

60kW Gas Nitriding Furnace for Surface Hardening

This 60kW gas nitriding furnace is designed for surface hardening processes. It enhances the surface properties of metal components, improving wear resistance, fatigue life, and corrosion resistance.



Product Overview

Advanced Surface Hardening Solution

This 60kW Gas Nitriding Furnace utilizes vacuum varying pressure technology to provide high-performance surface hardening for metal components. It is engineered to deliver a high penetrating rate and exceptional surface hardness while maintaining low brittleness and stable performance. Designed for efficiency, the system offers large load capacities and reduced treatment costs through superior sealing and heat-insulating properties.

Performance Metrics

Key Performance Indicators

60 kW

Power Rating

1200 HV

Max Surface Hardness

45 Days

Delivery Period

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 Consumption	60 kW
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Features & Advantages

Core Features

- Low vacuum varying pressure technology for uniform atmosphere
- High penetrating rate with stable nitriding effect
- Excellent sealing and heat-insulating properties
- Small surface friction coefficient
- Low brittleness in the hardened layer
- Increased load capacity via fresh air circulation

Installation & Logistics

Setup Requirements

- Customer-provided power supply
- High purity ammonia requirement
- 10-day local installation period
- 45-day manufacturing lead time
- All relevant parts provided by supplier

Global Track Record

Sold in 50 countries with over 250 sets manufactured to date.

Compliance & Quality

Quality Certifications

ISO 9001 • Quality Assured