



***CNC PANEL SAW
MSP SERIES***





Product Overview

The Mintech MSP Series fully automatic CNC electronic panel saw is a high-performance, cost-effective industrial-grade multi-material cutting machine comparable to brands like HOMAG and SCM. It is designed for small and medium-sized woodworking workshops, large custom furniture factories, advertising signage processing plants, new building materials companies, and industrial component manufacturers. The machine features a dual-servo CNC sawing system, German SKIO closed-loop electronic ruler compensation, and a fully sealed tracked dust removal system. Cutting accuracy is controlled within $\pm 0.02\text{mm}$. It supports fully automatic barcode scanning and cutting of large-format panels up to 3200mm in diameter, and intelligent layout optimization of leftover materials, significantly reducing labor costs and material waste. It perfectly meets the diverse production needs of North America, characterized by high labor costs, stringent dust control regulations, and the processing of mixed wood, composite materials, engineering plastics, and insulation materials.

Primary Advantages:

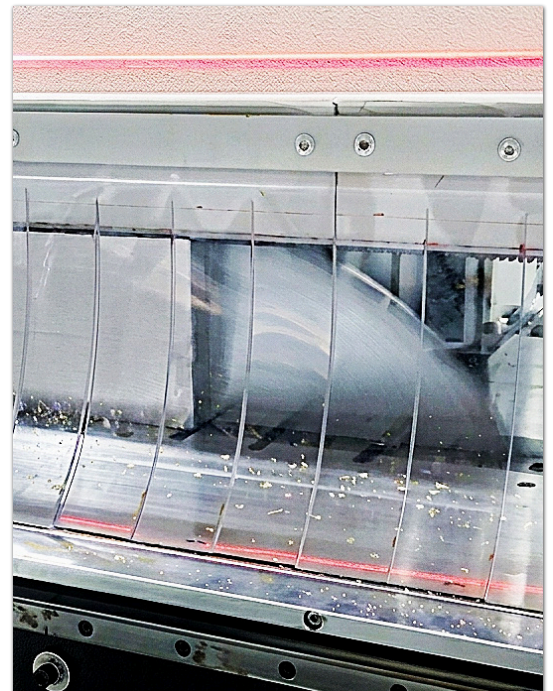
- **Safety & Environmental Standards:** The fully enclosed tracked dust collection system has a dust collection rate of nearly 100%.
- Uses globally compatible, top-tier parts; easy to source after-sales service in North America.
- Compatible with US standard sheet metal dimensions, ergonomic design.
- Dual software compatibility: furniture design + industrial management system
- High-precision system, adaptable to processing of all categories and multiple materials
- Extremely simple operation

Industry Applications:

1. Whole House Customization & Panel Furniture Manufacturing.
2. Advertising signage & acrylic crafts processing industry.
3. New building materials & fireproof board processing industry.
4. Wooden box packaging & logistics pallet OEM industry.
5. Industrial parts & electrical components processing field.

Applicable Materials

- **Wood-based engineered wood panels:**
 - Particleboard, chipboard, and melamine-faced panels
 - Multi-layer solid wood boards, plywood, solid wood strips
 - Medium-density fiberboard (MDF) and high-density fiberboard (HDF)
- **Plastic/Optical Sheets:**
 - Acrylic sheets (cast/extruded grade), PVC foam boards, PS light guide plates, PE plastic sheets, and transparent plexiglass.
- **Engineering plastics:**
 - PP, PE, ABS, PC, PET, flame-retardant modified plastic sheets, high-temperature resistant special plastic sheets.
- **Industrial composite materials:**
 - Fiberglass composite panels, carbon fiber composite panels, epoxy composite panels, aluminum-plastic composite panels, and fireproof sandwich composite panels.
- **Special insulating boards:**
 - Electrical insulation paperboard, epoxy insulation board, mica composite insulation board, high-temperature fireproof insulation pad, transformer-specific insulation board.
- **Aluminum:** Up to 150mm thick Aluminum



Technical Specifications

Category	Parameter Item	MSP88	MSP1010
Cutting System	Main Saw Motor Power	11 kW / 14.75 HP	
	Score Saw Motor Power	1.5 kW / 2.01 H	
	Main Saw Blade Diameter	350 mm (13.78")	
	Score Saw Blade	180 mm (7.09")	
	Main Saw Shaft Speed	4500 RPM	
	Score Saw Shaft Speed	5600 RPM	
	Adjustable Cutting Speed	0–120 m/min (0–393.7'/min)	
	Max Cutting Thickness	82 mm (3.23")	
	Max Processing Width	2600mm (8.5')	3200mm (10.5')
	Saw Shaft Diameter	30 mm (1.18")	
Feeding & Clamping	Feed Servo Motor Power	1.5 kW / 2.01 HP	
	Minimum Clamping Width	40 mm (1.57")	
	Feeding Guide Rail	Taiwan CSK Precision Linear Rail	
	Transmission Type	Taiwan Jingte Precision Rack & Pinion	
	Position Accuracy Compensation	±0.02 mm (±0.0008")	
	Worktable Structure	Ball Float Air Flotation Table	
Dust & Auxiliary	Dust Extraction Blower Motor	2.2 kW / 2.95 HP	
	Dust Collection Efficiency	Approaches 100%	
Electrical & Control	Main PLC Controller	Japan Mitsubishi	
	Servo & Inverter Brand	Inovance	
	Low-Voltage Components	France Schneider + SNS Pneumatic	
	Proximity Sensors	Korea Autonics	
	HMI Touch Screen	Taiwan Kunlun Touch	
	Software Compatibility	1010、3D Home、CV、Cabinet Design、Excel BOM、MES/ERP	
	Remote Operation Function	Built-in IoT Remote Monitoring	
Machine Overall Specs	Overall Outer Dimension (L×W×H)	5155 × 5780 × 1795mm (203" × 228" × 71")	5755 × 6530 × 1795 mm (227" × 257" × 71")
	Working at Table Height	920 mm (3.02')	
	Total Installed Power	21 kW / 28.16 HP	
	Machine Net Weight	5000kg (11000lbs.)	5500kg (12125lbs.)
	Machine Power	20KW, 208-240V 3 phase 60Hz	
	Standard Safety Devices	Auto Fault Stop、Emergency Stop、Anti-Pinch Clamp Sensor	

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