

PLC Control Induction Melting System with Water Cooling and 90 Percent Energy Efficiency for Metal Processing

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

- Cooling Method: Water Cooling
- Melting Speed: 1-5 Minutes
- Operating Voltage: 380V
- Advantage: Energy Saving
- Power Supply: Electric
- Cooling Water Flow: 5-10L/min
- Type: 0.5ton
- Control System: PLC
- Highlight: **PLC Control Induction Melting System,
Water Cooling Melting Furnace System,
90 Percent Energy Efficiency Induction Melting
Furnace**

Product Description:

The Induction Melting System is a state-of-the-art melting furnace system designed to provide efficient, rapid, and safe melting processes for a variety of metals and alloys. Engineered with advanced technology, this induction melting furnace delivers exceptional performance, ensuring that users achieve high-quality results with minimal energy consumption and maximum safety.

One of the standout features of this induction melting furnace is its impressive melting speed. Capable of melting metals within 1 to 5 minutes, it significantly reduces production time compared to traditional melting methods. This rapid melting capability makes the system ideal for industries where time efficiency is crucial, such as jewelry manufacturing, metal casting, and laboratory applications.

In addition to its speed, the induction melting system is designed with a robust cooling mechanism. The cooling water flow rate is maintained between 5 to 10 liters per minute, ensuring that the system remains at optimal operating temperatures during prolonged use. This efficient cooling not only extends the lifespan of the melting furnace system but also enhances its reliability and performance under continuous operation.

Safety is a paramount consideration in the design of this induction melting furnace. The system incorporates high-level safety features, including overheat protection, which automatically shuts down the furnace if temperatures exceed safe limits. This critical safety measure prevents potential damage to the equipment and reduces the risk of accidents, protecting both the operator and the workplace environment.

The induction melting system operates at a frequency voltage of 129, which is carefully calibrated to optimize the induction heating process. This frequency ensures efficient energy transfer to the metal, resulting in uniform heating and consistent melting quality. The precise control over frequency voltage also contributes to energy savings and reduces operational costs.

Built for versatility and durability, the melting furnace system is suitable for melting a wide range of metals such as gold, silver, copper, aluminum, and various alloys. Its compact and ergonomic design allows for easy installation and integration into existing production lines or laboratory setups. Moreover, the user-friendly interface simplifies operation, making it accessible to both experienced professionals and newcomers in the metalworking industry.

Another advantage of this induction melting furnace is its environmentally friendly operation. By utilizing induction heating technology, the system minimizes heat loss and reduces emissions compared to conventional fossil-fuel-based melting methods. This makes it an excellent choice for companies aiming to adopt greener manufacturing practices without compromising on performance or efficiency.

Maintenance of the melting furnace system is straightforward due to its modular construction and high-quality components. Routine checks and servicing can be performed with ease, ensuring minimal downtime and sustained productivity. Additionally, the manufacturer provides comprehensive support and training to help users maximize the benefits of the induction melting furnace.

In summary, the Induction Melting System offers a cutting-edge solution for fast, safe, and efficient metal melting. Its combination of rapid melting speed, effective cooling water flow, high safety standards including overheat protection, and optimized frequency voltage of 129 makes it an indispensable tool in modern metal processing. Whether for industrial production or research purposes, this induction melting furnace guarantees outstanding performance and reliability, setting a new benchmark in melting furnace systems.

Applications:

The Huarui Induction Melting System, model number medium frequency, is a cutting-edge induction melting furnace system designed and manufactured in China. Renowned for its high safety standards and advanced features such as overheat protection, this system is ideal for various industrial applications requiring efficient and reliable metal melting solutions. With a 0.5-ton capacity and operating voltage of 380V, the system is engineered to deliver consistent performance in demanding environments.

This induction melting furnace system is perfectly suited for foundries, metal processing plants, and manufacturing units where precision melting of metals like steel, iron, aluminum, and copper alloys is critical. Its medium frequency induction technology ensures faster melting rates and energy efficiency, making it a preferred choice for small to medium-scale production operations. The system's frequency voltage is set at 129, optimizing the melting process for various metal types.

