

PRODUCT DATA SHEET

# Vacuum Sintering Furnace

Vacuum Sintering Furnace is built for precise sintering of cemented carbide parts and advanced ceramic parts. Design temperature reference: up to 2500°C.



OVERVIEW

## Product Overview

The Vacuum Sintering Furnace is a configurable high-temperature processing system for cemented carbide parts and advanced ceramic parts. Based on the original Chinese product data, the equipment focuses on stable thermal fields, repeatable process control and scalable hot-zone design for pilot-scale or production-scale sintering.

Depending on the product route, the furnace can be matched around vacuum operation, protective atmosphere, loading capacity and control logic. It is suitable for customers who need process clarity from pilot validation to scaled production.

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

Designed for stable high-temperature sintering with configurable hot-zone dimensions.

Supports vacuum or atmosphere routes depending on material and process target.

Focused on temperature consistency, process repeatability and production practicality.

Can be matched to pilot development, experimental work or scaled manufacturing.

## APPLICATIONS

### Typical Applications

- cemented carbide parts
- advanced ceramic parts
- advanced ceramic sintering
- powder metallurgy densification
- high-performance structural parts

## TECHNICAL DATA

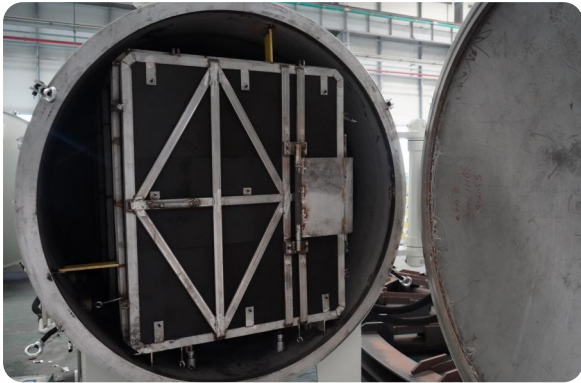
### Technical Data Tables

TABLE 1

Hot Zone Size ( $\phi \times H$ mm)	Ultimate Vacuum (Pa)	Max Temperature ( $^{\circ}C$ )	Temperature Uniformity ( $^{\circ}C$ )	Pressure Rise Rate (Pa/h)
$\Phi 200 \times 300$	$1 \times 10^{-3} / 1 \times 10^{-4}$	2400 - 2500	$\pm 7.5$	0.67
$\Phi 300 \times 600$	$1 \times 10^{-3} / 1 \times 10^{-4}$	2400 - 2500	$\pm 7.5$	0.67
$\Phi 400 \times 900$	$1 \times 10^{-3} / 1 \times 10^{-4}$	2400 - 2500	$\pm 10$	0.67

PRODUCT IMAGES

## Image Reference



Vacuum Sintering Furnace image 2



Vacuum Sintering Furnace image 3

REFERENCE DATA

## Reference Information

Product

**Vacuum Sintering Furnace**

Process Type

**Sintering**

Temperature Reference

**2500°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.