

Quick Melting Speed Low Heat Loss Iron Melting Furnace with Overheating Protection for Industrial Applications

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

- Melting Speed: Quick
- Heat Transfer: High Efficiency
- Marketing Type: Ordinary Product
- Key Words: Induction Furnace
- Safety: Complete
- Applicable Industries: Manufacturing Plant
- Installation: Easy
- Operating temperature: Up To 1600°C
- Highlight: low heat loss iron melting furnace, quick melting speed iron furnace, industrial iron melting furnace with overheating protection



Product Description

Product Description:

The HUARUI Medium Frequency Induction Iron Melting Furnace is specifically designed to provide exceptional performance, enhanced energy efficiency, and reliable operation for foundries and steel manufacturing plants. This furnace is capable of melting a variety of ferrous metals, including cast iron and steel scrap. It ensures rapid melting with accurate temperature regulation, producing high-quality molten metal characterized by consistent composition and minimal oxidation.

Equipped with cutting-edge power supply technology and constructed using durable lining materials, the furnace delivers outstanding thermal efficiency. This leads to significant reductions in both energy consumption and overall operational expenses. Additionally, the furnace incorporates an intuitive PLC control system that facilitates seamless operation, straightforward maintenance, and improved safety protocols. Its compact design makes it easy to integrate into existing production lines, accommodating both batch and continuous melting workflows.

Perfectly suited for applications such as casting, forging, and steelmaking, HUARUI's Iron Melting Furnace enhances productivity, reduces metal wastage, and supports a stable, environmentally friendly melting process. By choosing HUARUI, you invest in a robust, cost-effective, and high-performance melting solution that optimizes your 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 that delivers exceptional electrical efficiency, reaching up to 98%. This high efficiency enables rapid melting cycles, reduces energy consumption, and lowers overall operating costs, making it an economical choice for modern foundries.

Its superior melting performance is achieved through powerful electromagnetic stirring which ensures fast and uniform heating. This feature guarantees precise temperature control and a consistent, homogeneous alloy composition, resulting in high-quality molten iron every time.

Constructed with robustness in mind, the furnace boasts a heavy-duty steel framework, water-cooled cables, and premium refractory lining systems. These durable components are designed to provide extended service life, maximize uptime, and withstand the harsh conditions typical in demanding industrial environments.

The intelligent control system of the HUARUI furnace integrates an automatic programmable logic controller (PLC) along with a user-friendly touch-screen human-machine interface (HMI). This setup simplifies operation, allows efficient recipe management, enables real-time monitoring of critical parameters such as power, temperature, and cooling, and facilitates fault diagnosis to maintain optimal process control.

Safety and reliability are enhanced through comprehensive protection mechanisms including monitoring of water pressure and temperature, over-current and voltage protection, as well as earth leakage detection. These features ensure fail-safe operation, safeguarding both the equipment and personnel.

Designed with flexibility and environmental sustainability in mind, the furnace offers various capacity options suitable for different production scales. Its clean electric melting process generates minimal noise, reduces fumes and emissions compared to conventional methods, supporting a greener and safer workshop environment.

Maintenance is made easy thanks to a modular design and easily accessible components, which significantly cut down maintenance time and effort. This focus on serviceability helps maximize overall productivity and reduces downtime.

Technical Parameters:

Safety System	Overheating Protection
Safety	Complete
Heat Loss	Low
Key Words	Induction Furnace
Power Saving	High
Delivery Port	Qingdao & Tianjin Or As Your Demand
Operating Temperature	Up To 1600°C
Installation	Easy
Heat Transfer	High Efficiency
Marketing Type	Ordinary Product

Applications:

The Huarui Iron Melting Furnace is an advanced piece of equipment designed for a wide range of industrial applications. With its customizable model number and patented technology, this iron melting furnace stands out as a reliable solution for manufacturing plants that require efficient and high-quality metal melting processes. Its certification, including a National Test Report and adherence to a stringent Quality Management System, ensures both performance and safety, making it suitable for continuous use in demanding production environments.

This iron melting furnace is ideal for occasions where precision and energy efficiency are paramount. Thanks to its high power-saving

capabilities and a power consumption of just 50 KW, it is perfect for manufacturing plants aiming to reduce operational costs without compromising output quality. The furnace's easy installation process allows for quick setup, minimizing downtime and accelerating production schedules. Moreover, the waterproof packaging and a flexible delivery timeframe of 10 to 45 days ensure that the equipment arrives safely and promptly, ready to be integrated into existing workflows.

