

PRODUCT DATA SHEET

Vacuum Tempering Furnace

Vacuum Tempering Furnace is used for controlled tempering of titanium alloy components. Design temperature reference: up to 1100°C.



OVERVIEW

Product Overview

The Vacuum Tempering Furnace is built for controlled tempering of titanium alloy components. It emphasizes process repeatability, stable thermal distribution and practical automation for day-to-day industrial heat treatment.

The configuration can be optimized for part loading, production cadence and required metallurgical response. It supports repeatable shop-floor operation without sacrificing temperature control quality.

MANUFACTURER

Yuanhang Industrial Furnace

Customized Furnace Engineering

Supplier of customized vacuum, atmosphere, graphitization, carbonization, sintering, brazing and CVD equipment with configurable structure, hot-zone dimensions and automation packages.

Contact Information

Phone: +86 15115399105

Website: <https://www.hnyhgyl.com>

Location: China, Zhuzhou, Hunan

TECHNICAL FEATURES

Technical Features

Supports controlled tempering cycles for strength and stress balance.

Suitable for steel parts requiring repeatable thermal treatment.

Focused on stable temperature distribution and plant-ready operation.

Can be configured according to batch volume and part geometry.

APPLICATIONS

Typical Applications

- titanium alloy components
- steel tempering
- post-hardening heat treatment
- stress-balanced metal components

TECHNICAL DATA

Technical Data Tables

TABLE 1

有效区尺寸 (mm)	Loading Capacity (kg)	发热材料	Heating Power (kw)	最高 Temperature (°C)	Ultimate Vacuum度 (pa)	气冷压强 (bar)
300X300X500	100	镍铬或High Temperature钼	60	700 / 1100	5X10 ⁻³	2
400X400X600	200		80			
500X500X800	350		100			
600X600X1000	500		135			
800X800X1500	1000		240			
1000X1000X2000	2000		400			

REFERENCE DATA

Reference Information

Product

Vacuum Tempering Furnace

Process Type

Tempering

Temperature Reference

1100°C

Manufacturer

China | Zhuzhou Yuanhang Industrial Furnace Technology Co., Ltd.

Website

<https://www.hnyhgy.com>

Contact

+86 15115399105

COMPANY PROFILE

Zhuzhou Yuanhang Industrial Furnace Technology Co., Ltd.

Manufacturer of High-Temperature Industrial Furnaces and Thermal Processing Equipment



Zhuzhou Yuanhang Industrial Furnace Technology Co., Ltd. (Yuanhang Industrial Furnace) is a manufacturing company based in China, Zhuzhou, Hunan, specializing in thermal processing equipment. Centered on heat treatment and high-temperature thermal engineering technologies, we provide customized equipment and complete process solutions for industrial and research applications.

With more than 10 years of dedicated industry experience, we have served over 100 customers. Our principal product portfolio covers graphitization furnaces, carbonization furnaces, vacuum sintering furnaces, silicon carbide sintering systems, CVD furnaces and related custom high-temperature process equipment.

Particular attention is given to practical automation. After the workpieces are loaded and the furnace door is closed, the programmed cycle can be started with one command, allowing the system to operate automatically through the defined process sequence. This helps improve repeatability and reduce dependence on operator experience.

For projects involving vacuum, ultra-high-temperature, brazing, carbonization, graphitization, sintering or CVD-related thermal processing equipment, Yuanhang Industrial Furnace can provide technical communication, configuration support and project-oriented engineering coordination.

- Graphitization and carbonization equipment for carbon materials, felt, carbon fiber and graphite products.
- Vacuum and atmosphere sintering systems for advanced ceramics, cemented carbide and refractory metals.



- Bottom-loading, multi-station and large-format CVD systems for demanding composite processing routes.
- Technical support for furnace selection, custom engineering, retrofit evaluation and process matching.

Sales Hotline

+86 15115399105

Technical Support

+86 15273391550

Website

<https://www.hnyhgyl.com>

Location

China, Zhuzhou, Hunan

This material is intended for product introduction and selection reference. Final configuration, dimensions and technical parameters are subject to the mutually confirmed technical proposal.