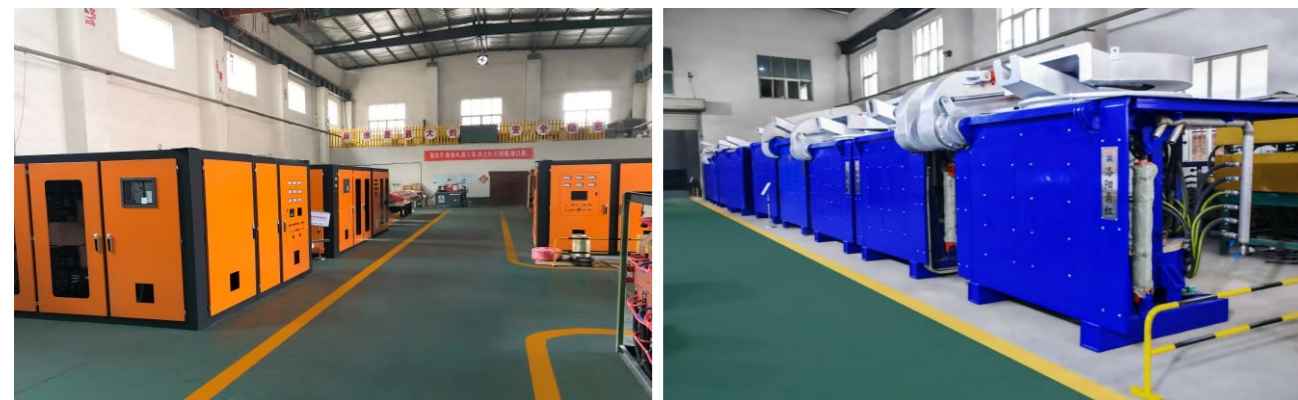


◎ About Us

Luoyang Dinghong Electric Technology Co., Ltd, located in No. 5, Xinxin road of Luoxin Industrial park, is specialized in manufacturing full products of induction melting and heating equipments, which is widely used in metallurgy, machinery, building materials, automobile manufacturing and other industries.

"Dinghong" owns the highest level in induction heating and melting fields, and high tech products and tech creation are the goals that we are seeking for. Being cooperating with domestic researching and scientific institute, we design and manufacture the new electric furnace of twelve pulse rectification tandem and new type electric furnace of energy saving tandem inversion. All of them can realize more furnaces power supplied by one set cabinet. With the energy saving, high efficiency, easy control, environment protection, small harmonic and safety, our furnace has obtained trust and praise from our customers. Our furnace is your best choice.

We always provide best products on quality reliability and better service. We wish to cooperate with you to create and develop a prosperous and brilliant future.



品质卓越，上善永续

Excellent Quality, Consistent Developing

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Luoyang dinghong electric technology co. Ltd

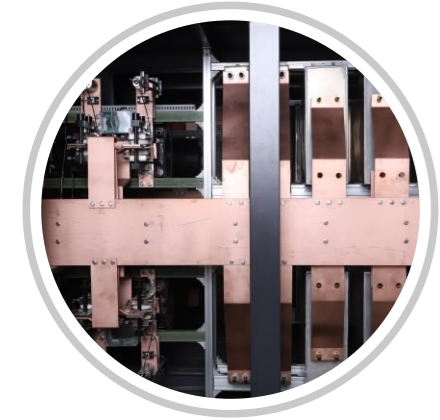
One Drive Two Medium Frequency



One Drive Two Medium Frequency



▶ 电源描述—电源柜



Humanized design runs through the whole power cabinet design and is easy to maintain. Wide output copper bar, low loss, reasonable layout.



The control cabinet is equipped with isolated control room on the front door, equipped with the main control board, feedback board, control power supply and other components, which can conveniently detect the signal of the main control board.

