LASER CUTTING AND ENGRAVING SYSTEMS
CO2 and Fiber Laser Systems
imagine | design | create
In 1988 Epilog Laser became the very first manufacturer of small-format laser engraving systems. Epilog’s revolutionary systems opened the world’s eyes, not only to what could be accomplished with a laser, but how easy a laser is to use. After many firsts in laser technology, Epilog is proud to still be known throughout the world as the leading producer of small-format laser systems.

Explore our laser brochure to learn more about our made-in-the-USA laser systems and to find out why Epilog Laser has been the top choice of engravers for over 25 years.

After you have reviewed our brochure, give our Sales Team a call at +1 303.277.1188 with any questions or to set up a demonstration.

Proud to be Made in the USA
We are proud to say that all of Epilog’s laser systems are designed, engineered and manufactured in the USA at our headquarters in Golden, CO.

At a time when fewer products than ever before are manufactured in the USA, Epilog Laser is proud to build the industry’s leading laser systems in the United States.

The Leader in Engineering
“The heart of our company is our people. The soul of our company is our customers. The core of our company is our engineering.”

Mike Dean - Mr. Epilog
CO2 Lasers: The Choice for the Most Versatile Material Processing

If you’re looking for a laser that can engrave and cut a wider variety of materials, our CO2 laser line may be the right choice for your application. The decision to select a fiber laser or a CO2 laser will be determined primarily by what materials you need to mark. While a fiber laser will mark bare metals, ceramics and engineered plastics, a CO2 laser system can engrave on a wider variety of materials, including wood, acrylic, rubber, plastic, and more.

Epilog CO2 Laser Systems

A Wide Product Line of CO2 Laser Systems

From our desktop-sized Epilog Zing with a 16" x 12" (406 x 305 mm) engraving table, to our top-of-the-line Fusion 40 with a large 40" x 28" (1016 x 711 mm) work area, we have a laser system that can meet your needs. Each of our lasers features our industry-leading engraving quality, the fastest engraving speeds at the highest resolutions and the versatility to engrave and cut a wide variety of materials.

Check out our systems for applications ranging from signage to woodworking to electronics engraving, and more. CO2 lasers are an economical way to expand your business.

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<thead>
<tr>
<th>Engrave</th>
<th>Cut</th>
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<tr>
<td>Titanium</td>
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<tr>
<td>Bare metal</td>
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</table>

* CO2 lasers will mark bare metals when coated with a metal marking solution. For more information, call +1 303-277-1188.

Benefits of a CO2 Laser Source

Versatility: A CO2 laser will etch and/or cut wider variety of materials than a fiber laser. Fiber lasers will work with only metals, some plastics, and ceramics.

Cost: CO2 lasers are lower in cost than fiber laser systems.

Most Detailed Engraving

Only Epilog’s laser systems can engrave the highest resolutions at the fastest speeds. The depth, darkness, speed, and precision of engraving are unbeatable.

High-Quality Parts

Epilog only utilizes the highest-quality parts on every system we manufacture. Industrial belts, bearings, and motors are the keys to long-lasting systems that withstand the most rigorous use.

Versatility of Materials

CO2 lasers will etch and/or cut the widest variety of materials, allowing for more options to make a profit with your laser system.
Epilog Fiber Laser Systems

A Different Wavelength for Metal Etching and Plastic Marking: The FiberMark and Fusion M2

The second type of laser you will find in Epilog’s product line is our fiber laser systems. Featuring an air-cooled ytterbium fiber laser source, these are the ideal systems for direct metal etching and marking, as well as marking of engineered plastics.

Operating at a wavelength of 1064 nanometers with a flying-optic design, the fiber lasers etch directly into metal. They also mark a wide variety of plastics with an incredibly simple interface that allows you to print to the laser from almost any design or layout software, including AutoCAD, BarTender, CorelDRAW and Illustrator.

Benefits of a Fiber Laser Source

Direct Metal Etching: The wavelength of the fiber laser will etch directly into bare metal without any additives.

Plastic Marking: On many engineered plastics you can change the color of the plastic with a fiber laser. CO2 lasers will only etch into the plastic.

Industrial Marking Solution:

When we first launched the FiberMark in 2007, we were proud to introduce the world’s first flying-optic design incorporating a fiber laser source. Operating at a wavelength of 1064 nanometers, our fiber laser systems etch directly into metal and mark a wide variety of plastics and ceramics.

If you’re looking for a laser system that can engrave an entire batch of parts at one time, but also has the ability to customize specialized parts in seconds, then the FiberMark or Fusion M2 may be the choice for you. They solve the most common marking problems many companies face.

Epilog Laser has been manufacturing superior laser equipment in our Golden, CO headquarters. We’re proud to have built our business on the reliability and quality of our laser systems, as well as the outstanding customer service we provide.

Compatible Materials

<table>
<thead>
<tr>
<th>Materials</th>
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<tbody>
<tr>
<td>17-4 PH stainless steel</td>
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<tr>
<td>303 stainless</td>
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<tr>
<td>4043 steel</td>
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<tr>
<td>6061 aluminum</td>
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<tr>
<td>ABS (black/white)</td>
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<tr>
<td>Aluminum, 6061</td>
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<tr>
<td>Aluminum, yellow chromate</td>
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<tr>
<td>Bayer 2807 Makrolon polycarbonate</td>
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<td>Bayers bayblend FR110</td>
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<tr>
<td>Black/white ABS</td>
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<tr>
<td>Black/white polycarbonate</td>
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<td>Brass</td>
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<td>Brushed aluminum</td>
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<tr>
<td>Carbon fiber</td>
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<td>Ceramics, metal-plated</td>
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<td>Clear coat anodized aluminum</td>
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<tr>
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<tr>
<td>Colored Delrin (black/brown)</td>
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<td>Copper</td>
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<tr>
<td>Compacted powder iron with iron-phosphate coating</td>
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<tr>
<td>DAP: Diallyl Phthalate</td>
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<tr>
<td>Delrin, colored (black/brown)</td>
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<tr>
<td>GE Plastics polycarbonate resin 121-R</td>
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<td>Glass filled PEEK</td>
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<td>Glass filled Teflon</td>
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<tr>
<td>Hard coat anodized aluminum</td>
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<td>Inconel metals (various)</td>
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<td>Machine tool steel</td>
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<td>Magnesium</td>
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<td>Metal-plated ceramics</td>
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<td>Molybdenum</td>
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<td>Nickel-plated 1215 mild steel</td>
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<td>Nylon</td>
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<td>PEKK, white</td>
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<td>Silicon carbide</td>
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Do You Need Both a CO2 and a Fiber Laser?

