

Maintenance-free Melting Furnace For Copper, Aluminum, Iron And Other Metals, High Efficiency And Energy Saving.

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

- Installation: Easy
- Key Words: Induction Furnace
- Applicable Industries: Manufacturing Plant
- Failure: Low
- Heat Loss: Low
- Melting Speed: Quick
- Noise: Low Noise Level.



Product Description

Product Description:

HUARUI's Medium Frequency Induction Iron Melting Furnace is specifically designed to provide exceptional performance, energy efficiency, and reliable operation for foundries and steel manufacturing plants. This furnace is capable of melting a variety of ferrous metals, such as cast iron and steel scrap, ensuring rapid melting processes combined with precise temperature control. The result is high-quality molten metal characterized by consistent composition and minimal oxidation.

The furnace adopts advanced power supply technology paired with durable lining materials, delivering excellent thermal efficiency. This innovative design greatly cuts power consumption and lowers operating costs. Fitted with an intuitive PLC control system, it ensures simple operation, easy maintenance and enhanced safety. Its compact structure enables smooth integration into existing production lines and supports both batch and continuous melting processes.

Perfectly suited for casting, forging and steelmaking applications, the HUARUI Iron Melting Furnace boosts productivity while minimizing metal waste. Furthermore, its stable and efficient operation enables an eco-friendly melting process. Choosing HUARUI means investing in a robust, cost-effective, high-performance melting solution to strengthen your metal production capacity.

Features:

Features of HUARUI Iron Melting Furnace

The HUARUI Iron Melting Furnace employs advanced medium frequency technology, utilizing a cutting-edge IGBT-based power supply. This technology delivers high electrical efficiency, reaching up to 98% inverter efficiency. As a result, the furnace enables rapid melting cycles while simultaneously reducing energy consumption and lowering overall operating costs.

The furnace ensures superior melting performance by achieving fast and uniform heating through powerful electromagnetic stirring. This process guarantees precise temperature control and produces a homogeneous alloy composition, which results in consistently high-quality molten iron.

Built with robustness and durability in mind, the furnace features a heavy-duty steel structure complemented by water-cooled cables and a high-grade refractory lining system. These components are designed to provide extended service life, maximize operational uptime, and withstand the demands of challenging industrial environments.

An intelligent control system is integrated into the furnace, combining an automatic PLC with a user-friendly touch-screen HMI. This system simplifies operation, enables recipe management, and offers real-time monitoring of critical parameters such as power, temperature, and cooling. Additionally, it provides fault diagnosis capabilities to ensure optimal process control.

Safety and reliability are paramount, and the furnace is equipped with comprehensive protection systems. These include water pressure and temperature monitoring, over-current and over-voltage protection, as well as earth leakage detection, all contributing to fail-safe operation that safeguards both the equipment and personnel.

The HUARUI Iron Melting Furnace offers a flexible and eco-friendly design, with capacity options tailored to accommodate various production scales. Its clean electric melting process produces less noise, fumes, and emissions compared to traditional methods, promoting a greener and healthier workshop environment.

Maintenance is made easy through thoughtful design featuring accessible components and modular construction. This approach significantly reduces maintenance time and effort, helping to maximize overall productivity.

Technical Parameters:

Installation	Easy
Applicable Industries	Manufacturing Plant
Service Time	Long
Heat Transfer	High Efficiency
Key Words	Induction Furnace
Heat Loss	Low
Delivery Port	Qingdao & Tianjin Or As Your Demand
Failure	Low
Safety	Complete
Power Saving	High

Applications:

The Huarui iron melting furnace is a highly efficient and reliable solution designed for diverse industrial applications requiring precise and consistent metal melting processes. This melting furnace is ideal for foundries, metal casting plants, and manufacturing units where iron and other metals need to be melted with minimal heat loss and maximum safety. Thanks to its patented technology and compliance with national test reports and quality management systems, the Huarui iron melting furnace ensures superior performance and long service life, making it suitable for continuous and heavy-duty operations.