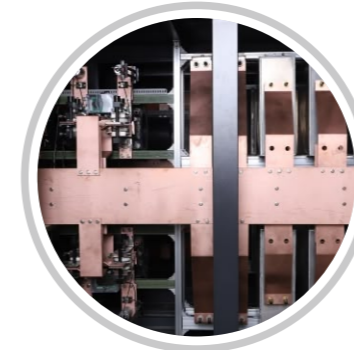


The high-power inverter thyristor is composed of half-bridge inverter circuit, which converts direct current into medium frequency alternating current.

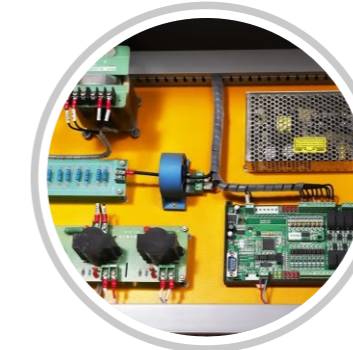


- ▶ Medium frequency power supply efficiency $\geq 98\%$;
- ▶ $\text{Cos } \varphi = 95\%$ when operating in any power state;
- ▶ Power startup successful rate is 100% optional;
- ▶ $\text{Cos } \varphi \geq 95\%$ when the molten iron in the furnace is a small flow;
- ▶ The molten iron in the furnace is adjustable in the range of 0-100%;
- ▶ It saves more than 20% of electricity and it is faster than ordinary electric furnaces.

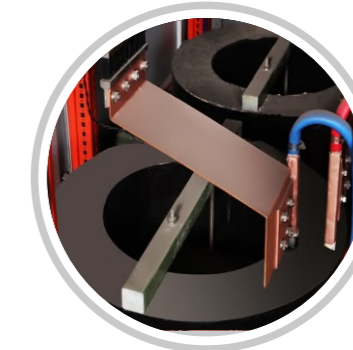
▶ 串联—拖二电源优点



Humanized design runs through the whole power cabinet design and is easy to maintain. Wide output copper bar, low loss, reasonable layout.



High utilization of power. The inverter series adopts voltage resonance. In the case of low incoming voltage, high voltage can be obtained on induction coil. The same power minimizes the resonant current in the induction coil, thus reducing the power consumption.



High power factor. Inverter series adopts frequency modulation to modulate power modulation. At this time, the rectifier thyristor is fully in operation, which greatly improves the power factor of the equipment and minimizes the pollution of high harmonics to the power grid.



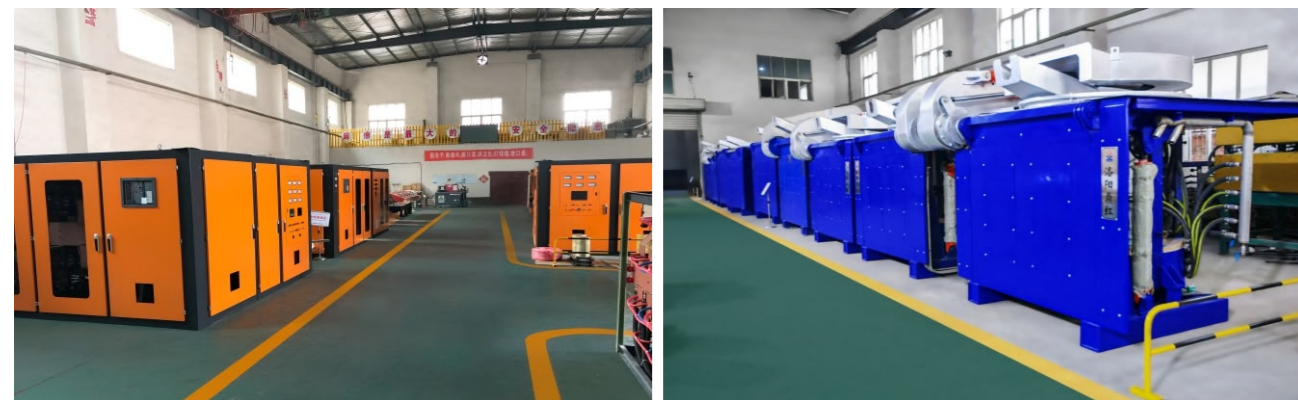
Constant power output and power output adopts digital constant power control technology. During the melting process, when the load temperature changes, the load is always full power output to shorten the melting time.

