

GWDL-1000 度三温区倾斜旋转管式电炉核心技术指标



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温度 Temperature 项目 Item	1000℃
电压 AC Voltage AC	380V/50HZ
最高工作温度 Max Working Temperature	1000℃
长期工作温度 Long-term -Working Temperature	1000℃
控温精度 Temperature Control Accuracy	±1℃
炉管材质 Furnace TubeMaterial	310S Stainless steel
石英管*加热区长度 Quartz Tube*Heating Zone Length	炉管直径 120*加热区 1500mm Furnace Tube Diameter120*Heating Area 1500mm
旋转速度 Spin Velocity	1-10r/min 可调
炉管倾斜角度	0-10 度可调

Inclination Angle of Furnace Tube	Adjustable from 0 to 10 °
喂料机旋转 Feed MachineRotation	0-5 转可调, 采用变频器, 数显调节(投料速度 0.5-3kg/h, 物料堆积密度 0.5T/ 立方米) 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).

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炉管旋转 Furnace Tube Rotation	0-10 转可调，采用变频器，数显调节 Adjustable from 0 to 10 revolutions, using a variable frequency drive with digital display control.
密封 Seal	进料口和出料口采用旋转密封 The feed inlet and outlet adopt rotary seals.
进气口 Air Intake	一个进气口和一个氮气流量计 One air inlet and one nitrogen flow meter
控温点 Temperature Control Point	3 个，三套控温系统 3 units, three sets of temperature control systems
测温元件及测温范围 Temperature Measuring Element and Range	K 型热电偶 Type K thermocouple
编程曲线段数 Number of Programming curve segments	30 段
炉体结构和材质 Furnace structure and material	电炉炉体采用了先进的风冷双层碳钢炉体结构，有效的风冷导向隔板使炉壳整体冷风循环，最终冷却发热元件导电片后排出炉体，避免了发热元件导电片的高温氧化；保证了良好的工作环境。 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.
耐火保温材料 Refractory insulation material	炉衬使用真空成型高纯氧化铝聚轻材料制作而成，使用温度高，蓄热量小，耐急热急冷、不裂缝、不掉渣、保温性能好。 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.

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安全温度控制 Safe temperature control	采用闭环技术可控硅模块触发控制，移相触发控制或者过零触发方式，输出电压、电流或功率连续可调，具有恒电压、恒电流或恒功率的特性；电流环为内环，电压环为外环，在突加负载或负载电流超过限流值时，限制调压器的输出电流在额定电流范围内，确保输出和调压器正常工作；同时电压环也参与调节，使调压器的输出电流被限制在额定电流范围内，在有充分调节余量的前提下维持输出电流及电压的恒定；从而到达保护发热元件避免过大电流、电压的冲击，达到安全可靠的控制效果及控制精度。
	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, to achieve safe and reliable control effect and control accuracy.
升温速率 Heating Rate	1℃/h 至 30℃/min 可调 Adjustable from 1℃/h to 30℃/min.
发热元件 Heating Elements	高温合金电阻丝 High-temperature alloy resistance wire
发热元件位置 Locating of Heating Elements	安装位置炉管四周，与炉管水平 Installation position around the furnace tube, horizontally aligned with the furnace tube.

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温度曲线设定 Temperature curve setting	采用智能温度控制仪，备标准 PID、人工智能调节 APID 或MPT 等多种调节方式，具有自整定、自学习功能，无超调及无欠调的优良控制特性，具备 30 段程序控制功能，可实现任意斜率的升、降温控制，具有跳转（循环）、运行、暂停及停止等可编程/可操作命令，并允许在程序的控制运行中随时修改程序；采用具备曲线拟合功能的人工智能调节算法，能获得光滑平顺的曲线控制效果。 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 effect can be obtained.
炉体温度 Furnace Temperature	≤45℃
计算机接口 Computer Interface	RS485 RS232 USB
保修范围及期限 Warranty Scope and Duration	电炉免费保修一年，（发热元件、炉管不保修） The electric furnace comes with a one-year free warranty, (heating elements and furnace tubes are not covered by the warranty).
随机配件 Random Accessories	说明书一份，合格证一份，坩埚钳一把，高温手套一副 One instruction manual, one certificate of conformity, one crucible tong, and one pair of high-temperature gloves

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