

45kW Gas Nitriding Furnace for Roll Heat Treatment

This gas nitriding furnace is designed for heat treating rolls and metal components. It delivers a high penetrating rate and surface hardness while maintaining stable performance.



Overview

High-Efficiency Vacuum Nitriding Furnace

This advanced vacuum varying pressure nitriding furnace is engineered for superior roll heat treatment, delivering high surface hardness and excellent wear resistance. With a 45kW capacity, it utilizes low-vacuum technology to ensure uniform atmosphere and temperature distribution throughout the furnace tank. Designed for reliability and cost-efficiency, this system provides consistent nitriding results with low brittleness and a stable performance profile.

Technical Specifications

Surface Hardness

1000 HV

Min Hardness

1200 HV

Max Hardness

Power Rating	45 kW
Heat Hold Duration	8 hours
Penetrating Layer Depth	0.14 - 0.18 mm
Bright White Layer Depth	0.006 - 0.01 mm

Logistics & Installation

Required Inputs

- Electrical Power
- High Purity Ammonia

Delivery Period	45 days
Local Installation Time	10 days

Compliance & Standards

Certifications	CE, ISO
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