Our dual-source Fusion M2 might be the right choice for you. The Fusion M2 can operate with either a CO2, fiber laser, or both at the same time. Designed for customers who need the versatility of the CO2 laser and the metal etching capabilities of the fiber laser, the M2 can meet both needs in one laser system.

1) No Dedicated Operator

By designing a system that allows you to engrave over a large work area, you can engrave more parts at one time. With our fiber laser systems, there is no need for a dedicated operator to load parts one at a time. Load a tray of parts, place it in the machine and start the job. It’s that simple.

2) Easier Software Integration

Specialized, proprietary software for laser systems creates the need for expensive training and re-training as staff turns over. The fiber laser works through a print driver, allowing you to print to the laser directly from AutoCAD, BarTender, Illustrator, CorelDRAW, and more.

3) Ability to Create Custom Marks

We’ve designed our fiber laser systems to allow you to set up and start engraving a custom design in just minutes. Since the laser operates like a paper printer, you can quickly set up custom engraving jobs for multiple pieces. Need to etch a different logo? It’s as easy as importing the image and printing it to the laser.

4) Etching Large Parts and Tools

If you face a requirement to mark larger parts and tools, the fiber laser can meet those needs as well. Place a large piece up to 32” x 20” x 12.5” (812 x 508 x 317.5 mm) on the machine’s motorized table to etch your logo or barcode wherever it is needed.

5) Easier Positioning of Marks

For oddly-shaped items, we’ve stocked the fiber systems with easy positioning features, including Center/Center engraving and a Moveable Home Position. You can easily select your own reference point at any position on the table.

6) Highest Quality Design and Service

Since 1988, Epilog Laser has been manufacturing superior laser equipment in our Golden, CO headquarters. We’re proud to have built our business on the reliability and quality of our laser systems, as well as the outstanding customer service we provide.

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What Will You Create?
**Quick Job Setup Features**

**Ethernet/USB/Wireless Networking**

There has never been a laser system that’s as easy to set up as an Epilog. All Epilog Laser systems are network devices with a true Ethernet connection (16 times faster than USB connectivity), a USB connection, or you can even connect wirelessly through a router. We’ve designed the laser to work like a printer, while being safe enough to use in an office environment.

**Design Your Project in the Software of Your Choice**

We’ve designed our lasers to work with the best graphic design program available - the one you’re already using! Our open-architecture software design allows you to use almost any Windows®-based software to design your projects, so you’re spending your time learning to engrave and cut, not learning new software. CorelDRAW, Illustrator, Photoshop, AutoCAD, and many other programs can all be used to create your designs. What does this mean to you? Flexibility. Anyone who can operate a computer can operate the laser. There’s no long, expensive training process required to keep your laser running.

**Laser Dashboard: An Easy-to-Use Print Driver**

To make the laser as easy to use as possible, we have developed an intuitive print driver that we call our Laser Dashboard that acts as your interface to the laser. Instead of a complicated, proprietary software program, all you need to do is install the laser just like you would a printer, then use the Dashboard to print your files to the laser. It’s that easy! All of the settings for the laser are available from the driver, including:

- Speed
- Power
- Resolution
- Stamp Mode
- 3D Mode
- Color Mapping
- Auto Focus
- Vector Sorting
- Firmware updates
- Center-Center Engraving
- Photo dithering patterns
- Saved material settings

**Business Opportunities**

- Electronics Engraving
- Wood Engraving & Cutting
- Marble & Stone Etching
- Glass Etching
- Corporate Giveaways
- Laptop Customization
- Acrylic & Wood Signage
- Wedding Memorabilia
- Nameplates & Desksets
- Appliques
- Toys & Games
- Wooden Models
- Photo Albums
- Holiday Decorations
- Laser Cut Cards & Invitations
- Custom Jewelry
- Corporate & Sporting Awards
- Acrylic Plaques
- Photo Frames
- One-of-a-Kind Gifts
- Engraved Mirrors
- Architectural Models
- Custom Pet Tags
- Inlaid Signage
- 3D Models
- Engraved Denim Jeans
- Photo Engraving
- Barcode Engraving
- Logo Engraving on Parts
- Tool identification
- Medical Part Marking
- Etched Business Cards
- Wine Bottle Etching
- Phone Customization
- Photo Engraving
- Holiday Ornaments
- Cloth Etching
- Paper Invitations
- Sporting Goods
- Memorials
- Home Decor
- Marble Flooring
- Cabinetry
- Product Marking
- Industrial Etching
- And much more!

**How to Create a Project**

1. **Setup Your Page**
   - Create a new page in your graphic software and set the page size to match the size of the piece you will be engraving.

2. **Import Your Image**
   - Import or create your own initial design. It can be in any graphic format - but the higher the quality, the better the engraving will turn out!

3. **Add Text**
   - Add any text you want to include and finish your design just like you would if printing the image to paper.

4. **Print to the Laser**
   - Send your image to the laser. In the print driver you’ll select the laser parameters you want to use, or select a preset material setting from Epilog’s extensive database.

5. **And Start Engraving**
   - Select your file at the laser, put your engraving material in the machine, shut the door, and press GO. The laser will do the rest!
The Epilog Zing 16 Laser
Small-size, entry-level laser system that is perfect for starting a business or to operate out of your home, office or school.
- Affordable pricing for the entry-level user.
- 16” x 12” x 4.5” (406 x 305 x 114 mm) work area is a great size for custom engraving individual pieces.
- Power choices of 30 or 40 watts.

