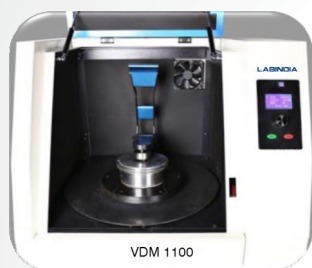
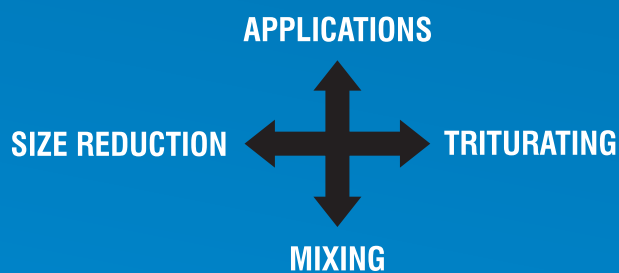
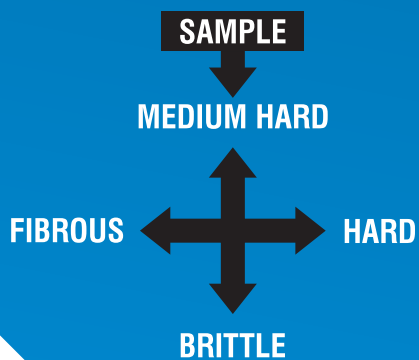


VIBRATORY DISC MILL VDM 1100



< 20mm
↓
< 50µm



VDM 1100 Vibratory Disc Mill is mainly used for sample preparation of spectral analysis. The device is especially suitable for Fast Medium-Hard, Hard, Brittle and Fibrous materials to analytical fineness grinding without loss.

APPLICATIONS

- Ceramics and glass: Oxide Ceramics, Glass
- Building materials: Cement, Stone, Concrete
- Environmental area: Soil, Paving Stone, Slag
- Minerals & Metallurgy: Coal, Coke, Corundum, Ore, Slag



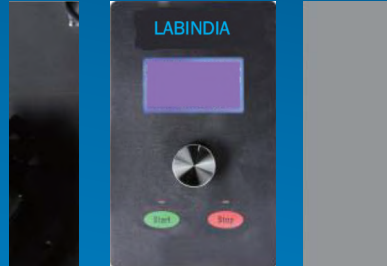
WORKING PRINCIPLE

VDM 1100 Vibratory Disc Mill crush sample via pressure, impact and friction. The quick-action clamping device makes the grinding set firmly attached onto the vibrating plate. Through transmission, the vibrating plate will generate drastic three dimensional vibrating so as to produce giant impacting, frictional and grinding force on the grinding set, and such forces focus on samples to make them become powder in a very short time.

FEATURES AND ADVANTAGES

- Extremely short grinding time with quick, loss free & reproducible grinding
- High final fineness($d_{95} < 50\mu\text{m}$).
- Digital Speed 700 - 1500rpm, continuous adjustable.
- Quick-action clamping device for grinding set.
- Different kinds of materials of grinding sets for choice.
- Agate & Tungsten Carbide recognition for automatic speed reduction (700 & 1200 rpm)
- Colour graphical display with single touch easy programming of parameters
- Storage memory for 10 SOP's with parameters
- Wide range of grinding material for various applications ranging 50 - 250 ml
(Hardened Steel, Stainless Steel, Agate, Tungsten Carbide, Zirconium Oxide, Steel 1.1740 for grinding without heavy metal contamination)

TECHNICAL ADVANTAGES



- Unique design of mobile assistance for grinding cup
- Unique rapid fastening design facilitates secure positioning and safe operation
- VDM1000 control panel with reasonable layout facilitates simple and smart operation

DIFFERENT MATERIAL OF GRINDING SETS FOR VARIOUS APPLICATIONS

Hardened Steel

The main characteristics of Hardened steel is corrosion resistance and rust prevention. For processing corrosive samples grinding sets of Hardened steel is a good choice.

Agate

Agate material is heavy metal free and can guarantee the Grinding purity. Suitable for processing soil and some medium Hard samples. Agate grinding set is an ideal choice for high Grinding purity.

