



High Safety Induction Melting System with Water Cooling and PLC Control for Efficient Metal Processing

Our Product Introduction

for more products please visit us on melt-furnaces.com

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

- Type: 0.5ton
- Cooling Method: Water Cooling
- Control System: PLC
- Operating Voltage: 380V
- Melting Speed: 1-5 Minutes
- Safety: High
- Frequency Voltage: 129
- Power Supply: Electric
- Highlight: **Water Cooling Induction Melting System,
PLC Control Melting Furnace,
High Safety Induction Furnace**

Product Description:

The Induction Melting System is an advanced melting furnace designed to provide efficient and precise melting solutions for various industrial applications. Utilizing cutting-edge induction heating technology, this melting furnace offers rapid heating and uniform temperature distribution, ensuring high-quality melting performance and energy efficiency. The system is engineered to meet the demanding requirements of metal melting, casting, and alloy production, making it an indispensable tool for foundries, metalworking shops, and manufacturing facilities.

One of the key features of this Induction Melting System is its electric power supply, operating at a stable voltage of 380V. This ensures consistent and reliable energy delivery to the melting furnace, optimizing the melting process and reducing operational downtime. The electric power supply also contributes to the system's eco-friendliness by minimizing emissions and promoting energy conservation compared to traditional fuel-based melting methods.

The melting chamber of the furnace is constructed from high-quality ceramic material, which offers excellent thermal insulation and resistance to high temperatures. The ceramic melting chamber enhances the durability and longevity of the furnace while maintaining the purity of the molten metal by preventing contamination. This makes the Induction Melting System ideal for melting a wide range of metals and alloys with precision and safety.

Cooling is a critical aspect of the melting furnace's operation, and this Induction Melting System incorporates an efficient water cooling method to maintain optimal operating temperatures. The system requires a cooling water flow rate of 5-10 liters per minute, which effectively dissipates the heat generated during the induction heating process. This water cooling mechanism not only protects the internal components of the melting furnace from overheating but also ensures continuous and stable operation, enhancing overall productivity.

Designed with user convenience and safety in mind, the Induction Melting System features a compact and ergonomic design that simplifies installation and maintenance. Its advanced control system allows operators to precisely regulate the melting temperature and duration, ensuring consistent results and reducing material waste. Additionally, the system's water cooling method and ceramic melting chamber work together to minimize thermal stress and extend the lifespan of the melting furnace.

The versatility of this melting furnace makes it suitable for a broad spectrum of applications, including metal recycling, alloy production, and precision casting. Whether melting ferrous or non-ferrous metals, the Induction Melting System delivers superior performance, energy savings, and environmental benefits. Its electric power supply and water cooling technology set it apart from conventional melting furnaces, providing a cleaner, safer, and more efficient melting solution.

In summary, the Induction Melting System is a state-of-the-art melting furnace that combines electric power, ceramic melting chamber construction, and effective water cooling to offer a reliable and high-performance melting solution. With an operating voltage of 380V and a cooling water flow of 5-10L/min, this system ensures optimal melting conditions and operational stability. Ideal for various industrial melting applications, the Induction Melting System stands out as a robust and efficient choice for modern metal processing needs.

Applications:

The Huarui Induction Melting System, model number medium frequency, is a highly efficient and reliable melting furnace designed to meet diverse industrial needs. Originating from China and backed by multiple certifications including a patent, national testing report, and a quality management system certificate, this medium frequency melting furnace is a trusted choice for metal melting applications. Its advanced PLC control system ensures precise operation and easy monitoring, making it ideal for industries that require consistent and high-quality melting processes.

This induction melting furnace is particularly suited for scenarios where rapid melting is essential, as it boasts a melting speed of just 1-5 minutes. Its 0.5 ton capacity and operating voltage of 380V make it perfect for medium-scale foundries, metal casting workshops, and manufacturing plants specializing in non-ferrous metals, steel, and alloys. The high safety standards incorporated into the design ensure safe operation in demanding environments, minimizing risks during the melting process.

In terms of application occasions, the Huarui medium frequency melting furnace excels in settings such as jewelry manufacturing, automotive parts production, aerospace component fabrication, and electronics industries where precise metal melting is crucial. It is also widely used in educational and research institutions for metallurgical experiments due to its controllable and efficient melting capabilities.