The Epilog Zing 24 Laser
Larger work area and more features make this laser an affordable choice for those needing more features from an entry-level machine.
- 24” x 12” x 7.75” (610 x 305 x 197 mm) work area.
- Radiance™ High-Resolution Optics for a smaller laser spot size across the table.
- Power choices up to 60 watts to engrave faster and cut through thicker materials.
- Epilog’s Super-Silent™ cooling fans for quiet operation.
- Easy-Access, Drop-Down Door for inserting a tray of parts in the system.

Affordable, High-Quality Engraving
When Epilog Laser designs an entry-level system, it’s anything but entry-level quality. We are renowned for our systems’ unmatched engraving detail, and we’ve carried that through to our Zing Laser Starter Series.

Easy to Set Up and Begin Engraving
If you already use any graphic design software, you can be up and running on the Epilog Zing Laser in no time. Just install the print driver and start creating your projects!
- There is no special software to learn (no expensive training of new employees.)
- Receive free, ongoing access to our Virtual Training Suite.
- Hook up your laser through USB or Ethernet connections or even wirelessly with a router.

Can I Start a Business with an Epilog Zing?
The Epilog Zing Laser is becoming a fast favorite for those looking to start a profitable business. The affordable price coupled with the system’s versatility are an ideal combination. Plus, with low lease-to-own monthly payment options, you can pay for the system as you make money!

The Path to a Successful Engraving Business
Epilog offers a guidebook to starting your own laser business that lays the groundwork for establishing your own business. This valuable resource includes information on preparing a business plan, pricing structures, marketing and more! www.epiloglaser.com/guide

Epilog Zing Laser FAQs
Q: Can your Zing Starter Series create the same quality engravings that I see from the rest of Epilog’s product line?
A: Yes! Even our famous Aztec Calendar sample is engraved on the Epilog Zing Laser. The Epilog Zing is not as fast as our Legend or Fusion Series, but the image quality is pure Epilog.
Q: Does the same laser work on every material you show?
A: Yes! From wood to acrylic to marble to glass, just adjust your speed and power settings for the different materials you want to engrave.
Q: Can I make money with an Epilog Zing Laser?
A: Yes! Personalization and customization of products is in high demand and adds amazing value to any product you create.
Q: How difficult is it to get started engraving on the Epilog Zing?
A: If you know how to use graphic design software, you can be up and running in minutes. Initially, there will be a bit of trial and error to learn what power and speeds to use with different materials, but we include a comprehensive guide with your system that has recommended laser settings for common materials.

Why the Epilog Zing Laser?
Of all the low-cost laser systems on the market, why is the Epilog Zing the top choice for most laser buyers? The Epilog Zing is unique in its ability to provide you with high-resolution engraving and cutting at a very low cost.
- You can network the laser to several computers with a standard Ethernet connection.
- Epilog’s Virtual Training Suite will walk you through several projects - and you’ll have finished samples when you are done!
- Our made-in-the-USA quality is unmatched in the industry.
- We have an unbeatable technical support team that will get (and keep) you up and running.

Stunning engraving results will keep customers coming back to your business. Without sacrificing quality, Epilog allows you to get the machine you need at a price you can afford.
Engrave a high-resolution image on an Epilog Zing and a competitor’s machine - you’ll see that the Zing Laser is the choice for high-quality engraving at the fastest speeds for an entry-level laser system.
## Epilog Zing Laser Starter Series

### Zing Series Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Zing 16</th>
<th>Zing 24</th>
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<tbody>
<tr>
<td>Made-in-the-USA Quality</td>
<td>•</td>
<td>+</td>
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<tr>
<td>Epilog Job Manager</td>
<td>+</td>
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<tr>
<td>Laser Dashboard™</td>
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<tr>
<td>Waveguide Laser Tubes</td>
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<td>+</td>
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<tr>
<td>Vector Grid</td>
<td>+</td>
<td>+</td>
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<tr>
<td>High-Speed Stepper Motors</td>
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<tr>
<td>Air Assist Curtain</td>
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<tr>
<td>Networking Choices</td>
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<tr>
<td>Lenses Rated to 500 Watts</td>
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<tr>
<td>Moveable Home Position</td>
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<td>+</td>
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<tr>
<td>Red Dot Pointer</td>
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<tr>
<td>Super-Silent™ Cooling Fans</td>
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<tr>
<td>Radiance™ Beam Enhancing Optics</td>
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<tr>
<td>Easy-Access, Drop-Down Door</td>
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<tr>
<td>Compatibility with Rotary Attachment</td>
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### Red Dot Pointer

This is one of our customers’ favorite features, as it provides a visible red laser beam that indicates the exact laser engraving or cutting location within the engraving table. Use the Red Dot Pointer to preview your engraving or cutting position on uniquely-shaped items.

### Waveguide™ Laser Tubes

Different types of laser tubes produce different types of laser beams.

- Oval-shaped beams, inconsistent power stability and slow switching rates all contribute to less-than-stellar engravings that are not as crisp and clean as engravings produced by an Epilog. Our patented Waveguide laser technology simply produces the best results.
  - Produce the best beam quality in the industry.
  - Have higher CO2 gas pressure.
  - Operate with faster switching rates and a smaller bore.
  - Made of metal (not glass!) with ceramic components for a long life.

### High-Speed Stepper Motors

The Zing Laser Starter Series utilizes high-speed stepper motors to drive the laser positioning. Designed for affordability and quality, these stepper motors provide the high quality engraving results that you’ve come to expect from all of Epilog’s laser engraving and cutting systems.

### Crystal Clear™ Optics System

Industrial grade ZnSe lenses and single crystal silicon mirrors rated to over 500 watts are used in all of our laser systems. We’ve designed the systems with easily-removable lenses to make maintenance quick and easy to perform without tools.

