



Shandong Huarui Electric Furnace Co., Ltd.

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## Easy Installation Iron Melting Furnace with 50 KW Power Consumption and Up To 1600°C Operating Temperature

### 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
- Powerconsumption: 50 KW
- Key Words: Induction Furnace
- Delivery Port: Qingdao & Tianjin Or As Your Demand
- Failure: Low
- Installation: Easy
- Heat Transfer: High Efficiency
- Operatingtemperature: Up To 1600°C
- Highlight: 1600°C metal melting furnace, industrial iron melting furnace, easy installation melting furnace



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## Product Description

### Product Description:

The HUARUI Medium Frequency Induction Iron Melting Furnace is specially designed to provide exceptional performance, outstanding energy efficiency, and dependable operational reliability for foundries and steel manufacturing plants. It is capable of melting a wide range of ferrous metals, including cast iron and steel scrap, enabling quick melting cycles combined with accurate temperature regulation. This ensures the production of high-quality molten metal characterized by consistent composition and minimal oxidation.

Equipped with state-of-the-art power supply technology and durable refractory lining materials, the furnace achieves excellent thermal efficiency. This advanced design substantially lowers power consumption and reduces overall operational expenses. Additionally, the system includes an intuitive PLC control interface, promoting effortless operation, simplified maintenance procedures, and improved safety standards. Its compact footprint allows for seamless integration into current production setups, accommodating both batch and continuous melting workflows.

Perfectly suited for applications such as casting, forging, and steelmaking, the HUARUI Iron Melting Furnace enhances productivity while minimizing metal wastage. It guarantees a stable and environmentally friendly melting process. By choosing HUARUI, users invest in a robust, cost-efficient, and high-performing 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, employing a cutting-edge IGBT-based power supply. This innovation delivers an electrical efficiency of up to 98% inverter efficiency, which ensures rapid melting cycles, reduces energy consumption, and lowers operating costs significantly.

With its superior melting performance, the furnace achieves fast and uniform heating thanks to powerful electromagnetic stirring. This feature allows for precise temperature control and ensures a homogeneous alloy composition, resulting in consistently high-quality molten iron suitable for demanding applications.

Constructed with robustness and durability in mind, the furnace features a heavy-duty steel structure along with water-cooled cables and high-grade refractory lining systems. These components contribute to an extended service life, maximum uptime, and resilience even in the most challenging industrial environments.

Equipped with an intelligent control system, the HUARUI furnace integrates an automatic PLC and a user-friendly touch-screen HMI. This setup simplifies operation, facilitates recipe management, enables real-time monitoring of critical parameters such as power, temperature, and cooling, and supports fault diagnosis to maintain optimal process control.

Safety and reliability are paramount, with comprehensive protection systems installed. These include water pressure and temperature monitoring, over-current and over-voltage protection, as well as earth leakage detection to ensure fail-safe operation, safeguarding both the equipment and personnel.

The design is both flexible and eco-friendly, offering multiple capacity options to accommodate various production scales. The electric melting process is clean, generating minimal noise, fumes, and emissions compared to traditional methods, fostering a greener and more sustainable workshop environment.

Maintenance is made easy through thoughtful design that emphasizes serviceability. Accessible components and modular construction reduce the time and effort required for maintenance tasks, thereby maximizing overall productivity and minimizing downtime.

### Technical Parameters:

Failure	Low
Melting Speed	Quick
Delivery Port	Qingdao & Tianjin Or As Your Demand
Operating Temperature	Up To 1600°C
Installation	Easy
Applicable Industries	Manufacturing Plant
Power Consumption	50 KW
Heat Loss	Low
Safety System	Overheating Protection
Key Words	Induction Furnace

### Applications:

The Huarui Iron Melting Furnace is an advanced smelting furnace designed to meet the demanding needs of modern metallurgical industries. With its model number available to be customized, this steel melting furnace offers unparalleled flexibility and efficiency for various industrial applications. Certified with patents, a national test report, and adhering to a stringent quality management system, the Huarui Iron Melting Furnace guarantees superior performance and reliability.

This iron melting furnace is ideal for foundries and metal processing plants that require high-efficiency heat transfer and power-saving operation. Capable of operating at temperatures up to 1600°C, it efficiently melts iron and steel, ensuring consistent quality in metal production. Its easy installation process and waterproof packaging details make it suitable for diverse working environments, minimizing

downtime and protecting the equipment during transportation.

