

0.5ton Induction Melting System with 1-5 Minutes Melting Speed, Energy Saving, and PLC Control for Efficient Operations

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
- Safety: High
- Advantage: Energy Saving
- Cooling Water Flow: 5-10L/min
- Frequency Voltage: 129
- Melting Speed: 1-5 Minutes
- Melting Chamber Material: Ceramic
- Safety Features: Overheat Protection
- Highlight: **1-5 Minutes Melting Speed Induction Melting System**
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Energy Saving Medium Frequency Melting Furnace
PLC Control Induction Furnace

Product Description:

The Induction Melting System is a state-of-the-art medium frequency melting furnace designed to deliver exceptional performance and energy efficiency for various metallurgical applications. This advanced melting furnace system operates at a frequency of 129, which optimizes the melting process by providing precise control over heating, ensuring uniform temperature distribution throughout the material. This feature makes it ideal for industries that require reliable and consistent melting performance, such as foundries, metal recycling plants, and manufacturing units specializing in metal casting.

One of the standout features of this induction melting system is its energy-saving advantage. By utilizing medium frequency induction technology, the furnace efficiently converts electrical energy into heat, significantly reducing energy consumption compared to traditional melting furnaces. This not only lowers operational costs but also minimizes the environmental impact, making it a sustainable choice for businesses looking to enhance their production efficiency while adhering to green manufacturing practices.

The system is designed as a 0.5-ton melting furnace, providing a perfect balance between capacity and compactness. This makes it suitable for small to medium-scale operations that require a reliable melting solution without compromising on space or power. Despite its moderate capacity, the furnace system delivers consistent melting performance, ensuring high-quality molten metal output that meets stringent industry standards.

Cooling is a critical aspect of any melting furnace system, and this induction melting furnace excels in this area by employing an efficient water cooling method. The cooling water flow rate is carefully calibrated between 5 to 10 liters per minute, ensuring optimal heat dissipation during the melting process. This effective cooling mechanism not only protects the furnace components from overheating but also extends the overall lifespan of the system, reducing maintenance frequency and downtime.

The water cooling method integrated into this melting furnace system allows for continuous operation under demanding conditions. By maintaining stable operational temperatures, the system achieves improved reliability and safety, making it a dependable choice for production environments that require uninterrupted melting cycles. Furthermore, the controlled cooling process helps in maintaining the structural integrity of the furnace, preventing thermal deformation and ensuring consistent melting quality over time.

In summary, the Induction Melting System stands out as a high-performance medium frequency melting furnace that combines energy-saving technology, precise frequency control, and efficient water cooling to deliver superior melting results. Its 0.5-ton capacity makes it adaptable for a wide range of industrial applications, from small workshops to larger manufacturing setups. By choosing this melting furnace system, businesses benefit from reduced energy costs, enhanced operational efficiency, and reliable melting performance, making it a valuable investment for any metal processing operation.

Whether you are looking to upgrade your existing melting furnace or implement a new melting furnace system, this induction melting system offers an excellent blend of technology and practicality. Its advanced features and robust design make it a leading choice in the realm of medium frequency melting furnaces, ensuring that your melting processes are both efficient and environmentally responsible.

Applications:

The Huarui Induction Melting System, specifically the medium frequency melting furnace model, is designed to deliver efficient and precise melting solutions across a variety of industrial applications. Originating from China and backed by comprehensive certifications including patent rights, national testing reports, and quality management system certificates, this induction melting furnace system combines advanced technology with reliable performance.

This induction melting system is ideally suited for occasions where rapid and controlled melting of metals is essential. It is commonly employed in foundries, metal recycling plants, and manufacturing units that require the melting and refining of non-ferrous and ferrous metals. The medium frequency melting furnace provides superior control over melting temperature and energy consumption, making it an indispensable tool in industries such as aerospace, automotive, electronics, and metallurgy.

