

## Jaw Crusher BB 50

### General Information

The BB 50 has been specially designed for sample preparation in the laboratory. It is used for the rapid, gentle crushing and pre-crushing of medium-hard, hard, brittle and tough materials.

The space-saving, dust-tight instrument fits on any laboratory bench and is ideally suited to crush small amounts of sample with large feed sizes gently and without loss. To avoid metallic contamination, the grinding chamber is available of ceramic materials. With its digital gap width display and zero point adjustment the BB 50 allows for reproducible results.



### Application Examples

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

### Product Advantages

- powerful size reduction thanks to 1.1 kW industrial drive
- large fold-back hopper
- compact, benchtop instrument
- removable jaw for easy cleaning
- adjustable speed allows adaptation to sample characteristics
- wear compensation with zero-point adjustment
- convenient operating keypad with digital display
- memory for gap width setting
- wide range of materials for contamination free grinding

### Features

Applications	coarse and pre-crushing
Field of application	agriculture, biology, construction materials, geology / metallurgy, glass / ceramics, medicine / pharmaceuticals, ...
Feed material	medium-hard, hard, brittle, tough
Size reduction principle	pressure
Material feed size*	< 40 mm
Final fineness*	< 0.5 mm
Material of grinding tools	manganese steel, stainless steel, tungsten carbide, zirconium oxide, steel 1.1750 (for heavy-metal free grinding)
Jaw width	45 x 59 mm
Gap width setting	0 - 11 mm in increments 0.1 mm
Gap width display	digital

## Jaw Crusher BB 50

Zero point adjustment	yes
Hinged hopper	yes
Dust extraction unit	already dust-tight
Central lubrication	lifetime lubrication by manufacturer
Process line version	process line use is possible by removing drawer
Collector capacity	3 l
Drive	3-phase motor with frequency converter
Drive power	1.1 kW
Electrical supply data	different voltages
Power connection	1-phase
Protection code	IP 20 / IP 00 at ventilation slots
W x H x D closed	420 x 460 x 560 mm
Net weight	~ 79 kg
Documentation	Operation & Application Video
Standards	CE

\*depending on feed material and instrument configuration/settings

## Jaw Crusher BB 50

### Videolink



<http://www.retsch.com/bb50>

### Function Principle

The Jaw Crusher BB 50 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 wedged-shaped area between the fixed crushing arm and one moved by an eccentric drive shaft. The elliptical motion crushes the sample which then falls under gravity.

As soon as the sample is smaller than the discharge gap width, it falls into a removable collector. The continuous gap width setting with digital display ensure optimal size reduction in accordance with the set gap width value.

### Order data

#### Jaw Crusher BB 50

##### breaking jaws / wearing plates

20.062.0001	BB 50, 200-240 V, 50/60 Hz, manganese steel / stainless steel
20.062.0002	BB 50, 200-240 V, 50/60 Hz, stainless steel / stainless steel
20.062.0003	BB 50, 200-240 V, 50/60 Hz, tungsten carbide / tungsten carbide
20.062.0004	BB 50, 200-240 V, 50/60 Hz, zirconium oxide / zirconium oxide

##### for grinding without heavy-metal contamination

20.062.0005	BB 50, 200-240 V, 50/60 Hz, steel 1.1750 / steel 1.0344
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other electrical versions available for the same price

#### Accessories BB 50

22.048.0014	Breaking jaws, manganese steel, 1 pair
22.048.0012	Breaking jaws, stainless steel, 1 pair

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22.048.0010	Breaking jaws, tungsten carbide, 1 pair
22.048.0011	Breaking jaws, zirconium oxide, 1 pair
22.711.0015	Wearing plates, stainless steel, 1 pair
22.711.0016	Wearing plates, tungsten carbide, 1 pair
22.711.0017	Wearing plates, zirconium oxide, 1 pair
03.050.0437	Cover plate for collecting receptacle
05.242.0038	V-belt, 1 piece
22.825.0005	Carry handles, 1 pair

### Accessories BB 50 for grinding without heavy-metal contamination

22.048.0016	Breaking jaws, steel 1.1750, 1 pair
22.711.0018	Wearing plates, steel 1.0344, 1 pair