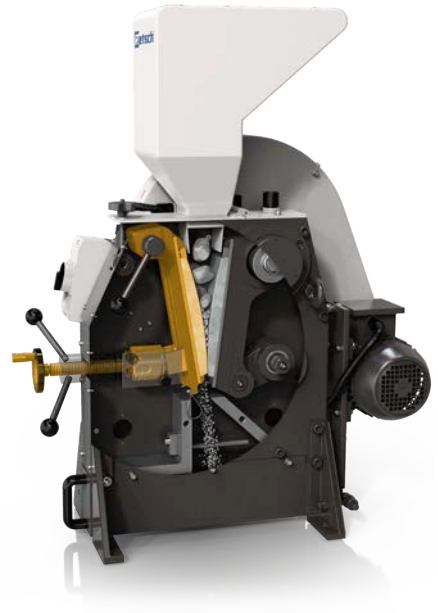
JAW CRUSHER BB 100

Basic unit for standard applications

The Jaw Crusher BB 100 is the smallest floor model of the series. It accepts feed sizes up to 50 mm. The gap width can be set stepless from 0-20 mm. Depending on the sample material, particle sizes down to 4 mm can be obtained, resulting in a crushing ratio of 12.5.

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

Basic unit for standard applications

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SUPERIORITY IN DETAIL

Robust design, simple handling and cleaning are the features of the BB 100 jaw crusher. For small sample amounts of up to 2 L the BB 100 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 of the jaw crusher.

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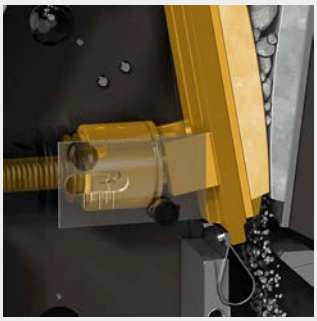
WEAR COMPENSATION BY ZERO-POINT ADJUSTMENT



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.

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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.

JAW CRUSHER BB 100

TECHNICAL DATA

Applications	coarse and pre-crushing
Field of application	chemistry / plastics, construction materials, engineering / electronics, environment / recycling, geology / metallurgy, glass / ceramics
Feed material	medium-hard, hard, brittle, tough
Size reduction principle	pressure
Material feed size*	< 50 mm
Final fineness*	< 4 mm
Throughput*	200 kg/h
Material of grinding tools	manganese steel, stainless steel, tungsten carbide, steel 1.1750 (for heavy-metal free grinding)
Jaw width	60 x 60 mm
Gap width setting	0 - 20 mm
Gap width display	scale
Zero point adjustment	yes
Hinged hopper	yes
Dust extraction unit	yes
Central lubrication	no
Process line version	no
Collector capacity	2 l
Drive	1-phase motor / 3-phase motor
Drive power	0.75 kW
Electrical supply data	different voltages
Power connection	1-phase / 3-phase
Protection code	IP 54
W x H x D closed	320 x 960 x 800 mm
Net weight	~ 137 kg
Standards	CE

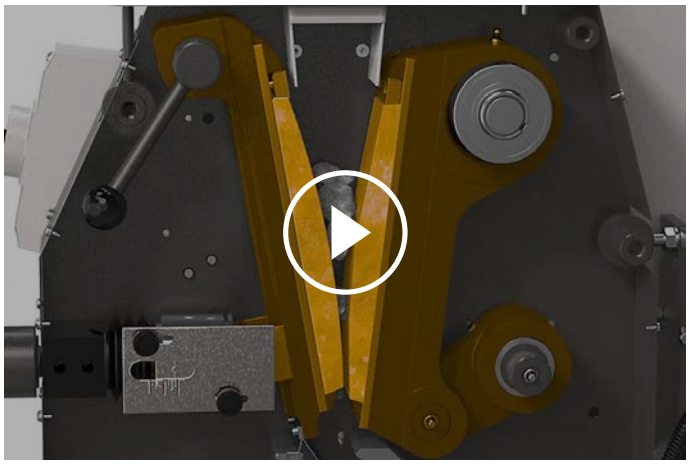
*depending on feed material and instrument configuration/settings

JAW CRUSHER BB 100

FUNCTIONAL PRINCIPLE

The BB 100 is a robust and powerful forced-feed jaw crusher. The feed material passes through the no-rebound hopper and enters the crushing chamber. Size reduction takes place in the wedgeshaped 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.



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