



## JAW CRUSHER BB 200

Versatile unit with a focus on fineness

**The Jaw Crusher BB 200 is a floor model designed for a throughput of up to 300 kg/h, suitable for many typical crushing tasks. It accepts feed sizes up to 90 mm. The gap width can be set stepless from 0-30 mm.**

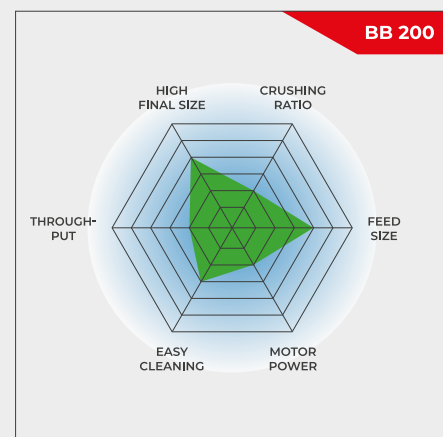
**Depending on the sample material, particle sizes down to 2 mm can be obtained, resulting in a crushing ratio of 45. Its versatile usage includes continuous pre-and fine crushing in one step or process-line versions.**

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.

## ROBUST & VERSATILE

- | Excellent crushing performance
- | Wide range of materials for contamination free grinding
- | Wear compensation with zero-point adjustment
- | Continuous gap width setting
- | Easy-to-clean crushing chamber
- | Suitable for continuous grinding
- | Connector for dust extraction



Versatile unit with a focus on fineness

### JAW CRUSHER BB 200

## SUPERIORITY IN DETAIL

Robust design, simple handling and cleaning are the features of the BB 200 jaw crusher. For small sample amounts of up to 5 L the BB 200 can be used batch-wise; for larger amounts it can be operated continuously.

The crushed sample is collected in a removable collector. For larger amounts or continuous crushing operations, the sample collector can be replaced by customer-specific solutions (e.g. a belt conveyor).

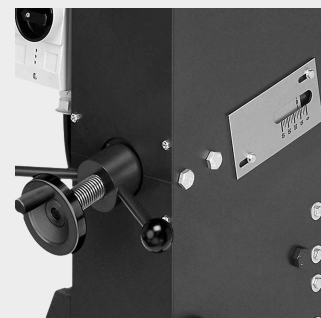
A Belleville spring washer integrated in the spindle adjustment provides additional overload protection. The eccentric spindle which moves the crushing arm is driven by a robust brake motor via V-belts. The largest belt pulley also acts as the flywheel to ensure uniform and smooth operation. The BB 200 jaw crusher features maintenance- & lubricant-free sliding bearings.

## JAW CRUSHER BB 200

### **WEAR COMPENSATION BY ZERO-POINT ADJUSTMENT**

Depending on the material and the throughput, sooner or later the breaking jaws will start to show signs of wear. This means that the set breaking jaw distance or the crushing gap will increase with time. To still be able to obtain reproducible crushing results this wear must be compensated.

RETSCH jaw crushers can be continuously adjusted, allowing for compensation of breaking jaw wear. This is done by slowly altering the gap width setting with the motor running until the breaking jaws are heard to come into contact. The new zero point thus obtained is saved by readjusting the scale.



## JAW CRUSHER BB 200

### **USER CONVENIENCE COMBINED WITH MAXIMUM SAFETY**

Safety is a top priority with RETSCH jaw crushers. The feed hopper with splash-back protection cannot be accessed by hand. A safety switch and the brake motor ensure an immediate stop if the unit is opened or switched on incorrectly.

For easy cleaning of the crushing chamber, the hinged hopper can be removed in a few simple steps. The jaw crushers run very smoothly and quietly and are virtually maintenance-free.



## FOR SAFE AND EFFICIENT CRUSHING PROCESSES

### **ACCESSORIES FOR THE JAW CRUSHER BB 200**

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



## JAW CRUSHER BB 200

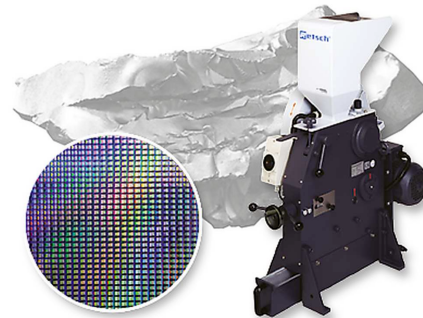
### **JAW CRUSHERS FOR SPECIAL REQUIREMENTS**

Apart from the standard model, the BB 200 jaw crusher is also available in special versions adapted to particular application requirements.

