

INNOVATIVE TECHNOLOGIES

# Vibratory Disc Mill

**VM3**



TORONTECH





## Vibratory Disc Mill VM3

Introducing our **Vibratory Disc Mill**, an essential tool for sample preparation in spectral analysis.

Engineered to excel in grinding medium-hard, brittle, and fibrous materials, this equipment swiftly achieves analytical fineness without any loss, ensuring precise results every time.

Elevate your sample preparation process with efficiency and accuracy.

Feed Size:  
**<20mm**

Final Fineness:  
**< 75µm (95%)**

Speed:  
**470rpm**



## APPLICATION

### Sample Type

#### Ceramics and Glass:

- Oxide ceramics, glass.

#### Building Materials:

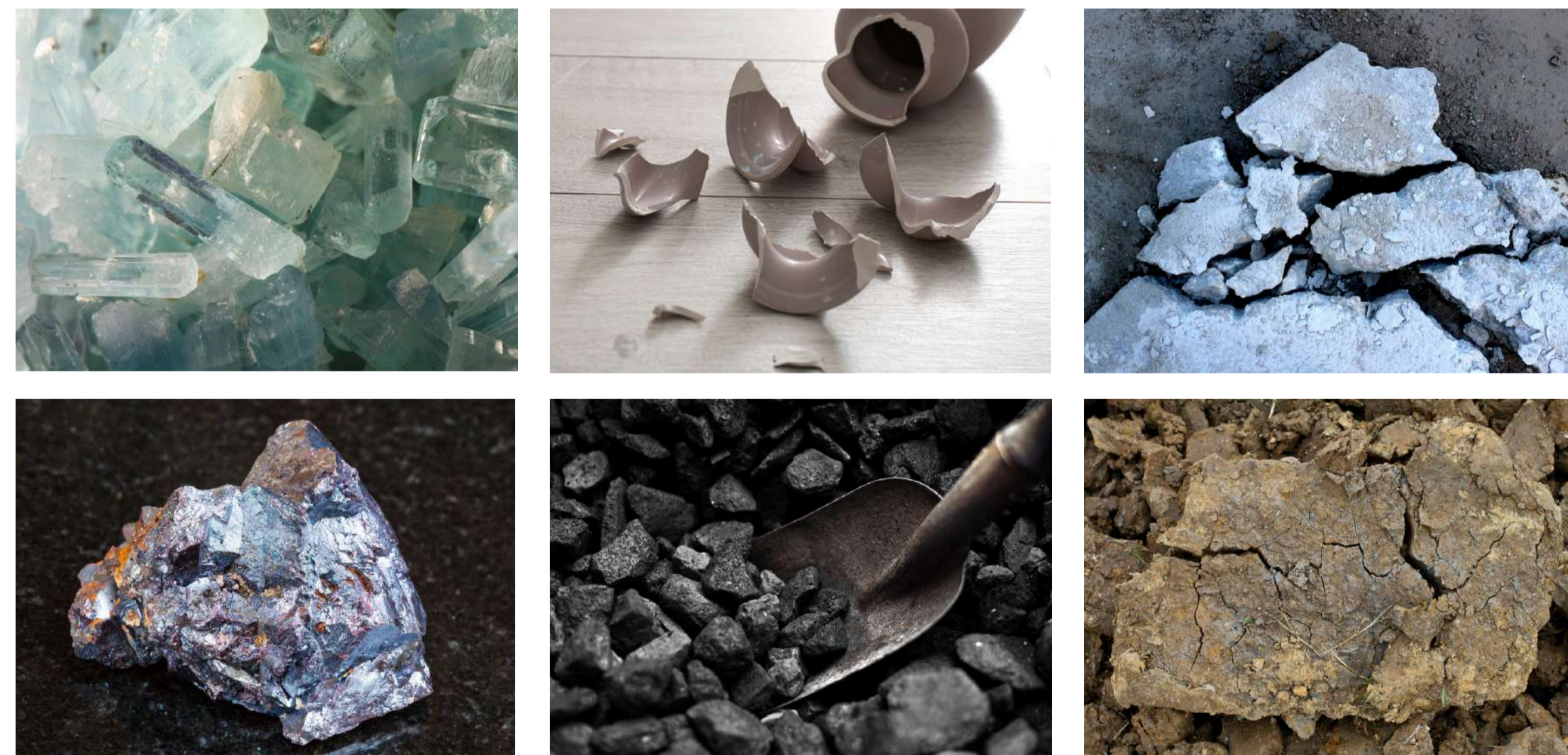
- Cement, stone, concrete.

#### Environmental Sector:

- Soil, paving stone, slag.

#### Minerals and Metallurgy:

- Coal, coke, corundum, ore, slag.



## WORKING PRINCIPLE

The Vibratory Disc Mill maximizes sample crushing efficiency through a synergistic blend of pressure, impact, and friction. Its innovative design features a quick-action clamping device, ensuring secure attachment of the grinding set to the vibrating plate.

Upon activation, the vibrating plate engenders vigorous three-dimensional vibrations, amplifying impact, friction, and grinding forces exerted on the grinding set.

This dynamic interaction, concentrated precisely on the samples, catalyzes the rapid transformation of raw materials into finely powdered form.

By harnessing these powerful principles, the Vibratory Disc Mill stands as a pinnacle of efficiency and precision in sample preparation, facilitating seamless experimentation and analysis across a diverse array of applications.





## PRODUCT ADVANTAGES

➤ **Efficient Grinding Performance:**

Achieve rapid grinding with adjustable speeds ranging from 700 to 1500rpm, ensuring very brief grinding durations.

➤ **Superior Fineness and Versatility:**

Experience excellent ultimate fineness with particles below 75µm (d95), enhanced by a variety of available materials for grinding sets.

➤ **Convenient and Smart Operation:**

Benefit from a quick-action clamping mechanism for easy setup and automatic speed reduction to 700rpm with agate recognition, optimizing performance and user experience.



## TECHNICAL SPECIFICATION

ITEM	TECHNICAL PARAMETER
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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