

## **jaw crusher and screening machine for all kinds of ores**

Integrated jaw crusher and screening machine combines crushing and screening functions, which can be widely used for processing coal, coke, limestone, iron ore and other mineral raw materials.

### **Integrated Jaw Crusher and Screening Machine**

The Integrated Jaw Crusher and Screening Machine is an advanced solution that combines crushing and screening functions in a single, fully automatic system. Designed for environmental protection, noise control, and ease of use, it enhances the automation of sample processing and is ideal for coal, electric power, iron and steel metallurgy, geology, and building materials industries.

### **Main Features**

1. Fully automatic integrated design: Combines crushing and screening in one machine, quickly processes samples and provides real-time particle size grading for representative results.
2. Compact structure, space-saving: Small footprint and simple design make it suitable for modern labs and automated production lines.
3. No dust leakage, low noise operation: Fully sealed construction controls dust, meets environmental standards, and ensures a quiet working environment.



4. Efficient crushing and screening: High-performance jaw crusher and multi-layer screening device handle large sample volumes for rapid and accurate sample preparation.
5. Easy operation and maintenance: User-friendly controls, simple cleaning, and high automation minimize manual intervention and maintenance costs.
6. Strong durability: Built from high-strength materials for stable, reliable long-term operation with reduced maintenance needs.

### **Working Principle**

1. Crushing part: Mineral samples are fed into the jaw crusher, which uses mechanical force to rapidly break them into required particle sizes via impact and compression.
2. Screening part: Crushed material passes through a multi-layer screening system, where particles are graded and separated by size to ensure uniformity and representativeness.
3. Automatic control: Built-in intelligent system automatically adjusts crushing and screening parameters as needed. Operators can easily set modes and timing via the control panel.

### **Application Areas**

1. Coal industry: Crushing and screening of coal samples for quality analysis and optimized combustion in power generation.
2. Metallurgy industry: Processing iron ore, coke, and mineral raw materials; screening for suitable particle sizes for metallurgical processes.

3. Geology and building materials: Crushing and screening of limestone and other materials for mineral exploration, development, and resource extraction.
4. Third-party testing organizations: Reliable sample preparation for accurate, representative analysis and impartial testing.
5. Environmental protection testing: Processing waste, soil, and other samples for pollutant analysis and environmental evaluation.

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<b>Model</b>	<b>EPS100A</b>
Feed size	≤100mm
Output size	Hopper No.1 collects material larger than 6 to 13mm(screen holes can be customized)
Output size	Hopper No.2 collects material from 3 to 6mm(screen holes can be customized)
Output size	Hopper No.3 collects material smaller than 3mm(screen holes can be customized)
Production rate	600kg per hour
Motor power	4kw+0.75kw

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<b>Model</b>	<b>EPS100A</b>
Power supply	three phase 380Vac
Weight	480kg
Dimensions	1320x1130x1360mm