### Air Assist Curtain

By directing a constant stream of compressed air across the cutting surface, the possibility of flaming, searching and charring is greatly reduced when working with materials such as wood, acrylic and rubber.

The Air Assist assembly can be easily connected to a standard compressed air supply (30 psi / 2.07 bar max) or the optional stand-alone compressor offered by Epilog.

### Zing 16 Features

- Designed, engineered, and built in Golden, CO.
- Job management and workflow software - easily organize, edit, save and print.
- Our print driver where you can choose from the Zing’s many features.
- Long-lasting, all-metal tubes for the best engraving quality.
- Faster stepper motors that provide high-resolution engravings.
- Change your speed and power by using color settings.
- Remove heat and combustible gases from the cutting surface.
- Etch and cut stamps or create 3D effects on your engraving.
- USB and Ethernet connections, or connect wirelessly with a router.
- Highest-quality lenses provide long life and higher resolutions.
- Engrave oddly-shaped items easily by setting a new home position.
- Provides a visible laser beam to help position your projects.
- Quiet operation by reducing the time fans are turned on.
- The most consistent beam quality over a larger engraving table.
- Front-access door for the laser system.
- Engrave glasses and mugs with the optional rotary.

### Crystal Clear™ Optics System

- Produce the best beam quality in the industry.
- Have higher CO2 gas pressure.
- Operate with faster switching rates and a smaller bore.
- Made of metal (not glass!) with ceramic components for a long life.

### Epilog Zing Laser Optional Accessories

#### Vector Grid

When you are cutting through materials, the Zing’s Vector Grid will quickly become one of your favorite accessories. The grid raises the material you’re cutting off the table, which dramatically reduces back-side burning on any material you cut. The air space below the vector grid is connected to the exhaust, so smoke is removed not only from the top side of the material, but also from the underside.

#### Air Compressor

Attach Epilog’s Air Compressor to the Air Assist Curtain to direct a constant stream of air over the work surface. This high-quality compressor ensures you get excellent cutting results every time you use your system by directing 30 psi (2.07 bar) of air through the Air Assist structure.

#### Zing 24 Rotary Attachment

Engrave wine bottles, mugs, glasses, flashlights or any other cylindrical item up to 5.25″ (133.4 mm) in diameter on the Epilog Zing 24 Laser. So intuitive and easy to use, you can switch from one glass to the next in seconds - without even removing the attachment from the engraver! In addition, our proprietary design provides accurate image scaling, so there’s no need to input diameter or circumference calculations.
Epilog Legend Laser Series

Epilog Mini 18 and 24

Looking for a system with faster engraving times than the Starter Series, but still offers a small work area? The Epilog Mini 18 and 24 Lasers are an ideal way to break into our Legend Series.

- High-speed servo motors and linear encoder driven.
- Automatic focusing to the perfect focal distance from the lens.
- 1200 dots per inch engraving.
- 18 x 12 x 4 (457 x 305 x 102 mm) or 24 x 12 x 5.5 (610 x 305 x 140 mm) engraving area.

Epilog Helix Laser

For engravers looking to work with larger pieces or products, the Epilog Helix is an ideal choice. The Helix’s generous 24” x 18” x 8.5” (610 x 457 x 216 mm) work area will allow you to engrave multiple pieces as well as process thicker materials.

- Radiance™ High-Resolution Optics for a smaller laser spot size across the table.
- Easy-Access Drop-Down Door for loading jigs from the front of the machine.
- Easy-Access Storage Stand to easily move your laser throughout your office, workshop or school.
- Super-Silent™ Cooling Fans: Quiet operation by reducing time fans are turned on.
- Integrated Vacuum Table: Holds down thin sheet stock.
- Integrated Vector Cutting Grid:
- Compatibility with Rotary Attachment: Engrave cylindrical objects with the optional rotary.
- Red Dot Pointer: Provides a visible laser beam to help position your projects.
- Auto Focus: Automatically focus the engraving table to the correct focal distance.
- 3D and Stamp Engraving Settings: Etch and cut stamps or create 3D curves on your engraving.
- Networking Choices: USB and Ethernet connections, or connect wirelessly with a router.
- Lenses Rated to 500 Watts: Highest-quality lenses provide long life and higher resolutions.
- Moveable Home Position: Engrave oddly-shaped items easily by setting a new home position.
- Permanent Job Storage: Store as many as 10 jobs up to 2MB in size.
- Vector Table Crumb Tray: Easily dispose of debris from under your Vector Cutting Grid.
- Easy-Access Drop-Down Door: Front access door for the laser system.
- Radiance™ Beam Enhancing Optics:
- Higher-resolution optics for detailed engraving.
- Easy-Access Storage Stand: Wheeled, free-standing cart for easier access.

Epilog FiberMark 24

Our small-format fiber laser system, the FiberMark 24, allows you to etch directly into metal and mark many plastics. The FiberMark 24 is our original fiber laser system and is the first flying-optic fiber laser system ever developed.

- Drop-down front door for inserting large parts or a tray of tools.
- Ability to create etched, annealed, and polished marks.
- 1200 dots per inch engraving quality.
- 24 x 12 x 5.5 (610 x 305 x 140 mm) engraving area.

Legend Series Features

CO2 Waveguide Laser Tubes: Long-lasting, all-metal tubes for the best engraving quality.

Fiber Laser Source: Etches directly into bare metal and marks plastics.

High-Speed Servo Motors: Faster servo motors that provide high-resolution engraving.

Laser Dashboard™: Our print driver where you can choose from many engraving features.

Linear Encoders: Highest-quality engraving from the most precise motion control system.

Metal Bearings: Stainless steel bearings designed to last the life of the machine.

Kevlar Belts: Our precision drive belts are made from B-style Kevlar for superior longevity.

Made-in-the-USA Quality: Designed, engineered and built in Golden, CO.

Project Management Software: Epilog Job Manager software - easily organize, edit, save and print.

