

45kW Gas Nitriding Furnace for Heat Treatment

This 45kW gas nitriding furnace is designed for low-temperature heat treatment processes. It enhances surface hardness, wear resistance, and fatigue life of metal components through precise control of nitriding parameters and uniform temperature distribution.



Overview

Advanced Nitriding Solution

This 45kW vacuum varying pressure nitriding furnace is engineered for high-performance heat treatment, delivering exceptional surface hardening results. Utilizing advanced low-vacuum technology, it ensures uniform atmosphere and temperature distribution, which significantly increases load capacity while maintaining energy efficiency. The system is designed for reliability and precision, making it an ideal choice for industries requiring improved wear resistance and fatigue life for metal components.

Performance Metrics

Nitriding Performance

1200 HV

Max Surface Hardness

0.18 mm

Max Penetrating Layer

0.01 mm

Max White Layer

Technical Specifications

Operational Data

Parameter	Value
Power Rating	45 kW
Delivery Period	45 Days
Installation Time	10 Days
Heat Hold Time	8-10 Hours

Key Features

Process Benefits

- High penetrating rate
- Low surface friction coefficient
- Low brittleness
- Uniform and controllable atmosphere
- Excellent sealing and heat-insulation

Certifications

Quality Standards

CE, ISO 9001