



## JAW CRUSHER BB 400

Ergonomic handling and large feed size

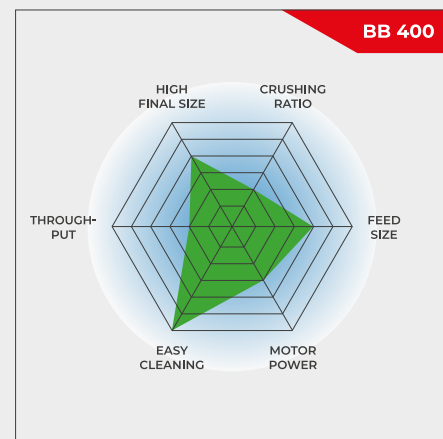
**The Jaw Crusher BB 400 is specifically designed for accepting large feed sizes up to 220 x 90 mm. The gap width can be set stepless from 0-30 mm. Depending on the sample material, particle sizes down to 2 mm can be obtained, resulting in a crushing ratio of 50. A throughput of up to 400 kg/h is possible with the BB 400.**

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

- | 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



Ergonomic handling and large feed size

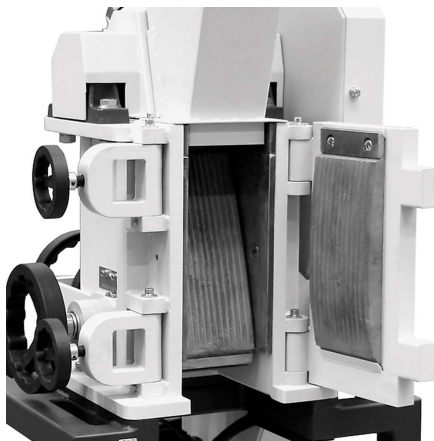
## JAW CRUSHER BB 400

### SUPERIORITY IN DETAIL

For sample amounts up to 10 l, the BB 400 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 BB 400 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 5 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



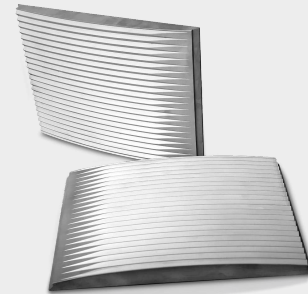
Connection for dust extraction

## ACCESSORIES FOR THE JAW CRUSHER BB 400

### 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
- | NiHard4 steel



### HOPPER TYPES

Three hopper types are available for the BB 400 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 400 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 400

### 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.

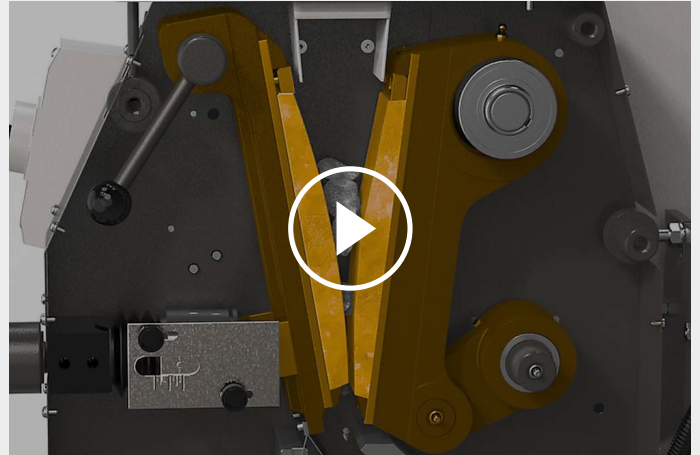
## JAW CRUSHER BB 400

### FUNCTIONAL PRINCIPLE

The Jaw Crusher BB 400 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 400

# 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>        | < 220 x 90 mm                                                                                                                            |
| <b>Final fineness*</b>            | < 2 mm                                                                                                                                   |
| <b>Throughput*</b>                | 400 kg/h                                                                                                                                 |
| <b>Material of grinding tools</b> | manganese steel, tungsten carbide, steel for heavy-metal free grinding, NiHard4                                                          |
| <b>Jaw width</b>                  | 220 x 90 mm                                                                                                                              |
| <b>Gap width setting</b>          | 0 - 30 mm                                                                                                                                |
| <b>Gap width display</b>          | Scale                                                                                                                                    |
| <b>Zero point adjustment</b>      | yes                                                                                                                                      |
| <b>Wearing rate display</b>       | yes, up to minus 10 mm                                                                                                                   |
| <b>Removable hopper</b>           | yes                                                                                                                                      |
| <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>                | 5.5 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>           | 695 x 1399 x 719 mm                                                                                                                      |
| <b>Net weight</b>                 | ~ 400 kg                                                                                                                                 |
| <b>Standards</b>                  | CE                                                                                                                                       |

\*depending on feed material and instrument configuration/settings

[www.retsch.com/bb400](http://www.retsch.com/bb400)

## ORDER DATA

### JAW CRUSHER BB 400

**Jaw Crusher BB 400 complete with breaking jaws, wearing plates, door, feed hopper, 10 l collecting receptacle and base frame**

|             |                                                                                   |        |                 | <b>breaking jaws / wearing plates</b>           |
|-------------|-----------------------------------------------------------------------------------|--------|-----------------|-------------------------------------------------|
| 21.002.0001 |  | BB 400 | 3~ 400 V, 50 Hz | manganese steel / hardened steel                |
| 21.002.0012 |  | BB 400 | 3~ 400 V, 50 Hz | NiHard 4 / hardened steel                       |
| 21.002.0002 |                                                                                   | BB 400 | 3~ 400 V, 50 Hz | tungsten carbide / hardened steel               |
| 21.002.0004 |  | BB 400 | 3~ 400 V, 50 Hz | heavy metal free steel / heavy metal free steel |

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

### CYCLONE FOR BB 400

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

|             |                                                           |
|-------------|-----------------------------------------------------------|
| 22.935.0039 | Cyclone set with collecting receptacle 30 l               |
| 03.183.0142 | 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 400

#### BREAKING JAWS BB 400

|             |                                               |
|-------------|-----------------------------------------------|
| 23.048.0029 | Breaking jaws, manganese steel, 1 pair        |
| 23.048.0045 | Breaking jaws, NiHard 4, 1 pair               |
| 23.048.0030 | Breaking jaws, tungsten carbide, 1 pair       |
| 23.048.0031 | Breaking jaws, heavy metal free steel, 1 pair |

**other materials available on request**

#### WEARING PLATES BB 400

|             |                                                |
|-------------|------------------------------------------------|
| 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 400

|             |                                                                                                              |
|-------------|--------------------------------------------------------------------------------------------------------------|
| 23.003.0016 | Collecting receptacle, standard steel, powder coated, 5 litres                                               |
| 02.054.0058 | Collecting receptacle, standard steel, powder coated, 10 litres                                              |
| 23.003.0024 | Collecting receptacle, stainless steel, 26 litres<br>complete with connection flange and carrier with wheels |
| 02.785.0226 | Collecting funnel with outlet for continuous use, powder coated                                              |
| 23.785.0018 | Hopper for drill cores                                                                                       |
| 23.003.0019 | Infeed hopper, stainless steel, 10 litres<br>incl. connection rod and manual pusher                          |
| 03.025.0137 | Adapter for vacuum cleaner                                                                                   |
| 01.657.0031 | Raised access step                                                                                           |