

High Power Saving Iron Melting Furnace with Complete Safety and Quick Melting Speed for Foundry 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

- Failure: Low
- Delivery Port: Qingdao & Tianjin Or As Your Demand
- Safety System: Overheating Protection
- Service Time: Long
- Melting Speed: Quick
- Key Words: Induction Furnace
- Safety: Complete
- Operating temperature: Up To 1600°C
- Highlight: **high power iron melting furnace,
safety induction smelting machine,
foundry iron melting furnace**

Product Description

Product Description:

The HUARUI Medium Frequency Induction Iron Melting Furnace is specifically engineered to provide exceptional performance, high energy efficiency, and reliable operation for foundries and steel manufacturing facilities. This furnace is designed to melt a variety of ferrous metals, including cast iron and steel scrap, ensuring rapid melting cycles combined with precise temperature control. As a result, users benefit from high-quality molten metal that exhibits consistent composition and minimal oxidation.

Constructed with state-of-the-art power supply technology and durable lining materials, the furnace achieves outstanding thermal efficiency. This efficiency translates into significant reductions in power consumption and lower operational costs. Furthermore, the furnace is equipped with an intuitive PLC control system that facilitates smooth operation, simplifies maintenance tasks, and enhances overall safety for operators. Its compact footprint allows for easy integration into existing production lines, making it suitable for both batch and continuous melting processes.

Perfectly suited for applications such as casting, forging, and steelmaking, the HUARUI Iron Melting Furnace enhances productivity while minimizing metal loss. It also supports a stable and environmentally friendly melting process. By choosing HUARUI, customers invest in a durable, cost-effective, and high-performance solution that significantly improves 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 technology delivers high electrical efficiency, achieving up to 98% inverter efficiency, which enables rapid melting cycles, lowers energy consumption, and reduces operating costs.

It offers superior melting performance by ensuring quick and uniform heating through powerful electromagnetic stirring. This feature guarantees precise temperature control and promotes a homogeneous alloy composition, resulting in consistently high-quality molten iron.

Built with a robust and durable construction, the furnace features a heavy-duty steel frame, water-cooled cables, and premium refractory lining systems. These components are designed to provide an extended service life, maximize uptime, and withstand the challenges of demanding industrial environments.

The intelligent control system of the HUARUI furnace includes an automatic PLC along with a touch-screen HMI, simplifying operation and recipe management. It allows for real-time monitoring of critical parameters such as power, temperature, and cooling, and supports fault diagnosis to maintain optimal process control.

Enhanced safety and reliability are ensured through comprehensive protection mechanisms. These include monitoring water pressure and temperature, over-current and voltage protection, as well as earth leakage detection, guaranteeing fail-safe operation for both equipment and personnel.

The furnace design is both flexible and eco-friendly, providing different capacity options to accommodate various production scales. Its clean electric melting process significantly reduces noise, fumes, and emissions compared to traditional methods, contributing to a greener and healthier workshop environment.

Maintenance is simplified thanks to a design focused on serviceability, featuring accessible components and modular construction. This reduces maintenance time and effort considerably, helping to maximize overall productivity.

Technical Parameters:

Heat Loss	Low
Applicable Industries	Manufacturing Plant
Safety	Complete
Power Consumption	50 KW
Heat Transfer	High Efficiency
Delivery Port	Qingdao & Tianjin Or As Your Demand
Key Words	Induction Furnace
Marketing Type	Ordinary Product
Operating Temperature	Up To 1600°C
Power Saving	High

Applications:

The Huarui Iron Melting Furnace is an advanced smelting furnace designed to meet the rigorous demands of modern metal processing industries. Equipped with state-of-the-art technology, this melting furnace offers exceptional performance with an operating temperature of up to 1600°C, making it ideal for efficiently melting iron and other metals. Its high power-saving capability, consuming only 50 KW, ensures cost-effective operation without compromising productivity. The furnace is engineered for long service time and complete safety, guaranteeing reliable and secure usage in various industrial environments.

This iron melting furnace is suitable for a wide range of application occasions and scenarios. In foundries and metal casting plants, it plays a crucial role in melting raw iron materials to produce castings, molds, and other metal components. The furnace's high operating

temperature and durable design allow it to handle large quantities of iron efficiently, supporting high-volume production cycles. Additionally, its waterproof packaging and fast delivery time of 10 to 45 days make it an excellent choice for industries requiring quick setup and reliable shipment.

