

Axle Induction Heating System

This induction heating system is used for heating axles before forging, applicable to gear, gear rings, axle shafts, and connecting rods. It is also suitable for online heating processes like corrosion prevention spraying of pipes, bar blue brittleness blanking, and steel wire/tubes tempering.



Product Overview

Axle Induction Heating System

This advanced induction heating furnace is engineered for high-efficiency thermal processing of industrial components like axles, gear rings, and connecting rods. Designed for both pre-forging heating and online tempering, it offers precise temperature control and superior heat uniformity to ensure high-quality output. The system integrates an induction coil and furnace body for easy maintenance, while providing significant energy savings and reduced environmental impact compared to traditional coal-fired furnaces.

Key Features

Performance Advantages

- High-speed workpiece heating with minimal oxidation
- Excellent heat uniformity with low core-to-surface temperature difference
- High degree of automation for seamless online production
- Energy-efficient design reducing operational costs
- Environmentally friendly operation with reduced pollution

Operational Benefits

Easy Operation, Easy Maintenance, High Control Accuracy, Flexible Charging/Discharging

Applications

Primary Usage

- Pre-forging heating (gears, gear rings, axle shafts, connecting rods, shackles)
- Online corrosion prevention spraying for pipes
- Bar blue brittleness blanking
- Steel wire and tube tempering
- Local heating (u-shape bolts, roller thermal assembling, steel tube bending)

Technical Specifications

System Design Specs

1 System

Inductor/Furnace Integration

1 Type

Quick-Change Connector

Logistics

Packaging Details

Plywood cases and nude packaging