## HEAVY-METAL FREE CRUSHING

All jaw crushers are available in a heavy-metal-free version. The BB 200 can also be supplied in a special version suitable for crushing semiconductor materials. This includes plastic lining of feed hopper and receptacle as well as breaking jaws and wear plates of tungsten carbide.

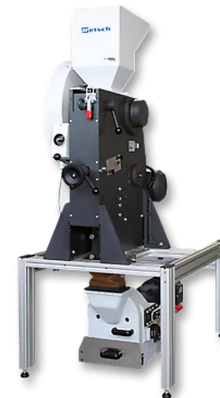
Thus, the sample does not come into contact with metal materials at any point and no abrasion of the grinding tools impairs the purity of the sample material.



## CONTINUOUS PRE- AND FINE GRINDING

For the rapid, continuous grinding of large quantities of coarse material to analytical fineness, the combination of the jaw crusher BB 200 and the RETSCH Disc Mill DM 200 is the perfect solution.

The crusher is mounted above the disc mill on a frame and both instruments are connected by a chute. With this construction, samples of up to 90 mm feed size can be ground down to 100 microns in one single step.



## PROCESS-LINE VERSION

The BB 200 jaw crusher is also available in a version suitable for continuous size reduction in online operation, e. g. for quality control during the production process. For these purposes it is supplied without feed hopper and motor protection switch. The voltage of the three-phase AC motor is selected in accordance with customer requirements.



JAW CRUSHER BB 200

## 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.



*concrete*



*jade*



*glass*



*coal*

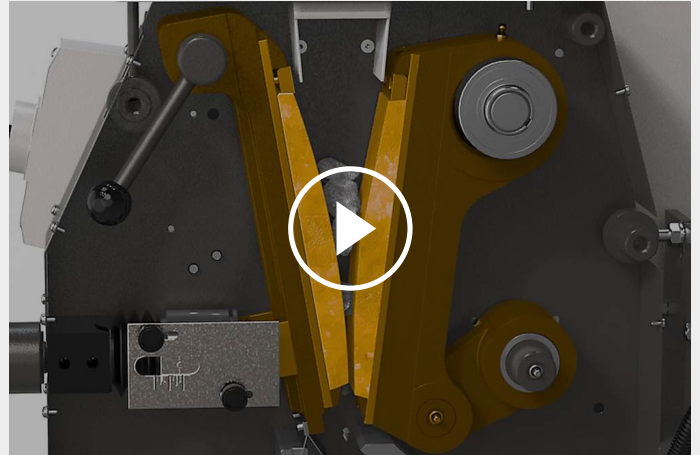
To find the best solution for your sample preparation task, visit our application database.

## JAW CRUSHER BB 200

### FUNCTIONAL PRINCIPLE

The Jaw Crusher BB 200 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 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 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 200

### TECHNICAL DATA

|                                                        |                                                                                                                                          |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <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>                             | < 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 1.1750 (for heavy-metal free grinding)                                         |
| <b>Jaw width</b>                                       | 90 x 90 mm                                                                                                                               |
| <b>Gap width setting</b>                               | 0 - 30 mm                                                                                                                                |
| <b>Gap width display</b>                               | Scale                                                                                                                                    |
| <b>Zero point adjustment</b>                           | yes                                                                                                                                      |
| <b>Hinged hopper</b>                                   | yes                                                                                                                                      |
| <b>Dust extraction unit</b>                            | yes                                                                                                                                      |
| <b>Maintenance- and lubricant-free sliding bearing</b> | yes                                                                                                                                      |
| <b>Process line version</b>                            | Optional                                                                                                                                 |
| <b>Collector capacity</b>                              | 5 l                                                                                                                                      |
| <b>Drive</b>                                           | 1-phase motor / 3-phase motor                                                                                                            |
| <b>Drive power</b>                                     | 1.5 kW                                                                                                                                   |
| <b>Electrical supply data</b>                          | different voltages                                                                                                                       |
| <b>Power connection</b>                                | 1-phase / 3-phase                                                                                                                        |
| <b>Protection code</b>                                 | IP 54                                                                                                                                    |
| <b>W x H x D closed</b>                                | 450 x 1160 x 900 mm                                                                                                                      |
| <b>Net weight</b>                                      | ~ 300 kg                                                                                                                                 |
| <b>Standards</b>                                       | CE                                                                                                                                       |

