



# VIBROTECHNIK

Russian avant-garde equipment for milling

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

## CRUSHING AND MILLING EQUIPMENT

### VIBRATING CONE MILLS

## VCM 6 and VCM 10

Vibrating cone mills are designed to crush and pulverize hard and brittle bulk materials of various strengths.

In the vibrating cone mill, pulverization occurs by means of abrasion – simultaneous compressive and shear strain of material particles between the outer and inner shells.



Vibrating cone mill **VCM 10**

### INDUSTRIES



Mining



Metallurgical



Construction



Chemical



Vibrating cone mill **VCM 6**

### CHARACTERISTICS

	VCM 6	VCM 10
Loading door dimensions (mm)	Ø95	Ø125
Maximum initial particle size (mm)	5	10
Initial material hardness	up to 7 Mohs units	up to 7 Mohs units
Average product particle size at minimum slot, mm	90%<0,25	90%<0,25
Maximum output (kg/hour)	10	30
Initial material hardness	up to 7 Mohs units	up to 7 Mohs units
Electric motor power (kW)	1,5/0,55	1,5
50 Hz supply voltage (V)	220/380	380
Overall dimensions (Length x Width x Height) complete with 220 V electric motor (mm)	485x235x370	-
Overall dimensions (Length x Width x Height) complete with 380 V electric motor (mm)	350x235x395	480x250x420
Weight without / with control panel, kg complete with 220 V electric motor	35 /40	-
Weight without / with control panel, kg complete with 380 V electric moto	40 /45	65 /70
Shell material – tool steel	AISI 01	



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## ADVANTAGES

- Pulverization of material particles without overmilling of the entire sample;
- Obtaining various product particle sizes by:
  - adjusting the gap between the shells;
  - selecting the amplitude of the inner shell oscillations (**VCM 10**);
  - installing a long or short pin (**VCM 10**);
  - selecting the rpm of the drive drum weight (in the **VCM 6 – 2**, and the speed in the **VCM 10 – 3**);
- The possibility for operation “under debris” – without adding material to be crushed;
- Discharging of material into an inner or outer container (for collecting small-volume samples or continuous operation; **VCM 6**).

## VIBRATING CONE MILLS

## APPLICATIONS

Ferroalloys, ore, coal, slag, ceramics, glass, limestone, soda, smalt, diatomaceous earth.



Drive drum weight **VCM 6**

### Pulverization on **VCM 10**

Material: Ferrovanadium FeV 1.0–5.0 mm;  
Output: 1.7 kg/hour