The Huarui steel melting furnace is widely used in occasions such as metal casting workshops, recycling plants, and steel manufacturing units. It is particularly beneficial in scenarios where high-temperature melting and precise temperature control are crucial. Whether it is for small batch production or large-scale industrial smelting, this furnace's supply ability of up to 1,000,000 sets per year ensures availability and timely delivery within 10 to 45 days, depending on order specifications.

Customers can negotiate pricing based on their individual requirements, with a minimum order quantity of just one set, making it accessible for businesses of all scales. The flexible payment terms, including T/T and L/C, further enhance the purchasing experience. As an ordinary product marketed by Huarui, this iron melting furnace combines robust construction with cutting-edge technology, delivering outstanding performance in any iron or steel melting application.

In summary, the Huarui smelting furnace is perfect for industries seeking a reliable, high-efficiency steel melting furnace that is easy to install, power-saving, and certified for quality. Its ability to operate at extremely high temperatures and the comprehensive support from the manufacturer make it an indispensable asset for all iron and steel melting occasions and scenarios.

## Customization:

Huarui offers comprehensive product customization services for our Iron Melting Furnace, designed to meet the specific needs of your manufacturing plant. Our steel melting furnace models are tailored to your requirements, with the model number to be customized according to your specifications.

Certified with patents, national test reports, and a quality management system, our metal melting furnace ensures complete safety and high efficiency in heat transfer. With a power consumption of only 50 KW, this steel melting furnace is engineered for power saving without compromising performance.

We accept minimum order quantities starting from 1 set, with pricing to be negotiated to best suit your budget. Each furnace is packaged waterproof to guarantee safe delivery within 10 to 45 days. Payment terms include T/T and L/C for your convenience.

Huarui's supply ability reaches up to 1,000,000 sets per year, ensuring reliable availability for large-scale manufacturing operations. Trust in our steel melting furnace to provide high power-saving efficiency and superior heat transfer for your metal melting needs.

## Support and Services:

Our Iron Melting Furnace is designed to deliver high efficiency and reliability for all your iron melting needs. To ensure optimal performance and longevity of the furnace, we offer comprehensive technical support and services.

Technical support includes expert guidance on installation, operation, and maintenance procedures. Our team of specialists is available to assist with troubleshooting and resolving any issues that may arise during the furnace's operation.

We provide detailed user manuals and safety instructions to help you operate the furnace safely and efficiently. Regular maintenance services are recommended to keep the furnace in peak condition, including inspection, cleaning, and part replacement as necessary. In addition, we offer training programs for your staff to ensure they are well-versed in the correct usage and handling of the Iron Melting Furnace. Upgrades and customization options are also available to meet specific operational requirements.

Our goal is to support your business by providing reliable and timely services, minimizing downtime, and maximizing the productivity of your Iron Melting Furnace.

## Packing and Shipping:

### Product Packaging and Shipping for Iron Melting Furnace

Our Iron Melting Furnace is carefully packaged to ensure safe delivery and optimal condition upon arrival. The furnace is securely wrapped with protective materials such as foam padding and industrial-grade plastic to prevent any damage during transit. It is then placed inside a sturdy wooden crate designed to withstand rough handling and environmental factors.

Each package is clearly labeled with handling instructions and product details to facilitate smooth logistics. For international shipments, we provide all necessary documentation including customs declarations and certificates of conformity.

Shipping options include sea freight, air freight, and land transportation, depending on the destination and customer preference. We work with reliable carriers to ensure timely and secure delivery. Upon request, we also offer installation support and on-site training to help you get started with your Iron Melting Furnace efficiently.

Please contact our sales team for customized packaging solutions or special shipping requirements.

## FAQ:

### Q1: What is the brand and model number of the Iron Melting Furnace?

A1: The Iron Melting Furnace is manufactured by Huarui. The model number is customizable based on your specific requirements.

### Q2: What certifications does the Iron Melting Furnace have?

A2: The furnace comes with a Patent, a National Test Report, and is compliant with a Quality Management System.

### Q3: What is the minimum order quantity and price for the Iron Melting Furnace?

A3: The minimum order quantity is 1 set. The price is negotiable depending on the customization and order details.

### Q4: How is the Iron Melting Furnace packaged and what is the delivery time?

A4: The furnace is packaged with waterproof materials to ensure safe delivery. Delivery time ranges from 10 to 45 days depending on order size and customization.

### Q5: What payment terms are accepted and what is the supply capacity?

A5: We accept payment via T/T (Telegraphic Transfer) and L/C (Letter of Credit). Our supply ability is up to 1,000,000 sets per year.



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