In addition to industrial applications, the Huarui Induction Melting System is widely used in research and development laboratories and educational institutions focusing on metallurgy and materials science. Its patented design, backed by a national testing report and quality management system certificate, guarantees reliability and compliance with international standards. This makes it an excellent tool for experimental melting and alloy development.

The product is also highly valued in jewelry manufacturing and recycling industries where precise control over melting temperature and safety are paramount. The induction melting furnace's waterproof, secure, and vibration-proof packaging ensures safe transport and delivery within 20 to 45 days, catering to global customers with flexible payment terms including T/T and L/C.

With a supply ability of 10,000 sets per year and a minimum order quantity of just one unit, the Huarui Induction Melting System offers scalability and accessibility to businesses of all sizes. Its high safety rating and overheat protection feature provide peace of mind during continuous operation, minimizing downtime and maintenance costs. Overall, this induction melting furnace system represents a reliable, efficient, and safe solution for modern metal melting needs across diverse application occasions and scenarios.

Customization:

Huarui offers customized product solutions for the Induction Melting System, specifically designed as a medium frequency melting furnace system. Our 0.5 ton medium frequency melting furnace is engineered for high safety and energy-saving operation, with an operating voltage of 380V and a rapid melting speed of 1-5 minutes.

As a leading manufacturer based in China, Huarui ensures the highest quality standards backed by certifications including patents, national testing reports, and a quality management system certificate. We can accommodate a minimum order quantity of just 1 set, making it ideal for both small and large scale production needs.

Our induction melting furnace system is packaged securely with waterproof, vibration-proof materials to guarantee safe delivery. With a supply ability of 10,000 sets per year, we offer flexible payment terms such as T/T and L/C, and delivery times ranging from 20 to 45 days. Pricing is negotiable to best fit your project requirements.

Choose Huarui's medium frequency melting furnace for an efficient, reliable, and customizable melting furnace system that meets your industrial melting needs with superior energy-saving advantages.

Support and Services:

Our Induction Melting System is designed to provide efficient and precise melting solutions for a wide range of metals and alloys. For technical support, users can refer to the comprehensive user manual included with the product, which covers installation, operation, maintenance, and troubleshooting procedures.

We offer expert guidance to ensure optimal performance of the Induction Melting System, including assistance with system setup, calibration, and integration with existing production lines. Our technical team is available to help diagnose and resolve any operational issues that may arise.

Regular maintenance services are recommended to prolong the lifespan and maintain the efficiency of the system. These services include inspection of induction coils, cooling systems, power supplies, and control units. Preventative maintenance plans can be arranged to suit your operational schedule.

In addition, we provide training sessions for operators and maintenance personnel to enhance their understanding of the system's functionalities and safety protocols. Customized training programs can be developed to meet specific industry requirements.

For software updates and upgrades, users will be notified to ensure the Induction Melting System remains up-to-date with the latest technological advancements and performance enhancements.

Our commitment is to support our customers throughout the lifecycle of their Induction Melting System, ensuring reliable operation and maximum productivity.

Packing and Shipping:

Product Packaging:

The Induction Melting System is carefully packaged to ensure safe delivery and optimal protection during transit. The system is securely placed in a custom-fitted foam mold inside a sturdy, high-quality wooden crate. All sensitive components are wrapped with anti-static and shock-absorbent materials to prevent damage from vibrations or impacts. Additional protective measures include moisture-resistant covers and tamper-evident seals to maintain product integrity until it reaches the customer.

Shipping:

We offer reliable and efficient shipping options for the Induction Melting System, including standard freight and expedited delivery services. Each shipment is fully insured and tracked to provide real-time updates on the delivery status. Our logistics team coordinates with trusted carriers to ensure timely and safe arrival at your specified location. International shipping is available with compliance to all relevant export regulations and customs requirements.

FAQ:

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: This product 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 is the typical delivery time and payment terms for this product?

A5: The delivery time is between 20 to 45 days. Payment terms accepted are T/T and L/C.

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 determined for the Induction Melting System?

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



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