

# Gas Nitriding Furnace for Aluminum Extrusion Dies

This gas nitriding furnace is designed for treating complex-shaped aluminum extrusion dies. The furnace enhances the surface hardness and wear resistance of dies, which extends their lifespan and improves the quality of extruded aluminum profiles.



## Product Overview

### High-Efficiency Nitriding Solution

This vacuum varying pressure nitriding furnace is engineered for superior surface treatment of aluminum extrusion dies. Utilizing advanced low-vacuum technology, it ensures uniform atmosphere and temperature control for consistent, high-quality nitriding results. The system is designed for high load capacity and energy efficiency, making it an ideal choice for industrial manufacturers looking to enhance die durability and performance.

## Performance Metrics

### Penetrating Layer Depth

**0.16 mm**

Average Depth

### Bright White Layer Thickness

**0.008 mm**

Average Thickness

Heat Hold Duration	9 hours
Surface Hardness	HV 1,000 - 1,200

## Operational Details

Delivery Period	45 days
Local Installation Time	10 days
Required Utilities	Electricity, High Purity Ammonia

## Key Features

### System Benefits

- High penetrating rate for deep treatment
- Low surface friction coefficient
- Low brittleness
- Stable and uniform performance
- Energy-efficient heat insulation

## Compliance & Quality

### Certifications

CE • ISO 9001