

PRODUCT DATA SHEET

Degassing / Brazing Furnace for Power Electronic Tube Shells

Degassing / Brazing Furnace for Power Electronic Tube Shells is intended for clean brazing and thermal joining of advanced ceramic parts and power electronic tube shells.



OVERVIEW

Product Overview

The Degassing / Brazing Furnace for Power Electronic Tube Shells is intended for vacuum or protective-atmosphere brazing of advanced ceramic parts and power electronic tube shells. The system is designed to improve joint quality, reduce oxidation risk and support consistent heating, soaking and cooling for precision components or production fixtures.

In practical use, the equipment can be configured around part size, joint quality targets, production cadence and cooling requirements. This makes it suitable for custom fixtures, heat spreaders, electronic assemblies and other brazed structures.

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

Vacuum or atmosphere process compatibility for cleaner brazed joints.

Configurable loading, heating and cooling logic for precision assemblies.

Suitable for thin plates, electronic structures and specialized joining workpieces.

Supports repeatable production with practical plant-side operation.

APPLICATIONS

Typical Applications

- advanced ceramic parts
- power electronic tube shells
- vacuum brazing
- precision joining
- thermal management assemblies

TECHNICAL DATA

Technical Data Tables

TABLE 1

参数项目	Parameter
炉罐材质	310S 或特种耐热不锈钢 (高Vacuum标准)
Ultimate Vacuum度	10^{-3} Pa 至 10^{-5} Pa (机械泵+扩散/分子泵组)
Pressure Rise Rate	≤ 2 Pa/h (确保深度密封)
Hydrogen安全系统	自动防爆点火 + Nitrogen冗余吹扫控制
控温均匀性	$\pm 3^{\circ}\text{C}$ (针对精密钎焊工艺调校)
数据监控	全工艺温度、压力、流量参数可导出追溯

REFERENCE DATA

Reference Information

Product

Degassing / Brazing Furnace for Power Electronic Tube Shells

Process Type

Brazing

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.