Raster/Vector Color Mapping: Change your speed and power by using color settings.

Air Assist: Remove heat and combustible gases from the cutting surface.

Auto Focus: Automatically focus the engraving table to the correct focal distance.

Networking Choices: Etch and cut stamps or create 3D curves on your engraving.

Super-Silent™ Cooling Fans: Quiet operation by reducing time fans are turned on.

Permanent Job Storage: Store as many as 10 jobs up to 2MB in size.

Job Delete at the Laser: Delete old jobs to keep your laser job queue organized.

Vector Table Crumb Tray: Easily dispose of debris from under your Vector Cutting Grid.

Easy-Access Drop-Down Door: Front access door for the laser system.

Radiance™ High-Resolution Optics

Our Radiance™ High-Resolution Optics help produce the sharpest laser beam in the industry, which provides the most detailed engraving and cutting results available. After the laser beam leaves the laser tube, it passes through a set of two optical components that straighten and expand the beam before focusing the laser. This set of optics dramatically reduces beam divergence and produces a laser beam that maintains its size and straightness across the entire engraving table.

Our Radiance High-Resolution Optics Provide:

- A more uniform spot, which results in more detailed engravings. In systems that don’t feature Radiance Optics, the beam diverges and you’ll see less detailed engravings in the corner of the table. Epilog’s Radiance Optics ensure a consistent result across the entire table.
- Rounder spot size: A laser spot that is as close to circular as possible produces laser characteristics that are the same in both the X and Y directions, providing crisper, more consistent engraving and cutting results.
- Less Divergence: Radiance technology straightens the diverging beam and stops it from spreading. This produces a laser beam that maintains a uniform shape over long distances.
The Precision of the Accupoint™ Motion Control System

Firing the laser in the right place at the right time is the concept behind the Legend Accupoint™ Motion Control Technology. While it’s easy to see the extraordinary level of detail in our engravings at any resolution, the engineering behind our equipment is what makes this accuracy possible. At 1200 dpi, the entire motion control system is moving in increments as small as .0008” (.02 mm), which is the result of a special blend of high-quality components available only in the Legend Series.

Linear Encoder
For the most precise method of determining the laser position, the Accupoint system utilizes linear encoders. These encoders provide critical timing information that synchronizes the motion control system to the firing of the laser. Mounted directly to the moving carriage, the linear encoders provide crisp, clean images, even at the highest speeds.

Long-Lasting Stainless Steel Bearings
Epilog’s bearings provide the accuracy, repeatability and precision that demanding laser applications require. Built with at least 64 stainless steel bearings in each slider unit, our long-lasting bearings can operate at the highest speeds, day in and day out without worry about failure, replacement, or the inevitable wobble that less robust bearing systems experience.

Servo Motors
The ability of a motor to move smoothly at high speeds is a key component to the Accupoint system. Closed-loop, DC servo motors are known for their incredibly fast acceleration and deceleration speeds, as well as their ability to operate without the coggling seen in less accurate motors.

Integrated Vector Cutting Grid and Vacuum Table
The Vector Cutting Grid is integrated into every Legend Series laser and is a robust 1” (25.4 mm) thick. Simply remove the Task Plate and place the Vector Cutting Grid in the system to dramatically reduce backside burning of the material being cut. The Vacuum Hold-Down Table uses the air from under your exhaust fan to hold thin sheet stock flat.

Legend Series Accessories

Rotary Attachment
This handy attachment gives you the ability to engrave mugs, bottles, glasses, flashlights, vases, and other cylindrical items.

Air Compressor
Epilog’s optional Air Compressor is available to work with the included Air Assist feature of the laser systems. Direct a constant stream of air to your cutting surface to remove heat and combustible gases from the work area.

Mini Laser Stand
If you prefer to have a free-standing Mini 18 or 24, you can add this wheeled cart, specially designed for the Mini Laser line. It will allow you to quickly and easily move your machine throughout your work environment.

Vector Pin Table
The Vector Pin Table incorporates moveable pins designed to raise and support the areas of a piece of material that won’t be cut. This helps ensure you receive the cleanest laser cut edges from your laser system.

Optional Lenses
1.5” Lens: High-Resolution Engraving
Although the standard 2.0” lens on the Legend Series provides amazing detail (including the stunning Aztec calendar sample), our 1.5” lens assembly has been designed for the highest resolution engraving and etching of extremely small fonts.

4.0” Lens (Mini 24 and Helix Laser)
The 4.0” lens produces a focussed beam over a longer vertical distance, which makes it ideal when engraving within a recessed area of a product, such as inside a bowl or plate.
Epilog Fusion Laser Series

Epilog Fusion M2 32 Laser
The Fusion M2 32 is available in CO2, fiber or dual-source configurations and is outfitted with our new motion control system for higher speeds and the best edge quality when cutting. We’re excited for customers to try out our premier laser with unmatched speeds and cutting quality.

- Available in CO2, fiber or dual-source configurations.
- 32” x 20” (812 x 508 mm) engraving area.
- Power choices up to 120 watts (CO2) and 50 watts (fiber).
- Robust table lifts 100 lbs. (45.4 kg).

Epilog Fusion 40 Laser
The largest system in our product line is the Fusion 40 Laser. Featuring an incredibly large 40” x 28” (1016 x 711 mm) table, you’ll be able to work with even the largest products that you need to engrave.

- Our largest engraving and cutting table.
- 40” x 28” x 13.25” (1016 x 711 x 336 mm) work area.
- Power choices up to 120 watts.
- Drop-down front door and removable exhaust panel.

Advanced Motion Control
The Fusion’s motion control system achieves the best edge quality on laser-cut acrylic that we’ve ever seen on a small-format laser system. The premier motion control also provides the fastest cutting on thin materials with improvements in cutting speeds up to 160% on 1/8” (3 mm) wood!

