



## JAW CRUSHER BB 250

Model with most ergonomic handling

**The Jaw Crusher BB 250 is specifically designed for accepting large feed sizes up to 120 x 90 mm. The gap width can be set stepless from 0-30 mm. Depending on the sample material, particle sizes down to 2 mm can be obtained, resulting in a crushing ratio of 45. A throughput of up to 300 kg/h is possible with the BB 250.**

The RETSCH jaw crusher series is available in 8 different sizes. Throughput and final fineness depend on the crusher type, selected gap width and breaking properties of the sample material.

Robust design, simple handling and cleaning are the features of the RETSCH jaw crusher models. Small amounts of sample are processed batchwise; for larger amounts the crushers can be operated continuously.

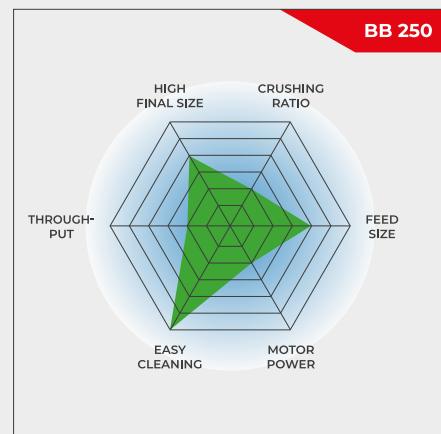


[Click to view video](#)

#### Product Video

## ROBUST & VERSATILE

- | Front door facilitates cleaning of crushing chamber
- | Infinite/continuous gap width setting
- | Wide range of materials for contamination free grinding
- | Collecting receptacle with outlet for continuous operation
- | Connector for dust extraction
- | Scale indicates jaw wear
- | Selection of hoppers for specific applications



Model with most ergonomic handling

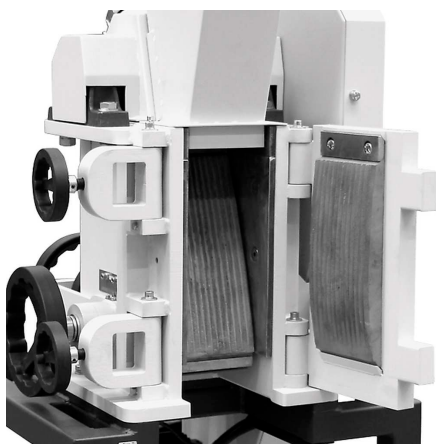
## JAW CRUSHER BB 250

### SUPERIORITY IN DETAIL

For sample amounts up to 10 l, the Jaw Crusher BB 250 is used batchwise; for larger volumes it can be operated continuously. Thanks to the modular concept of the housing and frame, this jaw crusher is suitable for a wide range of applications.

A front door gives direct access to the crushing chamber at a perfect height for ergonomic and easy cleaning. The feed hopper with splash-back protection can be removed quickly and easily. The Jaw Crusher BB 250 has a connection for dust extraction and is protected against mechanical overload. A scale indicates the wear of the breaking jaws, informing the user when it is time for an exchange.

The crushing chamber is available in 6 different materials to ensure neutral-to-analysis sample preparation. The technical and safety features make this jaw crusher ideally suited for sample preparation in laboratories and for small scale production.



Front door allows for easy cleaning



Connection for dust extraction

## ACCESSORIES FOR THE JAW CRUSHER BB 250

### BREAKING JAWS

Breaking jaws and wearing plates are available in five different materials to be selected depending on the sample and the analysis to be carried out:

- | manganese steel
- | stainless steel
- | tungsten carbide
- | steel for heavy-metal free grinding
- | stainless steel 316L
- | NiHard4 steel



### HOPPER TYPES

Three hopper types are available for the BB 250 jaw crusher.

The standard hopper can be optionally equipped with a special infeed hopper. This additional hopper can be placed on a table for loading up to 10 l of sample material. By attaching it to the standard hopper with a connection rod, the sample is fed into the BB 250 with the help of a manual pusher.

A special hopper is available for quick and easy feeding of drill cores or large amounts of bulk material. The cover can be closed to serve as splash back protection.



## COLLECTING VESSELS

In addition to the standard receptacle which accepts sample amounts up to 10 l, two options are available.

For continuous operation the collection funnel with outlet is the ideal choice.

The large volume receptacle accepts up to 26 liter of sample and comes with a flexible connection flange and a carrier on wheels. This version is the best choice for dust-free operation.