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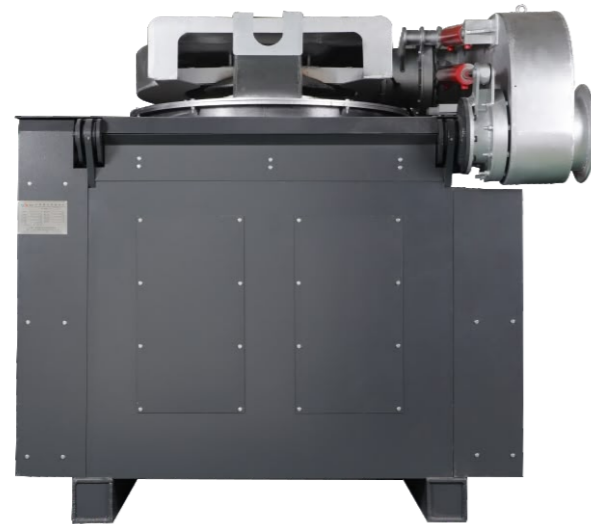
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Steel Shell Melting Furnace

◆ Luoyang Dinghong open furnace body comprises a furnace frame ,cyclone dust removal furnace cover and a tilting furnace oil cylinder, a furnace cover lifting, a magnetic yoke, a high-pressure carbon-free rubber tube, a water collecting and separating device, a full set of water inlet distributors, a water return and collecting device and clamps, an integral bottom pouring block, etc.

◆ The furnace body adopts an open furnace frame made of rectangular seamless steel. The overall structure is simple and firm, and the maximum inclination angle of the furnace body is 95 degrees. The furnace platform is made of refractory material to protect the steel plate of the furnace platform from deformation. Fastening disk gasket of yoke. All rubber tubes and clamps are imported products.

◆ The upper part of induction furnace can be disassembled to facilitate coil replacement.



① Strong and durable, especially for large capacity furnace body, which needs a strong rigid structure from the perspective of tilting furnace safety. The yoke made of electrical steel shields the magnetic lines generated by the induction coil, reduces the magnetic flux leakage, improves the thermal efficiency, increases the output, and saves 5-8%.

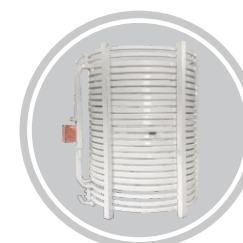
② The existence of cyclone dust removal furnace cover reduces the loss of heat and improves the safety of equipment.

③ The cyclone type smoke hood has excellent dust absorption and heat preservation effects and occupies less space. Can be tilted back and forth and can also stay at any position.

④ The cyclone dust hood can effectively absorb dust during the spheroidization process in front of the furnace, which cannot be achieved by the traditional dust hood.

⑤ Long service life. Aluminum is easy to cause metal toughness fatigue under the high temperature and strong magnetic field environment. At the foundry site, it is often seen that the aluminum shell furnace used for one year or so is in poor condition, while the steel shell furnace has much longer service life than the aluminum shell furnace due to less magnetic leakage.

⑥ The safety performance of the steel shell furnace is much better than that of the aluminum shell furnace. The aluminum shell furnace is easy to deform and has poor safety due to high temperature and heavy pressure during smelting. Steel shell furnace uses hydraulic tilting furnace, which is safe and reliable.



感应线圈

Spraying 7 layer insulating high-temperature enamel;

One layer of mica tape for induction coil, one layer of glass ribbon;

Use T2 red copper tube thickness 5-8mm.



