

## 380V Operating Voltage PLC Control System Energy Saving Induction Melting System for Industrial 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

- Power Supply: Electric
- Control System: PLC
- Advantage: Energy Saving
- Melting Speed: 1-5 Minutes
- Melting Chamber Material: Ceramic
- Operating Voltage: 380V
- Safety Features: Overheat Protection
- Type: 0.5ton
- Highlight: **380V Operating Voltage Induction Melting System , PLC Control System Melting Furnace System , Energy Saving Medium Frequency Melting Furnace**

### Product Description:

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The Induction Melting System is a state-of-the-art melting furnace designed to provide efficient and reliable metal melting solutions for various industrial applications. This advanced induction melting furnace system incorporates cutting-edge technology to ensure optimal performance, energy efficiency, and user-friendly operation. Equipped with a PLC control system, the Induction Melting System offers precise and automated control over the melting process, enhancing productivity while maintaining consistent quality.

One of the standout features of this medium frequency melting furnace is its power supply, which is entirely electric. This not only contributes to a cleaner and more environmentally friendly operation but also ensures stable and continuous power delivery required for high-quality metal melting. The system operates at a frequency voltage of 129, which is optimized to deliver efficient induction heating, resulting in rapid and uniform melting of metals.

Energy saving is a critical advantage of this induction melting furnace system. By utilizing medium frequency induction technology, the furnace significantly reduces energy consumption compared to traditional melting methods. The precision control offered by the PLC system allows for accurate temperature regulation and melting time, minimizing energy waste and operational costs. This makes the Induction Melting System an ideal choice for industries aiming to improve their energy efficiency and reduce their carbon footprint. Cooling is another vital aspect of the Induction Melting System, ensuring the longevity and safety of the equipment during continuous operation. The system features an efficient cooling water flow mechanism, with a flow rate ranging from 5 to 10 liters per minute. This cooling system effectively dissipates the heat generated during the melting process, protecting the furnace components from overheating and potential damage. The balanced cooling water flow also helps maintain stable operating temperatures, contributing to the overall reliability and durability of the melting furnace.

Designed with versatility and scalability in mind, the medium frequency melting furnace is suitable for melting a wide range of metals, including ferrous and non-ferrous materials. Its robust construction and advanced control system make it ideal for foundries, metal casting plants, and other industrial settings where precision and efficiency are paramount. The induction melting furnace system can be customized to meet specific production requirements, ensuring that it fits seamlessly into existing manufacturing workflows.

The integration of a PLC control system in this induction melting system allows operators to monitor and adjust process parameters with ease. Automated controls reduce the likelihood of human error, enhance safety, and enable real-time data collection for process optimization. This level of control contributes to consistent metal quality, improved yield, and reduced downtime, making the system a valuable asset for any metal melting operation.

In summary, the Induction Melting System is a highly efficient, energy-saving melting furnace that combines medium frequency induction technology with a sophisticated PLC control system. Its electric power supply, optimized frequency voltage of 129, and effective cooling water flow rate of 5-10L/min ensure stable and reliable melting performance. Whether used in small-scale workshops or large industrial plants, this induction melting furnace system stands out as a modern solution that enhances productivity, reduces operational costs, and supports sustainable manufacturing practices.

### Applications:

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The Huarui Induction Melting System, model number medium frequency, is a cutting-edge medium frequency melting furnace designed for various industrial applications. Originating from China, this melting furnace is renowned for its energy-saving capabilities and advanced control system powered by PLC technology. Certified with patents, national testing reports, and a quality management system certificate, the Huarui medium frequency melting furnace guarantees reliability and high performance in every operation.

This melting furnace is ideal for occasions where precise and efficient metal melting is required. It is widely used in foundries, metal casting factories, and manufacturing plants dealing with non-ferrous and ferrous metals. The energy-saving advantage ensures reduced operational costs, making it suitable for industries seeking sustainable production methods. The medium frequency melting furnace is also favored in research and development labs where controlled melting conditions are necessary for experimentation and material testing.

