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LASER CUTTING AND ENGRAVING SYSTEMS CO2 and Fiber Laser Systems imagine design create

In 1988 Epilog Laser became the very fi st 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 fi sts 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.



🚯 QUALITY Our engineers utilize only the highestquality parts and components to manufacture systems that last.

🛃 DESIGN All Epilog Laser systems are designed

in the United States by engineers dedicated to putting out the best product available.

🔀 SERVICE If something does go wrong, we're there to support you with the industry's best technical support.



The Leader in Engineering

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.**

MADEINUSA



"The heart of our company is our people. The soul of our company is our customers. The core of our company is our engineering."

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Mike Dean - Mr. Epilog

Epilog CO2 Laser Systems

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 d termined primarily by what materials you need to mark. While a fiber laser will ma k 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.



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.



Engrave

Cut

Wood	•
Acrylic	•
Glass	•
Coated metals	•
Ceramics	•
Delrin	•
Cloth	•
Leather	•
Marble	•
Matboard	•
Melamine	•
Paper	•
Mylar	•
Pressboard	•
Rubber	•
Wood veneer	•
Fiberglass	•
Painted metals	•
Tile	•
Plastic	•
Cork	•
Corian	•
Anodized aluminum	•
Twill	•
Stainless steel	*
Brass	*
Titanium	*
Bare metal	*

* 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 Sourc

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

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



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

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Epilog Fiber Laser Systems

CHECK OUT EPILOG'S METAL ETCHING

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 flyi g-optic design, the fi er 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, CoreIDRAW and Illustrator.

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Benefits of a Fiber Laser Sourc

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

AmeriPharm

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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 fi st launched the FiberMark in 2007, we were proud to introduce the world's fi st flying-optic design incorporating a fiber laser sou ce. Operating at a wavelength of 1064 nanometers, our fiber laser sys ems 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.

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 sys ems, 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.

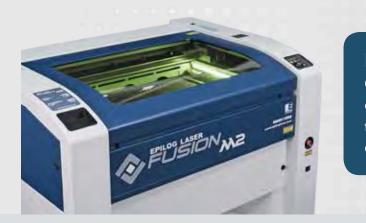
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2) Easier Software Integration

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

Compatible Materials

7-4 PH stainless steel
03 stainless
043 steel
061 aluminum
BS (black/white)
luminum, 6061
luminum, yellow chromate
ayer 2807 Makrolon polycarbonate
ayers bayblend FR110
lack/white ABS
lack/white polycarbonate
rass
rushed aluminum
arbon fibe
arbon nanotube
eramics



3) Ability to Create Custom Marks

We've designed our fiber laser sys ems 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 me t 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.

Ceramics, metal-plated Clear coat anodized aluminum Cobalt chrome steel Colored Delrin (black/brown)

Copper

121-R

- Compacted powder iron with ironphosphate coating DAP- Diallyl Phthalate Delrin, colored (black/brown) GE Plastics polycarbonate resin
- Glass filled PEE Glass filled eflo Hard coat anodized aluminum Inconel metals (various) Machine tool steel

Magnesium Makrolon Metal-plated ceramics Molybdenum Nickel-plated 1215 mild steel Nickel-plated brass Nickel-plated gold **Nickel-plated Kovar** Nickel-plated steel Nylon PEEK, white **Polybutylene Terephthalate** Polycarbonate, (black/white) Polycarbonate resin 121-R Polycarbonate, Bayer 2807 Polysulfone

Rynite PET Santoprene Silicon carbide Silicon steel Silicon wafers Stainless steel 303 Stainless steel 17-4 PH Steel 4043 Steel, machine tool Various inconel metals (nickelchromium super alloys) White PEEK Yellow chromate aluminum Zinc plated mild steel And many more!

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 fibe laser, the M2 can meet both needs in one laser system.

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.

What Will You Create?

