

PRODUCT DATA SHEET

Integrated Vacuum Debinding and Sintering Furnace

Integrated Vacuum Debinding and Sintering Furnace is built for precise sintering of cemented carbide parts, advanced ceramic parts, and stainless steel components. Design temperature reference: up to 1550°C.



OVERVIEW

Product Overview

The Integrated Vacuum Debinding and Sintering Furnace is a configurable high-temperature processing system for cemented carbide parts, advanced ceramic parts, and stainless steel components. 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
- stainless steel components
- advanced ceramic sintering
- powder metallurgy densification

TECHNICAL DATA

Technical Data Tables

TABLE 1

Parameter	YHSJL-30×30×60	YHSJL-40×40×100	YHSJL-50×50×120
Hot Zone Size(W*H*L)	300×300×600 mm	400×400×1000 mm	500×500×1200 mm
Rated Load	150 kg	300 kg	500 kg
Heating Power	约 75 KW	约 90 KW	约 135 KW
Max / Working Temperature	1550 °C / 1500 °C		
Ultimate Vacuum度/Pressure Rise Rate	2 Pa / ≤ 1 Pa/h		
脱蜡率性能	≥ 96% (负压载气脱蜡条件下)		

PRODUCT IMAGES

Image Reference



Integrated Vacuum Debinding and Sintering Furnace image

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REFERENCE DATA

Reference Information

Product

Integrated Vacuum Debinding and Sintering Furnace

Process Type

Sintering

Temperature Reference

1550°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.