

PRODUCT DATA SHEET

# Hydrogen Annealing Furnace for Permalloy / 1J79

Hydrogen Annealing Furnace for Permalloy / 1J79 is used for bright annealing or protective-atmosphere treatment of permalloy components and 1J79 magnetic alloy parts.



OVERVIEW

## Product Overview

The Hydrogen Annealing Furnace for Permalloy / 1J79 is used for protective-atmosphere or bright annealing of permalloy components and 1J79 magnetic alloy parts.

The equipment is designed to support clean surface quality, controlled soaking and repeatable batch handling in workshop or production environments.

The equipment can be configured around strip, batch or component-style loading. It supports better process consistency, cleaner surfaces and easier integration into standard heat-treatment workflows.

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 bright annealing or protective-atmosphere heat treatment.

Supports cleaner surfaces, stable soaking and controlled cooling behavior.

Suitable for strip, sheet, formed parts and precision metal components.

Practical automation and loading flexibility for workshop deployment.

## APPLICATIONS

### Typical Applications

- permalloy components
- 1J79 magnetic alloy parts
- bright annealing
- surface-sensitive metal heat treatment
- protective-atmosphere thermal processing

## TECHNICAL DATA

### Technical Data Tables

TABLE 1

参数项目	Parameter
Rated Temperature	950°C (长期稳定运行)
炉罐材质	310S 或特种耐热不锈钢
Pressure Rise Rate	≤ 2 Pa/h (高Vacuum密封标准)
Hydrogen安全系统	自动防爆点火装置 + 紧急Nitrogen吹扫控制
Heating Element	优质 Kanthal 丝 / 高性能合金丝
Vacuum系统配置	机械泵 + 扩散泵 (或分子泵组)

REFERENCE DATA

## Reference Information

Product

**Hydrogen Annealing Furnace for Permalloy  
/ 1J79**

Process Type

**Annealing**

Temperature Reference

**As defined by the confirmed technical  
proposal**

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.