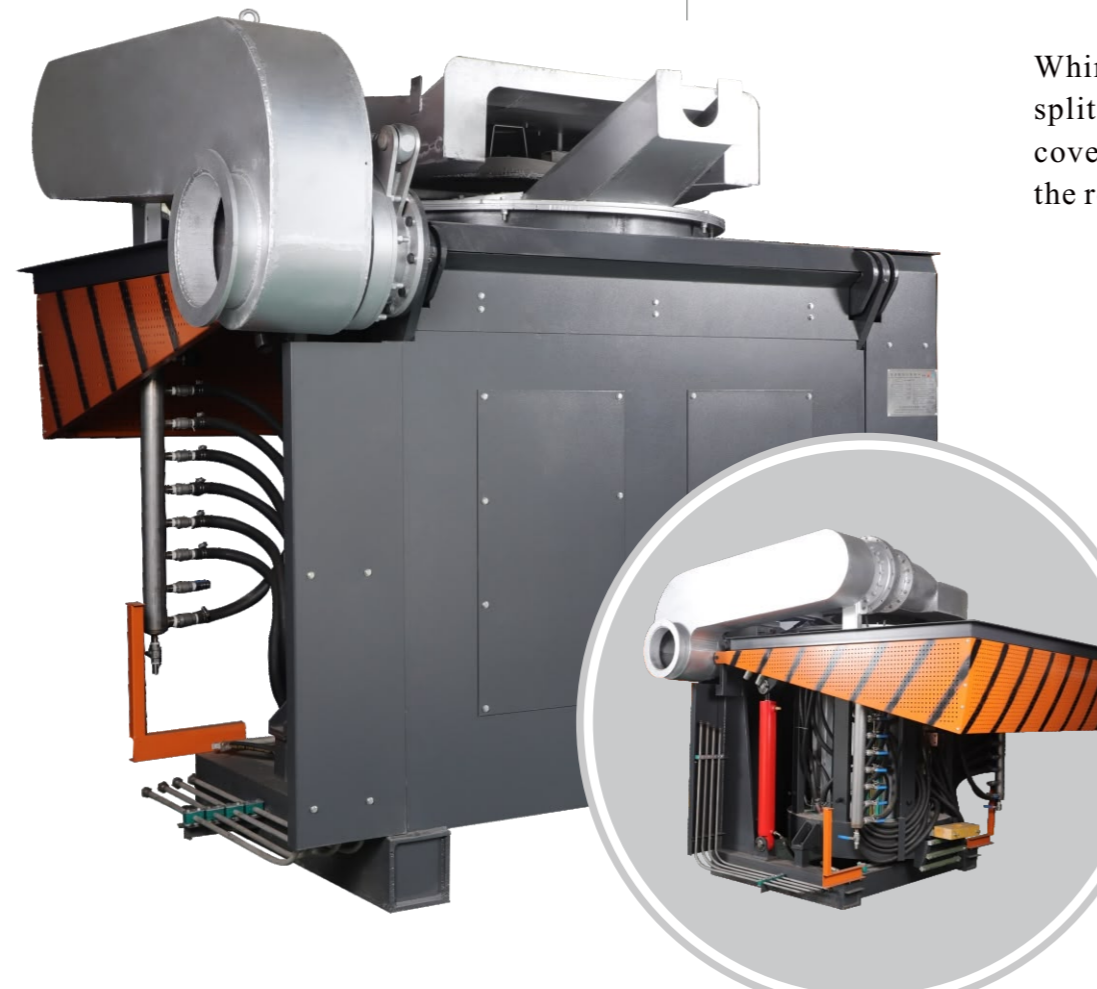
耐火胶泥

Refractory mortar coated evenly by machine.



水冷电缆

The long arc yoke shields and reduces the external magnetic resistance and the magnetic flux leakage at both ends of the shielding coil; the yoke is made of silicon steel sheet/silicon steel sheet, each with a thickness of 0.27mm; brand adopts: Baosteel, Wuhan Iron and Steel.

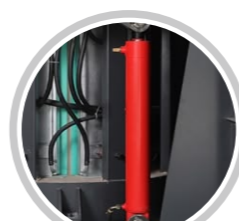


Whirlwind dust cover Furnace body dust cover split whirlwind dust cover and smoke ring dust cover, have a good dust suction effect, to meet the requirements of environmental protection.



除尘炉盖

Strong and durable, not easy to deform, strong rigidity, high temperature resistance, pressure resistance.



