

Smart Hydrogen Reduction Furnace for Industrial Applications

This smart hydrogen reduction furnace is designed for diverse industrial uses. It features precise control and efficient gas and temperature management, making it suitable for material processing, research, and manufacturing.



Overview

Industrial Smart Hydrogen Reduction Furnace

The BL6-I is a fully automated, microcomputer-controlled hydrogen reduction furnace designed for high-efficiency, continuous industrial sintering processes. With a 4-meter high-temperature zone reaching up to 1700°C, it provides precise atmosphere control using a N₂/H₂ gas mix. This energy-efficient system supports 100+ hours of continuous operation, making it ideal for rare earth materials, catalysts, and ceramic powders.

Technical Specifications

Maximum Temperature	1700
Dimensions (L x W x H)	10.22m x 1.24m x 1.43m
Total Weight	9 T
Power Requirements	AC380V, 50HZ, Three-phase
Total Power Consumption	90 KVA

Performance Metrics

Operating Performance

4 m

High Temperature Zone

100 hours

Continuous Run Time

Features

Automation Level

Full-Automatic PLC Control • Touch Color Screen Interface

Applicable Scope

NdFeB Magnets, Ferrite Materials, Luminescence Materials, Catalysts, Rare Earth Materials, Ceramic Powders

Compliance

Environmental Compliance

- No harmful gas emissions
- No noise pollution
- No sewage discharge
- No electromagnetic interference