

Centrifugal Ore Concentrator

The centrifugal concentrator utilizes centrifugal force to separate valuable minerals from ore. It achieves high recovery rates and improves concentrate grades across a wide range of ore types and particle sizes.



Overview

High-Efficiency Centrifugal Separation

The centrifugal ore concentrator utilizes high-speed rotation to generate strong centrifugal forces, significantly strengthening the gravity separation process. This technology is highly effective for recovering ultrafine ore particles, making it an essential tool for processing gold, tungsten, lead, manganese, and iron. Designed for industrial durability, it offers adjustable parameters to optimize recovery rates and concentrate grades for various mineral types.

Key Metrics

Performance Highlights

22 kw

Power (Large Model)

11.5 T

Weight (Large Model)

5 j

Beneficiation Area (Large Model)

Technical Specifications

Model Comparison

Parameter	Large Model	Small Model
Small end diameter	1600mm	600mm
Large end diameter	1750mm	800mm
Drum length	900mm	800mm
Beneficiation area	5j	1.6j
Power	22 kw	11 kw
Quality (Weight)	11.5T	3.5T

Operating Conditions

Operating Parameters

- Input thickness: 20–25%
- Drum revolution: 400–950 r/min
- Washing water pressure: 5–8
- Triple valve pressure: 1.5–2.0

Applications

Compatible Minerals

Gold, Tungsten, Lead, Manganese, Iron