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Business Opportunities

Electronics Engraving Wood Engraving & Cutting Marble & Stone Etching **Glass Etching Corporate Giveaways** Laptop Customization Acrylic & Wood Signage Wedding Memorabilia Nameplates & Desksets Appliqués 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 Identificatio Medical Part Marking Etched Business Cards** Wine Bottle Etching Phone Customization Photo Etching **Holiday Ornaments Cloth Etching** Paper Invitations **Sporting Goods** Memorials **Home Decor** Marble Flooring Cabinetry **Product Marking** Industrial Etching And much more!



Epilog Job Manager: Taking Job Organization to New Levels

Available for our entire product line, we've designed the Epilog Job Manager to help you improve workfl w, speed up throughput and handle the most advanced project management needs. From one easy-to-use software application, you can access any job you have sent to the laser, view the settings you used on any past job, re-run projects, access your material database, and organize your jobs into folders and subfolders.

• Print	 Settings Import 	 Organize
Save	Move	Preview
• Edit	Search	And Muc

ch More!

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 e vironment.

Design Your Project in the Software of Your Choice

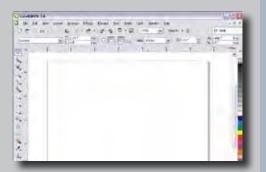
We've designed our lasers to work with the best graphic design program available - the one you're already using! Our open-architecture software design allows you to use almost any Windows®-based software to design your projects, so you're spending your time learning to engrave and cut, not learning new software. CoreIDRAW, 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
- 3D Mode

How to Create a Project



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.



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!



Add Text

Add any text you want to include and finish our design just like you would if printing the image to paper.



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.



- Stamp Mode
- Color Mapping
- Auto Focus
- Vector Sorting
- Firmware updates
- Center-Center Engraving
- Photo dithering patterns
- Saved material settings



And Start Engraving

Select your file at the lase , put your engraving material in the machine, shut the door, and press GO. The laser will do the rest!



Epilog Zing Starter Series





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.

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.

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 a fordable 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?

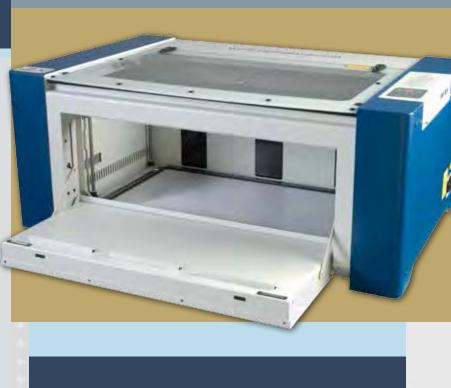
A: Yes! Personalization and customization of products is in high demand and adds amazing value to any product you create.

Q: How difficult is it o 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.



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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 highresolution 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 qualit, 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 Starter Series

Zing Series Features

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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.



Air Assist Curtain

By directing a constant stream of compressed air across the cutting surface, the possibility of flaming, scorching 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.

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 highquality 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.



Crystal Clear[™] Optics System

If any part of the laser system becomes contaminated through use, none of the other parts can work properly. With this in mind, we designed the Crystal Clear™ Optics System to ensure years of exceptional performance.

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.



Zing 24 Rotary Attachment

Engrave wine bottles, mugs, glasses, flashlights or a y 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.



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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, orkshop or school.

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 fi er laser system and is the fi st flyi g-optic fibe 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.

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• 24" x 12" x 5.5" (610 x 305 x 140 mm) engraving area.

