Technical Specifications and Price of GWL-1400GA Rotary and Tilting Tube Furnace

Technical Specifications:

temperature / project	1400ÿ
Voltage AC power	380V
	15KW
temperature control accuracy	±1ÿ
Furnace tube material	The outer tube is made of recrystallized silicon carbide, D200*1900. The quartz tube has a diameter of 60mm at both ends and a diameter of 180*1300mm in the middle. Total length 1950.
Heating zone	1300mm
temperature	Ensure that the constant temperature zone has three temperature control zones, each of which can be controlled independently.
control rotation	Mechanical bearing transmission, capable of automatic rotation

Rotation speed,	Adjustable from 0-5 r/min
furnace tube tilt angle	Electric tilt 0-20 degrees
touchscreen	Centralized control via a 10-inch touchscreen (each temperature increment can be set via a Siemens PLC on the touchscreen). Control (2 gas paths, 1 vacuum path, etc.)
The sealing flanges and valve sealing flanges are made of stainless steel. It features a 2-way inlet solenoid valve, a 1-way outlet solenoid valve, and a 1-way vacuum valve.	
Rotary joints at both ends,	The flanges at both ends of the furnace tube are made of 316L stainless steel, and the rotary joint uses a magnetic fluid seal.
vacuum pump,	Direct-drive double-stage vacuum pump 2L/S
vacuum gauge,	Digital vacuum gauge - 100 to 100 kPa (controllable micro-positive pressure sintering process)
gas inlet flow meter,	Nitrogen, argon, oxygen, etc.
temperature	Route 2
control accuracy,	Two Qixing mass flow meters (0-10L/min)
furnace temperature	±1 degree (integrated circuit control, no overshoot)
field uniformity, temperature	±3ÿ (depending on the size of the heating chamber)
measuring element, and temperature measurement range.	Thermocouple type S, temperature range 0-1600 degrees Celsius
Heating rate	Adjustable from 1ÿ/h to 10ÿ/min
heating element	High-temperature silicon carbide rod
Multiple curve inputs	The 30-segment programmable control function allows for input settings: 30 segments for one curve, 14 segments per curve. Three curves can be input with 9 segments each, and five curves can be input with 5 segments each; multiple curves can be input simultaneously and adjusted arbitrarily during use. use.
Temperature profile setting	It adopts an intelligent temperature controller, equipped with multiple adjustment modes such as standard PID, artificial intelligence adjustment APID, or MPT. 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. It features temperature control with arbitrary slope, and includes jump (cycle), run, pause, and stop functions. It can provide programmable/operable commands and allows modification of the program at any time during its controlled operation; it employs... The AI-powered adjustment algorithm for curve fitting can achieve smooth and even curve control. Control effect;
Protect	An integrated modular control unit is adopted, ensuring accurate control precision. Dual-loop control and dual-loop protection are also designed. It features overshoot, overshoot, undershoot, thermocouple, phase loss, overvoltage, overcurrent, overtemperature, current feedback, and soft start. Animal protection

control	Employing closed-loop technology with thyristor module trigger control, phase-shift trigger control, or zero-crossing triggering, the output voltage, current, or power is continuously adjustable, exhibiting constant voltage, constant current, or constant power characteristics. 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 the rated current range, ensuring normal operation of the output and the voltage regulator. Simultaneously... The voltage loop also participates in the regulation, limiting the output current of the voltage regulator within the rated current range, and maintaining a constant output current and voltage with sufficient adjustment margin; thereby protecting the heating element from excessive current. The system effectively mitigates the impact of current and voltage surges, achieving safe and reliable control with high precision. It employs
thermal insulation materials	a three-layer insulation system: 1200mm aluminum silicate fiberboard, 1400mm alumina fiberboard, and 1700mm alumina fiberboard. Aluminum (polycrystalline) fiberboard has an energy-saving effect of more than 80% compared to old-fashioned electric furnaces.
Furnace	The furnace body is tiltable and machined using CNC machine tools, undergoing polishing, grinding, pickling, phosphating, powder coating, and high-temperature baking. It features a two-tone design, a novel and attractive appearance, and possesses antioxidant and acid/alkali resistance properties. Advantages include corrosion resistance, high temperature resistance, and easy cleaning.
body cooling structure	Double-layer furnace shell, air-cooled
Furnace body temperature	ÿ45 degrees
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 (heating element is exempt from warranty if it fails naturally within three months). (Replacement fee)
Random spare parts	One instruction manual, one certificate of conformity, one crucible tong, one pair of high-temperature gloves, and one tube furnace-specific crucible. One, two sealing rings