In scenarios where safety is critical, the Huarui iron melting furnace offers a complete safety system, protecting operators and the facility during operation. This makes it suitable for heavy-duty manufacturing plants that handle large volumes of iron and require consistent melting performance. The minimum order quantity of just one set allows for flexibility, catering to both small-scale and large-scale production needs. Payment terms such as T/T and L/C provide convenient financial options for buyers worldwide, while the supply capacity of up to 1,000,000 sets per year guarantees availability for urgent or bulk orders.

Overall, the Huarui iron melting furnace is perfectly suited for manufacturing plants involved in iron casting, metallurgy, and metal recycling industries. Whether it is used in high-volume production lines or specialized metalwork operations, this furnace combines patented technology, quality assurance, and operational efficiency to meet the rigorous demands of modern industrial applications.

Customization:

Huarui offers comprehensive product customization services for the Iron Melting Furnace, tailored to meet your specific requirements. Our steel melting furnace, including the iron melting furnace models, is designed for quick melting speed and long service time, ensuring high efficiency and durability.

The model number of the iron melting furnace is to be customized according to your needs, and all products come with essential certifications such as Patent, National Test Report, and Quality Management System certification, guaranteeing top quality and reliability. We support a minimum order quantity of 1 set, with pricing to be negotiated to suit your budget. Each steel melting furnace is packaged with waterproof materials to ensure safe delivery. The delivery time ranges from 10 to 45 days, depending on customization and order size.

Our payment terms are flexible, accepting T/T and L/C to facilitate smooth transactions. With a supply ability of 1,000,000 sets per year, Huarui is capable of fulfilling large-scale orders efficiently.

The iron melting furnace operates at a power consumption of 50 KW and features easy installation, making it user-friendly and cost-effective. Trust Huarui for your induction furnace needs and experience superior quality and service in steel melting furnace solutions.

Support and Services:

Our Iron Melting Furnace is designed to provide efficient and reliable performance for all your iron melting needs. To ensure optimal operation, please follow the installation and maintenance guidelines provided in the user manual.

For technical support, our team of experts is available to assist you with troubleshooting, repairs, and spare parts identification. We recommend regular maintenance checks to prolong the lifespan of your furnace and maintain safety standards.

We offer comprehensive services including installation assistance, calibration, and performance optimization to help you achieve the best results. Additionally, training sessions are available for your staff to ensure proper handling and operation of the furnace.

Should you encounter any issues, please refer to the troubleshooting section in the manual or contact our support team for prompt assistance. We are committed to providing excellent service to keep your Iron Melting Furnace running smoothly.

Packing and Shipping:

Product Packaging:

The Iron Melting Furnace is securely packaged using high-quality, durable materials to ensure safe transportation. The furnace is first wrapped in protective foam padding to prevent any scratches or dents during handling. It is then placed inside a sturdy wooden crate that is reinforced with metal brackets for added strength. The packaging is designed to withstand rough handling and environmental factors, keeping the furnace intact and ready for installation upon delivery.

Shipping:

We offer reliable shipping options to deliver the Iron Melting Furnace safely to your location. The product can be shipped via sea freight, air freight, or land transportation depending on your requirements and destination. Each shipment is carefully loaded and secured to prevent movement during transit. Tracking information will be provided once the furnace is dispatched, allowing you to monitor the delivery status in real-time. Our logistics team works closely with trusted carriers to ensure timely and efficient delivery.

FAQ:

Q1: What is the brand name of the Iron Melting Furnace?

A1: The Iron Melting Furnace is manufactured by 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 comes with a patent, a national test report, and a quality management system certification.

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

A4: The minimum order quantity is 1 set. The price is to be negotiated based on your order details.

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

A5: The product is packaged with waterproof materials to ensure safety during transport. Delivery time ranges from 10 to 45 days depending on the order size.

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

A6: We accept T/T (Telegraphic Transfer) and L/C (Letter of Credit) as payment methods.

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

A7: The supply ability is 1,000,000 sets per year, ensuring a reliable supply for large orders.



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