



# Jaw Crusher Series



# Equilab Jaw Crusher Series

*The Equilab Jaw Crushers are grinding units especially designed for the primary reduction of semi-hard, hard, brittle and tough materials. Able to quickly and efficiently crush glass, earth, slag, metallic oxides, cements and construction materials, ferroalloys, ceramic materials, minerals and stones.*

*These are very robust and simple units, that can take in and reduce samples for years practically maintenance free.*

- **Fast**
- **Simple**
- **Safe**
- **Efficient**

During the sample preparation step, you can have samples of varied size. If the initial size of the sample is very big – over 10 mm -, it is necessary to undertake a pre-crushing process, named primary reduction. After this first reduction you can proceed to use other equipment such as a vibratory disc mill or a ball mixer mill, which shall help to reach the requested final analytical granulometry.

**The Equilab Jaw Crushers** have been especially designed for a quick and efficient primary size reduction of semi-hard, hard, brittle and tough materials.

**Working process.** The manual adjustment system with analogue control lets the user select the final desired diameter for the sample through an analogue signal in a control screen located on the left-hand side of the unit. The sample is fed via a “anti-rebound” hopper and falls directly to the crushing chamber. Here a strong grinding process starts, due to the powerful action of a movable jaw against a fixed one, the sample being crushed between both. When the sample reaches an equal or inferior size than the one selected, it falls in a removable container.

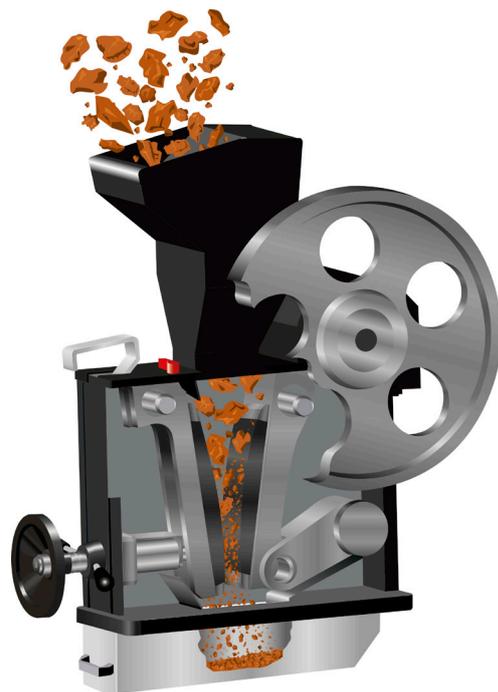
**Safe.** With the “anti-rebound” hopper, it is possible to safely feed the unit even when operative. All the moving parts of the unit are protected to ensure the safety of the user.



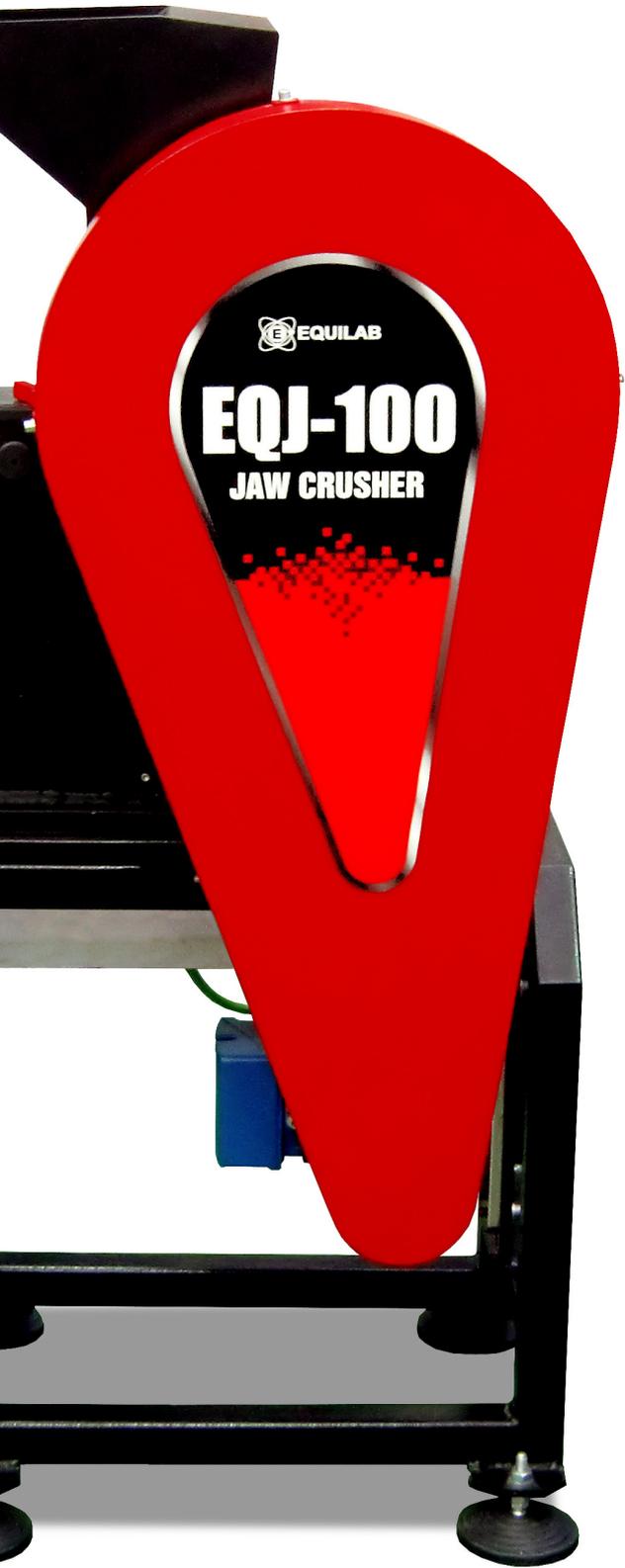
The Crusher has got electrical overload protection.

**Fast.** The power of the engine reaches the moving jaw via an eccentric shaft, causing an elliptical movement in the part, extending thus the crushing and friction area.

**Method.** The breaking of the sample takes place in the inside of the crushing chamber under the high pressure level exerted between the movable and the fixed jaw, and the interaction with the other pieces of the sample



Picture of the working method of an Equilab Jaw Crusher





### Technical specifications:

Method: pressure and friction

Applications: cement industry, metallurgy, power plants, environmental laboratories, material recovery plants, recycling plants, geology and mineralogy, ceramic industry

Initial feeding size: EQJ-100: < 50 mm  
EQJ-200: < 100 mm

Final grain size: EQJ-100: < 1 mm  
EQJ-200: < 1 mm

Crushing speed: EQJ-100: 230 rpm  
EQJ-200: 270 rpm

Engine power: EQJ-100: 1100W  
EQJ-200: 4000W

Power: 3 x 380V + earth

Jaws: manganese steel

EQJ-100  
Dimensions: 122,5 cm (height) x 50cm (width) x 42cm (depth)  
Approximate weight: ~185 kg

EQJ-200  
Dimensions: 138 cm (height) x 90cm (width) x 58cm (depth)  
Approximate weight: ~550 kg

### Jaw Crusher comparative table

Description	Engine power	Initial granulometry	Final granulometry
EQJ-100 Jaw Crusher	1100W	50mm	1mm
EQJ-200 Jaw Crusher	4000W	100mm	1mm

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