液压杆

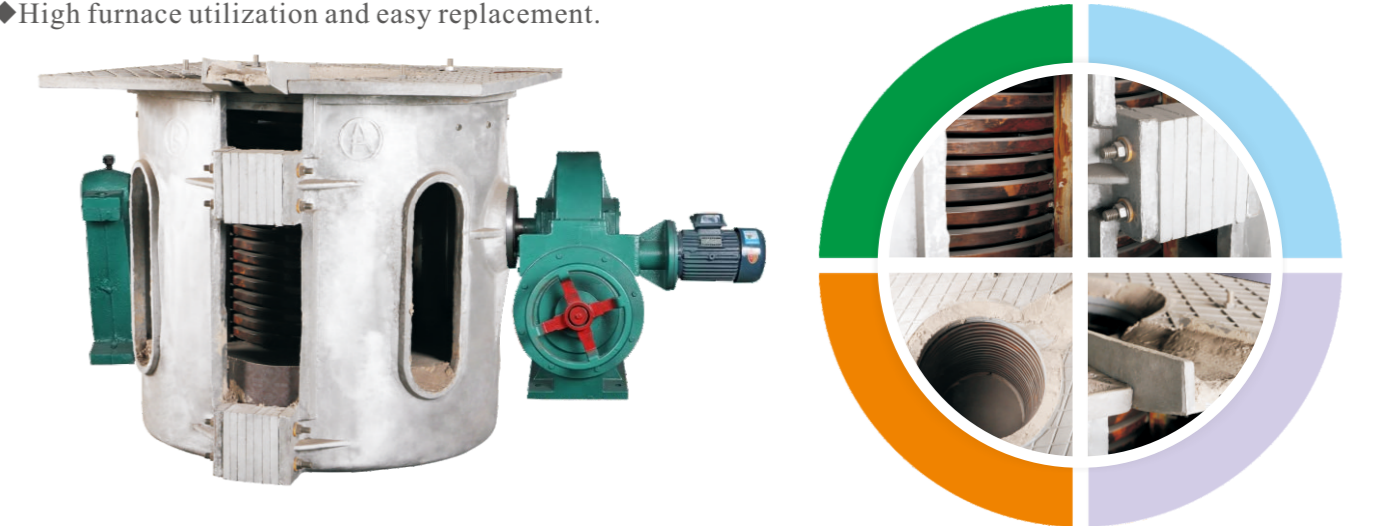
The arc-shaped inner side of the yoke section is seamlessly attached to the outer wall, covering an area of 85%, increasing the effective magnetic permeability area, and also allowing the coil to obtain better support.



磁轭覆盖

Aluminum shell melting furnace

- ◆ High melting efficiency, good power saving effect, compact structure and strong overload capability.
- ◆ The temperature around the furnace is low, the smoke dust is less, and the working environment is good.
- ◆ The operation process is simple and the smelting operation is reliable.
- ◆ The metal composition is uniform.
- ◆ Fast melting, easy furnace temperature control and high production efficiency.
- ◆ High furnace utilization and easy replacement.



Aluminum shell melting furnace

◆ Immediate induction furnace is used widely in forging heating, warming of rod, round steel and cube steel. The heating in quenching, part heating, the tempering and annealing of the metal, wheels, sleeve, ring and coil etc. The precision forging of machine screw, axle rod and bearing etc. The heating, painting heating, hot installation and tempering before extruding, hot rolling and clipping. The heat treatment of main shaft (straight shaft, reducing axis, camshaft, crankshaft and bearing shaft and gear shaft), gear, guide rail, surface and ball head etc. The surface heat treatment and metal materials' tempering, annealing and tempering of hardware tools.

◆ Heating increasing rapidly, high productivity efficiency, less carbon losing of oxidation, cost saving of materials and mould forging. Working environment friendly, improve the working environment condition and company image in energy saving and non-pollution.

◆ Heating uniform, the temperature difference is few with high temperature control accuracy.

◆ Power and energy saving, less heating damaging and start easily. With the PLC adopted, the control is easy, high safety, anti-disturb, maintain conveniently and update easily in touch screen of man-machine interface.

