



High Temperature Vacuum Sintering Furnace For Silicon Carbide Sintering

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: OEM
- Certification: CE Certification
- Model Number: OEM
- Minimum Order Quantity: Negotiable
- Price: Negotiable
- Packaging Details: Carton, pallet, wooden case or according to customer's package requirements
- Delivery Time: 30 working days
- Payment Terms: 30% deposit + 70% T/T before shipping
- Supply Ability: 20 sets per month



Product Specification

- Name: Vacuum Sintering Furnace
- Feature: Convenient
- Dimension(L*W*H): Custom
- Cooling Method: Internal Circulation Cooling
- Max Operating Temp: 2380 ° C
- Application: Silicon Carbide, Ceramics
- Highlight: **vacuum tempering furnace, high vacuum furnace**

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Product Description

High Temperature Vacuum Sintering Furnace For Silicon Carbide Sintering

Vacuum Sintering Furnace introduction

Vacuum Sintering Furnace is specially adapted to the automated production equipment of silicon carbide pressureless (normal pressure) sintering. The equipment adopts the constant temperature field optimization design, which has the functions of removing the forming agent-vacuum sintering-pressureless sintering in the furnace once. The furnace can adapt to various atmospheres and is suitable for the production of silicon carbide and silicon nitride. The process is simple to prepare, the pressure in the furnace, the degree of vacuum and the atmosphere are effectively and accurately controlled. The temperature field in the furnace is uniform and the design of the sintering chamber is reasonable. It is an advanced ultra-high temperature sintering equipment capable of both pressureless sintering and low vacuum sintering.

Vacuum Heat Treatment Furnace Application:

Mainly used for vacuum, atmosphere sintering of silicon carbide, ceramics, cemented carbide, powder metallurgy, tungsten, molybdenum, AlNiCo permanent magnet, SmCo5, Sm2Co17 and aluminum alloy shed, titanium alloy and other alloy materials.

Vacuum Sintering Furnace parameters:

Maximum operating temperature: 2380 °C

Common temperature: 2280 °C

High temperature zone volume: 200-2000mm × 300-4000mm; or square

Heating method graphite tube squirrel cage structure

Temperature control accuracy: ±1 °C

Temperature control mode: WRe5/26 thermocouple (0-1700 °C) + US RATEK dual colorimetric infrared thermometer (1000-3200 °C)

Power adjustment mode thyristor phase shift adjustment

Cooling method

Cooling water temperature <35°C

The Vacuum Sintering Furnace has a measurement record function, which can record 10,000 times of data, and the data can be queried through the historical curve;

Adopt Taiwan imported power regulator, very complete thyristor overload, short circuit and overvoltage protection;

Multi-channel data acquisition of the whole machine, and display and operation on the man-machine interface, the operating parameters of the whole machine are clear at a glance and easy to operate;

Furnace body: double-layer water-cooled structure, which can pump vacuum under vacuum; has vacuum pipe interface, increase vacuum failure valve, and inflating hole;

Uniform temperature: graphite rod combined heating method, good temperature uniformity;

Convenient operation: the furnace body is horizontal, double front and rear doors, convenient for loading and unloading, and easy to operate.

Volume (L)	150	274	452	769
Rated temperature (°C)	2280	2280	2280	2280
Limit temperature (°C)	2380	2380	2380	2380
Power (KW)	180	250	300	500
Temperature control method	Japanese island electric thermostat			
heating method	Resistance heating			
Vacuum system	Spool valve vacuum pump + Roots vacuum pump (vacuum degree requires high oil distribution diffusion pump)			
Sintering atmosphere	N2, Ar2, etc.			
Rated power supply voltage (V)	380			
Rated heating voltage (V)	According to the design, configure the furnace transformer			
Vacuum limit (Pa)	40 (vacuum cold state)			

