

90% Energy Efficiency 380V Induction Melting Furnace with Ceramic Melting Chamber 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

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

Product Description:

The Induction Melting System is a state-of-the-art melting furnace designed to deliver exceptional performance and energy efficiency for a wide range of melting applications. Equipped with a sophisticated PLC control system, this melting furnace system ensures precise and reliable operation, allowing users to maintain optimal melting conditions with ease and accuracy. The integration of a programmable logic controller (PLC) enables automated control of temperature, power, and timing, providing enhanced process stability and reducing the likelihood of human error during operation.

Operating at a standard voltage of 380V, the Induction Melting System is compatible with industrial power supplies, making it suitable for various manufacturing environments. This operating voltage ensures consistent power delivery to the induction coil, promoting uniform heating and efficient melting of metals and alloys. The system's design optimizes electrical consumption while maintaining high performance, making it an ideal choice for industries seeking to balance productivity with operational costs.

One of the standout features of this melting furnace system is its impressive energy efficiency, rated at 90%. This high level of energy efficiency translates to significant cost savings and reduced environmental impact compared to traditional melting furnaces. The system's advanced induction technology focuses energy directly on the metal charge, minimizing heat loss and ensuring rapid melting cycles. By maximizing energy transfer, the Induction Melting System not only reduces electricity consumption but also shortens processing times, enhancing overall throughput.

The melting chamber of the furnace is constructed from high-quality ceramic materials, which offer excellent thermal insulation and durability. Ceramic is renowned for its ability to withstand extreme temperatures and resist thermal shock, making it an ideal choice for the melting chamber lining. This robust material helps maintain consistent internal temperatures while protecting the furnace structure from damage, thereby extending the lifespan of the melting furnace. Additionally, the ceramic melting chamber contributes to the system's energy-saving capabilities by effectively retaining heat within the melting zone.

Energy saving is a core advantage of the Induction Melting System. By utilizing induction heating technology combined with advanced control mechanisms and superior insulation materials, the system achieves substantial reductions in energy consumption. This not only lowers operational costs but also supports sustainable manufacturing practices by reducing greenhouse gas emissions associated with melting processes. Manufacturers adopting this melting furnace system can expect enhanced efficiency without compromising on melting quality or throughput.

Overall, the Induction Melting System represents a modern, efficient, and reliable solution for industrial melting needs. Its PLC-based control system offers precise and automated operation, while the 380V operating voltage ensures compatibility with existing power infrastructure. The ceramic melting chamber enhances durability and thermal efficiency, contributing to the system's outstanding 90% energy efficiency rating. These features collectively make the melting furnace an excellent choice for industries aiming to improve productivity, reduce energy costs, and promote environmentally responsible manufacturing.

Whether used for melting metals in foundries, recycling facilities, or manufacturing plants, this melting furnace system delivers consistent, high-quality results with minimized energy waste. Its combination of advanced technology, durable materials, and energy-saving design principles sets it apart as a leading option in the field of melting furnace solutions. Investing in the Induction Melting System means embracing innovation and sustainability while achieving superior melting performance.

Applications:

The Huarui Induction Melting System, specifically the medium frequency melting furnace model, is a highly efficient and reliable solution designed for various industrial melting applications. Originating from China, this electric induction melting furnace is renowned for its advanced features and superior performance, making it an ideal choice for foundries, metal processing plants, and research laboratories that require precise and rapid melting of metals.

This Induction Melting System is particularly suitable for occasions where energy efficiency and safety are paramount. Equipped with overheat protection, the furnace ensures safe operation, minimizing risks during high-temperature melting processes. Its ceramic melting chamber offers excellent thermal insulation and durability, enhancing the furnace's overall lifespan and performance. The medium frequency power supply optimizes energy consumption, contributing to significant energy savings compared to traditional melting systems.

In terms of application scenarios, the Huarui medium frequency melting furnace is widely used in the melting of various metals such as aluminum, copper, gold, and other non-ferrous metals. It is an essential tool in metal casting workshops, jewelry manufacturing, and electronic component production where precise temperature control and contamination-free melting are critical. The system's compact design and electric power supply make it suitable for both small-scale and large-scale production environments.

The product is backed by several certifications, including a patent, national testing report, and a quality management system certificate, ensuring its compliance with international standards. The packaging is carefully designed to be waterproof, secure, and vibration-proof, guaranteeing safe transportation and delivery within 20 to 45 days. With a supply ability of 10,000 sets per year and flexible payment terms such as T/T and L/C, Huarui provides a reliable supply chain for clients worldwide.

With a minimum order quantity of just one unit and price negotiable, the Huarui Induction Melting System offers a cost-effective and sustainable melting solution. Whether for industrial manufacturing or laboratory research, this electric induction melting furnace delivers exceptional performance, safety, and energy efficiency, making it a valuable asset in any metal melting operation.

Customization:

Huarui offers comprehensive product customization services for the Induction Melting System, specifically designed for the medium frequency melting furnace model. Originating from China, our melting furnace system is certified with patents, national testing reports, and quality management system certificates, ensuring top-notch quality and safety.

We accept a minimum order quantity of 1 unit, with pricing to be negotiated based on your specific requirements. Each Induction Melting System is carefully packaged to be waterproof, secure, and vibration proof, guaranteeing safe delivery. Our standard delivery time ranges from 20 to 45 days, supported by flexible payment terms including T/T and L/C.

With a supply ability of 10,000 sets per year, Huarui ensures reliable availability of our medium frequency melting furnace. The system features a high safety standard and is equipped with a PLC control system for precise operation. It operates at a frequency voltage of 129 and an operating voltage of 380V, achieving efficient melting speeds of 1-5 minutes.

Choose Huarui's customized Induction Melting System to experience advanced technology and exceptional performance in your melting furnace system needs.

Support and Services:

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 services, and prompt troubleshooting assistance to minimize downtime and enhance productivity.

Technical support includes detailed operational training, system diagnostics, and software updates tailored to your specific melting requirements. Our services also encompass custom configuration options and upgrades to keep your system aligned with the latest technological advancements.

We understand the critical nature of induction melting processes in your operations and strive to deliver timely and effective solutions. Whether you need assistance with system calibration, component replacement, or performance optimization, our support team is equipped to help you achieve consistent and high-quality melting results.

Regular maintenance programs are available to extend the lifespan of your equipment and ensure safety standards are met. Additionally, we offer comprehensive service contracts that include priority support and scheduled system inspections.

Partnering with us means you receive not only a state-of-the-art Induction Melting System but also a reliable support network dedicated to your success.

Packing and Shipping:

Product Packaging:

The Induction Melting System is carefully packaged to ensure safety and protection during transportation. The system is securely placed in a custom-designed, shock-resistant wooden crate with foam padding to prevent any damage from impacts or vibrations. All detachable components are individually wrapped and cushioned. The packaging is labeled with handling instructions and includes waterproof covers to protect against moisture.

Shipping:

We offer worldwide shipping for the Induction Melting System through reliable freight and courier services. The shipment is insured and tracked from our facility to the delivery destination. Depending on the order size and destination, the system can be shipped via air freight or sea freight. Our logistics team coordinates with customers to ensure timely delivery and provides all necessary customs documentation for smooth import clearance.

FAQ:

Q1: What is the brand and model number 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: This product 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 the Induction Melting System?

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

Q6: What is the minimum order quantity and supply ability for this product?

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 to be negotiated based on order quantity and specific customer requirements.



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