

PRODUCT DATA SHEET

# Stress Relief Furnace for Stamped Parts

Stress Relief Furnace for Stamped Parts is used for efficient stress relief of machined parts, formed parts, and 3D-printed components.



## OVERVIEW

### Product Overview

The Stress Relief Furnace for Stamped Parts is used to reduce residual stress in machined parts, formed parts, and 3D-printed components. It helps users balance throughput, thermal uniformity and process consistency for post-forming, post-welding or post-print heat treatment.

The furnace can be tuned according to part geometry, material type and target deformation control. It is suitable for customers who want better dimensional stability before subsequent machining, assembly or use.

## 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

Used to reduce residual stress after machining, forming, welding or printing.

Supports dimensional stability and improved downstream processing consistency.

Suitable for metal parts with strict shape-control requirements.

Configurable around throughput, atmosphere route and thermal cycle.

## APPLICATIONS

### Typical Applications

- machined parts
- formed parts
- 3D-printed components
- welded structures

## TECHNICAL DATA

### Technical Data Tables

TABLE 1

参数项目	Parameter
Rated Temperature	950°C (连续稳定生产)
Temperature Control Accuracy	±0.1°C (高灵敏PID智能调节)
炉温均匀性	±3°C 至 ±5°C (多区独立控温)
Ultimate Vacuum度	10 <sup>-1</sup> Pa 至 10 <sup>-3</sup> Pa (按需选配)
Protective Atmosphere	N <sub>2</sub> , Ar, H <sub>2</sub> (可混合、可调控)
设备结构	井式 (Vertical) / Horizontal / 连续式 (支持定制)

REFERENCE DATA

## Reference Information

Product

**Stress Relief Furnace for Stamped Parts**

Process Type

**Stress Relief**

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.