Legend Series Features

CO2 Waveguide Laser Tubes: Long-lasting, all-m Fiber Laser Source: Etches directly into bare me High-Speed Servo Motors: Faster servo motors t Laser Dashboard™: Our print driver where you c Linear Encoders: Highest-quality engraving from Metal Bearings: Stainless steel bearings design Kevlar Belts: Our precision drive belts are made Made-in-the-USA Quality: Designed, engineered Project Management Software: Epilog Job Mana Raster/Vector Color Mapping: Change your spee Air Assist: Remove heat and combustible gases Auto Focus: Automatically focus the engraving t 3D and Stamp Engraving Settings: Etch and cut Networking Choices: USB and Ethernet connection Lenses Rated to 500 Watts: Highest-quality len Moveable Home Position: Engrave oddly-shaped Red Dot Pointer: Provides a visible laser beam t **Compatibility with Rotary Attachment: Engrave** Integrated Vector Cutting Grid: Lifts the piece be Integrated Vacuum Table: Holds down thin shee Super-Silent[™] Cooling Fans: Quiet operation by Permanent Job Storage: Store as many as 10 jo Job Delete at the Laser: Delete old jobs to keep Vector Table Crumb Tray: Easily dispose of debri Easy-Access Drop-Down Door: Front access door Radiance[™] Beam Enhancing Optics: Higher-reso Easy-Access Storage Stand: Wheeled, free-stand

Radiance™ High-Resolution Optics

Our Radiance™ High-Resolution Optics help us 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:

- entire table.
- X and Y directions, providing crisper, more consistent engraving and cutting results.
- that maintains a uniform shape over long distances.

		Den				
	Mini 18	Mi _{ni} 24	Helix	ark 24		
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that provide high-resolution engraving.	•	•	•	•		
can choose from many engraving features.	•	•	•	•		
n the most precise motion control system.	•	•	•	•		
ed to last the life of the machine.	•	•	•	•		
e from B-style Kevlar for superior longevity.	•	•	•	•		
and built in Golden, CO.	•	•	•	•		
ager software - easily organize, edit, save and print.	•	•	•	•		
ed and power by using color settings.	•	•	•	•		
from the cutting surface.	•	•	•	•		
table to the correct focal distance.	•	•	•			
stamps or create 3D curves on your engraving.	•	•	•			
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nses provide long life and higher resolutions.	•	•	•			
d items easily by setting a new home position.	•	•	•	•		
to help position your projects.	•	•	•	•		
cylindrical objects with the optional rotary.	•	•	•	•		
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olution optics for detailed engraving.		•	•			
ding cart for easier access.			•	•		

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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

• Rounder spot size: A laser spot that is as close to circular as possible produces laser characteristics that are the same in both the

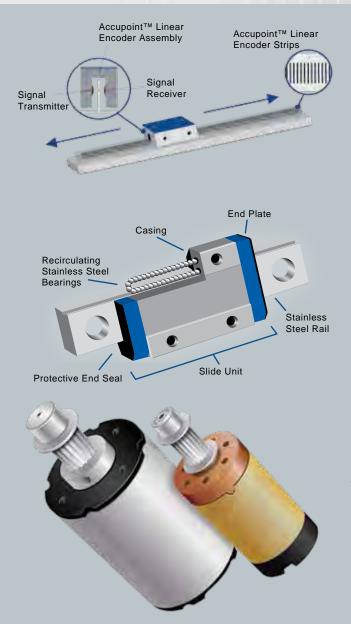
Less Divergence: Radiance technology straightens the diverging beam and stops it from spreading. This produces a laser beam

Epilog Legend Laser Series

Legend Series Accessories

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 fi ing 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. Closedloop, DC servo motors are known for their incredibly fast acceleration and deceleration speeds, as well as their ability to operate without the cogging 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.

Components of the Accupoint System

Air Compressor

Rotary Attachment

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.

This high-quality air compressor unit feeds 30 psi of air through the Air Assist structure, giving you the best cutting results available. The rubber, vibration-dampening feet reduce the noise level of the compressor.

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.

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

Designed for ease of use, you can quickly engrave a glass, move to a wine bottle, then to a vase without removing the attachment. Place your item on the rotary and start engraving!







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 focused 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-sou ce configurations and is outfilled 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-sou ce 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 smallformat laser system. The premier motion control also provides the fastest cutting on thin materials with improvements in cutting speeds up to 150% 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.

