



UNIVERSE

OPEN FACE LAPPING MACHINE AZA1311

The AZA Lab Universe Model AZA1311 Open Face Lapping Machine is engineered for precision flat surface finishing of metals, ceramics, optical components, and semiconductor materials. Designed with a rigid welded tubular steel frame, the machine provides exceptional stability, vibration-free operation, and long-term durability for demanding industrial applications.

The integrated gearbox, drive motor, and worktable assembly ensure consistent performance and repeatable lapping accuracy. Equipped with a cast iron serrated lap plate, advanced slurry feeding arrangement, and conditioning ring system, the AZA1311 delivers superior surface finish quality with precise material removal control.

Widely used in industrial laboratories, R&D facilities, precision engineering workshops, and production plants, this machine is ideal for high-accuracy lapping operations requiring reliability and operational efficiency.

INCLUDED SYSTEMS

- Diamond slurry dispensing system
- Integrated abrasive compound feed system
- Waste collection tanks
- Cast iron serrated lap plate
- Variable frequency drive (VFD) control system
- Conditioning ring assembly





UNIVERSE TECHNICAL SPECIFICATIONS

Description	Specification
Lap Plate	Cast Iron (Serrated Pattern)
Lap Plate Diameter	915 mm (36")
Number of Conditioning Rings	3
OD of Conditioning Ring	410 mm
ID of Conditioning Ring	368 mm
Height of Conditioning Ring	90 mm
Max Load Per Conditioning Ring	350 kg
Lap Plate Speed	0–50 RPM (Variable, VFD Controlled)
Main Motor	415V AC, 3 Phase, 50 Hz
Main Drive	5 HP (Snyder Make)



UNIVERSE TECHNICAL SPECIFICATIONS

Description	Specification
Timer Range	0–99 Minutes
Input Power Supply	5 HP, 3 Phase, 415V AC (220V Available)
VFD Specification	5 HP, 3 Phase, 1–200 Hz
Machine Dimensions (L × W × H)	1650 × 1300 × 1700 mm
Machine Net Weight	1200 kg
Wooden Box Dimensions	1750 × 1400 × 1800 mm
Wooden Box Weight	1400 kg

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