

GAIA

VIBRATORY DISC MILL



The Vector Continuous Vibratory Disc Mill VTR 1012-C delivers nonstop sample preparation by combining an integrated fixed grinding cell with an automatic feed and fractionation system. Material in the 2-3 mm size range is metered from the top-loading hopper into the cell at a constant rate. After grinding, particles are passed through the built-in proportional sample divider, which continuously discharges material finer than 0.5 mm. This design enables uninterrupted operation for large-volume laboratories and industrial plants.



VTR-1012-C



Vector GAIA Vibratory Disc Mill

Continuous Precision Grinding with Automated Feeding

Quality & Innovation

The Vector Continuous Vibratory Disc Mill employs a fixed, integrated grinding cell that removes the need for manual cell swapping, enabling truly continuous operation in a single, heavy-duty chamber. An automatic feed system meters 2–3 mm samples from the top hopper into the cell at a consistent rate, and the built-in proportional sample divider routes particles under 0.5 mm directly to the collection outlet for uniform fineness.

To prevent cross-batch contamination, pneumatic air-purge tubes, flush the cell and feed lines between runs. A dedicated vacuum port automatically captures airborne dust when connected, supporting clean operation. The entire unit rests on a robust steel frame, housed within a soundproof safety cabin and mounted on an air-cushioned cell support, ensuring both low noise levels and long service life.

Key Advantages

- True Continuous Grinding: No downtime for cell changes or manual intervention.
- Consistent Particle Size: Automatic divider ensures uniform < 0.5 mm output.
- Zero Cross-Contamination: Pneumatic purge cleans all pathways between runs.
- Dust-Free Operation: Integrated vacuum input removes fines at the source.
- High Throughput: Designed for 24/7 processing in industrial and research environments.



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Continuous Precision Grinding with Automated Feeding

TECHNICAL SPECIFICATION

Specification	Detail
Feed Mechanism	Hopper with constant-rate metering for 2–3 mm material
Sample Divider	Built-in proportional divider yields < 0.5 mm fraction
Cleaning System	Pneumatic purge tubes activated via HMI
Dust Extraction	Vacuum interface for automatic dust removal
Control Interface	7" HMI touchscreen with adjustable feed, divider and cleaning controls
Noise Level	< 70 dB in soundproof cabin
Electrical Safety	CE-approved components, EMC filters, safety thermostat
Operation Mode	Continuous-run design—no manual cell exchange
Applications	Geology, metallurgy, cement, power plants, mineral processing