company Introduction

Luoyang Juxing Kiln Co., Ltd. (This company has passed ISO9001:2008 quality management certification)

Management System Certification (03414Q2008R0M), CE EU Certification, High-Tech Enterprise

We are a professional manufacturer specializing in the research, development, and production of various high-temperature electric furnaces and kilns! Our products...

It features fully automatic control, rapid heating, energy saving, simple operation, and programmable microcomputer control.

Fully automatic heating and cooling, high temperature control and constant temperature accuracy, furnace body temperature close to room temperature, etc.

Unique features have earned high praise from customers! After years of development, the company now possesses mature...

The high-temperature kiln production line has a team of senior and intermediate research personnel, integrating scientific research and development with production...

A private enterprise that integrates production and marketing.

Luoyang Juxing kiln Co., LTD. (the enterprise has passed iso9001:2008

quality management system certification (03414Q2008R0M), part of the

products obtained CE European Union certification, high-tech enterprises)

is a professional research, development, production of various

high-temperature electric furnace, kiln professional manufacturers! Its

products have automatic control, heating fast, energy-saving, simple

operation, microcomputercontrol programmable, automatic lifting, cooling,

temperature control precision and constant temperature accuracy high,

furnace temperature close to room temperature, and other advantages by

customers praise! After years of development, the company now has a

mature high-temperature furnace production line, with a high and

intermediate research team, which is a collection of scientific research and

development, production, marketing in one of the private enterprises.

Our factory adheres to the principles of seeking truth from facts, technological innovation, quality first, and customer supremacy.

We continuously introduce domestic and international technologies and modern management experience, and have formulated rigorous process standards.

A rigorous quality control system and testing methods.

Our plant in the spirit of pragmatic, scientific and technological innovation, quality first, customer first principle, constantly introduce domestic and foreign technology and modern management experience, developed rigorous process standards, strict quality control system, and testing means.

Our various electric furnaces and kilns are highly automated and are sold to more than 20 provinces, municipalities, and autonomous regions across the country.

Special economic zones, key national universities and colleges, key national laboratories, Chinese Academy of Sciences,

Advanced research institutes are exported to North America, Russia, the Philippines, Japan, and other countries.

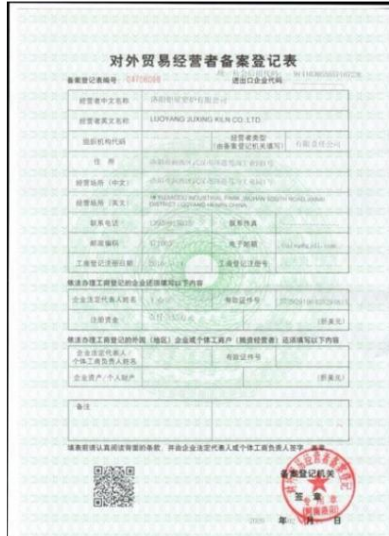
It enjoys a high reputation in the industry.

All kinds of electric furnace kiln with high degree of automation have been sold to more than 20 provinces, cities, autonomous regions and special zones, national key colleges and universities, state key laboratories, Chinese Academy of Sciences, senior high schools and other research institutes, and have been exported to North America, Russia, Philippines, Japan and other countries, enjoying a high reputation in the same industry.

2. Honors of qualification



Business License



Export License



High-tech Enterprise



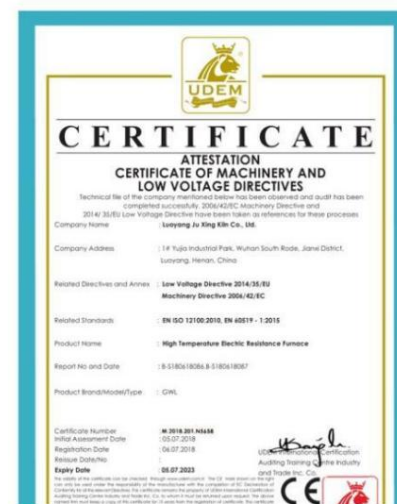
ISO 9001



CE (Rotary Kiln)



