



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



咨询电话
400-668-1868
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Core technical specifications of GWDL-1000 degree three-temperature zone inclined rotary tube electric furnace





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Temperature Item	1000y
Voltage AC Voltage AC	380V/50HZ
Maximum operating temperature Max Working Temperature (long-	1000y
term operating temperature) Long-term -Working Temperature	1000y
Temperature control accuracy Temperature Control Accuracy	±1y
Furnace Tube Material	310S Stainless steel
Quartz tube heating zone length Quartz Tube*Heating Zone Length	Furnace tube diameter 120 * heating zone 1500mm Furnace Tube Diameter120*Heating Area 1500mm
Rotation speed Spin Velocity Furnace	Adjustable from 1-10 r/min
Tube Tilting Angle	0-10 degree adjustable
Inclination Angle of Furnace Tube	Adjustable from 0 to 10
Feeder rotation Feed MachineRotation	Adjustable from 0 to 5 revolutions, using a variable frequency drive with digital display control (feeding rate of 0.5 to 3 kg/h, material bulk density of 0.5 tons per cubic meter).



Furnace tube rotation Furnace Tube Rotation	Adjustable from 0-10 RPM, using a frequency converter, digital display adjustment. Adjustable from 0 to 10 revolutions, using a variable frequency drive With digital display control. The inlet and
seal Seal	outlet are equipped with rotary seals. The feed inlet and outlet use rotary seals. (One inlet and one nitrogen
air intake Air Intake	flow meter) One air inlet and one nitrogen flow meter
Temperature control point Temperature Control Point	Three, three sets of temperature control systems 3 units, three sets of temperature control systems
Temperature sensing element and temperature measurement range Temperature Measuring Element and Range	K-type thermocouple Type K thermocouple
Number of program curve segments Number of Programming curve segments	30 paragraphs
Furnace body structure and materials Furnace structure and material	The electric furnace body adopts an advanced air-cooled double-layer carbon steel furnace body structure. The effective air-cooled guide baffles enable the overall cold air circulation in the furnace shell, which finally cools the conductive plates of the heating element and then discharges them from the furnace body, avoiding high-temperature oxidation of the conductive plates of the heating element and ensuring a good working environment. The electric furnace adopts the advanced air-cooled double-layer carbon steel furnace structure, and the effective air-cooled guide partition circulates the whole cold air of the furnace shell, and finally cools the conductive sheet of the heating element and exits the furnace body, avoiding the high-temperature oxidation of the conductive sheet of the heating element. Ensure a good working environment.
Refractory insulation materials Refractory insulation material	The furnace lining is made of vacuum-formed high-purity alumina lightweight material, which has high operating temperature, low heat storage, resistance to rapid heating and cooling, no cracking, no slag shedding, and good heat preservation performance. The furnace lining is made of vacuum forming high-purity aluminum oxide polymer material, which has high temperature, low heat storage, resistance to acute heating and cooling, no crack, no slag, and good thermal insulation performance.



<p>Safe temperature control</p> <p>Within the Safe 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, and it features constant voltage, constant current, or constant power. 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 to within the rated current range.</p> <p>Ensure the output and voltage regulator are functioning properly; simultaneously, the voltage loop also participates in regulation, limiting the voltage regulator's output current within the rated current range.</p> <p>the output current and voltage are maintained constant with sufficient adjustment margin, thereby protecting the heating element from excessive current and electrical shock.</p> <p>The impact of</p> <p>pressure achieves a safe and reliable control effect and control accuracy.</p>
	<p>Closed-loop technology thyristor module trigger control, phase-shift trigger control or zero-crossing trigger mode, output voltage, current or power continuously adjustable, with constant voltage, constant current or constant power characteristics; The current ring is the inner ring and the voltage ring is the outer ring. When the load is suddenly added or the load current exceeds the current limit value, the output current of the voltage regulator is limited to the rated current range to ensure that the output and voltage regulator work normally. At the same time, the voltage ring is also involved in the regulation, so that the output current of the regulator is limited within the rated current range, and the output current and voltage are maintained under the premise of sufficient adjustment margin. Thus to protect the heating element from excessive current and voltage impact, achieve success</p> <p>Safe and reliable control effect and accuracy. Adjustable from</p>
<p>heating rate</p> <p>Heating Rate</p>	<p>1ÿ/h to 30ÿ/min.</p> <p>Adjustable from 1ÿ/h to 30ÿ/min. High-temperature</p>
<p>Heating Element</p> <p>Heating Elements</p>	<p>alloy resistance wire.</p> <p>High-temperature alloy resistance wire</p>
<p>Location of heating element</p> <p>Locating of Heating Elements</p>	<p>Installation location: around the furnace tube, horizontal with the furnace tube.</p> <p>Installation position around the furnace tube, horizontally aligned with the furnace tube.</p>



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<p>Temperature profile setting Temperature curve setting</p>	<p>Employing an intelligent temperature controller, it offers multiple adjustment modes including standard PID, AI-based APID, or MPT. It features self-tuning and self-learning capabilities, excellent control characteristics with no overshoot or undershoot, and 30-segment programmable control. It can achieve arbitrary slope temperature rise and fall control and includes jump (loop), run, pause, and stop functions. Programmable/operable commands, allowing modification of the program at any time during its controlled operation; employs curve fitting functionality. The intelligent artificial intelligence adjustment algorithm can achieve a smooth and even curve control effect.</p> <p>Intelligent temperature controller, equipped with standard PID, artificial intelligence to adjust APID or MPT and other adjustment methods, with self-tuning, self-learning function, no overshoot and no undermodulation of excellent control characteristics, with 30 program control function, can achieve any slope of rise and drop temperature control. It has programmable/operable commands such as jump (loop), run, pause and stop, and allows modification of the program at any time during the control operation of the program; Using artificial intelligence adjustment algorithm with curve fitting function, smooth curve control</p> <p>The effect can be obtained.</p>
<p>Furnace body temperature Furnace Temperature</p>	<p>ÿ45ÿ</p>
<p>Computer Interface Computer Interface Warranty</p>	<p>RS485 RS232 USB</p>
<p>Coverage and Period Warranty Scope and Duration</p>	<p>The electric furnace comes with a one-year free warranty (heating elements and furnace tubes are not covered by the warranty). The package includes an instruction manual, a certificate of</p>
<p>Random accessories Random Accessories</p>	<p>conformity, a crucible tong, and a pair of high-temperature gloves.</p>