

Medium Frequency Induction Melting Furnace High Durability Reliable Easy Operation Low Maintenance

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Huarui
- Certification: own patent; national testing report ; quality management system certificate
- Model Number: 0.5tons -20tons
- Minimum Order Quantity: 1 sets
- Price: to be negotiated
- Packaging Details: water proof
- Delivery Time: 30~45 days
- Payment Terms: T/T/ L/ C
- Supply Ability: 1000000 sets/ year



Product Specification

- Feature: Energy Saving
- Melting Speed: Quick
- Operation: Reliable; Easy
- Safety: Complete
- Melting Time: Short
- Maintenance: Low
- Durability: High
- Highlight: **Medium Frequency Induction Melting Furnace, High Durability Induction Melting Furnace**



Product Description

Product Description:

Working Principle of induction melting furnace

It follows an electric and magnet induction principle, electricity can generate magnetism, and magnetism can generate electricity in turn. Resonance occurs between the induction ring and the capacitor inside the power supply cabinet. This phenomenon results in the production of alternating current under the action of resonance. The alternating current then produces an alternating magnetic field. The alternating magnetic field causes the electrons inside the metal material to move in alternating directions, producing electron eddies in the process. Additionally, the electrons collide fiercely with one another, resulting in the production of heat, heat gradually increase until the melting point of the metal is reached.

Thyristor Serial-connected Resonant Medium Frequency induction melting Furnace

The capacitor mounted in the power supply cabinet is serially connected to the induction ring located inside the furnace body.

Thick material for furnace shell , reasonable match between induction ring and capacitor, intelligent type digital main control board, constant output and high efficiency power factor are guarantee for quick melting speed.

Features:

With our own patent right (patent No. ZL 202222790179.8),the currently widely applied thyristor serial-connected electric furnaces possess an outstanding power factor of over 0.95, which makes it have an excellent power saving by 20%, this performance is much higher than the parallel-connected types

Additionally, thyristor serial-connected equipment has no special requirements for working environments. With various protective measures such as water pressure detection and temperature detection for water pipelines, it provides high safety performance. Moreover, fast melting speed and low power consumption are also key features of such thyristor serial-connected melting systems.

Extremely low failure rate and no malfunctions within five years of operation as well a simple and convenient maintenance of this equipment are the main reasons why it is so praised in this industry.

Finally, its mature technology along with the lack of high harmonics and maximum power factor over 95% don't need traditional power compensation devices and harmonic elimination devices any more.

Technical Parameters:

Induction melting furnace power supply, thyristor serial-connected inverter medium frequency power supply , one power supply cabinet drives two furnaces

Type	DX-2500Kw
inlet power supply (V)	380V/ six phases
inlet current (A)	2040
Direct current voltage (V)	1000
Direct current (A)	2500
medium frequency voltage (+/-10%) V	2400
medium frequency (Hz)	100-400Hz
medium frequency power (Kw)	2500KW

Applications:

This induction melting furnace can melt various metals such as copper, aluminum, iron, steel, alloy and other metal etc. , and it is widely applied in casting industry.

Customization:

We offer a wide range of custom Induction Melting Furnace with our own patent which is attained by many years' effort of our company's technical department, model numbers range from 0.5 tons to 20 tons. we mainly focus on furnace quality, its some performance which are shown in our testing report are higher than national standard. Minimum order quantity is 1 set, the price is to be negotiated. The packaging is water proof, and delivery time is between 30-45 days. Payment terms are T/T or L/C. We have a supply ability of 1000000 sets per year. Our furnaces have such features as low maintenance requirements, quick melting speed, short melting time, high durability and energy saving etc..

Support and Services:

Technical Support and Services of Induction Melting Furnace

We provide technical support and services for all our Induction Melting Furnaces. Our experts are available 24/7 to offer advice and technical assistance for any of your needs.

We offer product-specific technical support and troubleshooting services for any current or past models. Our technicians are knowledgeable and experienced and have the skills necessary to diagnose, troubleshoot, and repair any problems that may arise.

If you are looking for installation or maintenance services, we have a wide range of packages to choose from. We offer competitive rates and can customize the package to meet your needs.

If you have any questions or concerns about your Induction Melting Furnace, please do not hesitate to contact us. Our knowledgeable customer service team is here to help.



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