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POLISHING AND LAPPING MACHINE AZA1000

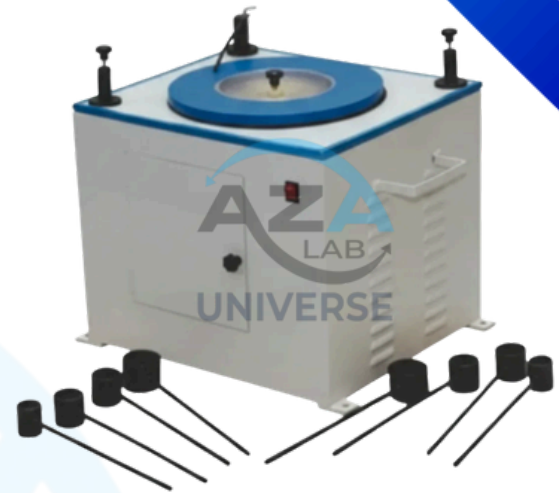
The AZA1000 Polishing & Lapping Machine is a precision-engineered, dual-purpose laboratory system designed to produce exceptionally flat, smooth, and mirror-finished surfaces on a wide range of materials including rock, minerals, metals, ceramics, and composites.

By integrating both lapping and polishing functions into a single compact unit, the AZA1000 ensures controlled material removal, superior surface flatness, and low surface roughness. This makes it an essential solution for laboratories requiring high-quality specimen preparation prior to microscopic examination, spectroscopic analysis, and mechanical testing.

The machine is built with a rigid, vibration-free structure and advanced control features, ensuring consistent, repeatable, and high-accuracy finishing results.

Key Features

- Dual-function system: lapping and polishing in one unit
- Suitable for geological, metallurgical, ceramic, and composite samples
- High-precision flat surface finishing for laboratory-grade results
- Variable speed control for different material types
- Adjustable pressure system for uniform material removal
- Heavy-duty, vibration-free steel construction
 - Integrated water cooling and debris removal system
 - Multi-sample holder for batch processing
 - Full safety enclosure with emergency stop system





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TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA1000
Lapping Plate Diameter	300 mm (Custom sizes available)
Polishing Disc Diameter	300 mm
Motor Power	0.5 HP – 1 HP
Speed Range	Variable, 50 – 500 RPM
Load Application	Manual / Pneumatic (Optional)
Sample Holder	Multi-Sample Fixture Included
Cooling System	Integrated Water Jet with Drain Tray
Frame Type	Powder-Coated Heavy-Duty Steel
Safety System	Emergency Stop, Full Enclosure, Anti-Slip Base
Power Supply	220 V, 50 Hz
Machine Weight	Approx. 90 – 120 kg
Standards Compliance	ASTM C285, ISRM Suggested Methods

Standard Compliance

- Designed and manufactured in accordance with:
- ASTM C285 – Surface Preparation of Rock Specimens
- ISRM Suggested Methods – Rock Testing and Preparation Standards