One of the primary application occasions for the Huarui melting furnace is in the production of iron castings for automotive, construction, and machinery industries. The furnace's low heat loss characteristic improves energy efficiency, reducing operational costs while maintaining high melting quality. Its advanced overheating protection safety system guarantees complete safety during the melting process, protecting both the equipment and operators from potential hazards. This makes the melting furnace especially valuable in environments where safety standards must be rigorously upheld.

Additionally, the Huarui iron melting furnace can be customized to meet specific client requirements, allowing it to adapt to various production scales and metal types. Whether used in small workshops or large industrial plants, the furnace's robust design and waterproof packaging ensure durability and reliability under different working conditions. With a supply capacity of up to 1,000,000 sets per year and a delivery time ranging from 10 to 45 days, customers can expect timely fulfillment of orders, backed by flexible payment terms such as T/T and L/C.

In scenarios where high production volume and consistent quality are critical, the Huarui melting furnace stands out as an ordinary yet exceptional product that combines efficiency, safety, and longevity. Its comprehensive safety system, long service time, and easy customization make it the preferred choice for industries seeking dependable melting furnace solutions. Furthermore, the minimum order quantity of just one set allows businesses of all sizes to integrate this cutting-edge melting furnace into their operations without unnecessary constraints.

Customization:

Huarui offers customized Iron Melting Furnace solutions designed to meet your specific requirements. Our induction furnace models are tailored to ensure quick melting speed and efficient performance, suitable for various manufacturing plants.

The model number is to be customized according to your needs, with certification including Patent, National Test Report, and Quality Management System to guarantee quality and reliability.

We accept a minimum order quantity of 1 set, with prices to be negotiated to provide the best value for your investment. All units are packaged with waterproof materials to ensure safe delivery.

Delivery time ranges from 10 to 45 days, supported by flexible payment terms such as T/T and L/C. Our supply ability reaches up to 1,000,000 sets per year, ensuring we can meet large-scale demands.

The iron melting furnace features an advanced safety system with overheating protection and operates at temperatures up to 1600°C, making it a robust solution for your melting furnace needs.

Choose Huarui's induction furnace for a reliable, efficient, and customizable iron melting furnace solution that supports your manufacturing plant's productivity and safety requirements.

Support and Services:

Our Iron Melting Furnace product is supported by a dedicated technical service team committed to ensuring optimal performance and customer satisfaction. We provide comprehensive installation guidance, routine maintenance support, and troubleshooting assistance to help you maximize the efficiency and lifespan of your furnace.

Our specialists provide both on-site and remote technical support, covering system diagnostics, operational training and equipment repair services. We also supply genuine spare parts and upgrade kits to maintain your equipment at peak performance.

Regular maintenance services are recommended to prevent unexpected downtime and to maintain the quality of your melting processes. Our team can assist with scheduled inspections, cleaning, and calibration to ensure your furnace operates safely and efficiently.

For customized service plans and extended warranty options, please consult with our support team to tailor solutions that meet your specific operational needs.

Packing and Shipping:

Our Iron Melting Furnace is carefully packaged to ensure safe delivery and optimal protection during transit. Each unit is securely wrapped with industrial-grade protective materials, including foam padding and shock-absorbent blankets, to prevent any damage from impacts or vibrations.

The furnace is then placed inside a sturdy wooden crate designed to withstand heavy handling and harsh shipping conditions. The crate is reinforced with metal brackets and sealed to protect against moisture, dust, and corrosion.

For shipping, we offer multiple options including sea freight, air freight, and land transportation, depending on the destination and customer requirements. All shipments are thoroughly inspected before dispatch and are accompanied by detailed documentation to facilitate smooth customs clearance.

Upon receiving the Iron Melting Furnace, customers are advised to carefully inspect the packaging for any signs of damage and report any issues immediately to our customer service team. We prioritize safe and timely delivery to ensure your equipment arrives in perfect

working condition.



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