

VIBRATORY DISC MILL VM3



- Feed size : <15mm
- Final fineness: <75 μ m
- Speed : 700~1500rpm

The Vibratory Disc Mill is primarily employed for preparing samples for spectral analysis. This equipment is particularly well-suited for rapidly grinding medium-hard, brittle, and fibrous materials to achieve analytical fineness without any loss.

APPLICATIONS

Ceramics and glass: Oxide ceramics, glass

Building materials: Cement, stone, concrete

Environmental sector: Soil, paving stone, slag

Minerals & Metallurgy: Coal, coke, corundum, ore, slag



Working Principle

The Vibratory Disc Mill crushes samples through pressure, impact, and friction. It firmly attaches the grinding set to the vibrating plate using a quick-action clamping device. The vibrating plate then generates intense three-dimensional vibrations, resulting in significant impact, friction, and grinding forces acting on the grinding set. These forces are concentrated on the samples, quickly turning them into powder.

FEATURES

- Very brief grinding duration.
- Excellent ultimate fineness ($d_{95} < 75\mu\text{m}$).
- Speed adjustable from 700 to 1500rpm.

- Quick-action clamping mechanism for the grinding set.
- A variety of materials available for grinding sets.
- Automatic speed reduction to 700rpm with agate recognition.

TECHNICAL SPECIFICATIONS

Feed size	<15mm
Final fineness	□ 75μm
Speed	700~1500rpm
Time setting	00□ 01-99:59 □ min/s□
Batch quantity	20-250g
The volume of the grinding set	50ml□ 100ml□ 250ml
Grinding set material	hardened steel, tungsten carbide, agate (speed 700rpm), zirconium oxide
Rated power	1.5KW
Power supply	220V, 50Hz/60Hz (110V Also available upon request)
Instrument size (W*D*H)	800*655*1255mm
Package size (W*D*H)	1130*1030*1470mm
Weight	277Kg







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