



## 50 KW Power Consumption Iron Melting Furnace with Overheating Protection and Quick Melting Speed for Industrial Use

### Our Product Introduction

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#### 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

- Powerconsumption: 50 KW
- Safety System: Overheating Protection
- Melting Speed: Quick
- Heat Loss: Low
- Applicable Industries: Manufacturing Plant
- Power Saving: High
- Service Time: Long
- Operatingtemperature: Up To 1600°C
- Highlight: **50 KW Power Consumption Iron Melting Furnace**, **Overheating Protection Metal Melting Machine**, **Quick Melting Speed Industrial Melting Furnace**

## Product Description

### Product Description:

The HUARUI Medium Frequency Induction Iron Melting Furnace is designed to provide exceptional performance, energy efficiency, and reliable operation for foundries and steel manufacturing facilities. This furnace is suitable for melting a variety of ferrous metals, including cast iron and steel scrap. It ensures rapid melting with accurate temperature control, producing high-quality molten metal that exhibits excellent compositional consistency and minimal oxidation. Equipped with state-of-the-art power supply technology and durable refractory lining materials, the furnace delivers outstanding thermal efficiency. This leads to a substantial reduction in power consumption and lowers operational expenses. The system incorporates a user-friendly PLC control interface, which facilitates smooth operation, simplifies maintenance, and enhances overall safety. Additionally, its compact design enables easy integration into existing production setups, supporting both batch and continuous melting workflows. Engineered for applications such as casting, forging, and steel production, the HUARUI Iron Melting Furnace improves productivity while minimizing metal waste. It also ensures a stable and environmentally friendly melting process. By choosing HUARUI, you invest in a robust, cost-efficient, and high-performing melting solution that optimizes your metal production operations.

### Features:

#### Features of HUARUI Iron Melting Furnace

The HUARUI Iron Melting Furnace incorporates advanced medium frequency technology by utilizing a state-of-the-art IGBT-based power supply. This results in an impressive electrical efficiency of up to 98% inverter efficiency. Such technology enables rapid melting cycles, reduces energy consumption, and ultimately lowers operating costs for industrial users. In terms of melting performance, the furnace delivers fast and uniform heating supported by a powerful electromagnetic stirring system. This combination ensures precise temperature control and maintains a homogeneous alloy composition, thereby producing consistently high-quality molten iron suitable for various metallurgical applications. Built with robustness and durability in mind, the furnace features a heavy-duty steel framework, water-cooled cables, and high-grade refractory lining systems. These components are engineered for an extended service life and maximum operational uptime, making the furnace resilient under demanding industrial conditions. The intelligent control system embedded within the furnace integrates an automatic PLC and a user-friendly touch-screen HMI. This setup simplifies operation through recipe management, real-time monitoring of critical parameters such as power, temperature, and cooling, as well as fault diagnosis, ensuring optimal process control throughout the melting procedure. Safety and reliability are paramount in the furnace's design. It comes equipped with comprehensive protection mechanisms including water pressure and temperature monitoring, over-current and over-voltage protection, along with earth leakage detection. These features guarantee fail-safe operation, protecting both the equipment and personnel involved. Designed for flexibility and environmental friendliness, the furnace offers various capacity options to accommodate different production scales. The electric melting process it employs is notably clean, producing less noise, fumes, and emissions compared to traditional melting methods. This makes it an excellent choice for workshops aiming to maintain greener and healthier working environments. Maintenance is straightforward thanks to the furnace's modular construction and easily accessible components. This design approach significantly minimizes maintenance time and effort, thereby maximizing overall productivity and ensuring smooth continuous operation.

### Technical Parameters:

Heat Loss	Low
Service Time	Long
Power Consumption	50 KW
Delivery Port	Qingdao & Tianjin Or As Your Demand
Heat Transfer	High Efficiency
Applicable Industries	Manufacturing Plant
Failure	Low
Marketing Type	Ordinary Product
Operating Temperature	Up To 1600°C
Power Saving	High

### Applications:

The Huarui Iron Melting Furnace is a highly efficient industrial melting furnace designed to meet the diverse needs of metal processing industries. This metal melting furnace is ideal for applications requiring rapid smelting speeds and high-temperature operations, with the capability to reach operating temperatures of up to 1600°C. Its quick melting speed ensures increased productivity, making it suitable for foundries, steel plants, and metal recycling facilities where time and efficiency are critical. With a power consumption of only 50 KW, the Huarui smelting furnace is engineered for high power-saving performance without compromising on melting quality. This makes it a cost-effective solution for businesses aiming to reduce energy expenses while maintaining superior output. The furnace is also equipped with comprehensive safety features, ensuring complete protection for operators and minimizing the risk of accidents during high-temperature melting processes.