Tungsten Carbide

The hardness of tungsten carbide is high and is similar to that of a diamond. Best suitable for processing high hardness samples.

Zirconium Oxide

Zirconium oxide has an excellent physical and chemical Properties such as high hardness, high toughness, high Abrasive and corrosion resistance. Best choice for handling chemicals such as ceramics.

Steel 1.1740

Ideal choice for heavy metal free grinding without contamination





TECHNICAL SPECIFICATIONS

Applications	: Size reduction, Mixing, Triturating
Feed material	: Medium-Hard, Hard, Brittle, Fibrous
Size Reduction Principle	: Pressure, Friction
Feed Size	: < 20 mm
Final Fineness	: < 50 μm (Depending on the sample property)
Batch Quantity	: 20 to 250 gms; depending on size of grinding set
Speed	: 700 - 1500 RPM (Variable & Continuously adjustable)
Material of Grinding sets	: Hardened Steel, Stainless steel, Agate, Zirconium Oxide, Tungsten carbide & Steel 1.1740 for grinding without heavy metal contamination)
Sizes of Grinding sets	: 50 / 100 / 250 ml
Grinding time setting	: 00:01 to 99:59 (Min/Sec) (Digital)
Interval Operation	: 00:01 to 99:00 (Min/Sec) Digital (Optional on request)
Memory Storage	: 10 SOP's with parameters with program sequences
Overload Protection	: Efficient and Maintenance free Drive guarantees to maintain constant speed in continuous operation for long time operation or under maximum overload
Rated Power	: 1.5 KW
Power Supply	: 220/240 V; 50 Hz (Single Phase)
Instrument size(W*D*H)	: 800*655*1255mm
Package size(W*D*H)	: 1130*1030*1470mm
Weight	: 277 Kg



PRODUCT NAME	PRODUCT IMAGE	DESCRIPTION
Vibratory Disc Mill		VDM 1100, 220/240V, 50/60Hz (On Wheels) Please order grinding sets separately
GRINDING SETS		
Hardened Steel		Grinding Set: Hardened Steel 50 ml / 100 ml / 250 ml
Agate		Grinding Set: Agate 50 ml (only for 700rpm) / 100 ml (only for 700rpm)
Zirconium Oxide		Grinding Set: Zirconium Oxide 50 ml / 100 ml
Tungsten Carbide		Grinding Set: Tungsten carbide 50 l / 100 ml / 250 ml (only for 1200rpm)
Stainless Steel		Grinding Set: Sainless Steel 50 ml / 100 ml / 250 ml
For Grinding without heavy metal contamination		Grinding Set: Steel 1.1740 50 ml / 100 ml / 250 ml
Accessories		O-Ring for 100 ml / 250 ml stainless steel / hardened steel / 1.1740 steel grinding sets O-Ring for 100 ml agate / zirconium oxide grinding sets (small) / (big) O-Ring for 100 ml / 250 ml tungsten carbide grinding sets (small) / (big)

For the grinding set with agate / zirconium oxide / tungsten carbide material, a small and a big O-Ring should be used at the same time.



Planetary Ball Mill
BM 1100+ (1 Grinding Station)



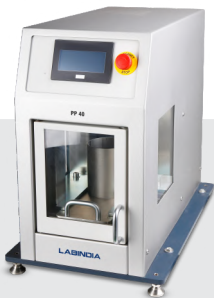
Planetary Ball Mill
BM 1400+ (4 Grinding Stations)



Ultra Centrifugal Mill
UCM 1100



Automatic Pellet Press
PP 40



Jaw Crusher
JC 1100



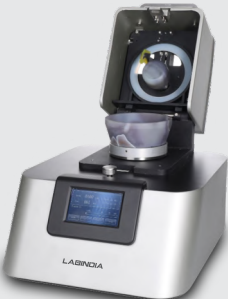
Jaw Crusher
JC 1200



Rotary Sample Divider
RSD 1100



Mortar Grinder
HG 1100 (Touchscreen)



Mixer Mill
MM 1100 (Micro)



Cryo Grinding Mill
CM 1100



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