

PRODUCT DATA SHEET

Vacuum Furnace for Medical Implants

Vacuum Furnace for Medical Implants is suitable for flexible vacuum or atmosphere processing of titanium alloy components, medical implant components, and 3D-printed components.



OVERVIEW

Product Overview

The Vacuum Furnace for Medical Implants is a flexible thermal processing system for titanium alloy components, medical implant components, and 3D-printed components under vacuum or protective atmosphere. It is suitable for users who need clean batch treatment, accurate temperature control and practical workshop installation.

The system can be configured according to product geometry, required cleanliness, target temperature path and workshop operating habits.

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

Flexible vacuum or atmosphere processing for mixed laboratory and production needs.

Configurable hot-zone size, temperature path and control structure.

Suitable for users needing clean batch treatment and compact installation.

Practical setup for pilot work, samples or small-batch process validation.

APPLICATIONS

Typical Applications

- titanium alloy components
- medical implant components
- 3D-printed components
- sample treatment
- small-batch heat treatment

TECHNICAL DATA

Technical Data Tables

TABLE 1

参数项目	Parameter
适用材料	医疗级钛合金、钴铬合金、不锈钢 316LVM
数据追踪	全过程温度/Vacuum Level记录，导出支持审计追踪（可追溯）
Ultimate Vacuum度	10 ⁻³ Pa 级高Vacuum（确保无污染）
Temperature Control Accuracy	±0.1°C（保障材料组织转变精准）
洁净配置	无油机械泵 + 分子泵组（杜绝油蒸气回流）
降温系统	炉内随炉冷却 或 强制惰性气体风冷（可选）

REFERENCE DATA

Reference Information

Product

Vacuum Furnace for Medical Implants

Process Type

Vacuum / Atmosphere Thermal Processing

Temperature Reference

As defined by the confirmed technical proposal

Manufacturer

China | Zhuzhou Yuanhang Industrial Furnace Technology Co., Ltd.

Website

<https://www.hnyhgy.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.