## JAW CRUSHER BB 250 & DISC MILL DM 200

# TWO-STAGE SAMPLE PREPARATION IN ONE STEP

The combi unit, featuring the Jaw Crusher BB 250 and the Disc Mill DM 200 connected via a cyclone separator, enables automated, continuous sample preparation. Material is directly transported from the jaw crusher to the disk mill, allowing large feed sizes to be processed in one step to a defined final fineness of small particles. This two-step grinding process is necessary for hard or brittle materials that require initial coarse reduction followed by fine grinding. The combi unit streamlines workflows, eliminates manual sample transfer, and significantly reduces processing time. It minimizes dust emissions and ensures efficient, reproducible results, making it an ideal solution for applications in agriculture, cement production, mining, precious metal analysis, materials research, and environmental analysis.



## APPLICATION EXAMPLE OF THE COMBI UNIT

- | Gap setting jaw crusher: 2 mm
- | Gap setting disc mill: 0.2 mm
- | Feed size: 60 mm
- | Final fineness: 200 µm
- | Sample amount: 1 kg
- | Process time: 10 min

## CYCLONE SYSTEM FOR JAW CRUSHERS

# BYE-BYE DUST AND SAMPLE LOSS

Whether you're preparing samples in mining, precious metals, materials research, or environmental analysis, the RETSCH Cyclone System ensures efficiency, precision and safety like never before!

### Why should you choose the RETSCH Cyclone System?

#### | Total Sample Recovery

Eliminate sample loss during crushing with our cyclone, ensuring accurate and reproducible results for every analysis!

#### | Enhanced Operator Safety

Our cyclone significantly reduces dust exposure, creating a safer and cleaner working environment for your team!

Plus: Existing instruments (BB 50, BB 250, BB 400 or BB 500) can be retrofitted with the Cyclone System.



## USING THE CYCLONE SET WITH A COMBINATION OF TWO MACHINES

Beyond the general advantages of a cyclone, this combination enables pre-crushing and fine grinding in a single pass, resulting in increased process efficiency.

Existing machines BB 250 and DM 200 can be combined with a retrofitting system.



### JAW CRUSHER BB 250

## TYPICAL SAMPLE MATERIALS

RETSCH's powerful jaw crushers are ideally suited for preliminary crushing of construction materials, ores, granite, oxide ceramics, quartz, slag, silicon, coal, tungsten alloys, cement clinker, etc.



*cement clinker*



*ceramics*



*catalysts*



*drill core*

To find the best solution for your sample preparation task, visit our application database.

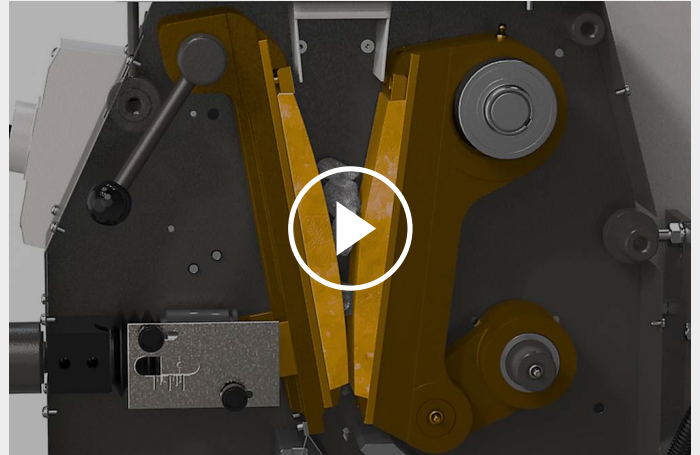
## JAW CRUSHER BB 250

### FUNCTIONAL PRINCIPLE

The Jaw Crusher BB 250 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 moved by an eccentric drive shaft. The elliptical motion crushes the sample which is moved towards the crushing gap under gravity.

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



[Click to view video](#)

## JAW CRUSHER BB 250

# FUNCTIONAL PRINCIPLE

|                                   |                                                                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <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>        | < 120 x 90 mm                                                                                                                            |
| <b>Final fineness*</b>            | < 2 mm                                                                                                                                   |
| <b>Throughput*</b>                | 300 kg/h                                                                                                                                 |
| <b>Material of grinding tools</b> | manganese steel, stainless steel, tungsten carbide, steel for heavy-metal free grinding, stainless steel 316L, NiHard4                   |
| <b>Jaw width</b>                  | 120 x 90 mm                                                                                                                              |
| <b>Gap width setting</b>          | 0 - 30 mm                                                                                                                                |
| <b>Gap width display</b>          | Scale                                                                                                                                    |
| <b>Zero point adjustment</b>      | 3,4 mm                                                                                                                                   |
| <b>Wearing rate display</b>       | 4,6 mm                                                                                                                                   |
| <b>Removable hopper</b>           | 6,9 mm                                                                                                                                   |
| <b>Dust extraction unit</b>       | yes                                                                                                                                      |
| <b>Central lubrication</b>        | no                                                                                                                                       |
| <b>Process line version</b>       | Optional                                                                                                                                 |
| <b>Collector capacity</b>         | 10 l                                                                                                                                     |
| <b>Base frame</b>                 | vario frame (adjustable for continuous crushing)                                                                                         |
| <b>Drive</b>                      | 3-phase motor                                                                                                                            |
| <b>Drive power</b>                | 3.0 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>           | 695 x 1399 x 719 mm                                                                                                                      |
| <b>Net weight</b>                 | ~ 350 kg                                                                                                                                 |
| <b>Standards</b>                  | CE                                                                                                                                       |