CE (Vacuum Furnace)



CE (Resistance Furnace)



Product Patent



CE (Gas Purification)

	GWDL Series Energy-Saving Tunnel-Type Resistance Furnace	
Project Unit		GWDL-500SRK
		Option 2
Product price: RMB		
Maximum temperature $^{\circ}\text{C}$		500 degrees (designed maximum temperature up to 600 degrees).
Normal work temperature	$^{\circ}\text{C}$	450 degrees
Voltage/Number of Phases (V/Phase)		400-415VAC
Rated heating power Rate	kW	450
Furnace dimensions (mm)		22000*1300*250
crucible size (Crucible wall thickness 5mm)	mm	500*250*150
Number of crucibles		25
Crucible raw material loading Material quantity	Kg	twenty four
stick material	AL2 O3	Stainless steel 304 rod + stainless steel 310 rod
Roller diameter (mm)		$\varnothing 50$
sticks off the ground Spend	mm	835
heating element		High-temperature alloy resistance wire
Furnace structure and Material		The electric furnace body adopts an advanced air-cooled double-layer carbon steel furnace body structure, and the effective air-cooled guide baffles make the furnace shell as a whole The cold air is circulated and finally cooled before being discharged from the furnace, thus preventing the conductive plates of the heating element from overheating. Oxidation; ensures a good working environment.

<p>Safety temperature control system</p>	<p>The thyristor module employs closed-loop technology for trigger control, using phase-shift trigger control or zero-crossing triggering, to control the output voltage.</p> <p>The current or power is continuously adjustable, exhibiting constant voltage, constant current, or constant power characteristics; the current loop is the inner loop, and the electrical...</p> <p>The pressure ring is an outer ring that limits the output current of the voltage regulator to within the rated current when a sudden load is applied or the load current exceeds the current limit value.</p> <p>Within the constant current range, ensure the normal operation of the output and voltage regulator; simultaneously, the voltage loop also participates in the regulation, ensuring the voltage regulator...</p> <p>The output current is limited within the rated current range, maintaining the output current while having sufficient adjustment margin.</p> <p>And maintain a constant voltage; thereby protecting the heating element from excessive current and voltage surges, achieving safety.</p> <p style="text-align: center;">It relies on the control effect and control precision.</p>		
<p>Refractory insulation materials material</p>	<p>The furnace lining is made of vacuum-formed high-purity alumina lightweight material, which has high operating temperature, low heat storage, and is resistant to rapid heating.</p> <p>Rapid heating and cooling, no cracking, no flaking, and good thermal insulation performance.</p>		
<p>Temperature curve setting Certainty</p>	<p>It adopts an intelligent temperature controller, equipped with multiple adjustment modes such as standard PID, artificial intelligence adjustment APID, or MPT.</p> <p>It features self-tuning and self-learning capabilities, excellent control characteristics with no overshoot and no undershoot, and is equipped with 30-segment programmable control.</p> <p>It features temperature control with arbitrary slope, and includes jump (cycle), run, pause, and stop functions.</p> <p>It supports programmable/operable commands and allows modification of the program at any time during its controlled operation; it employs curve-based...</p> <p style="text-align: center;">The AI-powered adjustment algorithm for fitting functions can achieve smooth and even curve control effects.</p>		
<p>Temperature zone</p>	<p style="text-align: center;">5</p>		
<p>Temperature control points</p>	<p style="text-align: center;">20</p>		
<p>Temperature control accuracy (°C)</p>	<p style="text-align: center;">$\dot{y} \pm 1$</p>		
<p>Furnace cross-sectional temperature Difference</p>	<p style="text-align: center;">\ddot{y}</p>	<p style="text-align: center;">$\dot{y} \pm 5$</p>	
<p>thermocouple</p>	<p>gradation Number</p>	<p style="text-align: center;">K-type thermocouple</p>	
<p>Temperature control method: Independent temperature control point, using imported (domestic) intelligent temperature controller, PLD adjustment, and SCR control.</p>			
<p>Dimensions of each temperature zone</p>			
<p>Speed range</p>	<p>mm/ min</p>	<p>0-72.5mm/min — Temperature control point (top and bottom heating)</p>	<p style="text-align: center;">Number of temperature control points</p>
<p>0-100\dot{y}</p>	<p style="text-align: center;">2000mm</p>	<p style="text-align: center;">50kW</p>	<p style="text-align: center;">2</p>
<p>100-100\dot{y}</p>	<p style="text-align: center;">3000mm</p>	<p style="text-align: center;">70kW</p>	<p style="text-align: center;">3</p>
<p>100-450\dot{y}</p>	<p style="text-align: center;">5000mm</p>	<p style="text-align: center;">100kW</p>	<p style="text-align: center;">5</p>
<p>450-450\dot{y}</p>	<p style="text-align: center;">5000mm</p>	<p style="text-align: center;">130kw</p>	<p style="text-align: center;">5</p>
<p>450-200\dot{y}</p>	<p style="text-align: center;">5000mm</p>	<p style="text-align: center;">100KW</p>	<p style="text-align: center;">5</p>
<p>Import and export loading end</p>	<p style="text-align: center;">2000mm</p>	<p style="text-align: center;">0</p>	

