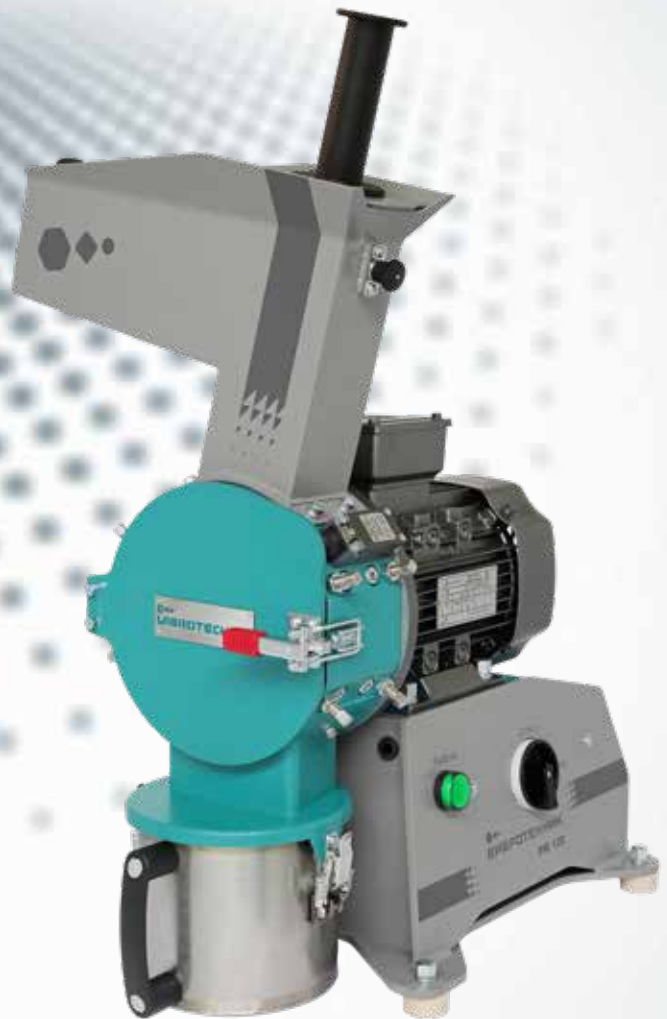




**VIBROTECHNIK**

Russian avant-garde equipment for milling



---

**CUTTING MILLS**



## CUTTING MILLS

Cutting mills are designed to comminute fiber, polymer and plant materials. In cutting mills, comminution occurs by means of cutting – shear strains of material particles between rotor blades and a housing. The grain size of the comminuted product is regulated by the openings in the discharge grate and the physical properties of the material.

The **CM 120** cutting mill is laboratory-class equipment designed for comminuting small batches of material with grain size up to 20 mm. The **CM 120** effectively comminutes fiber materials by crushing them with a plunger through a vertical shaft.

**CM 120M** is a tabletop modification of **CM 120** cutting mill.

The **CM 250** cutting mill is high-power equipment designed for busy laboratories or small production facilities.

### ADVANTAGES

- Ability to obtain various comminuted material grain sizes by means of:
  - selecting the discharge grate opening size;
  - installing different numbers of blades in the housing;
  - connecting the **Cyclone dust collector** to **CM 250**.
- Increased service life of blades as a result of sharpening and replacing housing blades (**CM 120 / CM 120M**);
- Precise setting of minimum gap between the rotor blades and the housing provides shear forces on particles of the comminuted material;
- Effective loading of loose and fiber materials in the **CM 120 / CM 120M** using a horizontal tray with a pusher and a vertical shaft with a plunger;
- Equipment of the **CM 250** with receiving containers for three discharge modes: to the receiving container, through a **dust collector** and combined;
- Equipped with patterns, extractors and a special maintenance tool;
- Uniform feed of loose material using a Vibratory feeder **PG 1 (CM 120 / CM 120M)**;
- Connection of **CM 120 / CM 120M** to single- and three-phase electrical circuits.

CHARACTERISTICS	CM 120	CM 120M	CM 250
Loading door dimensions (mm)	60x80	60x60	250x280
Rotor dimensions (Length x Diameter) (mm)	80x120	80x120	250x250
Maximum size of comminuted material (mm)	20	20	100
Product particle size (mm)	90%<0,5		90%<2,0
Rotor rotational speed (rpm)	1500	1500	1000
Electric motor power (kW)	1,5/1,1	1,5/1,1	7,5
50 Hz supply voltage (V)	220/380	220/380	380
Overall dimensions (Length x Width x Height) (mm)	850x550x1185	500x380x685	1525x585x1465
Weight (kg)	46	48	460
Blade material – tool steel	AISI 01, DIN 150Cr14, AISI 5135		

## INDUSTRIES



Non-ferrous metallurgy



Food



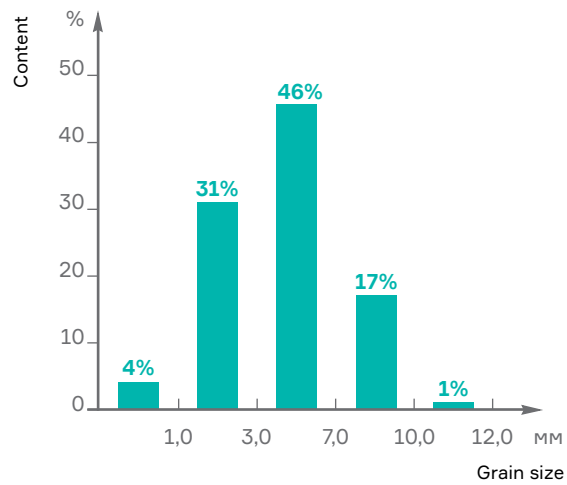
Chemical



Pharmaceutical

### Comminution on CM 250

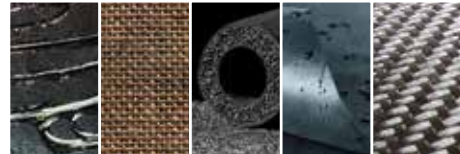
Materia: Licorice root, 50–150 mm  
Output: 90 kg/hour



## Cutting mills

### APPLICATIONS

Bismuth telluride, carbon fiber, PVC, polyester resin, ABS resin, CDs, SIM cards, nanotubes, collagen, rubber, jute, PAN fiber, fabric, cotton, rubber, silicon, wax, rind, chicory, dry mushrooms, tea



Cutting mill **CM 120**



Cutting mill **CM 250** with gate and **dust collector** adapter



CM 250 and CM 120 blades



CM 120 working chamber  
(rotor, blades, discharge grate)



Patterns and extractors CM 120 and  
CM 250

  
**VIBROTECHNIK**

Maliy pr. V.O., 62/2, liter A,  
St. Petersburg, Russian Federation, 199178  
Tel./Fax: +7 (812) 468-72-12  
+7 (812) 643-98-26  
E-mail: sales@vt-spb.ru

[www.vibrotechnik.com](http://www.vibrotechnik.com)