

# 洛阳旭星窑炉有限公司

Luoyang Juxing Kiln Co., Ltd.

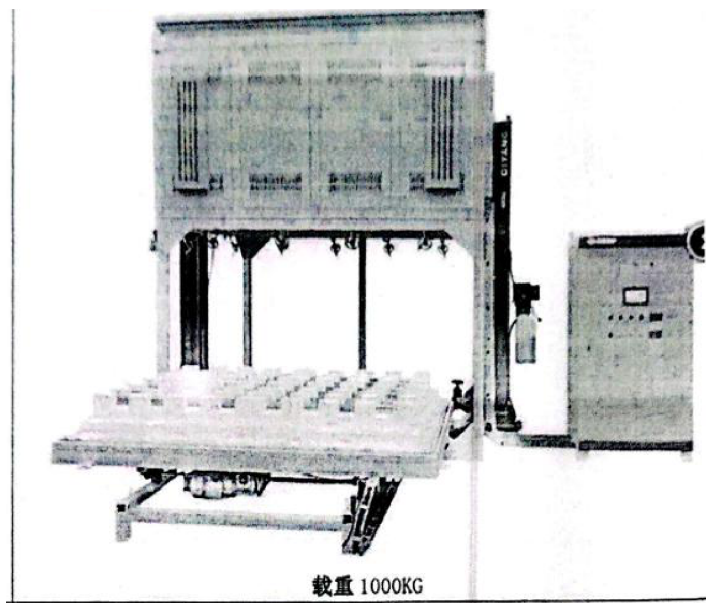
Permanent Domain: GWDL (Initials of High Temperature Electric Furnace) | National Toll-Free Hotline: 400-668-1868

Parameters	
Model	GWL-1000SS
External Dimensions (mm)	6000 * 3500 * 3000
Furnace Dimensions (mm)	2500 * 2300 * 800
Air Switch	400A
Power Line (mm <sup>2</sup> )	185
Design Power	240KW Power automatically adjusted based on the heating rate
Power Supply AC	Three-phase five-wire 380V
Long-term Operating Temp	1000 degrees
Temperature Sensor	K-type thermocouple, measuring range 0-1350 degrees
Heating Element Placement	Four sides + Top + Bottom, heating on a total of six sides
Control Accuracy	±1 degree (Integrated circuit control, no overshoot phenomenon)
Temperature Uniformity	±8-10 degrees, 4 control zones, 4 measurement points
Heating Rate	Heating rate is freely adjustable. Adjustment range: fastest heating rate 15 degrees/min, slowest heating rate 1 degree per hour (1 degree/h)
Heating Element	<b>High-temperature alloy resistance wire</b>
Furnace Body	The furnace body is processed by CNC machine tools, through polishing, sanding, pickling, phosphating, electrostatic powder spraying, high-temperature baking, etc. Two-color matching, novel and beautiful appearance, with oxidation resistance, acid and alkali resistance, corrosion resistance, high temperature resistance, easy cleaning, etc. Excellent quality, mirror paint finish.
Furnace Structure	The furnace body adopts the internationally advanced air-cooled double-layer furnace structure. The effective air duct guides the air between the furnace shells to cool the furnace body. Finally, the cooling element leads out the terminal block, avoiding high-temperature oxidation of the heating element terminal; ensuring a good working environment.
Upper Furnace Travel Mode	In and out using stepless speed reduction motor, speed adjustable.
Upper Furnace Lifting	The loading platform lifting adopts double screw rod lifting. The screw rod positions are on both sides, avoiding high temperatures and providing higher precision.
Furnace Mouth & Loading Platform Seal	The furnace mouth and loading platform refractory materials are cross-sealed with a step-type design. The materials are evenly stressed from top to bottom. As the loading platform starts to move, the gap increases; as the loading platform closes, the gap gradually decreases.
Loading Platform	The loading platform is designed as a heat storage furnace bottom, and the resistance wire is embedded in the refractory material.



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**Load Capacity: 1000KG**

<b>Air Intake</b>	Adopt float flowmeter for air intake (D16mm corundum tube), two air inlets adopt 200 float flowmeter adjustable, disc-type air intake, evenly distributed 20 T-shaped.
<b>Internal Pressure Detection</b>	500Pa, digital display
<b>Exhaust Port</b>	The top of the furnace is designed with an exhaust port, which can be linked with the temperature curve to realize system control opening and closing.
<b>Refractory Materials</b>	The furnace lining adopts vacuum-formed high-purity alumina polycrystalline fiber board material, which is corrosion-resistant, acid and alkali resistant, and the material is not easy to collide (bottom). High-purity lightweight hollow sphere alumina board is used, with high operating temperature, small heat storage, resistance to rapid cooling and heating, no cracking, no slagging, and good thermal insulation performance (energy saving effect is more than 80% of the old electric furnace).
<b>Oxygen Monitoring</b>	10ppm - 21%
<b>Vacuum Degree</b>	-0.1Mpa Mechanical oil rotary vane pump
<b>Ventilation Atmosphere</b>	Nitrogen, Argon
<b>Insulation Material</b>	Three-layer insulation is adopted, namely: 1350 high aluminum cotton, domestic 1200 alumina fiber board, 1400 fiber board, the energy saving effect is more than 80% of the old electric furnace, and the furnace mouth position is easy to collide with high-purity alumina lightweight special-shaped refractory materials.
<b>Outer Shell Temperature</b>	Long-term use without stopping, the outer shell temperature is less than 45 degrees.
<b>Protection</b>	Adopt integrated module control unit, high control precision, and design double-circuit control and double-circuit protection, with over-temperature, over-current, under-current, phase loss, segment, phase sequence, over-pressure, over-temperature, current feedback, soft start and other protections.
<b>Dual Control</b>	Adopt two sets of closed-loop technology SCR module control, phase-shift trigger control mode, output voltage, current and power are continuously adjustable, with constant voltage, constant current or constant power characteristics; the current loop is the inner loop, the voltage loop is the outer loop, when the sudden load or load current exceeds the limit value, the output current of the regulator is limited within the rated current range to ensure the normal operation of the equipment and the regulator; at the same time, the voltage loop also participates in the adjustment, so that the output current of the regulator is limited within the rated current range, and the output voltage and current are maintained under the premise of sufficient adjustment margin; so as to achieve protection of the heating element and avoid overheating.



Avoid the impact of high current and voltage to achieve safe and reliable control effects and control precision.

### Cables and Water Cooling Provided by Customer

<b>Warranty Scope and Period</b>	Electric furnace free warranty for one year, heating elements are not covered by warranty.
<b>Packing List</b>	One electric furnace, two sets of heating element spare parts, one instruction manual, one certificate of conformity, one inspection report (factory inspection report), and one sales delivery note.

