

75kW Gas Nitriding Furnace for Thermal Treatment

This 75kW gas nitriding furnace is designed for thermal treatment processes. It delivers a high penetrating rate and surface hardness, with a large load capacity and low heat-treatment cost.



Overview

High-Efficiency Thermal Treatment Solution

This 75kW gas nitriding furnace utilizes vacuum varying pressure technology to deliver superior surface hardening and wear resistance. Designed for high-volume industrial applications, it ensures a uniform and controllable atmosphere for stable nitriding effects across large loads. The system is optimized for low operating costs through excellent insulation and efficient gas distribution.

Performance Metrics

Key Performance Metrics

75 kW

Power Rating

1200 HV

Max Surface Hardness

0.18 mm

Max Penetration Layer

Technical Specifications

Nitriding Performance

Parameter	Value Range
Heat Holding Time	8-10 hours
Penetrating Layer Depth	0.14-0.18mm
Bright White Layer	0.006-0.01mm
Surface Hardness	HV 1,000-1,200

Power Rating	75 kW
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Technology & Features

Advanced Features

- Vacuum varying pressure technology for uniform atmosphere
- High penetrating rate and low brittleness
- Small surface friction coefficient
- Excellent sealing and heat-insulating properties
- Increased load capacity via fresh air circulation

Installation & Logistics

Delivery & Setup

Service Item	Duration/Requirement
Manufacturing Period	45 days
Local Installation	10 days
Required Utilities	Power and high purity ammonia

Compliance & Quality

Quality Standards	ISO 9007, Stable Performance, Low Cost Operation
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