

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
- dust-tight housing
- 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
- adjustable speed and convenient operating keypad
- wide range of materials for contamination free grinding

Features

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|----------------------------|---|
| 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 |

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| Gap width setting | 0 - 11 mm in increments 0.1 mm |
| Gap width display | digital |
| 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

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|-------------|---|
| 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

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|-------------|---|
| 20.062.0005 | BB 50, 200-240 V, 50/60 Hz, steel 1.1750 / steel 1.0344 |
|-------------|---|

other electrical versions available for the same price

Accessories BB 50

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| 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

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



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

