# 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

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| 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

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|---|---|
| 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

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|---|---|
| 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 |