Fusion Series Features

Dual Source Capabilities: Optional CO2 and Fiber Made-in-the-USA Quality: Designed, engineered ar Laser Dashboard™: Our print driver where you car Mac® and PC Drivers: Print to the laser directly fro Joystick Controls: Move the laser head and run the Epilog Control Center™: Settings manager including Large Tempered Glass Door: Oversized door for be LED Lighting: Bright LED lighting inside the machi Strong Steel Chassis: 10x more rigid than any of c Rotary Encoders: Extremely accurate at 16,000 cd Self-Lubricating Bearings: Stainless steel bearings Precision Drive Belts: Strong drive belts with Kevl Pneumatic Assist Crash Bar: Protects x-axis from Waveguide Laser Tubes: Long lasting, all-metal tu Advanced Vector Controls: Adjust power compensation Laminar Air Flow: Streamlined air fl w for the mos High-Speed, Brushless DC Servo Motors: Withstan Raster/Vector Color Mapping: Change your speed Air Assist: Remove heat and combustible gases fr 3D and Stamp Engraving Settings: Etch and cut st **Networking Choices: USB and Ethernet connection** Lenses Rated to 500 Watts: Highest-quality lense Moveable Home Position: Engrave oddly-shaped it Red Dot Pointer: Provides a visible laser beam to Project Management Software: Epilog Job Manage Super-Silent[™] Cooling Fans: Quiet operation by re Job Delete at the Laser: Delete old jobs to keep vo Easy-Access Drop-Down Door: Front access door for Removable Back Exhaust Panel: Provides easy cle Radiance[™] Beam Enhancing Optics: Higher resolution Easy-Access Storage Stand: Wheeled, free-standing **Emergency Stop Button: Stop the laser immediate**



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 f om the control panel! Additionally, this user-friendly control allows you to quickly and easily access all of the menu functions within the laser.

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!

	Fusion M2 32	Fusion 40
laser sources in one system.	•	1 401011 40
nd built in Golden, CO.	•	•
n choose from many engraving features.	•	•
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user error if table rises too high.	•	•
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sation and speed for highest cutting quality.	•	•
est efficient smo e and vapor removal.	•	•
nds the most rigorous engraving jobs at high speeds.	•	•
l and power by using color settings.	•	•
rom the cutting surface.	•	•
tamps or create 3D curves on your engraving.	•	•
ns, or connect wirelessly with a router.	•	•
es provide long life and higher resolutions.	•	•
items easily by setting a new home position.	•	•
help position your projects.	•	•
ger™ - easily organize, edit, save and print.	•	•
educing time fans are turned on.	•	•
our laser job queue organized.	•	•
for the laser system.	•	•
eaning of the exhaust plenum.	•	•
ution optics for detailed engraving.	•	•
ng cart for easier movement.	•	•
ely with this front-positioned button.	•	•

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 pa ts 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 t o 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, hoose between a 50, 60 or 75-watt CO2 laser and match it with a 20, 30 or 50-watt fiber lase . 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 avelength 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 generalpurpose 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, noncylindrical 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

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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. dditionally, 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

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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