The product's packaging is waterproof, secure, and vibration-proof, guaranteeing that each unit arrives intact and ready for immediate use. With a supply ability of 10,000 sets per year and a delivery time ranging from 20 to 45 days, customers can rely on timely procurement and deployment of this induction melting system. Payment terms are flexible, accommodating T/T and L/C options, and the minimum order quantity is just one unit, making it accessible for both small and large enterprises.

Overall, the Huarui medium frequency induction melting furnace is an indispensable tool for any operation requiring a reliable, fast, and safe melting furnace. Whether for industrial manufacturing or research purposes, this induction melting system offers exceptional performance, durability, and advanced control, ensuring optimal melting efficiency and quality every time.

Customization:

Huarui offers customized Induction Melting System solutions designed to meet your specific melting furnace system requirements. Our medium frequency electric induction melting furnace is manufactured in China and comes with essential certifications including patent, national testing report, and quality management system certificate, ensuring high quality and reliability.

We support a minimum order quantity of 1 set, allowing flexibility for various customer needs. Pricing is negotiable to provide the best value for your investment. Each electric induction melting furnace is packaged securely with waterproof, vibration-proof materials to ensure safe delivery.

With a supply ability of 10,000 sets per year, we guarantee timely delivery within 20 to 45 days. Payment terms are flexible, accepting T/T and L/C. Our Induction Melting System features energy-saving technology, a melting speed of 1-5 minutes, and a melting chamber made of durable ceramic material, operating at a frequency voltage of 129 with electric power supply.

Trust Huarui for an efficient, reliable melting furnace system 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.

Our technical support team is available to assist with installation guidance, troubleshooting, and routine maintenance procedures. We provide detailed user manuals and operational training to help you maximize the capabilities of your induction melting system.

We also offer preventive maintenance services, including system inspections, calibration, and parts replacement, to minimize downtime and maintain consistent melting quality. In the event of system malfunctions, our experts are equipped to diagnose issues promptly and recommend effective repair solutions.

Additionally, we supply genuine replacement parts and upgrade options to enhance system performance and adapt to evolving production needs. Our commitment is to deliver reliable support that ensures your induction melting system operates safely and efficiently throughout its service life.

Packing and Shipping:

Product Packaging:

The Induction Melting System is carefully packaged to ensure safe transportation and delivery. Each unit is secured within a custom-fit foam mold to prevent movement and protect sensitive components. The system is enclosed in a sturdy, double-walled corrugated cardboard box with moisture-resistant lining. All accessories and manuals are packed in separate compartments within the main packaging to avoid damage. Additionally, the exterior of the package is clearly labeled with handling instructions and product information.

Shipping:

We offer reliable shipping options to ensure your Induction Melting System arrives on time and in perfect condition. The product is shipped via trusted carriers with tracking available for all orders. For international shipments, all necessary customs documentation is provided to facilitate smooth clearance. We recommend selecting insurance for valuable shipments to provide extra protection during transit. Our shipping team handles all orders with care and prioritizes prompt dispatch to meet your project timelines.

FAQ:

Q1: What is the brand and model of this induction melting system?

A1: The induction melting system is from the brand Huarui, and the model number is Medium Frequency.

Q2: Where is the induction melting system manufactured?

A2: This product is made in China.

Q3: What certifications does the Huarui induction melting system have?

A3: The system holds several certifications including a Patent, National Testing Report, and Quality Management System Certificate.

Q4: What is the minimum order quantity and price for the induction melting system?

A4: The minimum order quantity is 1 set, and the price is to be negotiated based on order specifics.

Q5: How is the product packaged and what is the typical delivery time?

A5: The induction melting system is packaged to be waterproof, secure, and vibration proof. The typical delivery time ranges from 20 to 45 days.

Q6: What payment terms are accepted for purchasing this product?

A6: Payment terms accepted include T/T (Telegraphic Transfer) and L/C (Letter of Credit).

Q7: What is the supply capacity of Huarui for this induction melting system?

A7: Huarui has a supply ability of 10,000 sets per year for the medium frequency induction melting system.



Shandong Huarui Electric Furnace Co., Ltd.

+86 13235363441

sales@huarui-furnace.com

melt-furnaces.com

Mount Taishan Street, Anqiu Economic Development Zone, Weifang, Shandong, China