

HERCULES VIBRATORY DISC MILL XL



High-Torque Industrial Grinding with Integrated Pneumatic Cell Handling

The Vector Vibratory Disc Mill XL combines industrial-grade performance with user-friendly operation to deliver fast, reliable grinding of minerals and fragile materials. Its high-torque motor handles heavy workloads without overheating, while the pneumatic cell-loading arm enables safe, effortless placement and removal of 1 000 ml and 2 000 ml grinding cells. Ideal for geology, metallurgy, cement and power-plant laboratories, the XL model ensures consistent particle-size reduction down to 20-90 μm in every batch.



VTR-10/2XL

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Quality & Innovation

The Vector Vibratory Disc Mill is built on a heavy-duty steel frame housed within a soundproof safety cabin, ensuring both durability and quiet operation during continuous industrial use. Its air-cushioned grinding cell absorbs vibration and simplifies installation and removal of grinding sets, while the integrated pneumatic cell-loading arm precisely positions cells on the table, minimizing operator strain and risk of damage. Behind the scenes, a PLC-controlled PID system retains all settings in the event of a power failure and automatically resumes the last program once power is restored. Ten user-adjustable presets are stored in memory to streamline routine workflows and reduce setup time.

Software Features

- Intuitive 7-inch touch-screen interface with menu-guided setup
- Customizable grinding time and revolution speed
- Ten user-programmable presets for repeatable sample preparation
- Automatic lock to prevent front cover opening while operation.

Key Advantages

- Enhanced Motor Power: Industrial-grade motor delivers 20 % more torque than standard models for faster throughput.
- Large-Volume Compatibility: Accepts both 1 000 ml and 2 000 ml grinding cells for high-capacity processing.
- Ergonomic Cell Handling: Pneumatic arm loads and unloads cells without manual lifting, reducing fatigue and improving lab safety.
- Quiet Operation: Soundproof cabin keeps noise below 70 dB, creating a comfortable workspace.
- Versatile Applications: Selectable chromium-nickel or tungsten-carbide grinding sets.
- Precision Grinding: Uniform fineness on every run.



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TECHNICAL SPECIFICATION

Model	VTR-1012-XL
Operating Mode	Fully automatic with touch-screen interface
Preset Programs	10 customizable settings
Input Particle Size	15–20mm
Final Particle Size	20–90µm (depending on material)
Grinding Cell Capacities	1000 ml and 2000 ml models
Grinding Set Materials	Chromium-nickel steel; tungsten carbide
Revolution Speed	Adjustable, up to 1800 rpm
Construction	Abrasion-resistant, reinforced industrial housing
Dimensions (L×W×H)	1250 x 1200 x 1600 mm
Net Weight	275 kg