

PRODUCT DATA SHEET

# Vacuum Graphitization Furnace

Vacuum Graphitization Furnace is designed for stable graphitization of carbon fiber materials and graphite products. Design temperature reference: up to 2850°C.



## OVERVIEW

### Product Overview

The Vacuum Graphitization Furnace supplied by Yuanhang Industrial Furnace is engineered for graphitization, purification and ultra-high-temperature processing of carbon fiber materials and graphite products. It can be configured around chamber size, heating power, hot-zone layout, vacuum level and automation requirements to match laboratory, pilot-scale or industrial production tasks.

Typical engineering focuses include high design temperature, precise recipe control, uniform heating, efficient insulation and reliable operation under vacuum or inert atmosphere. The source data mentions temperature references up to 2850°C.

## 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

Configurable ultra-high-temperature design for pilot, laboratory or industrial production.

Stable vacuum or inert-atmosphere processing for carbon and graphite materials.

Process-oriented control of heating, soaking and cooling to improve repeatability.

Hot-zone layout can be matched to product geometry, throughput and maintenance needs.

## APPLICATIONS

### Typical Applications

- carbon fiber materials
- graphite products
- graphite purification
- carbon material upgrading
- high-temperature carbon processing

TECHNICAL DATA

# Technical Data Tables

TABLE 1

Heating Method	中频感应加热 (Induction)			电阻加热 (Resistance)		
Hot Zone Size (W×H×L mm)	700×700×1 500	800×800×1 600	1000×1000×2 000	1300×1300×2 000	1500×1500×3 000	2000×2000×4 000
Max Temperature (°C)	2850	2850	2850	2600	2600	2600
温度均匀性 (°C)	±15	±20	±20	±10	±15	±20
Ultimate Vacuum度 (Pa)	1 × 10 <sup>-2</sup>					
Pressure Rise Rate (Pa/h)	0.67					

PRODUCT IMAGES

## Image Reference



Vacuum Graphitization Furnace image 2

REFERENCE DATA

## Reference Information

Product

**Vacuum Graphitization Furnace**

Process Type

**Graphitization**

Temperature Reference

**2850°C**

Manufacturer

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

Website

**<https://www.hnyhgyl.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.