\*depending on feed material and instrument configuration/settings

[www.retsch.com/bb250](http://www.retsch.com/bb250)

## ORDER DATA

### JAW CRUSHER BB 250

**Jaw Crusher BB 250 complete with breaking jaws, wearing plates, door, feed hopper, 10 l collecting receptacle and base frame**

|             |                                                                                     |        |                 | <b>breaking jaws / wearing plates</b>           |
|-------------|-------------------------------------------------------------------------------------|--------|-----------------|-------------------------------------------------|
| 21.001.0001 |    | BB 250 | 3~ 400 V, 50 Hz | manganese steel / hardened steel                |
| 21.001.0020 |    | BB 250 | 3~ 400 V, 50 Hz | NiHard 4 / hardened steel                       |
| 21.001.0002 |    | BB 250 | 3~ 400 V, 50 Hz | tungsten carbide / hardened steel               |
| 21.001.0003 |    | BB 250 | 3~ 400 V, 50 Hz | tungsten carbide / tungsten carbide             |
| 21.001.0004 |   | BB 250 | 3~ 400 V, 50 Hz | heavy metal free steel / heavy metal free steel |
| 21.001.0018 |  | BB 250 | 3~ 400 V, 50 Hz | stainless steel / hardened steel                |

**other electrical versions available for the same price**

### CYCLONE FOR BB 250

CYCLONE SET WITH HOLDER, CONNECTING ELEMENT, LID WITH CONNECTOR FOR VACCUUM CLEANER AND SAMPLE OUTLET  
(PLEASE ORDER CASSETTE WITH OUTLET SEPERATELY)

|             |                                                           |
|-------------|-----------------------------------------------------------|
| 22.935.0039 | Cyclone set with collecting receptacle 30 l               |
| 03.183.0141 | Cassette with outlet for use with cyclone                 |
| 02.605.0420 | Adjustable steel connection tubing (316L) for cyclone set |
| 05.707.0208 | FDA certified hose, 1.5 m                                 |
| 22.748.0017 | Industrial vacuum cleaner Attix, 230 V, 50/60 Hz          |

### ACCESSORIES JAW CRUSHER BB 250

BREAKING JAWS BB 250

|             |                                               |
|-------------|-----------------------------------------------|
| 23.048.0026 | Breaking jaws, manganese steel, 1 pair        |
| 23.048.0044 | Breaking jaws, NiHard 4, 1 pair               |
| 23.048.0024 | Breaking jaws, tungsten carbide, 1 pair       |
| 23.048.0025 | Breaking jaws, heavy metal free steel, 1 pair |
| 23.048.0042 | Breaking jaws, stainless steel, 1 pair        |

**other materials available on request**

#### WEARING PLATES BB 250

|             |                                                |
|-------------|------------------------------------------------|
| 23.711.0021 | Wearing plates, hardened steel, 1 pair         |
| 23.711.0020 | Wearing plates, tungsten carbide, 1 pair       |
| 23.711.0019 | Wearing plates, heavy metal free steel, 1 pair |

**other materials available on request**

#### FURTHER ACCESSORIES BB 250

|             |                                                                                                              |
|-------------|--------------------------------------------------------------------------------------------------------------|
| 23.003.0016 | Collecting receptacle, standard steel, powder coated, 5 litres                                               |
| 23.003.0017 | Collecting receptacle, standard steel, powder coated, 10 litres                                              |
| 23.003.0018 | Collecting receptacle, stainless steel, 26 litres<br>complete with connection flange and carrier with wheels |
| 05.045.0528 | Collecting receptacle for cyclone set 22.935.0039                                                            |
| 23.003.0026 | Collecting funnel with outlet for continuous use, powder coated                                              |
| 23.785.0017 | Hopper for drill cores                                                                                       |
| 23.003.0019 | Infeed hopper, stainless steel, 10 litres<br>incl. connection rod and manual pusher                          |
| 02.785.0271 | Infeed hopper for batch loading                                                                              |
| 03.025.0137 | Adapter for vacuum cleaner                                                                                   |
| 99.200.0044 | IQ/OQ Documentation for BB 250                                                                               |