

PRODUCT DATA SHEET

Carbon-Ceramic Pyrolysis / Carbonization Furnace

Carbon-Ceramic Pyrolysis / Carbonization Furnace is designed for stable pyrolysis of carbon-ceramic composites and advanced ceramic parts. Design temperature reference: up to 2300°C.

Image available upon request

OVERVIEW

Product Overview

The Carbon-Ceramic Pyrolysis / Carbonization Furnace is designed for controlled thermal decomposition and pyrolysis of carbon-ceramic composites and advanced ceramic parts. It supports step-by-step process matching according to product geometry, volatile release behavior and production scale.

Users can match the process around volatile release, thermal staging, working-zone size and downstream product handling requirements.

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 thermal decomposition with staged temperature management.

Can be matched to volatile release behavior and part geometry.

Suitable for carbon precursor materials and related pyrolysis routes.

Focused on process stability and repeatable thermal treatment logic.

APPLICATIONS

Typical Applications

- carbon-ceramic composites
- advanced ceramic parts
- vacuum pyrolysis
- thermal decomposition
- carbon precursor treatment

TECHNICAL DATA

Technical Data Tables

TABLE 1

设计温度	2300°C (Working Temperature 2250°C)
Temperature Control Accuracy	±0.1°C (日本岛电智能化程序控温)
测温方式	钨铼热电偶 + 远红外线光学测温组件
工作Atmosphere	空气、VacuumSintering、还原Atmosphere (支持微正压运行)
炉膛形式	Horizontal前门出料 (圆形或方形炉膛可定制)
数据管理	西门子PLC数字化存储, 带通讯接口及无纸记录仪

REFERENCE DATA

Reference Information

Product

**Carbon-Ceramic Pyrolysis / Carbonization
Furnace**

Process Type

Pyrolysis

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.