

PRODUCT DATA SHEET

# Laboratory Silicon Carbide Sintering Furnace

Laboratory Silicon Carbide Sintering Furnace is developed for controlled carbonization of graphite products, cemented carbide parts, advanced ceramic parts, and silicon carbide components. Design temperature reference: up to 2300°C.



## OVERVIEW

### Product Overview

The Laboratory Silicon Carbide Sintering Furnace is developed for staged carbonization of graphite products, cemented carbide parts, advanced ceramic parts, and silicon carbide components. It supports process matching around loading size, atmosphere protection, heating rate and cooling strategy so that users can build a stable batch or continuous thermal route according to product structure and output rhythm.

For users working with fibers, felt, films or carbon preforms, the furnace can be matched to process rhythm, gas handling and working-zone dimensions while maintaining stable thermal ramping and practical maintenance access.

## 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 staged carbonization with adjustable heating and atmosphere paths.

Suitable for felt, fiber, film and porous carbon precursor materials.

Configurable batch or continuous layouts according to production rhythm.

Designed for practical process stability, insulation efficiency and serviceability.

## APPLICATIONS

# Typical Applications

- graphite products
- cemented carbide parts
- advanced ceramic parts
- silicon carbide components
- precursor carbonization

## PRODUCT IMAGES

# Image Reference



Laboratory Silicon Carbide Sintering Furnace image 2

REFERENCE DATA

## Reference Information

Product

**Laboratory Silicon Carbide Sintering Furnace**

Process Type

**Carbonization**

Temperature Reference

**2300°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.