

E300 CO2 Laser Cutting & Engraving Machine

The Accurate Laser E-300 is an advanced CO₂ laser system designed for industrial-scale engraving and cutting. With higher power output than the E-150, it delivers faster production, larger-format capability, and precise performance on a wide range of materials, including acrylic, wood, leather, plastics, and metal-coated surfaces. Its robust frame, precision motion, and automated features make it ideal for high-volume manufacturing, signage, and decorative applications.

Product Information

- 1 Laser Head Point
- 2 CCD Camera System
- 3 CO2 Laser Tube
- 4 Gantry & Carriage
- 5 DSP Controller Panel
- 6 Linear Rails
- 7 Intelligent Cooling System
- 8 Aluminum Knife Worktable



Key features

- ◆ **High-Power CO₂ Laser (300W Class)**
Ideal for thick materials and high-speed cutting/engraving; ensures sharp, detailed results even on dense substrates.
- ◆ **Extra-Large Working Area**
Handles oversized sheets up to ~1500 × 3000 mm, supporting large-format signage, panels, and industrial parts.
- ◆ **Heavy-Duty Steel Frame**
Vibration-free, welded construction for structural stability and long-term mechanical precision.
- ◆ **User-Friendly Controller & Connectivity**
Wi-Fi, USB, and Ethernet interfaces with compatibility for LightBurn, RDWorks, and other CNC software; intuitive touchscreen operation.
- ◆ **Low Maintenance & Long Life**
High-quality components and modular design reduce downtime and simplify maintenance.
- ◆ **Customizable Workflows & Multi-Step Projects**
Layer-based cutting and engraving, variable laser power, and advanced job scheduling for complex or repeatable production.
- ◆ **Energy-Efficient Operation**
Optimized laser power usage and motion control for lower energy consumption and eco-friendly production.

Headquarters: DIP-2, Plot No: 597-634, P.O. Box No: 27402, Dubai, UAE. Tel: +971 4 8049800.
UAE Customer Support # 800 74463. Locations: UAE, KSA, OMAN, KUWAIT, QATAR & BAHRAIN
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Technical Specifications

Model number	E300 CCD camera function included
Laser Type	Co ₂ Glass Tube / 300W Dual Tube
Laser Power	300W
Cooling	Intelligent Constant Temperature Cooler and Protection System
Control and drive	High Speed DSP Control Stepper Motor High Subdivision Drive
Voltage	AC220V ± 50HZ
Engrave Speed	0-60000mm/min
Cut Speed	0-30000mm/min (Depends on material thickness)
Red dot	Include
transfer method	Imported Linear Square Guide way
Working Size	1300mm*2500mm
Machine Size	3450*2030*1150mm
Power Supply	220V 50/60Hz 4KW
Standard	Blade table
Air Support System	150W Top, Left & Right / 300W Top & Bottom
Software	Coreldraw, CAD, AI Files via RD Works Software
Weight	1200kg
Standard Accessories	Air Pipes, Hose Clamp, Power Cable, Net Work Cable, Focusing Plates, Key, Dual Air Exhaust fan, Air Pump (Air compressor not included)

Use Cases

Signage & Displays



Interior Decoration



Prototype



Corporate Gifts & Awards