The Huarui industrial melting furnace is customizable, with model numbers tailored to specific production requirements, allowing flexibility for various scales of operations. Certified with patents, national test reports, and a stringent quality management system, this metal melting furnace guarantees reliable performance and compliance with industry standards. It is suitable for smelting different types of metals, including iron, steel, and non-ferrous alloys.

Packaging is thoughtfully designed to be waterproof, protecting the furnace during transportation and storage, which ensures durability and longevity. With a supply ability of up to 1,000,000 sets per year, Huarui can accommodate both small and large orders, with a minimum order quantity of just one set. Delivery times range from 10 to 45 days, depending on customization and order size, providing timely solutions for urgent industrial needs.

Payment terms are flexible, supporting T/T and L/C methods to facilitate smooth transactions. The Huarui Iron Melting Furnace is an excellent choice for industries requiring a reliable, safe, and energy-efficient metal melting furnace that can deliver outstanding results in demanding smelting environments.

## Customization:

Huarui offers customizable iron smelting furnace solutions tailored to your specific needs. Our iron smelting furnace model number is to be customized to perfectly fit your manufacturing requirements. Each melting furnace is certified with patents, a national test report, and a comprehensive quality management system, ensuring top-tier performance and reliability.

We accept a minimum order quantity of 1 set, with pricing to be negotiated based on your customization preferences. All furnaces are packaged with waterproof materials to guarantee safe delivery. Delivery time ranges from 10 to 45 days, depending on the order specifications.

Payment terms include T/T and L/C for your convenience. With a supply ability of up to 1,000,000 sets per year, we can meet both small and large-scale demands. Our iron smelting furnace includes an advanced overheating protection safety system, minimizing failure rates and ensuring safe operation.

Installation is easy, allowing for quick setup and integration into your manufacturing plant. Marketed as an ordinary product, our melting furnace is ideal for various manufacturing industries that require efficient and reliable iron smelting solutions.

## Support and Services:

Our Iron Melting Furnace is designed to provide efficient and reliable melting solutions for various industrial applications. To ensure optimal performance and longevity of your furnace, we offer comprehensive technical support and services.

Technical support includes assistance with installation, operation, and maintenance procedures. Our team of experts is available to guide you through the setup process, troubleshoot any issues, and provide recommendations for best practices to maximize your furnace's efficiency.

We also offer routine maintenance services to keep your Iron Melting Furnace operating at peak performance. This includes inspection, cleaning, calibration, and replacement of worn components. Regular maintenance helps prevent unexpected downtime and extends the life of your equipment.

In addition, we provide training sessions for your staff to ensure safe and effective furnace operation. Training covers furnace controls, safety protocols, and emergency procedures to help minimize risks and enhance productivity.

For any technical inquiries or service requests, please refer to the user manual or our online support resources. We are committed to delivering prompt and professional support to ensure your complete satisfaction with our Iron Melting Furnace product.

## Packing and Shipping:

Our Iron Melting Furnace is carefully packaged to ensure maximum protection during transit. The furnace is securely wrapped with industrial-grade protective materials and placed inside a sturdy wooden crate designed to withstand rough handling and environmental factors.

For shipping, we offer multiple options including sea freight, air freight, and land transportation to accommodate your delivery needs. Each package is clearly labeled with handling instructions and shipping details to ensure safe and timely delivery.

Before dispatch, every unit undergoes a thorough inspection and testing to guarantee it meets quality standards. We also provide comprehensive documentation, including user manuals and warranty information, to assist you upon receiving the product.

Our logistics team coordinates closely with reliable carriers to track and manage the shipment until it reaches your location, ensuring a smooth and efficient delivery process.

## FAQ:

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

A1: The Iron Melting Furnace is manufactured by Huarui, and the model number is To Be Customized according to your specific requirements.

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

A2: The furnace comes with Patent certification, a National Test Report, and complies with the Quality Management System standards.

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

A3: The minimum order quantity is 1 set, and the price is To Be Negotiated based on your order details and customization needs.

### 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 transportation. The delivery time ranges from 10 to 45 days depending on the order size and specifications.

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

A5: Payment can be made via T/T (Telegraphic Transfer) or L/C (Letter of Credit). Huarui has a supply ability of 1,000,000 sets per year.



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