Manufacturers involved in automotive, construction, and heavy machinery sectors benefit greatly from the Huarui smelting furnace, as it provides consistent melting quality essential for producing high-strength iron parts. The furnace's customizable model number and flexible payment terms including T/T and L/C facilitate easy procurement tailored to specific operational needs. Furthermore, with a supply ability of up to 1,000,000 sets per year, Huarui ensures availability for both small-scale workshops and large industrial enterprises.

This melting furnace is also perfect for research and development facilities focused on metallurgy and materials science. Its certified quality, backed by patents, national test reports, and a robust quality management system, guarantees compliance with industrial standards. Whether used for experimental purposes or full-scale production, the Huarui iron melting furnace promises optimal performance, energy efficiency, and long-term durability, making it an indispensable asset in the smelting furnace market.

Customization:

Huarui offers customized iron melting furnace solutions tailored to meet your specific industrial needs. Our iron melting furnace, model number to be customized, is designed with high power efficiency, consuming only 50 KW while ensuring high power saving performance. Certified with Patent, National Test Report, and Quality Management System, this industrial melting furnace guarantees complete safety and reliable operation.

Each iron melting furnace is packaged with waterproof materials to ensure safe delivery, with a delivery time ranging from 10 to 45 days depending on your order. We accept various payment terms including T/T and L/C, and we support a minimum order quantity of just 1 set, making it convenient for both small and large scale operations.

With a supply ability of 1,000,000 sets per year, Huarui assures you of consistent availability and timely installation. Our industrial melting furnace is designed for easy installation, allowing you to integrate it seamlessly into your production line. Pricing is flexible and open for negotiation to best suit your budget and requirements.

Choose Huarui's iron melting furnace for an ordinary product that stands out due to its advanced features, safety, and efficiency in the industrial melting furnace market.

Support and Services:

Our Iron Melting Furnace is designed to provide efficient and reliable melting performance for various industrial applications. For technical support, please ensure you have the product model number and serial number available when seeking assistance. Our support team is equipped to help with installation guidance, operational troubleshooting, maintenance procedures, and performance optimization.

We offer comprehensive services including on-site installation, routine maintenance, and repair services to ensure your furnace operates at peak efficiency. Regular maintenance is recommended to prolong the life of the furnace and prevent unexpected downtime. This includes checking refractory linings, inspecting electrical components, and verifying temperature control systems.

In addition to direct support, we provide detailed user manuals and operational guidelines to assist with the safe and effective use of the Iron Melting Furnace. Training sessions and workshops are available upon request to help your team understand the best practices for furnace operation and safety protocols.

For spare parts and upgrades, we recommend using only authorized components to maintain the integrity and performance of your furnace. Our technical support team can guide you in selecting the appropriate parts and scheduling timely replacements.

We are committed to delivering exceptional customer service and support to maximize the productivity and lifespan of your Iron Melting Furnace. Please refer to the product documentation for warranty information and service terms.

Packing and Shipping:

Product Packaging:

The Iron Melting Furnace is carefully packaged to ensure safe delivery and optimal protection during transit. The furnace is first wrapped with protective foam and plastic film to prevent scratches and dust accumulation. It is then securely placed inside a sturdy wooden crate designed to withstand heavy handling and external impacts. The crate is reinforced with metal straps and labeled with handling instructions and fragile warnings to ensure careful transportation.

Shipping:

Shipping of the Iron Melting Furnace is handled by specialized freight services experienced in transporting heavy industrial equipment. The product can be shipped via sea, air, or land freight depending on the destination and customer preference. Prior to shipment, all necessary customs documentation and export permits are prepared. The furnace is loaded using appropriate lifting equipment to avoid any damage, and tracking information is provided to the customer for real-time shipment updates. Delivery timelines are coordinated to ensure timely arrival and installation support if required.

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 be customized?

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

Q3: What certifications does the Iron Melting Furnace have?

A3: The Iron Melting Furnace holds a patent, a National Test Report, and complies with the 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 to be negotiated based on your order details.

Q5: What are the payment terms and delivery time for the Iron Melting Furnace?

A5: Payment can be made via T/T or L/C. The delivery time ranges from 10 to 45 days depending on the order size and customization.



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