In terms of scenarios, the Huarui medium frequency melting furnace excels in environments demanding safety and durability. Equipped with overheat protection, it ensures safe operation even under intensive workloads. Its electric power supply and frequency voltage of 129 provide stable and consistent heating performance, essential for high-quality metal melting. The system's packaging is designed to be waterproof, secure, and vibration-proof, making it ideal for transportation and installation in diverse industrial settings.

With a minimum order quantity of just one set and a supply ability of 10,000 sets per year, the Huarui medium frequency melting furnace is accessible to both small-scale and large enterprises. The delivery time ranges from 20 to 45 days, and payment terms include T/T and L/C, offering flexibility to buyers. This melting furnace is perfect for applications requiring efficient, safe, and reliable melting solutions, whether for mass production or specialized projects.

In summary, the Huarui Induction Melting System is a versatile medium frequency melting furnace that combines advanced technology, safety features, and energy efficiency. Its robust design and comprehensive certifications make it an excellent choice for any industry seeking a dependable melting furnace to enhance productivity and quality.

### Customization:

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Huarui offers customized Product Customization Services for its medium frequency melting furnace, tailored to meet your specific industrial needs. Our induction melting furnace system, model number medium frequency, is manufactured in China and comes with comprehensive certifications including Patent, national testing report, and quality management system certificate, ensuring high quality and reliability.

We accept a minimum order quantity of 1 unit, with prices to be negotiated based on your customization requirements. Each melting furnace is carefully packaged with waterproof, secure, and vibration-proof materials to guarantee safe delivery. Delivery time ranges from 20 to 45 days depending on order specifications.

Our supply ability is up to 10,000 sets per year, supported by flexible payment terms including T/T and L/C. The medium frequency melting furnace features a rapid melting speed of 1-5 minutes, utilizing a ceramic melting chamber and efficient water cooling method for optimal performance.

Safety is paramount in our induction melting furnace system, equipped with overheat protection and designed with high safety standards to ensure reliable and secure operation in your production environment.

## Support and Services:

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Our Induction Melting System is supported by a dedicated team of technical experts committed to ensuring optimal performance and reliability. We provide comprehensive installation guidance, routine maintenance support, and troubleshooting assistance to minimize downtime and maximize productivity.

We offer detailed user manuals and technical documentation to help operators understand system features and safe operating procedures. Our support services include software updates and calibration checks to maintain precision and efficiency.

Additionally, we provide training programs tailored to your team's needs, covering operational best practices and safety protocols. In the event of technical issues, our service team is equipped to diagnose problems promptly and recommend effective solutions.

Our commitment extends to supplying genuine spare parts and accessories to ensure the longevity and consistent performance of your Induction Melting System. We strive to deliver prompt and professional technical support to keep your operations running smoothly.

## Packing and Shipping:

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### Product Packaging:

The Induction Melting System is carefully packaged to ensure maximum protection during transit. The system is securely placed in a custom-designed wooden crate with internal foam padding to prevent any movement or damage. All fragile components are individually wrapped with protective materials. The packaging is labeled with handling instructions and includes all necessary documentation such as user manuals, warranty cards, and safety guidelines.

### Shipping:

We offer reliable shipping options to deliver the Induction Melting System safely to your location. The product can be shipped via air or sea freight depending on the destination and customer preference. Tracking information will be provided once the shipment is dispatched. Our logistics partners ensure timely delivery, and we provide support throughout the shipping process to address any concerns or special requirements.

## FAQ:

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

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

### Q2: Where is the Induction Melting System manufactured?

A2: The Induction Melting System is made in China.

### Q3: What certifications does the Induction Melting System have?

A3: The system 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 product is packaged to be waterproof, secure, and vibration proof to ensure safe delivery.

### Q5: What are the payment terms and delivery time for ordering the Induction Melting System?

A5: Payment can be made via T/T or L/C, and delivery time ranges from 20 to 45 days depending on the order.

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

A6: The minimum order quantity is 1 set, and the supply ability is 10,000 sets per year.

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

A7: The price is negotiable based on order specifications and quantity.



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