

LABORATORY VIBRATING MILL BVM-2p

Laboratory mill is vibrating device designed for milling raw materials up to 9th degree of the Mohs scale of mineral hardness, weight of samples is from 100 to 650 grams, diameter of particles up to 15 mm.

Into the case of the device is mill equipment with electromotor, hanging on 6 wounded springs. The upper part of the cabinet is equipped with a lid closing the device during operation. Grinding of samples is proceeding in closed dish with cooler – dish is on the top of mill device. For carrying, the cabinet is equipped with handles. Time of the milling is set on the timer.

For better safety of staff the device has a position switch for the closed lid, back-pressure valve, (for clamping protection of the dish) and pressure electric switch on the pressure tube for closing the dish – is not possible to switch machine on without properly closed dish.

The device is supplied with internal insulation for noise reduction and vibration dissemination, as well as an anchoring frame.

Technical data:	BVM-2p
Dimensions A x B x H	500 x 500 x 870 mm
Bowl size	250 ml / 650 ml
Max. input grain	15 mm
Output grain	below 0.045 mm acc. to grinding time
Power	1,2 kW
Adjustable grinding time	1 sec. to 300 hod.
Soundproofing	double insulation, chopped leatherette
Voltage	3 x 400 V / 50 Hz option 240 V / 50 Hz
Weight cca	150 kg



3 x 400 V / 50 Hz

Package contains one piece of the grinding bowl. Material of the bowl is hardened tool steel 19 436.

Option:

the 250 ml bowl made of sintered materials /SM/ (not included) GJ-15 (composition WC + Co, hardness app. 1 100 HV) or a 650 ml grinding bowl. from a hardened tool. steel 19436, hardened to 55±2 HRC.



grinding bowls 250 ml + 650 ml

Pneumatic clamping:

The required pressure for safe clamping of the bowl is 0.5 MPa. The source of pressure is a mini compressor or a pressurized air distribution. A quick coupling from the pressure regulator is used to connect the air to the mill.

The bowl is clamped with a 3/2-way lever valve located under the closing lid of the machine.



Turning the mill on/off:

If the bowl is correctly clamped and the pressure is OK, the mill starts after setting the time on the timer with the START button.

Grinding ends after the set time has elapsed, or quickly by pressing the STOP button. The electrical control panel is located at the back on the upper surface of the device.

In addition, the single-phase version has a frequency inverter attached inside the device in a protective cover.

