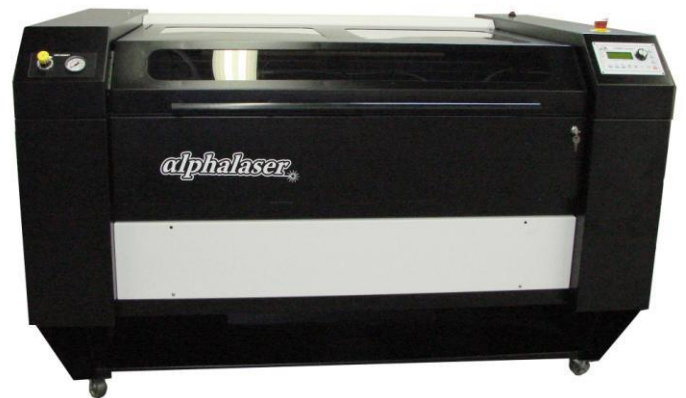


# α-Lase



## AlphaLaser Features and Specifications

**AlphaLaser** family of CO2 laser cutting and engraving systems feature fully enclosed industrial laser cutting and engraving systems. They are designed to address economy, flexibility and ease of operation for many challenging applications in a variety of competitive markets. AlphaLaser is available with many laser power choices that best meets your needs. A large Standard 24" by 48" cutting format gives the user the option to cut a wide range of sizes. With many additional features and a large cutting table, AlphaLaser is most often priced below the competition smaller format basic machines.



## Applications

**AlphaLaser** is an ideal tool for:

- Vector-based applications such as cutting and kiss-cutting of logos, overlays, spacers, woodworks, etc.
- Raster-based applications such as nameplate engraving, crafts, artworks, promotional advertising and corporate gift items, high-resolution portrait and picture engraving, rubber stamps, etc.

## Materials

**AlphaLaser** can process a wide variety of materials including:

- Polymers such as acrylic, polycarbonate, polyester, styrene, polyethylene, and more.
- Fiber Products - fiberglass, carbon fiber, Kevlar, paper, different types of fabrics, wood and wood composites.
- Many different types of metals



## Table

**AlphaLaser** is equipped with a versatile no-clean vacuum table. In cutting applications, it allows the slug to directly fall into the table's waste compartment. This eliminates the time-consuming slug removal after each cut. They can also be equipped with a honeycomb for more elaborate cuts. The table height is automatically controlled to provide auto-focus as well as ability to engrave on very thick articles such as gift boxes, books, gulf clubs, etc.

## Other Unique Features

Many features of Automation Alternatives popular high-end FlexLaser line have been incorporated in the AlphaLaser design to provide unsurpassed performance and cut quality. The combination of refined beam and unique cutting nozzle allows AlphaLaser to cut difficult materials like Lexan and Polycarbonates. No pre-mask is required to prevent burning and staining. The net result is a surface finish and edge quality that rivals die-cutting process.

## Controls

**AlphaLaser** controls feature:

- 4-line LCD Display
- Ability to store multiple programs
- Jogging for all axes
- Dedicated function keys, indicators and menu system
- Speed and power adjustment during operation
- Pause for inspection and more.

## Print Driver

**AlphaLaser** print driver is a Windows-based system. Main features include:

- Printing of vector and raster files from most of Windows applications
- Use of drawing colors to set different laser cutting parameters
- Ability to raster up to 1000 dpi
- Rubber Stamp mode
- 256 grayscale for photos

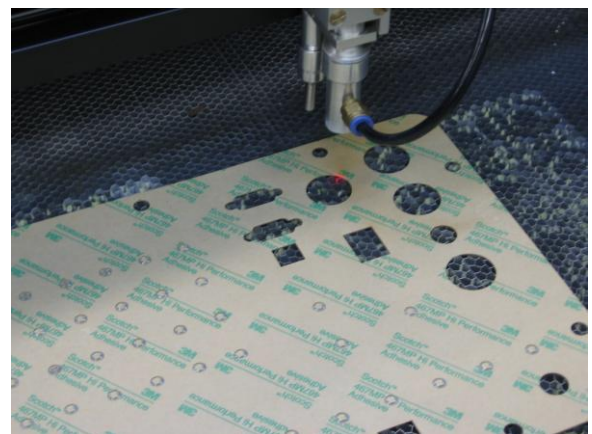
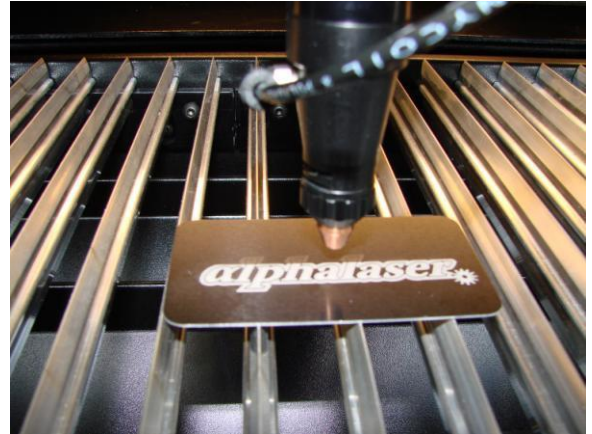
## Price Competitiveness

**AlphaLaser** comes with a large 24" x 48" cutting area and from 20 watts to 100 watts of laser power. This range of standard machines offer the users the choice of most suitable and cost-effective system for their applications.

## Warranty and Support

**AlphaLaser** like all Automation Alternatives machines carry a one-year limited warranty for parts and labour, except for wear items. Extended warranty is also available. Technical support is available on-site, via telephone or email.

Automation Alternatives in-house technical support team can be resourced at a time that best fits the customers schedules. North and South American customers can be serviced in both Eastern and the Pacific Time zones. Automation Alternatives carries a complete inventory of all parts for **AlphaLaser**. The majority of the parts are shipped next day.



## Specifications:

<b>General</b>		
Cutting / Engraving Area	24" x 48" (600 mm x 1,200 mm)	
Table type / Vertical Travel	No-clean / 6 inches	(Also honeycomb for elaborate cuts)
Cooling	Air or Water cooled	(Chiller supplied with the machine)
Laser Type	CO2, 10.6 micron wavelength Fiber 1 or .5 Micron	
Power Control	Modulated in proportion to speed	No burning on corners
Focusing lens	Standard 2.5 inch (63.5 mm)	Other options available
Enclosure	Fully enclosed	
Safety	Door safety and Emergency Stop	
<b>Control and Positioning</b>		
Axis Type	Belt driven	Durable with auto-wear compensation
Maximum speed	50 in / second	
Repeatability	Better than 0.002"	
Accuracy	+/- 0.03 %	
Measuring units	Standard / Metric	
<b>Power Supply and Dimensions</b>		
Power Supply	120 / 220 / 380 VAC, 50 /60 Hz	1 or 3 phase depending on laser power
Dimensions	69"x47"x42.5" (1,725mm x 1,175mm x 1,060mm)	
Approximate Weight	350 kg	