

Sealed edges and extreme precision.

Eastman's gas assist, class 4 laser cuts and seals material edge simultaneously with unmatched precision. Make detailed cuts without physical contact, reducing defects from wrinkling and pulling. The L135 is capable of moving at speeds ranging from 1/2 inches per second up to 30 inches per second, depending on the thickness of the textile. Various laser wattage configurations are available: 50, 60, 80, 100, or 120 watts. The ceramic core is durable and provides optimal laser stability while cutting, engraving, or perforating.

These benefits are ideal for companies designing and producing for military and law enforcement applications, as well as outdoor and adventure gear like tents and camper awnings. Fabric laser cutters are often the best choice for particularly difficult-to-cut textiles, including CORDURA®, Kevlar®, Sunbrella®, sailcloth, and nylon ripstop*.

Cutting Surface

The standard cutting surface options include galvanized steel, steel honeycomb, or wire mesh. All options easily slide in place over the cutting tabletop. A supplemental table surface is supplied as a roll-down for use when cutting with traditional blades.

International Compliance Ratings

The operating computer and control cabinet are housed in an ergonomic enclosure that can be sealed to offer dust and water-resistant protection in harsh or high particulate environments. Additionally, cabling connectors, servo motors and display components meet recognized international protection ratings requirements.



Interchange Laser and Traditional Cutting

The L135 laser mounts to the gantry of a static or conveyor table, allowing a quick transition from traditional cutting to laser cutting. Marking and labeling tools, or any other tool head options, can be added.



Material Hold-Down

The cutting table is equipped with a high-flow vacuum system to ensure optimum material hold-down for cutting. The surface ensures evenly dispersed vacuum flow, no matter where you are cutting. Cutting zones may be designated so that cutting occurs in one area while piece removal takes place in another.

Made to Order

Available in a range of widths, lengths and various tool head accessory options, the cutting table with a low-watt laser will be built to match your application needs. Customize tools and capabilities to maximize your productivity.

Industrial Design for Rigorous Use

- Advanced electro-pneumatic regulator for precise tool pressure control
- Heavy-duty cable connectors
- Easy access, sealed doors for inspection and maintenance
- Heavy-gauge steel construction with scratch-resistant powder coated finish

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Safety

- Gantry-mounted, laser enabled indicator light
- Four remote emergency stops: two on cutting gantry, two system-mounted
- Additional gantry-mounted stop disks pause system operation until returned to neutral and reset. Operation can then be resumed from any position
- Multiple fume extraction options available to capture hazardous fumes and particulates at the source
- Key switch activated for laser lockout/tagout, safeguards employees from unexpected start-up

Additional Options

- 2 in. (50.8mm) laser lens
- Brass tip laser nozzle
- Lens removal tool
- Lens cleaning tissue
- 3 in. (76.2mm) dust connection hose
- Test burn cards
- Spare laser optics kit
- Fume extraction pre-filter
- Fume extraction hepa-filter
- Fume extraction carbon-filter

Signal Indicators

- Green: system idle
- Orange: laser idle, gantry moving
- Red: laser actively firing
- Red/Yellow Flashing: laser fault

Hazardous Material

Do not cut flammable material or any material emitting toxic fumes when cut with the laser. See Material Cut/Do Not Cut list.

Laser Cutting Table Technical Specifications**

| LASER SPECIFICATIONS | ENGLISH | METRIC |
|------------------------------------|--|---------|
| Laser Type | CO ₂ Ceramic Core | |
| Laser Class | Class 4 | |
| Beam Diameter | 0.098 in. | 2.5mm |
| Beam Diameter (at cutting surface) | 0.014 in. | 0.343mm |
| Wavelength | 10.6 µm | |
| Laser Cooling | Air | |
| Laser Watts | 50, 60, 80, 100, 120 watt configurations | |
| Focal Distance | 2.5 in. | 63.5mm |
| Focus Tolerance Range | +/- 0.079 in. | +/- 2mm |
| Fume Extraction | Above table: 266 cfm, required 3in. (76.2mm felx hose). Below table: 266 cfm | |
| Gas Assist | N ₂ recommended, CO ₂ acceptable | |
| Laser Recharge | Not required | |
| Laser Lockout | Key switch | |

| BASIC TABLE SPECIFICATIONS* | | | |
|---|--|---------|---------|
| Please contact the factory for CL135 technical specifications and/or active cutting zone dimensions. Custom widths and lengths available. | Width | 54 in. | 1.37 m |
| | | 60 in. | 1.54 m |
| | | 72 in. | 1.82 m |
| | | 78 in. | 1.98 m |
| | | 96 in. | 2.44 m |
| | | 108 in. | 2.74 m |
| | | 114 in. | 2.90 m |
| | | 126 in. | 3.20 m |
| | Length | 8 ft. | 2.44 m |
| | | 12 ft. | 3.66 m |
| | | 16 ft. | 4.88 m |
| | | 20 ft. | 6.10 m |
| | | 36 ft.+ | 10.97 m |
| Drive System | Dual-X Axis, Y-Axis & Theta Axis. X & Y-Axis Rack & Pinion Drive, Brushless Servo Motors | | |

| POWER REQUIREMENTS | | | |
|--------------------|-------------------------------|---|-----------------------------|
| Electric | Diagnostic Control Cabinet/PC | 230V, 3 ph, 50/60 Hz, 5.4 kVA. Stand-alone step-down transformer required for other voltages. | |
| | Vacuum Blower | 208/230/380/460V, 3 ph, 50/60 Hz, 7.5 HP, VFD control optional | |
| Pneumatic | | 75 – 90 psi at 15 SCFM | 5.17 – 6.2 bars at 0.42 cmm |

| ENVIRONMENTAL | | |
|----------------------------|---------------------------|-----------|
| Compressed Air Consumption | 15 CFM | |
| Sound Level | <76 dB(A) | |
| Operating Temperature | 55 – 100°F | 12 – 37°C |
| Humidity | 20 – 80% (non-condensing) | |

* The CORDURA® brand is a registered trademark of INVISTA. Kevlar® is a registered trademark of E.I. du Pont de Nemours and Company. Sunbrella® is a registered trademark of Glen Raven, Inc.

**Achievable speeds and accelerations are tool, material and thickness dependent. All indicated speeds, dimensions, weights and performance data are approximate and subject to change without notice.