

Electric Induction Melting System with PLC Control System Overheat Protection and 90% Energy Efficiency for Precise Metal Melting

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Huarui
- Certification: Patent ; national testing report; quality management system certificate
- Model Number: medium frequency
- Minimum Order Quantity: 1
- Price: to be negotiated
- Packaging Details: waterproof ; secure ; vibration proof
- Delivery Time: 20~45 days
- Payment Terms: T/T; L/C
- Supply Ability: 10000 sets/ year



Product Specification

- Control System: PLC
- Cooling Water Flow: 5-10L/min
- Frequency Voltage: 129
- Operating Voltage: 380V
- Energy Efficiency: 90%
- Advantage: Energy Saving
- Power Supply: Electric
- Melting Chamber Material: Ceramic
- Highlight: **PLC Control System Induction Melting System , Overheat Protection Medium Frequency Melting Furnace**

90% Energy Efficiency Electric Induction Melting Furnace

Product Description:

The Induction Melting System is a state-of-the-art medium frequency melting furnace designed to deliver exceptional performance and efficiency for a wide range of melting applications. This electric induction melting furnace is engineered with advanced technology to ensure rapid melting speeds, high safety standards, and reliable operation, making it an ideal choice for foundries, metal processing plants, and industrial manufacturing facilities.

One of the standout features of this medium frequency melting furnace is its impressive melting speed. With the capability to melt metals within just 1 to 5 minutes, the system significantly reduces processing time compared to traditional melting methods. This rapid melting capability enhances productivity and allows for quicker turnaround times in production cycles, ultimately boosting overall operational efficiency.

The electric induction melting furnace operates at a frequency voltage of 129, which is optimized to provide consistent and stable heating during the melting process. This frequency ensures uniform heat distribution within the furnace, leading to improved metal quality and reduced energy consumption. The precise control over the melting parameters allows operators to achieve the desired metal properties with high accuracy, promoting superior end-product performance.

Safety is a paramount consideration in the design of this medium frequency melting furnace. The system is equipped with advanced overhear protection mechanisms that monitor temperature levels in real-time and automatically shut down the furnace in case of any abnormal temperature rise. This feature prevents potential damage to the equipment and eliminates safety hazards associated with overheating, ensuring a safe working environment for operators.

In addition to overhear protection, the Induction Melting System boasts a high level of overall safety. Its robust construction and integrated safety protocols comply with stringent industry standards, providing peace of mind to users. The furnace's design incorporates protective barriers and secure electrical connections that minimize the risk of electrical faults and accidental contact, further enhancing operational safety.

Efficient cooling is critical to maintaining the performance and longevity of an induction melting furnace. This system employs an advanced water cooling method that effectively dissipates heat generated during the melting process. The water cooling system not only keeps the furnace components at optimal operating temperatures but also contributes to energy conservation by preventing overheating and reducing thermal stress on the equipment. This cooling solution ensures continuous operation without interruptions, supporting high-volume production requirements.

The Induction Melting System's integration of these key features makes it a versatile and reliable medium frequency melting furnace suitable for melting various metals such as aluminum, copper, brass, and precious metals. Its electric induction melting furnace technology offers a clean and environmentally friendly alternative to conventional melting techniques by minimizing emissions and reducing energy waste.

In summary, this medium frequency melting furnace combines rapid melting speed, optimized frequency voltage, advanced safety features including overhear protection, and an efficient water cooling system to deliver a high-performance melting solution. Whether for small-scale workshops or large industrial plants, the Induction Melting System provides a safe, fast, and energy-efficient way to melt metals with precision and reliability. Investing in this electric induction melting furnace ensures enhanced productivity, improved metal quality, and a safer working environment, making it an indispensable asset in modern metal processing operations.

Applications:

The Huarui Induction Melting System, featuring the medium frequency melting furnace model, is an advanced electric induction melting furnace designed to meet the rigorous demands of modern metallurgical processes. Originating from China, this system is renowned for its high safety standards and energy efficiency, boasting an impressive 90% energy-saving performance. Equipped with water cooling technology and operating at a frequency voltage of 129, the system ensures reliable and stable melting operations, making it ideal for various industrial applications.

This induction melting furnace system is widely used in foundries, metal casting workshops, and manufacturing plants where precise and efficient melting of metals is critical. Its medium frequency melting furnace design allows for rapid heating and uniform temperature distribution, significantly improving melting quality and production efficiency. The system's robustness and high safety features make it suitable for continuous operation in demanding environments, ensuring operator protection and minimizing downtime.

Thanks to its patented technology and certifications, including national testing reports and quality management system certificates, the Huarui electric induction melting furnace guarantees superior performance and compliance with industry standards. The system is packaged securely with waterproof, vibration-proof materials to ensure safe delivery and installation, with a typical delivery time ranging from 20 to 45 days. Customers can order as few as one unit, with a supply ability of up to 10,000 sets per year, and flexible payment terms such as T/T and L/C.

