

# 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	<p>Working pressure: 0-30Mpa          Travel distance: Pressure stability: <math>\leq 1\text{MPa}/10\text{min}</math>          Pressure meter: Digital pressure gauge          Drive solution: Electric drive with standby manual drive</p>
Vertical split furnace	<p>Working temperature: <math>\leq 1150^\circ\text{C}</math>          Heating element: Ni-Cr-Al resistance wire with dipped Mo          Heating speed: Hot zone length: 300mm          Constant temperature zone: 100mm          Controller: Touch screen with PID thermal controller          Rated power: 2200W</p>
Vacuum furnace tube	<p>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</p>
Graphite pressing die	<p>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</p>
Vacuum pump setup	<p>Rotary vane pump vacuum is up to 10<sup>-2</sup> torr          Turbo pump station vacuum is up to 10<sup>-4</sup> torr</p>
Electric power supply	<p>AC110-220V, 50/60HZ</p>