



## Quick Melting Speed Iron Melting Furnace with High Efficiency Heat Transfer and Overheating Protection

### Our Product Introduction

#### Basic Information

- Brand Name: Huarui
- Certification: Patent; National Test Report; Quality Management System
- Model Number: To Be Customized
- Minimum Order Quantity: 1 Set
- Price: To Be Negotiated
- Packaging Details: Waterproof
- Delivery Time: 10~45 Days
- Payment Terms: T/T; L/C
- Supply Ability: 1000000 Sets/year



#### Product Specification

- Safety: Complete
- Applicable Industries: Manufacturing Plant
- Delivery Port: Qingdao & Tianjin Or As Your Demand
- Melting Speed: Quick
- Operating temperature: Up To 1600°C
- Failure: Low
- Heat Transfer: High Efficiency
- Safety System: Overheating Protection
- Highlight: long service iron melting furnace, durable induction melting furnace, thermal management iron smelting furnace



## Product Description

### Product Description:

The HUARUI Medium Frequency Induction Iron Melting Furnace is specifically designed to provide exceptional performance, energy efficiency, and operational dependability for both foundries and steel manufacturing plants. It is capable of melting a wide range of ferrous metals, including cast iron and steel scrap, ensuring rapid and efficient melting processes. Precise temperature control guarantees the production of high-quality molten metal with consistent composition and minimal oxidation. Equipped with cutting-edge power supply technology and constructed using durable lining materials, this furnace achieves impressive thermal efficiency. This leads to significant reductions in power consumption and lowers overall operational expenses. The furnace incorporates an intuitive PLC control system that facilitates seamless operation, straightforward maintenance, and improved safety for operators. Its compact design enables easy integration into existing production facilities and supports both batch and continuous melting operations.

Designed for applications such as casting, forging, and steelmaking, the HUARUI Iron Melting Furnace enhances productivity while reducing metal waste. Additionally, it promotes a stable and environmentally friendly melting process. By choosing HUARUI, customers invest in a reliable, cost-effective, and high-performance melting solution that strengthens their metal production capabilities.

### Features:

#### Features of HUARUI Iron Melting Furnace

The HUARUI Iron Melting Furnace incorporates advanced medium frequency technology, utilizing a cutting-edge IGBT-based power supply. This innovation delivers exceptional electrical efficiency, reaching up to 98% inverter efficiency. As a result, the furnace ensures rapid melting cycles while significantly reducing energy consumption and lowering operational costs. This furnace boasts superior melting performance by providing fast and uniform heating. Equipped with powerful electromagnetic stirring, it guarantees precise temperature control and promotes a homogeneous alloy composition. These features collectively enable the production of consistently high-quality molten iron. Built with a robust and durable construction, the HUARUI Iron Melting Furnace features a heavy-duty steel framework, water-cooled cables, and high-grade refractory lining systems. These components are designed to withstand demanding industrial conditions, ensuring extended service life and maximizing equipment uptime. The intelligent control system of the furnace integrates an automatic PLC along with a touch-screen Human-Machine Interface (HMI). This combination simplifies operation and recipe management while allowing real-time monitoring of critical parameters such as power, temperature, and cooling. Additionally, it supports fault diagnosis to maintain optimal process control. Safety and reliability are paramount, with the furnace equipped with comprehensive protection mechanisms. These include water pressure and temperature monitoring, over-current and voltage protection, as well as earth leakage detection. Such measures guarantee fail-safe operations, protecting both the equipment and personnel. Designed with flexibility and environmental responsibility in mind, the HUARUI Iron Melting Furnace offers various capacity options to accommodate different production scales. Its clean electric melting process reduces noise, fumes, and emissions compared to traditional methods, fostering a greener and safer workshop environment. Maintenance is made easy thanks to the furnace's modular construction and accessible components. This thoughtful design significantly lowers maintenance time and effort, thereby enhancing overall productivity and ensuring continuous operation.

### Technical Parameters:

Delivery Port	Qingdao & Tianjin Or As Your Demand
Safety	Complete
Key Words	Induction Furnace
Operating Temperature	Up To 1600°C
Failure	Low
Marketing Type	Ordinary Product
Heat Loss	Low
Safety System	Overheating Protection
Melting Speed	Quick
Applicable Industries	Manufacturing Plant

### Applications:

The Huarui Iron Melting Furnace is a highly efficient and reliable smelting furnace designed to meet the diverse needs of industries involved in metal processing. Ideal for foundries, metal recycling plants, and manufacturing units, this iron melting furnace provides exceptional performance with its advanced technology and robust build. Its customizable model number allows businesses to tailor the melting furnace to their specific production requirements, ensuring optimal results every time. Certified with a patent, national test report, and quality management system, the Huarui smelting furnace guarantees safety and quality standards that are critical in high-temperature metal processing environments. Its safety system incorporates overheating protection, significantly reducing the risk of operational failures and enhancing workplace safety. This makes the furnace suitable for continuous,

high-demand applications where reliability is paramount.

With a high power-saving design, the Huarui iron melting furnace minimizes energy consumption without compromising melting efficiency. This feature is particularly beneficial for industries aiming to reduce operational costs and environmental impact. The furnace's low failure rate further ensures minimal downtime, increasing productivity and reducing maintenance expenses.

