

# 1-Ton IGBT Induction Furnace for Metal Melting

This IGBT induction furnace is mainly used for melting iron, steel, stainless steel, and alloys. It offers high melting efficiency, good electricity saving, and uniform metal component distribution.



## Overview

### High-Efficiency IGBT Induction Furnace

This 1-ton IGBT induction furnace is engineered for superior energy efficiency and precise metal melting performance. Designed for versatility, it is suitable for melting iron, steel, stainless steel, and various alloys with rapid temperature rise and excellent uniformity. The system features advanced protection mechanisms and constant power output, ensuring reliable operation in demanding foundry environments.

## Technical Specifications

Rated Capacity	1 T
Maximum Capacity	1.3 T
Rated Power	700 KW
Melting Rate	1.5 T/H
Melting Time per Batch	55 Minutes
Electricity Consumption	510 KWH/T

## Electrical Requirements

Power Input Voltage	380 V
MF Output Voltage	750/1200
Required Transformer Capacity	900 KVA
MF Frequency	1 KHZ

## Operational Details

### Key Advantages

- Constant power output for speedy melting
- Zero-voltage sweep-frequency style start
- High electricity saving efficiency
- Uniform metal components
- Reduced burning loss
- Easy temperature control

Water Cooling Consumption	25 T/H
---------------------------	--------

## Safety & Protection

### Safety Functions

Overcurrent protection, Overvoltage protection, Current-limiting protection, Voltage-limiting, Water-break protection, Default protection

## Usage

### Suitable Materials

Iron, Steel, Stainless Steel, Alloys