

M-300 Specifications



The M-300 is a free-standing unit with integrated cart, motorised Z-axis, auto focus, X-Y beam positioning system with red dot pointer, self adjusting spring loaded sealed bearings, stationary processing table, Quick Change Laser Cartridge™ compatibility, shielded optics path, interchangeable focusing optics, flash upgradeable electronics, job complete indicator, system status indicator, re-locatable origin, enhanced vector cutting, 3D engraving and rubber stamp mode.

Productive and affordable the M-300 offers

- Industry standard 610mm x 305mm work area
- Safety interlocked cover
- Storage area
- Patented Cross-Platform Compatibility with ULS air-cooled Quick Change Laser Cartridges™
- Patented 10-50 watt Rapid Reconfiguration Capability™
- Low electrical consumption
- Appropriate selection of productivity accessories

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Laser Compatibility: UL-10, -25, -30, -35, -40, -45, or -50 watt air-cooled, RF driven, sealed CO2 laser in the pre-aligned Quick Change Cartridge™.

Available Accessories include: Rotary fixture, cutting table, lens kits, coaxial air assist with optics protection, USB connection kit and Ethernet connection kit. The M-300 is not compatible with dual head or computer controlled air assist.

Focusing Optics Standard 2.0" (50mm) focal length lens in enclosed lens cartridge; optional lenses available.

Power Control Digital power control continuously variable from 0 to 100%, automatic proportional pulsing and colour linked power settings.

Work Area 24" x 12" (609 x 304mm)

Table Size 29" x 17" (736 x 431 mm)

Maximum Part Size 29" wide x 17" deep x 9" thick (736 x 431 x 228mm)

Computer Interface Parallel port standard. USB and Ethernet optional. Compatible with Windows® 2000/ XP and Macintosh OS®9.

Memory Buffer Intelligent buffer with automatic data compression stores up to 99 files with all settings; files are addressable and repeatable in any order and may be deleted after completion to free memory; buffer can be switched to single file mode.

Display Panel LCD display shows current file name, laser power, engraving speed, run time, files loaded into memory buffer, setup and diagnostic menus.

Operating Modes Optimized raster or vector engraving, vector cutting or combined vector/raster process.

Dimensions 965 high x 914 wide x 762mm deep

Weight approximately 106kg

Safety Meets CDRH and EN60825-1 requirements for Class 1 laser safety enclosure for CO2 laser and Class 3R for red pointer.

Electrical Single phase 110 VAC, 15 amp, 50/60 Hz Single phase 220 VAC, 8 amp, 50/60 Hz

Exhaust Outside exhaust required. One 4" (102mm) connection requiring 250 CFM air flow at a static pressure of 6 inches of water (425m³/hr at 1.5kPa).

Cooling Air-cooled, ambient operating range of 50°-95°F (10°-35°C).

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