

PRODUCT DATA SHEET

Large Horizontal Rectangular CVD / High-Temperature Furnace

Large Horizontal Rectangular CVD / High-Temperature Furnace is configured for high-temperature CVD processing of carbon-carbon composites and silicon carbide components. Design temperature reference: up to 2100°C.



OVERVIEW

Product Overview

The Large Horizontal Rectangular CVD / High-Temperature Furnace is intended for high-temperature chemical vapor deposition and related densification processes. It is aimed at carbon-carbon composites and silicon carbide components and can be arranged with multi-station, bottom-loading or large horizontal structures according to workpiece size and process continuity requirements.

For large or heavy workpieces, the system can be adapted around loading convenience, temperature uniformity and process continuity. It is aimed at customers who need dependable deposition conditions and engineering-oriented furnace structures.

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

Configured for deposition uniformity, hot-zone stability and workable loading structures.

Available for bottom-loading, multi-station or large-format furnace arrangements.

Suitable for densification, infiltration and high-temperature CVD processes.

Focused on engineering practicality for large or process-critical workpieces.

APPLICATIONS

Typical Applications

- carbon-carbon composites
- silicon carbide components
- CVD densification
- coating and infiltration
- composite material processing

TECHNICAL DATA

Technical Data Tables

TABLE 1

加热室结构	Horizontal方形 (等静压Graphite电阻加热)
最高/Working Temperature	2100°C / 2000°C
温度均匀度	≤ ±5°C (多区独立控温)
冷态Vacuum Level	≤ 5Pa (支持 100-7500Pa 自动恒压控制)
气路控制	北京七星华创质量流量计 (Ar, N2, CH4, C3H6等)
自动化程度	西门子PLC + 台达15寸触摸屏 + 工艺数据导出

REFERENCE DATA

Reference Information

Product

Large Horizontal Rectangular CVD / High-Temperature Furnace

Process Type

CVD / Densification

Temperature Reference

2100°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.