

CO₂ Laser System (80W) for Engraving & Cutting

Model : SP2L-LCM/LEM-CO2



Features

- High Precision
- Fast Cutting Speed
- Material Versatility
- Automation Compatibility
- Non-contact Operation
- Low Material Waste
- Clean Edge Finish
- Supports Complex Designs
- Low Heat Affected Zone (HAZ)
- Multi-functional



Application

- Metal Fabrication
- Automotive & Aerospace
- Electronics
- Medical
- Jewelry & Fashion
- Architecture
- Signage
- Art & Crafts
- Packaging
- Education
- Furniture



Note: The above images are for representation purpose. The actual machine may vary.

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SPECIALISE PRODUCTS PRIVATE LIMITED

**Office # 706, Kamdhenu Commerz Premises Co-Op Soc Ltd, Plot # 2, Sector 14,
Kharghar 410210 (Navi Mumbai), RAIGAD, Maharashtra INDIA**

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Technical Specifications

Parameters	Specifications
Machine Configuration	Working area 600X400mm
Laser System	<ul style="list-style-type: none"> • Laser Tube: Sealed CO₂ Glass Tube • Laser Power: 80 Watt • Wavelength: 10.6 μm • Cooling: Water-cooled system with chiller & protection sensor
Mechanical & Drive	<ul style="list-style-type: none"> • Stepper Motor Drive (Leadshine or equivalent) • Belt / Rail Transmission System • Positioning Accuracy: ±0.02 mm • Resolution: 1000–2500 DPI
Performance	<ul style="list-style-type: none"> • Engraving Speed: Up to 30,000–50,000 mm/min • Cutting Speed: Up to 10,000–36,000 mm/min • Cutting Thickness: Up to 10 mm (Acrylic/Wood) it will require multiple pass to cut 10mm with 80W laser
Control & Software	<ul style="list-style-type: none"> • Ruida controller • Supported Formats: JPG, BMP, PLT, DXF, AI, DST, SVG, PDF • Software: RD Works
Table & Accessories	<ul style="list-style-type: none"> • Honeycomb / Knife Bed Table • Air Assist System • Exhaust Fan • Water Flow Sensor • Emergency Stop
Electrical & Environment	<ul style="list-style-type: none"> • Power Supply: 220V ±10%, 50Hz • Operating Temp: 0–45°C • Humidity: 5–95% non-condensing • Approx. Weight: 150–260 kg
General Specifications	
Warranty	3 years
Installation & Commissioning	Included
On-site Training	20 hours On-site training

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