

PRODUCT DATA SHEET

Atmosphere Furnace for Aluminum-Magnesium Alloys

Atmosphere Furnace for Aluminum-Magnesium Alloys is a configurable thermal processing solution for aluminum-magnesium alloy components and 3D-printed components.



OVERVIEW

Product Overview

The Atmosphere Furnace for Aluminum-Magnesium Alloys is a configurable thermal processing solution for aluminum-magnesium alloy components and 3D-printed components. It can be adapted to different process temperatures, loading methods, atmosphere conditions and automation preferences according to project requirements.

The final structure, control package and performance range can all be adjusted according to the material route and the plant-side production target.

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

Configurable around temperature range, chamber size and process route.

Suitable for custom thermal processing projects with flexible engineering needs.

Focused on practical operation, stable thermal behavior and scalable design.

Can be tailored for laboratory, pilot or production applications.

APPLICATIONS

Typical Applications

- aluminum-magnesium alloy components
- 3D-printed components
- custom furnace projects
- pilot heat treatment
- special thermal routes

TECHNICAL DATA

Technical Data Tables

TABLE 1

参数项目	Parameter
适用材料	铝镁合金、钛合金、High-Temperature Alloys、模具钢等
Cooling Method	炉内随炉冷却 或 强制风冷（可选配）
数据记录	全过程温度/Vacuum Level数据实时导出（可追溯）
洁净标准	炉内无油无粉尘设计，符合医疗/航天洁净要求
Temperature Control Accuracy	±0.1°C（精密 PID 分段调节）
Protective Atmosphere	高纯Argon（Ar）或高Vacuum保护

REFERENCE DATA

Reference Information

Product

Atmosphere Furnace for Aluminum-Magnesium Alloys

Process Type

Custom Thermal Processing

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.