Epilog Legend Laser Series









		zing -						FUSION		
	Epilog Zing 16 Laser	Epilog Zing 24 Laser	Epilog Mini 18 Laser	Epilog Mini 24 Laser	Epilog Helix Laser	Epilog FiberMark 24		Epilog Fusion M2 32 (CO2)	Epilog Fusion M2 32 (Fiber)	Epilog Fusion 40 Laser
Maximum Engraving Area	16" x 12" (406 x 305 mm)	24" x 12" (610 x 305 mm)	18 " x 12 " (457 x 305 mm)	24" x 12" (610 x 305 mm)	24" x 18" (610 x 457 mm)	24" x 12" (610 x 305 mm)		32" x 20" (812 x 508 mm)		40" X 28" (1016 X 711 mm)
Max Material Thickness	4.5" (114 mm)		4″ (102 mm). Remove table for (152 mm) depth and 17.5″ x 10 (444 x 254 mm) engraving area	" 8" (203 mm) depth and 23.5" x	for 11" (279 mm) depth and	5.0″ (127 mm)		13.5 (342 mm) (2" lens) Dual Source 12.5" (318 mm) (3" lens)	12.5" (318 mm) (3" lens)	13.25" (336 mm)
Laser Tube Wattages	30 and 40-watt, CO2, air-cooled, all-metal Waveguide tube, 10.6 micrometers.	30, 40, 50 and 60-watt, CO2, air-cooled, all-metal Waveguide tube, 10.6 micrometers.	30 and 40-watts, CO2, air-coole all-metal Waveguide tube, 10.6 micrometers.	d, 30, 40, 50, and 60-watts, CO2, air	r- 30, 40, 50, 60, and 75-watts,	20, 30, or 50-watt, Fiber Laser. Air cooled, includes collimator. 1065 nm. Beam quality: M2 < 1.1.		30, 40, 50, 60, 75, or 120-watt, CO2, air-cooled, all-metal Waveguide tube, 10.6 micrometers.	20, 30, or 50-watt, Fiber Laser. Air cooled, includes collimator. 1064 nm. Beam quality: M2 < 1.1.	30, 40, 50, 60, 75, or 120-watt, CO2, air- metal Waveguide tube, 10.6 micrometers
Standard Features	Air Assist, motorized table, Red Dot Pointer, 2" (51 mm) focus lens, relocatable home, Laser Dashboard, shielded roller bearing assembly, Super-Silent Cooling Fans.	Zing 16 features, plus Radiance High-Definition Optics, easy access drop-down door, laser head parking, Super- Silent Cooling Fans.	Air Assist, Auto Focus, Red Dot Pointer, Integrated Vector Grid & Vacuum Table, 2" (51 mm) focu lens, relocatable home position permanent job save with 10, 2 f files, eas -access drop-down do Super-Silent Cooling Fans.	sPointer, Integrated Vector Grid & Vacuum Table, 2" (51 mm) focusMBlens, relocatable home position,	Optics, Air Assist, Auto Focus, Red Dot Pointer, Integrated Vector Grid & Vacuum Table, 2" (51 mm) focus lens, relocatable B home position, permanent	Relocatable home position, variable focus control, work table of .05" (12.7 mm) tool plate with integrated vacuum hold-down capability, internal LED lighting, front and top access doors.		brushless servo motors, Super-Silent (Dual Source Fusion M2 32	Assist, ed Dot Pointer, relocatable ho Cooling Fans, joystick controls, removal or 75-watt CO2 and 20, 30 or 50-watt	
Print Driver & Software	Laser Dashboard™, Epilog Job Manager™.		Laser Dashboard™, Epilog Job N	lanager™.				Laser Dashboard™, Epilog Control Cer	nter™, Epilog Job Manager™.	
Intelligent Memory Buffer	Store multiple files up o 64 MB. Rolling buffer al	lows files of a y size to be engraved.	Store multiple files up o 64 MB	. Rolling buffer allows files of a y size to b	be engraved.		16.	Store multiple files up o 128 MB. Rol	ling buffer allows files of a y size to be	engraved.
Operating Modes	Optimized Raster, Vector and Combined mode.		Optimized Raster, Vector and Co	ombined mode.			61 A D	Optimized Raster, Vector and Combined mode.		
Motion Control System	High-speed micro stepper motors.		High-speed, continuous-loop, DC	High-speed, continuous-loop, DC servomotors using linear and rotary encoding technology for precise positioning.			High-speed, continuous-loop, brushles	ss DC servomotors using rotary encodin	ng technology for precise positioning.	
