300t RH Vacuum Refining Furnace for Steel-making

The 300t RH vacuum refining furnace is a metallurgical processing unit used for secondary steelmaking. It employs vacuum treatment to remove dissolved gases and impurities from molten steel, improving its quality and mechanical properties.

Overview

High-Capacity RH Vacuum Refining Furnace

The 300t RH (Ruhrstahl Heraeus) vacuum refining furnace is a specialized metallurgical processing unit designed for secondary steelmaking. By utilizing advanced vacuum treatment, it effectively removes dissolved gases such as hydrogen, nitrogen, and oxygen, alongside other impurities. This process significantly enhances the steel's cleanliness, toughness, and weldability, making it ideal for high-end industrial applications.

Technical Specifications

Core Components

- Refractory-lined vessel
- Vacuum system
- Heating system (Induction)
- Circulation snorkel

Batch Capacity	300 metric tons
Refining Method	Ruhrstahl Heraeus (RH) Vacuum Treatment

Performance Metrics

Gases Removed

Hydrogen • Nitrogen • Oxygen

Primary Refining Goals	Gas Removal, Impurity Reduction, Improved Cleanliness, Enhanced Toughness, Better Weldability