\*depending on feed material and instrument configuration/settings

[www.retsch.com/bb200](http://www.retsch.com/bb200)

## ORDER DATA

### JAW CRUSHER BB 200

**Jaw Crusher BB 200 complete with breaking jaws and wearing plates**

|             |                                                                                                                                                                       |        |                   | <b>breaking jaws / wearing plates</b>                                                                      |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------|------------------------------------------------------------------------------------------------------------|
| 20.053.0001 |                                                                                      | BB 200 | 3/N~ 400 V, 50 Hz | manganese steel / stainless steel                                                                          |
| 20.053.0002 |                                                                                      | BB 200 | 3/N~ 400 V, 50 Hz | stainless steel / stainless steel                                                                          |
| 20.053.0003 |                                                                                      | BB 200 | 3/N~ 400 V, 50 Hz | tungsten carbide / stainless steel                                                                         |
| 20.053.0043 |                                                                                      | BB 200 | 3/N~ 400 V, 50 Hz | tungsten carbide / tungsten carbide                                                                        |
| 20.059.0001 |   | BB 200 | 3~ 400 V, 50 Hz   | tungsten carbide / tungsten carbide,<br>all parts coming into contact with the sample are heavy-metal-free |
| 20.053.0018 |                                                                                    | BB 200 | 3/N~ 400 V, 50 Hz | steel 1.1750 / steel 1.0344,<br>for grinding without heavy-metal contamination                             |

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

### JAW CRUSHER BB 200 VERSION FOR INTEGRATION

**Version for integration into a system at the customer's location, with manufacturer's declaration according to EC machine directive, with three-phase motor (voltages on request), without hopper and protective motor switch**

|             |                                                                                     |                                            |
|-------------|-------------------------------------------------------------------------------------|--------------------------------------------|
| 20.058.1001 |  | BB 200, manganese steel / stainless steel  |
| 20.058.1002 |                                                                                     | BB 200, stainless steel / stainless steel  |
| 20.058.1003 |  | BB 200, tungsten carbide / stainless steel |

### ACCESSORIES JAW CRUSHER BB 200

1)

**BREAKING JAWS BB 200**

|             |                                                                                    |                                                                                         |
|-------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 22.048.0004 |   | Breaking jaws<br>manganese steel<br>1 pair                                              |
| 22.048.0005 |   | Breaking jaws<br>stainless steel<br>1 pair                                              |
| 22.048.0006 |   | Breaking jaws<br>tungsten carbide<br>1 pair                                             |
| 22.048.0024 |                                                                                    | Breaking jaws<br>tungsten carbide<br>1 pair, for jaw crusher 20.059.0001                |
| 22.048.0026 |                                                                                    | Breaking jaws<br>NiHard 4<br>1 pair                                                     |
| 22.048.0018 |  | Breaking jaws<br>steel 1.1750<br>1 pair, for grinding without heavy-metal contamination |

#### WEARING PLATES BB 200

|             |                                                                                     |                                                                                          |
|-------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 22.711.0003 |  | Wearing plates<br>stainless steel<br>1 pair                                              |
| 22.711.0010 |  | Wearing plates<br>tungsten carbide<br>1 pair                                             |
| 22.711.0006 |  | Wearing plates<br>steel 1.0344<br>1 pair, for grinding without heavy-metal contamination |

#### FURTHER ACCESSORIES BB 200

|             |                                                                                     |                                               |
|-------------|-------------------------------------------------------------------------------------|-----------------------------------------------|
| 22.351.0003 |  | V-belt, 1 set (3 pieces)                      |
| 02.824.0054 |                                                                                     | Frame for combination BB 200/Disc Mill DM 200 |