Its energy-saving advantage not only reduces operational costs but also supports sustainable manufacturing practices. The induction melting furnace system is perfect for metal industries requiring high precision and efficiency, including steel, aluminum, copper, and alloy melting applications. Whether for small-scale workshops or large industrial facilities, the Huarui medium frequency melting furnace offers a reliable and cost-effective melting solution tailored to diverse production needs.

In summary, the Huarui medium frequency induction melting furnace system is an excellent choice for anyone seeking a high-performance, energy-efficient, and safe electric induction melting furnace. Its advanced features, comprehensive certifications, and robust supply capabilities make it a leading product in the electric induction melting furnace market.

Customization:

Huarui offers customized Product Customization Services for their Induction Melting System, specifically designed to meet diverse industrial needs. Our medium frequency melting furnace model is engineered with advanced features, including a high energy efficiency of 90% and a robust ceramic melting chamber material for enhanced durability.

Originating from China, the melting furnace system comes with comprehensive certifications such as Patent, national testing report, and quality management system certificate, ensuring superior quality and reliability. Each unit operates at a voltage of 380V and incorporates a sophisticated PLC control system for precise and automated operations.

We provide flexible customization options with a minimum order quantity of 1 set, and pricing is negotiable to accommodate your specific requirements. Our packaging is designed to be waterproof, secure, and vibration proof, guaranteeing safe delivery.

With a supply ability of 10,000 sets per year, Huarui ensures timely delivery within 20 to 45 days. The cooling water flow rate of 5-10L/min

optimizes the melting process in our medium frequency melting furnace, enhancing performance and longevity. Payment terms include T/T and L/C for your convenience.
Choose Huarui's melting furnace system for a reliable, efficient, and customizable solution tailored to your industrial melting needs.

Support and Services:

Our Induction Melting System is designed to provide efficient and precise melting solutions for a variety of metals and alloys. To ensure optimal performance and longevity of your system, we offer comprehensive technical support and services.

Technical Support:

Our experienced technical support team is available to assist you with installation, operation, troubleshooting, and maintenance of your Induction Melting System. We provide detailed user manuals, operational guidelines, and quick troubleshooting tips to help you resolve common issues promptly.

Maintenance Services:

Regular maintenance is crucial for the reliable operation of your Induction Melting System. Our service packages include periodic inspections, calibration, cleaning, and replacement of worn components to prevent downtime and extend the life of your equipment.

Training Programs:

We offer customized training sessions for your personnel to ensure safe and efficient use of the Induction Melting System. Training covers system operation, safety protocols, routine maintenance, and best practices to maximize productivity.

Upgrades and Customization:

To keep your Induction Melting System up-to-date with the latest technology and tailored to your specific needs, we provide upgrade options and customization services. Our engineers work closely with you to implement enhancements that improve performance and adapt to changing requirements.

Spare Parts and Accessories:

We supply genuine spare parts and accessories to maintain the quality and reliability of your Induction Melting System. Using original components ensures compatibility and preserves the system's warranty and efficiency.

For any technical support or service inquiries, please refer to your product documentation or visit our website for more information on how we can assist you in maximizing the value of your Induction Melting System.

Packing and Shipping:

Product Packaging:

The Induction Melting System is carefully packaged to ensure maximum protection during transportation. Each unit is securely wrapped with anti-static and cushioning materials to prevent any damage from shocks or vibrations. The system components are placed in custom-fit foam inserts within sturdy, double-walled corrugated cardboard boxes. Additionally, all accessories and manuals are neatly organized and included in the package. For added safety, the outer packaging is clearly labeled with handling instructions and fragile warnings.

Shipping:

We offer reliable shipping options to deliver the Induction Melting System safely to your location. The product is shipped via trusted carriers with full tracking and insurance coverage. Depending on the destination, shipping methods include standard ground freight, expedited air freight, or sea freight for international orders. Prior to dispatch, each system undergoes a final quality check and is accompanied by all necessary documentation, including a packing list, user manual, and warranty information. Customers will receive tracking details promptly after shipment is processed.

FAQ:

Q1: What is the brand and model of the Induction Melting System?

A1: The Induction Melting System is branded as Huarui and the model number is medium frequency.

Q2: Where is the Induction Melting System manufactured?

A2: The product is made in China.

Q3: What certifications does the Induction Melting System have?

A3: It holds a patent, a national testing report, and a quality management system certificate.

Q4: What are the packaging details for the Induction Melting System?

A4: The packaging is waterproof, secure, and vibration proof to ensure safe delivery.

Q5: What are the payment terms and delivery time for this product?

A5: Payment terms accepted are T/T and L/C. Delivery time ranges from 20 to 45 days.

Q6: What is the minimum order quantity and supply ability of the Induction Melting System?

A6: The minimum order quantity is 1 set, with a supply ability of 10,000 sets per year.

Q7: How is the price determined for the Induction Melting System?

A7: The price is to be negotiated based on order quantity and specifications.



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