

# JAW CRUSHER BB 500



The Jaw Crusher BB 500 is used for **rapid, effective, crushing and pre-crushing of medium-hard, hard, brittle and tough materials**. Its variety of materials offered, including heavy-metal free steel, and its efficiency and safety makes the BB 500 ideal for sample preparation in laboratories and industrial plants.

For small amounts of sample the BB 500 is used **batch-wise**; for larger amounts it can be operated **continuously**. Control of the gap width and zero-point adjustment allow for reproducible results.

The BB 500 with its **steep crushing chamber and powerful drive provides for very effective crushing kinematics**.

## APPLICATION EXAMPLES

alloys, basalt, cement clinker, ceramics, chamotte, coal, coke, construction materials, feldspar, glass, granite, minerals, ores, oxide ceramics, quartz, rocks, silicon, slag, ...

## PRODUCT ADVANTAGES

- | high crushing ratio 50:1
- | continuous gap width setting
- | overload protection
- | wide range of materials for contamination free grinding
- | removable no-rebound feed hopper
- | easy-to-clean crushing chamber
- | continuous and batch-wise crushing
- | connector for dust extraction
- | central lubrication (optional)
- | suitable for integration in automatic installations
- | special version for grinding semi-conductor materials
- | special version with automated sorting of undersize (3 fractions) and oversize (1 fraction) (2 - 6 mm available)

## FEATURES

<b>Applications</b>	coarse and pre-crushing
<b>Field of application</b>	chemistry / plastics, construction materials, engineering / electronics, environment / recycling, geology / metallurgy, glass / ceramics
<b>Feed material</b>	medium-hard, hard, brittle, tough
<b>Size reduction principle</b>	pressure
<b>Material feed size*</b>	< 110 mm
<b>Final fineness*</b>	90% < 0.5 mm
<b>Material of grinding tools</b>	manganese steel
<b>Jaw width</b>	250 x 130 mm
<b>Gap width setting</b>	0 - 11 mm
<b>Gap width display</b>	scale
<b>Hinged hopper</b>	yes
<b>Dust extraction unit</b>	yes
<b>Central lubrication</b>	no
<b>Process line version</b>	optional
<b>Collector capacity</b>	15 l
<b>Drive</b>	3-phase motor
<b>Drive power</b>	7.5 kW
<b>Electrical supply data</b>	different voltages
<b>Power connection</b>	3-phase
<b>Protection code</b>	IP 55
<b>W x H x D closed</b>	930 x 1400 x 1080 mm
<b>Net weight</b>	~ 1000 kg
<b>Standards</b>	CE

\*depending on feed material and instrument configuration/settings

## FUNCTIONAL PRINCIPLE

The Jaw Crusher BB 500 is a **robust and powerful forced-feed crusher**. The feed material passes through the no-rebound hopper and enters the crushing chamber.

Size reduction takes place in the wedge-shaped area between the fixed crushing arm and one oscillating with high frequency. This motion ensures a consistent gap width in the stroke cycle so that the sample is crushed to the set fineness in one working step. Two massive flywheels transmit **high impulse forces** to the crushing jaws. The innovative design permits using both sides of the jaws thanks to a 180° rotation.

As soon as the sample is smaller than the discharge gap width, it falls into a removable collector. **The continuous gap width setting with scale ensures optimum size reduction in accordance with the set gap width.**



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