The system's robust design features a ceramic melting chamber that ensures durability and resistance to high temperatures, while the PLC control system offers precise operational management and automation capabilities. The induction melting furnace system operates on a stable 380V electric power supply and utilizes water cooling technology to maintain optimal temperature conditions, enhancing both safety and efficiency during continuous operation.

Packaging for the Huarui Induction Melting System is meticulously designed to be waterproof, secure, and vibration proof, ensuring the equipment arrives in perfect condition regardless of shipping distance. With a supply ability of 10,000 sets per year and a delivery time ranging from 20 to 45 days, Huarui guarantees timely fulfillment to meet diverse production schedules.

Suitable for both large-scale industrial use and specialized metal processing tasks, the medium frequency melting furnace can be ordered with a minimum quantity of one set. Pricing is negotiable, providing flexibility for buyers with varying budget requirements. Payment terms include T/T and L/C, facilitating smooth and secure transactions globally.

In summary, the Huarui Induction Melting System stands out as a technologically advanced, reliable, and versatile solution for all melting needs. Whether for high-volume production or specialized metalworking, the induction melting furnace system delivers consistent performance, energy efficiency, and ease of use, making it a preferred choice in the metal melting industry.

Customization:

Huarui offers customized Product Customization Services for its medium frequency melting furnace, model number medium frequency. Originating from China, our induction melting furnace is designed with high safety standards and features efficient water cooling methods to ensure optimal performance. Certified with patents, national testing reports, and a quality management system certificate, our medium frequency melting furnace guarantees reliability and quality.

We accept a minimum order quantity of 1 set, with prices available upon negotiation to suit your specific needs. Each induction melting furnace is carefully packaged with waterproof, secure, and vibration-proof materials to ensure safe delivery. Our typical 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 specializes in producing induction melting furnaces with a power supply of electric and an operating voltage of 380V. The 0.5-ton type medium frequency melting furnace is ideal for various industrial melting applications, providing efficient and reliable performance tailored to your requirements.

Support and Services:

Our Induction Melting System is designed to provide efficient and precise melting solutions for a variety of metals. To ensure optimal performance and longevity of your equipment, we offer comprehensive technical support and services. Our technical support team is available to assist with installation guidance, troubleshooting, and maintenance procedures. We provide detailed user manuals and operational training to help you maximize the benefits of your induction melting system. Regular maintenance services are recommended to maintain system efficiency and prevent unexpected downtime. These services include inspection of electrical components, calibration of controls, and replacement of wear parts. We also offer upgrade options to keep your system updated with the latest technology advancements. In addition, our service team can perform on-site repairs and diagnostics to quickly resolve any issues. We are committed to delivering prompt and reliable support to minimize disruption to your operations. For customized solutions, our experts can work with you to tailor the induction melting system to your specific production requirements, ensuring optimal integration and performance.

Packing and Shipping:

Product Packaging and Shipping for Induction Melting System

Our 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-lined crate made from durable, high-quality materials to prevent any damage from shocks or vibrations. All sensitive components are individually wrapped and cushioned to avoid scratches and impact. The packaging includes moisture-absorbing packets and anti-static materials where necessary to protect electronic parts. For shipping, we use sturdy wooden crates reinforced with metal straps to maintain the structural integrity of the package. Clear labeling and handling instructions are prominently displayed on the exterior to facilitate safe handling during loading and unloading. We offer multiple shipping options, including air freight, sea freight, and road transport, depending on the destination and customer requirements. Each shipment is tracked with a reliable logistics partner to ensure timely and secure delivery. Upon arrival, customers are advised to inspect the packaging and contents immediately and report any damages or discrepancies to our support team for prompt assistance.

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: This product is made in China.

Q3: What certifications does the Induction Melting System have?

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

Q4: What packaging details are provided 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 ordering the Induction Melting System?

A5: The delivery time ranges from 20 to 45 days, and accepted payment terms include T/T and L/C.



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