Chief	22000mm	¥450kw	
crucible price		RMB 26,250	
Crucible tilting equipment		RMB 30,000	
Electric furnace price		RMB 1,100,000	
Domestic shipping costs		RMB 20,000	
Total price	RMB 1,176,250 (FOB Shanghai, approximately two containers (40 TEUs))		
Safety Protection: 1. Metal protective cover. 2. Over-temperature alarm (automatic shutdown upon exceeding the temperature limit). 3. Heating rod breakage alarm.			
cable	Includes 5 meters of cable free of charge, plus an additional 1 meter (compliant with Australian standards).		
Corrosion-resistant furnace material sex	The furnace lining is already corrosion resistant.		
Intelligent control system	PLC (Siemens)		
Water vapor quantity			
air outlet	Can be added in different temperature zones		
drawing	Within two weeks of receiving a 10% prepayment, we will provide (3D renderings, overall furnace design drawings, and structural diagrams).		
Payment methods	Payment is due 10% upon contract signing, 40% upon drawing confirmation, and 50% before shipment.		
quality assurance	<p>The equipment is under warranty for one year (excluding consumable parts and damage caused by human factors). During the warranty period, all parts designed and manufactured by the supplier are covered.</p> <p>For quality problems caused by manufacturing defects, the supplier shall be responsible for free repairs. If the quality problems are caused by improper use by the buyer, the supplier shall be responsible for free repairs.</p> <p>If a fault occurs, the supplier is responsible for repairs, and the cost shall be borne by the buyer.</p> <p>If the equipment malfunctions after the warranty period expires, the supplier shall be responsible for the repair, and the cost shall be borne by the buyer.</p>		
Precautions			
<p>1. To avoid affecting the lifespan of the electric furnace, it is recommended that the maximum heating and cooling rates be 1-15$\dot{\text{y}}$/min (for high-temperature heating).</p> <p>(Excessive heating will shorten the lifespan of the heating element)</p>			
<p>2. This box furnace does not have a vacuum sealing structure, so flammable and explosive gases must not be introduced.</p>			
<p>3. After a period of use, minor cracks may appear in the furnace chamber of this box-type furnace. This is normal and will not affect its use.</p> <p>It can also be repaired with an alumina coating.</p>			
<p>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, and we will take appropriate measures.</p> <p>The furnace undergoes special treatment.</p>			

Recommended spare parts quantity (1 year):

Serial Number	Product Name	Unit	Quantity	Unit Price	Total Price
1.	Thermocouple		5	525	
2	U-shaped resistance wire + quartz protective tube sleeve		10	1350	
3.	Crucible		10	1050	
4	rollers 304	Root	10	550	
4-	roller 310S	root	10	1250	
5.	Transmission gears	Set	10	850	
6.	Drive motor + reducer + chain table		1	4500	
	SCR power regulator	Taiwan	4	2150	
	High-precision temperature control instrument	Taiwan	4	1850	
	frequency converter	Taiwan	1	2550	