

# 中频感应加热设备

## Medium Frequency Induction Heating Equipment

### 概述:

中频感应加热设备广泛应用于铸造及金属热加工领域。其设备特点是恒功率输出。启动采用扫频式零压软启动方式，对可控硅的冲击小，有利于延长可控硅的使用寿命，同时还具有轻重负载均容易启动的优点，更有利于频繁启动。控制板的核心部件采用美国生产的高性能、高密度超大规模专用集成电路。可在加热过程中不断检测感应器（炉体）的工作状态，不断调节中频电源工作参数，使其在加热过程中一直处于最佳工作状态，因而效率高，节电，电源运行平稳。并具有多项保护措施，如过流、过压、缺水、缺相等保护，使设备的运行更可靠，元器件寿命更长，大大降低了维修费用。

### 主要特点:

- 感应加热设备可在线工作，易于实现机械和自动化生产，环境污染小。
- 工件加热速度快，氧化和脱碳少，高效，工艺重复性更佳。
- 设备的设计充分考虑环保要求，同时降低工人工作强度改善工作环境，替代老旧的电阻，燃气和燃煤燃油炉。
- 同步加热温控准确。工件内外温差小。
- 感应器更换简便快捷。

### Introduction

Medium Frequency Induction heating equipment is widely applied in forging, smelting and metal heating field. The character of the equipment is constant power output. The start mode is sweep-frequency zero voltage and soft-start which is little harm to SCR and enlarges the service time. Beside of that, the advantage is easy start at heavy or light load in frequently condition. The core of control board is high-efficiency high-integrated large scale special IC which is made in US. The working condition of furnace can be monitored during heating process. By continuously regulating the parameter of medium frequency power supply, the working condition will be steady in the best performance. Such equipment will save energy and keep high efficiency. Protection methods are applied against over-current, over-voltage, lack of water, lack of phase which can stable the operation and reduce the cost of maintenance.

### Feature

- Induction heating equipment is featured of working online and better environment which is easy to realize mechanization and automatic production;
- Heating speed is higher while oxidation and decarbonization volume is less. Efficiency is higher and repeatability of craft is better;
- The device is designed in accordance with requirements of environment protection and less pollution. At the same time, it can also reduce labor strength and replace the old type resistance furnace and coal, gas and oil heat;
- The heating is homogeneous and temperature control is precise. So heating temperature different is smaller between the external and internal of the materials;
- Replacement of the inductor is simple and convenient.





Induction heating cabinet-1



Induction heating cabinet-2



Induction heating cabinet with thermal detector and auto discharge unit



Induction heating cabinet with auto discharge device