X-Axis Bearings	Shielded roller bearing assembly on a ceramic-co	bated aluminum guide rail.	Ground and polished stainless s	Ground and polished stainless steel long-lasting bearing system.						
Belts	Advanced B-style Kevlar belts.		Advanced B-style double-wide K	Advanced B-style double-wide Kevlar precision drive belts.				Advanced B-style Kevlar belts (x-axis) steel cord (y-axis).		
Resolution	User-controlled from 100 to 1000 dpi.		User controlled from 75 to 1200) dpi.			4.8.2	User-controlled from 75 to 1200 dpi.		
Speed and Power Control (engraving depth)		Computer controlled speed and power in 1% increments to 100%. Color mapping feature links Speed, Power, Frequency, and Raster/Vector mode settings to any RGB color.		power in 1% increments to 100%. Color r , and Air Assist On/Off settings to any RG		,		Computer controlled speed and powe Vector mode settings to any RGB colo		oping links Speed, Power, Frequency, Focus, an
Print Interface	10Base-T Ethernet or USB connection. Compatible with Windows XP/Vista/7/8.		10Base-T Ethernet or USB conne	10Base-T Ethernet or USB connection. Compatible with Windows XP/Vista/7/8.			323	10Base-T Ethernet or USB connection	. Compatible with Windows XP/Vista/7	7/8 and Mac OS X 10.7 and up.
Size (W x D x H)	28.75" x 22.125" x 11.75" (W x D x H) (730 x 562 x 298 mm)	38" x 27.25" x 15" (W x D x H) (965 x 692 x 381 mm)	27.8" x 26" x 13.5" (W x D x H) (706 x 660 x 343 mm)	34.5" x 26" x 16" (W x D x H) (876 x 660 x 406 mm)	36.5" x 32" x 39.8" (W x D x H) (927 x 813 x 1011 mm)	34.5" x 24.5" x 16" (W x D x H) (876 x 622 x 406 mm)		52.5" x 35.5" x 40.75" (W x D x H) (1: 34.25" (870 mm) deep with Exhaust I	,	60.5" x 41.25" x 42.25" (W x D x H) (153 1073 mm) 43" (1092 mm) deep with Ext
Weight	95 lbs. (43 kg)	140 lbs. (64 kg)	70 lbs. (32 kg) -	90 lbs. (41 kg) -	180 lbs. max (82 kg)	120 lbs. (55 kg) without stand	0.00	500 lbs. (227 kg)	500 lbs. (227 kg)	643 lbs. (292 kg)
			100 lbs. (45.5 kg) w/stand	120 lbs. (55 kg) w/stand				Dual Source 536 lbs. (243 kg)		
Electrical Requirements	Auto-switching power supply accommodates 110 to			commodates 110 to 240 volts, 50 or 60 H			de-bri	Auto-switching 110 to 240 volts, 50 or 60		
Ventilation System	350 - 400 CFM (595 - 680 m ³ /hr) external exhau one output port, 4" (102 mm) in diameter.	st to the outside or internal filtration unit is required. There is	350 - 400 CFM (595 - 680 m³/h mm) in diameter.	r) external exhaust to the outside or inter	nal filtration unit is required. There	is one output po t, 4″ (102		650 CFM (1104 m ³ /hr) external exhaust to the outside or internal filtration unit is required. There are t o output ports, 4" (diameter.		
Laser System Classification	Class 2 Laser Product - 1 mW CW MAXIMUM 600	0-700 nm	Class 2 Laser Product - 1 mW CW MAXIMUM 600-700 nm			Class 2 Laser Product - 1 mW CW MAXIMUM 600-700 nm				

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Epilog Fusion Laser Series

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and Raster/		
537 x 1048 x		
xhaust.		
" (102 mm) in		



Outstanding Customer Support Before, During and After the Sale

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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. Epilog Laser 16371 Table Mountain Parkway Golden, CO 80403 (+1) 303.277.1188 888.437.4564 sales@epiloglaser.com www.epiloglaser.com

epiloglaser.com MADEINUSA



For system pricing information and to schedule your personal demonstration, contact your local distributor.