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HYDRAULIC SURFACE GRINDING MACHINE AZA1176A

The AZA-LAB Hydraulic Surface Grinding Machine (Model AZA1176A) is a heavy-duty, high-precision grinding solution designed for large-scale industrial applications requiring superior surface finish, dimensional accuracy, and operational reliability.

Engineered with a robust hydraulic drive system, precision feed mechanisms, and a rigid machine structure, the AZA1176A ensures smooth, vibration-free operation even under continuous production conditions. Its large working capacity and automated movements make it ideal for tool rooms, production lines, fabrication units, and precision engineering industries.



Construction & Design

- Heavy-Duty Cast Structure ensures maximum rigidity and stability
- Hydraulic Drive System provides smooth and uniform table motion
- Turcite Coated Slideways reduce friction and enhance longevity
- Precision Spindle Assembly ensures consistent grinding accuracy
- Vibration-Dampened Base improves surface finish quality
- Integrated Electrical Control Panel for safe and reliable operation

Compliance & Standards

- Designed as per industrial grinding and machine tool standards
- Suitable for high-precision and heavy-duty workshop applications



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TECHNICAL SPECIFICATIONS

Parameter	Specification
Model No.	AZA1176A
Machine Type	Hydraulic Surface Grinder
Working Surface (Table Size)	1000 × 400 mm
Maximum Table Travel	1000 × 400 mm
Magnetic Chuck Size	1000 × 400 mm
Max. Distance (Spindle to Table)	400 mm
Vertical Down Feed	0.01 mm
Microfeed (Elevation)	0.002 mm / division
Grinding Wheel Size	300 × 25 × 76.2 mm
Wheel Speed	1400 RPM
Table Speed	8 – 15 m/min
Auto Cross Feed Increment	0.1 – 1.0 mm
Cross Feed (Manual)	0.05 mm per graduation



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TECHNICAL SPECIFICATIONS

Parameter	Specification
Spindle Motor	3 HP (3-Phase)
Hydraulic Pump Motor	2 HP
Hydraulic Tank Capacity	80 Litres
Floor Area (L × B × H)	136 × 80 × 80 inches
Packing Size (L × B × H)	145 × 78 × 72 inches
Machine Weight	Approx. 2000 kg

