CORE CUTTING GRINDING MACHINE AZA0999

The AZA0999 Core Cutting & Grinding Machine is a precision-engineered, dual-function laboratory system designed for accurate cutting and surface grinding of cylindrical core samples made from rock, concrete, minerals, and similar materials.

By integrating both cutting and grinding operations into a single compact unit, the AZA0999 enhances laboratory productivity, minimizes sample handling, and ensures high-quality specimen preparation.

The machine produces flat, smooth, and parallel end surfaces—critical for obtaining reliable results in compressive strength, triaxial, and indirect tensile testing.

Built on a rigid, vibration-free steel frame, the system incorporates a diamond cutting blade and a high-precision grinding wheel to deliver consistent, repeatable, and accurate performance.

Key Functional Features

- Dual-function system: cutting and grinding in one unit
- Suitable for rock, concrete, mineral, and ceramic core samples
- Diamond-tipped cutting blade for precise and clean cuts
- High-precision grinding wheel for smooth, parallel finishes
- Rigid, vibration-free heavy-duty steel construction
- Integrated water circulation system for cooling and debris removal
- Transparent safety guard with emergency stop system
- Adjustable V-block clamping system for secure sample holding

AZA LAB UNIVERSE

TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0999
Core Diameter Capacity	Up to 100 mm
Cutting Blade	Diamond-Tipped, 250 mm
Grinding Wheel	High-Precision Abrasive Disc
Sample Holding	V-Block with Adjustable Clamps
Operation Mode	Manual / Semi-Automatic (Optional)
Cooling System	Integrated Water Circulation System
Drive Motor	1.5 HP (Cutting) / 1 HP (Grinding)
Power Supply	220 V, 50 Hz
Machine Dimensions	1000 × 600 × 900 mm
Safety System	Transparent Guard + Emergency Stop
Machine Weight	Approx. 180 kg
Standards Compliance	ASTM D4543, ISRM Suggested Methods