High-Speed, Brushless Servo Motors
The Fusion’s high-speed, brushless servo motors are more robust than ever before. These powerful, industrial motors are the longest lasting on the market and are built to withstand the most rigorous engraving jobs while maintaining a low operating temperature. These provide the industry’s highest resolution at 16,000 encoder counts per revolution.

16,000 encoder counts per revolution.
most rigorous engraving jobs while maintaining a low operating
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robust than ever before. These powerful, industrial motors are
the longest lasting on the market and are built to withstand the
most rigorous engraving jobs while maintaining a low operating
temperature. These provide the industry’s highest resolution at
16,000 encoder counts per revolution.

Epilog Fusion Series Features
Dual Source Capabilities: Optional CO2 and Fiber laser sources in one system.
Made-in-the-USA Quality: Designed, engineered and built in Golden, CO.
Laser Dashboard™: Our print driver where you can choose from many engraving features.
Mac® and PC Drivers: Print to the laser directly from your Mac or PC.
Joystick Controls: Move the laser head and run the laser directly from the control panel.
Epilog Control Center™: Settings manager including job time estimator/recorder.
Larger Tempered Glass Door: Oversized door for better viewing of the engraving project.
LED Lighting: Bright LED lighting inside the machine.
Strong Steel Chassis: 50% more rigid than any of our other systems.
Rotary Encoders: Extremely accurate at 16,000 counts per revolution.
Self-Lubricating Bearings: Stainless steel bearings designed to last the life of the machine.
Precision Drive Belts: Strong drive belts with Keylar on the x-axis and steel cord on the y-axis.
Pneumatic Assist Crash Bar: Protects x-axis from user error if table rises too high.
Waveguide Laser Tubes: Long lasting, all-metal tubes for the best engraving quality.
Advanced Vector Controls: Adjust power compensation and speed for highest cutting quality.
Laminar Air Flow: Streamlined air flow for the most efficient smoke and vapor removal.
High-Speed, Brushless DC Servo Motors: Withstands the most rigorous engraving jobs at high speeds.
Raster/Vector Color Mapping: Change your speed and power by using color settings.
Air Assist: Remove heat and combustible gases from the cutting surface.
3D and Stamp Engraving Settings: Etch and cut stumps or create 3D curves on your engraving.
Networking Choices: USB and Ethernet connections, or connect wirelessly with a router.
Lenses Rated to 500 Watts: Highest-quality lenses provide long life and higher resolutions.
Moveable Home Position: Engrave oddly-shaped items easily by setting a new home position.
Red Dot Pointer: Provides a visible laser beam to help position your projects.
Project Management Software: Epilog Job Manager™ - easily organize, edit, save and print.
Super-Silent™ Cooling Fans: Quiet operation by reducing time fans are turned on.
Job Delete at the Laser: Delete old jobs to keep your laser job queue organized.
Easy-Access Drop-Down Door: Front access door for the laser system.
Removable Back Exhaust Panel: Provides easy cleaning of the exhaust plenum.
Radiance™ Beam Enhancing Optics: Higher resolution optics for detailed engraving.
Emergency Stop Button: Stop the laser immediately with this front-positioned button.

Fusion M2 32
+ +
Fusion 40
+ +

Press and Cut!
Want to cut a piece of scrap material? It’s never been easier than with our Joystick Cutting feature. Engage the laser with the press of a button, then use the joystick control to move the laser head wherever you want. Cut through materials, or even test your skill by writing your name!

Joystick Control
The Fusion’s display panel puts the control of the laser in your hands - quite literally! The intuitive joystick control on the Fusion allows you to easily raise and lower the table, move and reset your home position, use the jog feature and much more. You can even fire the laser directly from the control panel! Additionally, this user-friendly control allows you to quickly and easily access all of the menu functions within the laser.

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Epilog Fusion Laser Series

Fusion Series Features

Mac® and PC Drivers
Along with our Windows® driver, we are proud to offer the first-ever Mac driver created for a laser system. Designed for the Fusion CO2 Laser Series, it allows laser operators to seamlessly print from a Mac computer to Epilog’s CO2 Fusion lasers. Now you can design and print to the Fusion Laser from your favorite Mac or Windows program!

Incredibly Strong, Rigid Chassis
By designing an all-steel chassis that can withstand the fastest laser head movement, we’ve improved our motion control system, cutting quality and even our engraving speed. The chassis on the Fusion is 10 times stronger than on any of our other systems and it shows in the results!

Drop-Down Front Door
Easily place a large part or tray of parts through the hinged, front-access door. This safety-interlocked door provides fast and efficient parts placement and removal.

Removable Exhaust Panel
Keeping your machine free of debris is the key to a long-lasting system. One of the areas of the system most prone to dirt collection is the exhaust plenum. On the Fusion Laser you can easily remove the exhaust panel with a few simple screws for easy access to clean the back of the system.

Fusion Series Accessories

Fusion M2 Dual Laser Source Option
What is the benefit of two laser sources in one cabinet? Space - if you are operating in a limited-space environment, you can maximize your space with equipment that can now work with any type of laser. For dual configurations, choose between a 50, 60 or 75-watt CO2 laser and match it with a 20, 30 or 50-watt fiber laser. Pick the combination that is best for your applications.

Maximizing power transfer from the laser source to the work piece requires mirrors that are designed for the specific wavelength of the laser source. Some dual-laser systems compromise on optics or force you to change lasers and/or optics. The M2 provides dedicated optics and a dedicated beam path for each laser source before combining the paths prior to focusing. There is no need to manually swap out laser sources or optics; it all happens automatically. Laser alignment for both sources is always stable and never compromised, resulting in maximum laser power as well as greatly enhanced image quality and the fastest job processing times from the Fusion M2.

Epilog eView™ Camera Module
An optional feature of the Fusion M2, the eView™ Camera Module allows you to create incredibly accurate laser cuts around printed images on wood, acrylic, cardstock and more. With an innovative three-camera design, including two cameras located on the lid of the laser, the eView system reads the registration marks on your printed item, providing the easiest alignment available.

