

Copper Ore Flotation Separator

This flotation machine separates copper ore using the principle of buoyancy. Air is introduced to the pulp, causing copper particles to attach to bubbles and float to the surface for collection.



Product Overview

High-Efficiency Flotation Separation

The Copper Ore Flotation Separator is a critical piece of mineral processing equipment designed to separate valuable minerals from gangue by leveraging differences in hydrophobicity. Utilizing a series of flotation cells equipped with advanced impeller mechanisms, this machine ensures optimal slurry agitation and air dispersion for maximum recovery. It is engineered for continuous operation in demanding mining environments, making it ideal for the roughing and selection of non-ferrous metals like copper, zinc, lead, and gold.

Technical Capabilities

Process Requirements

- Ore grinding and classification prior to separation
- Achieving suitable concentration and fineness
- Chemical reagent addition for bubble attachment
- Slurry agitation and aeration

Suitable Materials

Copper, Zinc, Lead, Gold, Nickel, Ferrous Metals, Non-ferrous Metals, Non-metallic Minerals

Design & Construction

Design Highlights

Heavy-duty steel construction • Corrosion-resistant coating • Series-arranged flotation cells • Integrated froth collection system

Operational Mode

Continuous operation