

## **double roll crusher sample divider for building materials**

Double roll crusher sample divider is a kind of equipment that utilizes two high-speed rotating rolls to crush materials, which is mainly applied to sample preparation and reduction work in coal, electric power, iron and steel metallurgy, geology and building materials industries.

### **Double Roll Crusher Sample Divider**

The Double Roll Crusher Sample Divider ensures the representativeness and accuracy of samples by compressing and rolling materials into smaller size samples using a specific reduction method. This equipment is ideal for laboratories, industrial sample processing, and quality control in coal, metallurgy, geology, and building materials industries.

#### **Main Features**

1. Simple and efficient structural design: Easy to operate and maintain, suitable for various materials' crushing and reduction tasks.
2. High-precision particle size control: Uniform discharge particle size, easily adjustable by roll gap to meet specific sample requirements.
3. Patented roll technology: Specially processed roll surface for anti-adhesion, reduces material buildup, and improves crushing efficiency.
4. High stability and reliability: Smooth, low-noise operation with high working stability, minimizing vibration-induced failures.



5. Environmentally friendly design: Sealed construction prevents dust leakage, meeting modern industrial environmental standards.
6. Adaptable: Suitable for materials with varying moisture content and hardness, including high-moisture samples.

### **Working Principle**

The Double Roll Crusher Sample Divider compresses and crushes materials using two high-speed rotating rollers in the crushing chamber. The strong pressure and friction between the rollers achieve the desired crushing effect. Roll gap adjustment allows precise control of discharge particle size. Crushed material is then uniformly divided in the reducer, ensuring sample representativeness and precision.

### **Advantages**

1. Simplified operation: Simple mechanical design and automatic control reduce manual work and labor intensity.
2. Strong stability: High-quality roll materials and precision processing ensure long service life and reliable operation.
3. Accurate particle size adjustment: Easily meets different sample requirements for particle size, ensuring sampling accuracy.
4. Energy-saving and high efficiency: Stable operation with low energy consumption for large-volume, continuous processing.

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<b>Model</b>	<b>GPS250x150</b>	<b>GPS300x300</b>
Roller size	Φ250x150	Φ300x300
Feed size	≤13mm	≤20mm
Output size	less than 3 to 0.5mm(adjustable)	less than 3 to 1mm(adjustable)
Reduction ratio	1/8 to 1/2(adjustable)	
Production rate	300 to 400kg per hour	600 to 900kg per hour
motor power	3kw+0.4kw	5.5kw+0.4kw
Power supply	three phase 380Vac	
Weight	350kg	400kg
Dimensions	1200x800x1100mm	1300x900x1200mm