The cameras also provide a real-time preview of the cutting table. In the Epilog Job Manager you will see a real-time photo representation of the laser table with your printed graphic and its true position on the table. The cut lines from your printed graphic will overlay the image to show a preview of where the laser cuts will occur. From the Job Manager, simply click on the registration marks you want to use and the eView Camera software does the rest.
Epilog Fusion Laser Series

More Fusion Series Accessories

Rotary Attachment
Epilog offers two types of Rotary Attachments for the Fusion Laser Series. The Standard Style Rotary is great for general-purpose cylindrical shapes, including glasses, mugs and wine bottles. For more demanding applications we offer the 3-Jaw Chuck Style Rotary Attachment for projects when you need to mechanically clamp a cylinder or oddly-shaped, non-cylindrical item.

Vector Grid
Incorporate the gridded cutting table when cutting through materials. By raising the materials off the table when cutting you’ll be able to reduce the back-side burning on the material.

Air Compressor
Designed to work with the included Air Assist feature, the compressor will direct a constant stream of air to the cutting surface to remove heat and combustible gases.

Vector Pin Table
The Pin Table incorporates moveable pins designed to raise and support the areas of a piece of material that won’t be cut. This helps ensure you receive the cleanest edge cut quality from your laser system.

Optional Lenses
CO2 Options
1.5” Lens: High-Resolution Engraving
For engraving small fonts and some high-resolution engraving.

4.0” Lens: Etching Recessed Areas and Deeper Cuts
Ideal when engraving within a recessed area of a product or for cutting thicker materials.

Cone Lens: Deep Cutting of Wood and Acrylic
Use when cutting through thicker hardwoods and acrylics.

Fiber Options
5.0” Lens: More Depth of Field
Higher quality engraving on slightly curved surfaces.

8.0” Lens: Greatest Depth of Field
For etching on objects with a greater curve.

Material Testing

Material Testing in our Applications Lab
Do you have a material you would like to test with our lasers? Our Applications Lab is available to help determine if an Epilog Laser is the right tool for your new or existing application. Our team of specialists will provide:

Applications Analysis
Is a CO2 or ytterbium fiber laser system the right tool for your application? What are the system requirements? How can an Epilog Laser meet or exceed your expectations?

Product and Material Testing
Our Applications Lab will process and return your material within a few days of testing them.

Complete Privacy
We recognize that many of your materials may be proprietary. We can promise you complete privacy about the materials we test for you and the processes involved.

Applications Report
Upon returning your processed samples, we also provide a detailed report that is tailored to your specific questions and application. Additionally, we’ll make a recommendation on which system is right for you.

Call our Applications Lab today at +1 303-277-1188 or email applications@epiloglaser.com to set up your material test.

Set Up a Demonstration
If you’re ready to take a hands-on look at the laser, we have distributors located worldwide who can schedule a demonstration. You’ll be able to test your graphics and materials and see how the laser can best meet your needs. Call your distributor, or Epilog Laser directly at +1 303-277-1188 and we’ll direct you to the distributor nearest you.
## Technical Specifications

### Epilog Zing Laser Series
- **Laser Tube Wattages**: 30 and 40-watt, CO2, air-cooled, all-metal Waveguide tube, 10.6 micrometers.
- **Max Material Thickness**: 4.5" (114 mm) 7.75" (197 mm) 4" (102 mm). Remove table for 6" (152 mm) depth and 17.5" x 10" (444 x 254 mm) engraving area.
- **Resolutions**: User-controlled from 100 to 1000 dpi.
- **X-Axis Bearings**: Shielded roller bearing assembly on a ceramic-coated aluminum guide rail.
- **Super-Silent Cooling Fans**: 20, 28, 34, or 53 dB, low, medium, or high operation.
- **Vacuum Table**: 2" (51 mm) focus lens, relocatable position, permanent job save with 10, 2 MB output port, 4" (102 mm) in diameter.
- **Computer Control System**: Laser Dashboard™, Epilog Job Manager™.
- **Waveguide tube**: 10.6 micrometers.
- **CO2, air-cooled, includes collimator. 1065 nm laser wavelength.
- **Gross Weight**: 30 and 40 watts, CO2, air-cooled, all-metal Waveguide tube, 10.6 micrometers.
- **Operating Modes**: Optimized Raster, Vector and Combined mode.
- **Intelligent Memory Buffer**: Store multiple files up to 64 MB.
- **Rolling buffer allows files of any size to be engraved.
- **Computer controlled speed and power in 1% increments to 100%.
- **Color mapping links Speed, Power, Frequency, and Raster/Vector mode settings to any RGB color.
- **Powerful 2.25 GigaFLOPS processor with 128 GB embedded RAM.
- **Waveguide tube**: 10.6 micrometers.
- **CO2, air-cooled, includes collimator. 1065 nm laser wavelength.
- **Gross Weight**: 30, 40, 50, and 60-watt, CO2, air-cooled, all-metal Waveguide tube, 10.6 micrometers.
- **Operating Modes**: Optimized Raster, Vector and Combined mode.
- **Intelligent Memory Buffer**: Store multiple files up to 128 MB.
- **Rolling buffer allows files of any size to be engraved.
- **Computer controlled speed and power in 1% increments to 100%.
- **Color mapping links Speed, Power, Frequency, and Raster/Vector mode settings to any RGB color.
- **Powerful 2.25 GigaFLOPS processor with 128 GB embedded RAM.
- **Waveguide tube**: 10.6 micrometers.
- **CO2, air-cooled, includes collimator. 1065 nm laser wavelength.
- **Gross Weight**: 30, 40, 50, 60, 75, or 120-watt, CO2, air-cooled, all-metal Waveguide tube, 10.6 micrometers.

