

Vacuum Tube Hot Press Furnace

Item Number: KT-VTP



Introduction

Reduce forming pressure & shorten sintering time with Vacuum Tube Hot Press Furnace for high-density, fine-grain materials. Ideal for refractory metals.

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Hydraulic press	Working pressure: 0-30Mpa Travel distance: <50mm Pressure stability: $\leq 1\text{MPa}/10\text{min}$ Pressure meter: Digital pressure gauge Drive solution: Electric drive with standby manual drive
Vertical split furnace	Working temperature: $\leq 1150^\circ\text{C}$ Heating element: Ni-Cr-Al resistance wire with dipped Mo Heating speed: $< 15^\circ\text{C}/\text{min}$ Hot zone length: 300mm Constant temperature zone: 100mm Controller: Touch screen with PID thermal controller Rated power: 2200W
Vacuum furnace tube	Tube material: Quartz tube(Optional Alumina/Nickel alloy) Tube diameter: 100mm(Optional 120/160mm) Vacuum sealing: SS flange with silicon O ring Flange cooling method: Inter layer water circulating cooling
Graphite pressing die	Die material: High purity graphite (Graphite must work under vacuum to prevent oxidation) Pressure rod diameter: 87mm Sleeve die size: 55mm OD/ 50mm Height Die inserts: OD22.8 x ID20.8 Pushing Rod: 12.7mmOD/40mm Height Other sizes die can be customer made
Vacuum pump setup	Rotary vane pump vacuum is up to 10 ⁻² torr Turbo pump station vacuum is up to 10 ⁻⁴ torr
Electric power supply	AC110-220V, 50/60HZ