



Model MPS4



Model MPS10

Acrylic Processing Equipment
MPS SERIES



Product Overview

The Mintech MPS Series is a professional acrylic polishing solution engineered for optical-grade edge finishing. Using high-speed diamond tools and precision milling discs, the MPS4 and MPS10 deliver consistent, automated polishing for acrylic, PC, PETG, and aluminum. Ideal for signage, aerospace, medical, electronics, and architectural fabrication, the MPS Series combines PLC-controlled automation, variable-speed spindle control, and integrated dust extraction for clean, repeatable, high-quality results. Specifically designed for high-quality acrylic sheet processing, uses high-speed rotating diamond tools and milling discs to precisely cut the acrylic surface, achieving an optical-grade transparent polishing.

Key Features:

- The MPS Series polishing machines are equipped with a PLC logic control circuit, combining pneumatic and mechanical transmission systems. The automation of the variable frequency spindle operation is controlled via a touch screen interface, ensuring reliability, safety, and high efficiency during the polishing process.
- Variable Speed Control: Adjustable polishing speeds to accommodate different acrylic types and thicknesses.
- Precision Pressure Control: Consistent pressure application ensures uniform surface quality across all workpieces.
- Advanced Polishing Compound System: Integrated compound delivery system for optimal polishing results.
- Digital Temperature Control: Precise temperature management prevents material damage and ensures quality.
- Automatic Feed System: Consistent material feed for uniform processing and reduced operator intervention.

Applications:

- Signage and Displays
- Automotive and Aerospace Components
- Medical and Laboratory Equipment
- Consumer Electronics
- Architectural and Interior Design

The MPS Series represents the pinnacle of automated acrylic finishing technology, combining precision engineering with user-friendly operation to deliver professional results that meet the most demanding quality standards.

Applicable Materials

1. Acrylic (PMMA)

- Primary material; designed for optical-grade polishing.

2. Polycarbonate (PC)

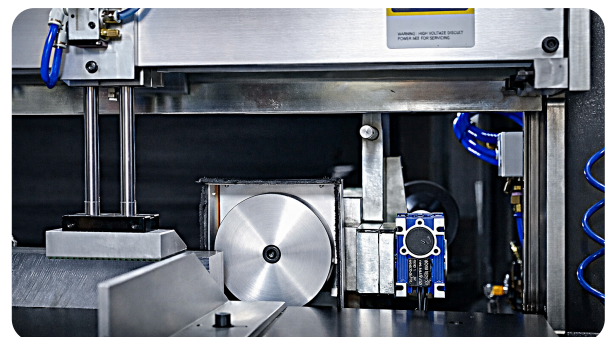
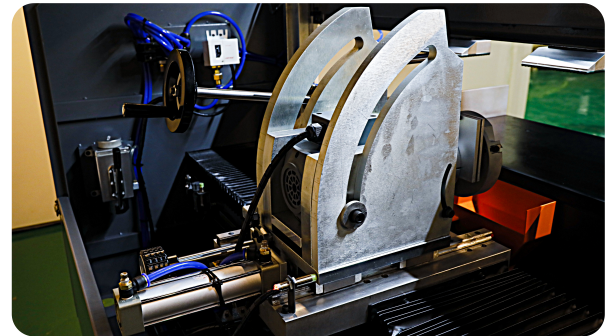
- Compatible for edge finishing and surface milling.

3. PETG and other plastic sheets

- Suitable for transparent plastics requiring clean, polished edges.

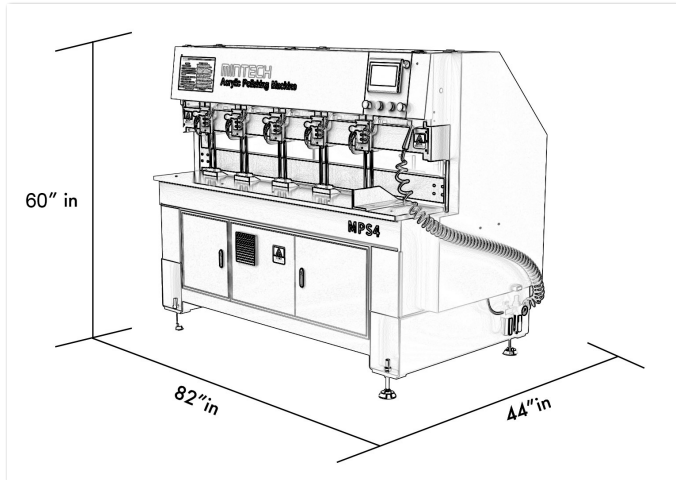
4. Soft metals like aluminum

- Light milling/polishing capability for aluminum

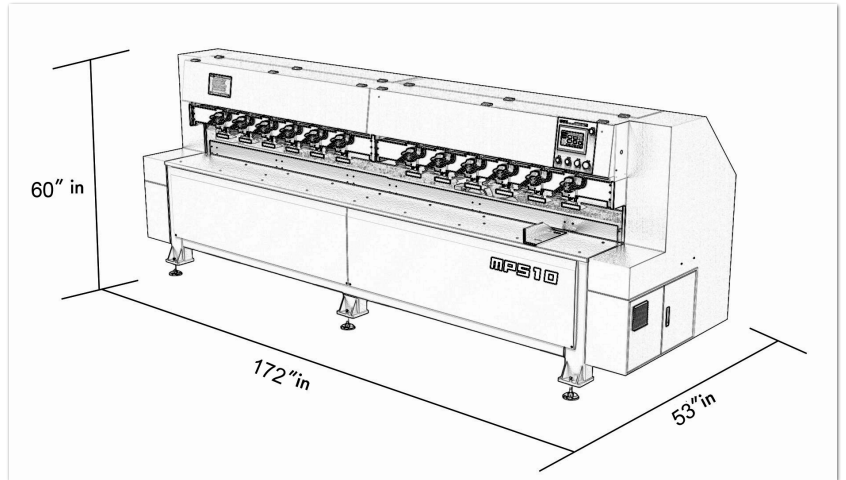


Technical Specifications

Model	MPS4	MPS10
Machine size	82" × 44" × 60" (2100 × 1150 × 1500 mm)	172" × 53" × 60" (4360 × 1340 × 1500 mm)
Weight	1200 lbs	To Be Determined
Processing Length	≥ 51.18 inches (1300mm)	≥ 122 inches (3100mm)
Processing Thickness	≤ 4 Inches (≤ 100 mm)	
Processing Angle	0 - 60°	
Operation Interface	Button & Speed Controller	
Machine Power	2.75 HP (2KW)	
Spindle Power	2 HP (1.5KW)	
Spindle Speed	7000 - 9000 RPM	
Speed Control	Variable frequency speed control	
Feed Speed	0 - 78 Inches / min (0 - 2000 mm / min)	
Positioning Accuracy	± 0.05 mm	
Repeatability	± 0.02mm	
Cooling System	Air Cooling	
Drive System	• Motor Types: Servo Motor • Transmission: Ball Screw	
Control System	Mintech	
Power Supply	208-220V, Single Phase, AC 50 - 60Hz, 8 Amp	
Air Supply Pressure	80 - 120 PSI (5.5 - 8.2 Pa)	



MPS4



MPS10