### Epilog Legend Laser Series
- **Laser Tube Wattages**: 30, 40, 50, and 60-watt, CO2, air-cooled, all-metal Waveguide tube, 10.6 micrometers.
- **Max Material Thickness**: 4.5" (114 mm) 7.75" (197 mm) 4" (102 mm). Remove table for 6" (152 mm) depth and 17.5" x 10" (444 x 254 mm) engraving area.
- **Resolutions**: User-controlled from 100 to 1000 dpi.
- **X-Axis Bearings**: Shielded roller bearing assembly on a ceramic-coated aluminum guide rail.
- **Super-Silent Cooling Fans**: 20, 28, 34, or 53 dB, low, medium, or high operation.
- **Vacuum Table**: 2" (51 mm) focus lens, relocatable position, permanent job save with 10, 2 MB output port, 4" (102 mm) in diameter.
- **Computer Control System**: Laser Dashboard™, Epilog Job Manager™.
- **Waveguide tube**: 10.6 micrometers.
- **CO2, air-cooled, includes collimator. 1065 nm laser wavelength.
- **Gross Weight**: 30 and 40 watts, CO2, air-cooled, all-metal Waveguide tube, 10.6 micrometers.
- **Operating Modes**: Optimized Raster, Vector and Combined mode.
- **Intelligent Memory Buffer**: Store multiple files up to 64 MB.
- **Rolling buffer allows files of any size to be engraved.
- **Computer controlled speed and power in 1% increments to 100%.
- **Color mapping links Speed, Power, Frequency, and Raster/Vector mode settings to any RGB color.
- **Powerful 2.25 GigaFLOPS processor with 128 GB embedded RAM.
- **Waveguide tube**: 10.6 micrometers.
- **CO2, air-cooled, includes collimator. 1065 nm laser wavelength.
- **Gross Weight**: 30, 40, 50, 60, 75, or 120-watt, CO2, air-cooled, all-metal Waveguide tube, 10.6 micrometers.

### Epilog Fusion Laser Series
- **Laser Tube Wattages**: 30, 40, 50, 60, 75, or 120-watt, CO2, air-cooled, all-metal Waveguide tube, 10.6 micrometers.
- **Max Material Thickness**: 4.5" (114 mm) 7.75" (197 mm) 4" (102 mm). Remove table for 6" (152 mm) depth and 17.5" x 10" (444 x 254 mm) engraving area.
- **Resolutions**: User-controlled from 100 to 1000 dpi.
- **X-Axis Bearings**: Shielded roller bearing assembly on a ceramic-coated aluminum guide rail.
- **Super-Silent Cooling Fans**: 20, 28, 34, or 53 dB, low, medium, or high operation.
- **Vacuum Table**: 2" (51 mm) focus lens, relocatable position, permanent job save with 10, 2 MB output port, 4" (102 mm) in diameter.
- **Computer Control System**: Laser Dashboard™, Epilog Job Manager™.
- **Waveguide tube**: 10.6 micrometers.
- **CO2, air-cooled, includes collimator. 1065 nm laser wavelength.
- **Gross Weight**: 30, 40, 50, 60, 75, or 120-watt, CO2, air-cooled, all-metal Waveguide tube, 10.6 micrometers.

### Laser System Classification
- **Class 1 Laser Product**: 1 kW CW WAVE 800-700
- **Class 2 Laser Product**: 1 kW CW WAVE 800-700
- **Class 3 Laser Product**: 1 kW CW WAVE 800-700

### Technical Specifications and Product Configurations

- **Technical specifications and product configurations subject to change without notice.**
- **For system pricing information and to set up your personal demonstration, call your local distributor.**
- **Maximum Airflow Area**: 16" x 12" (406 x 305 mm)
- **Maximum Airflow Area**: 20" x 12" (508 x 305 mm)
- **Maximum Airflow Area**: 24" x 18" (600 x 467 mm)
- **Maximum Airflow Area**: 20" x 12" (508 x 305 mm)
- **Maximum Airflow Area**: 24" x 18" (600 x 467 mm)
- **Maximum Airflow Area**: 33.32" (845 mm) w/stand
- **Maximum Airflow Area**: 40" (1016 mm) x 35" (889 mm)
- **Maximum Airflow Area**: 680 CFM (1182 m<sup>3</sup>/hr) external exhaust to the outside or internal filtration unit is required. There are two output ports, 4" (102 mm) in diameter.

### Laser Tube Wattages

- **Average Efficacy**: 3250 Watt @ 320Ar (3% CO2, 97% Ar)
- **Laser Diode Power**: 800 mW-1 W CW
- **Laser Diode Power**: 700 mW-1 W CW
- **Laser Diode Power**: 550 mW-1 W CW
- **Laser Diode Power**: 400 mW-1 W CW
- **Laser Diode Power**: 200 mW-1 W CW

### Laser System Classification

- **Class 1 Laser Product**: 1 kW CW WAVE 800-700
- **Class 2 Laser Product**: 1 kW CW WAVE 800-700
- **Class 3 Laser Product**: 1 kW CW WAVE 800-700
Outstanding Customer Support
Before, During and After the Sale

Technical Support Team
Epilog’s tech support staff is by far the best in the industry. When you call or email our support team, one of our trained and experienced technicians will get you up and running as quickly as possible. We even have a live-chat feature so you can get help troubleshooting right at your computer. Known for being exceptionally professional and knowledgeable, our technical support staff is the best in the business.

Laser Focus Newsletter
As an Epilog Laser owner you will begin to receive our popular Laser Focus newsletter filled with company news, stories about successful customers, and how-to and project articles.

Virtual Training Suite
When you purchase an Epilog Laser system, you automatically gain access to our comprehensive online Virtual Training Suite. Here you’ll find videos, demonstrations and simple project guidelines and instructions to help you get started with your laser.

Sample Club - Downloadable Project Files
Need an idea for a new product offering or project? Check out Epilog’s Sample Club! Each month we add new projects Epilog owners can download for free! We provide the file, instructions and settings. Whether you use these ideas on their own or they spark another creative project, the Sample Club provides over 100 projects to inspire our customers.
For system pricing information and to schedule your personal demonstration, contact your local distributor.