

Mineral Flotation Separator

The flotation machine separates minerals from gangue by exploiting differences in hydrophobicity. It agitates and aerates slurry to create bubbles, which selectively attach to hydrophobic mineral particles, carrying them to the surface for collection.



Product Overview

Efficient Mineral Recovery

The Mineral Flotation Separator is a specialized metallurgical processing device engineered to separate valuable minerals from gangue by exploiting differences in hydrophobicity. By utilizing a system of impellers and froth collection, the machine agitates and aerates slurry to create bubbles. These bubbles selectively attach to hydrophobic mineral particles, carrying them to the surface for efficient collection and high-throughput performance in nonmetal mining applications.

Technical Specifications

Core Components

- Impeller assembly
- Froth collection system
- Aeration mechanism
- Multi-cell configuration

Applications

Metallurgical Processing, Nonmetal Mining, Mineral Recovery

Performance Features

Separation Principle

Hydrophobicity differentiation via aeration and agitation

High Throughput Design

Yes