

50kg Metal Melting Induction Furnace

This 50kg induction furnace utilizes electromagnetic induction for rapid and uniform heating of metals. It is designed for precise temperature control and efficient melting in various industrial applications.



ADDITIONAL IMAGES



Overview

High-Efficiency 50kg Metal Melting Solution

This 50kg induction furnace is a robust and efficient solution designed for melting both ferrous and non-ferrous metals, including iron, steel, aluminum, and copper. Utilizing electromagnetic induction, it ensures rapid and uniform heating with precise temperature management through an integrated control system. Engineered for professional foundries and research facilities, it features a water-cooled copper induction coil and a tilting mechanism for safe and easy pouring.

Key Performance Metrics

Performance Highlights

100 kW

Rated Power

0.17 T/H

Melting Rate

18 min/batch

Melting Time

620 KWH/T

Energy Consumption

Technical Specifications

Electrical & Power Data

Parameter	Value
Model	Gw-kgps-0.05-100/2.5
Input Voltage	380 V
MF Output Voltage	750 V
MF Frequency	2.5 KHZ
Pulse	6
Transformer Capacity	120 KVA

Capacity & Construction

Capacity & Construction

Feature	Specification
Rated Capacity	0.05 T
Maximum Capacity	0.06 T
Furnace Shell Options	Aluminum shell or Steel shell
Cooling Consumption	5 T/H (Water)

Applications

Compatible Materials	Iron, Steel, Aluminum, Copper, Ferrous Metals, Non-Ferrous Metals
----------------------	---

Design & Safety

Design Features

- Water-cooled copper induction coils for thermal management
- Worm gear mechanism for precise tilting and tapping
- Refractory-lined crucible for high-temperature resistance
- Quartz gritstone insulation
- Integrated safety interlocks
- User-friendly control interface for parameter monitoring