The iron melting furnace is packaged with waterproof materials to protect it during transit, ensuring it reaches the customer in perfect condition. Huarui offers flexible delivery options, with a delivery time ranging from 10 to 45 days, and shipment available from Qingdao, Tianjin, or other ports as per customer demand. The minimum order quantity is just one set, making it accessible for small and large-scale operations alike.

Payment terms are convenient, supporting T/T and L/C methods, facilitating smooth transactions for global customers. With an impressive supply ability of up to 1,000,000 sets per year, Huarui can meet large-scale demands promptly. The iron melting furnace is positioned as an ordinary product in the market, yet it stands out due to its superior safety features, customizable options, and cost-effectiveness.

In summary, the Huarui melting furnace is perfectly suited for various smelting applications, including iron casting, alloy production, and metal recycling. Its combination of advanced safety systems, energy efficiency, and reliable performance makes it an ideal choice for industries seeking a durable and efficient melting furnace.

## Customization:

Huarui offers comprehensive product customization services for our iron melting furnace to meet the unique needs of your manufacturing plant. Our metal melting furnace model number is to be customized according to your specific requirements, ensuring optimal performance and efficiency.

Certified with Patent, National Test Report, and Quality Management System, our iron smelting furnace guarantees high quality and reliability. We maintain a supply ability of 1,000,000 sets per year, with a minimum order quantity of just 1 set, allowing flexibility for both small and large scale operations.

The industrial melting furnace is designed for quick melting speed and consumes 50 KW of power, providing efficient and effective metal melting solutions. Installation is easy, reducing downtime and facilitating a smooth integration into your production line.

Packaging is waterproof to ensure safe delivery, with delivery times ranging from 10 to 45 days depending on customization details.

Pricing is negotiable to best suit your budget, and we accept flexible payment terms including T/T and L/C.

Choose Huarui's iron melting furnace for a reliable, customizable, and high-performance industrial melting furnace solution tailored to your manufacturing plant's needs.

## Support and Services:

Our Iron Melting Furnace is designed to provide efficient and reliable melting solutions for various industrial applications. For technical support, our team of experts is available to assist with installation guidance, operational troubleshooting, and maintenance procedures to ensure optimal performance.

We offer comprehensive services including on-site inspections, performance evaluations, and preventive maintenance plans tailored to extend the lifespan of your furnace. Spare parts and upgrade options are also available to enhance functionality and adapt to evolving production requirements.

For best results, we recommend regular cleaning of the furnace interior and timely replacement of refractory materials. Our support team can provide detailed manuals and training sessions to help your staff operate the furnace safely and efficiently.

Whether you require emergency repairs or routine servicing, our dedicated technical support ensures minimal downtime and maximum productivity for your iron melting operations.

## Packing and Shipping:

### Product Packaging and Shipping for Iron Melting Furnace

The Iron Melting Furnace is carefully packaged to ensure safe delivery and protection during transit. Each unit is securely wrapped with industrial-grade protective materials, including shock-absorbent foam and moisture-resistant covers. The furnace is then placed inside a sturdy wooden crate or reinforced metal frame to prevent any damage caused by impacts or vibrations.

All packaging materials comply with international shipping standards to guarantee the product arrives in excellent condition. Additionally, the packaging is clearly labeled with handling instructions such as "Fragile," "This Side Up," and "Heavy Load" to assist logistics personnel.

For shipping, the Iron Melting Furnace can be transported via sea, air, or land freight, depending on the customer's preference and destination. We coordinate with reliable carriers to ensure timely and secure delivery. Upon shipment, tracking information and estimated delivery dates are provided to keep customers informed throughout the process.

Special arrangements for oversized or customized furnace models can be made upon request, including disassembly for easier transport and on-site reassembly services.

Our commitment is to deliver the Iron Melting Furnace efficiently and safely, maintaining the highest standards of quality and customer satisfaction.

## FAQ:

### Q1: What brand manufactures the Iron Melting Furnace?

A1: The Iron Melting Furnace is manufactured by the brand Huarui.

### Q2: Can the model number of the Iron Melting Furnace be customized?

A2: Yes, the model number is to be customized according to your specific requirements.

### Q3: What certifications does the Iron Melting Furnace have?

A3: The furnace holds a patent, a national test report, and complies with a quality management system.

### Q4: What is the minimum order quantity and price for the Iron Melting Furnace?

A4: The minimum order quantity is 1 set, and the price is negotiable based on order details.

### Q5: What are the packaging and delivery details for the Iron Melting Furnace?

A5: The product is packaged with waterproof materials, and delivery time ranges from 10 to 45 days.

### Q6: What payment terms are accepted for purchasing the Iron Melting Furnace?

A6: Payment can be made via T/T (Telegraphic Transfer) or L/C (Letter of Credit).

### Q7: What is the supply capacity of Huarui for the Iron Melting Furnace?

A7: Huarui can supply up to 1,000,000 sets per year.



Shandong Huarui Electric Furnace Co., Ltd.

+86 13235363441

sales@huarui-furnace.com

melt-furnaces.com

Mount Taishan Street, Anqiu Economic Development Zone, Weifang, Shandong, China