



MADE IN USA
www.epiloglaser.com



LASER CUTTING AND ENGRAVING SYSTEMS

imagine | design | create

Changing What You Expect From a Laser

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 name in small-format laser systems.

Explore our laser brochure to learn more about our 100% 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.

The Leader in Engineering

MADE IN USA



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

We are an engineering company at our core. Every aspect of our laser systems are designed and engineered for excellence.

We build our laser systems to last. Put our systems to the test by running the most detailed graphics at the highest speeds. Shake our chassis and feel how rigid it is. Bring in your most diligent engineer and let them be impressed.

Since 1988, when we manufactured the very first small-format laser engraving system, we have been known throughout the world as the leader in laser system design and engineering. In fact, our pioneering technology and innovative solutions are at the core of most lasers currently on the market. From our system speed, to the engraving quality, to the long life of our machinery, you won't find a better built machine on the market.

What is a CO2 Laser System?

The best way to describe how our lasers work is to compare the system to your printer. Using similar technology, we take the images you typically print to paper, but instead we fire a CO2 laser beam that engraves and cuts your design on a wide variety of materials.

We've designed our systems to be the safest, easiest-to-use machinery on the market. Additionally, all of our systems are interlocked for safety and can be used in any environment - from the shop floor, to the office, even in your home.

Proud to be Made in the USA

In a time when products manufactured in the USA have become increasingly hard to find, Epilog Laser is proud to say that all of our laser systems are manufactured in our high-tech manufacturing facility located in the foothills of the Rocky Mountains in Golden, CO. From conception to completion, our systems are 100 percent USA-made.



What Will You Create?



Business Opportunities

- Electronics Engraving
- Wood Engraving & Cutting
- Marble & Stone Etching
- Glass Etching
- Corporate Giveaways
- Laptop & MP3 Player 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 Identification
- Medical Part Marking
- And much more!

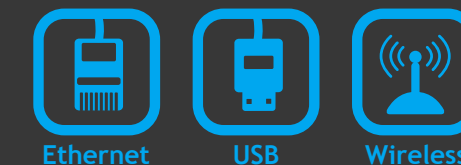
Materials

	Engrave	Cut
Wood	x	x
Acrylic	x	x
Glass	x	
Coated Metals	x	
Ceramics	x	
Delrin	x	x
Cloth	x	x
Leather	x	x
Marble	x	
Mat Board	x	x
Melamine	x	x
Paper	x	x
Mylar	x	x
Pressboard	x	x
Rubber	x	x
Wood Veneer	x	x
Fiberglass	x	x
Painted Metals	x	
Tile	x	
Plastic	x	x
Cork	x	x
Corian	x	x
Anodized Aluminum	x	
Twill	x	x
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.



Features Designed to Make Job Setup Quick and Easy



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 true 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

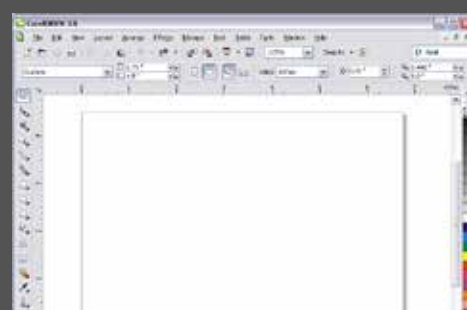
We've designed the lasers to work with the best graphic design program available - the one you're already using! Our open-architecture software design allows you to use almost any Windows®-based software to design your projects, so you're spending your time learning to engrave and cut, not learning new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

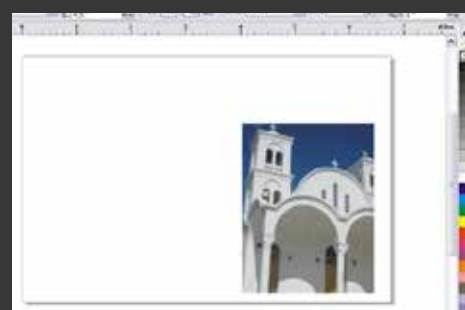
- Speed
- Power
- Resolution
- Color Mapping
- Stamp Creation
- 3D Engraving
- Photo Dithering Patterns
- Saved Material Settings
- Auto Focus
- Center-Center Engraving
- Vector Sorting Order
- Firmware Updates

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 your 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.



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!



Epilog Zing Starter Series



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 than 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 jig 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

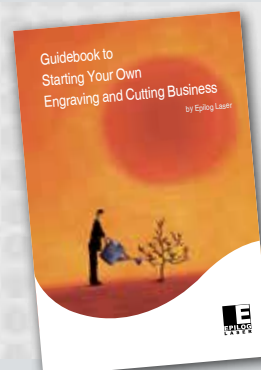
If you already use any graphic design software, you can be up and running on the Epilog Zing Laser in no time. Just install the print driver and start creating your projects!

- 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 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?

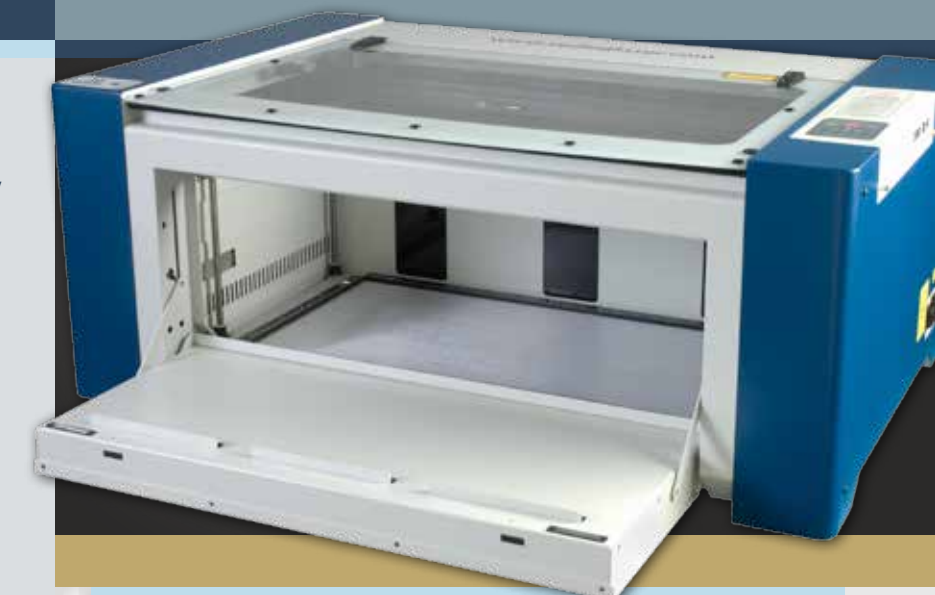
A: Yes! From wood to acrylic to marble to glass, just adjust your speed and power settings for the different materials you want to engrave.

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.
- 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 Starter Series

Epilog Zing Features

	Zing 16	Zing 24
Made-in-the-USA Quality: 100% designed, engineered, and built in Golden, CO.	x	x
Laser Dashboard™: Our print driver where you can choose from the Zing's many features.	x	x
Waveguide Laser Tubes: Long-lasting, all-metal tubes for the best engraving quality.	x	x
High-Speed Stepper Motors: Faster stepper motors that provide high-resolution engravings.	x	x
Raster/Vector Color Mapping: Change your speed and power by using color settings.	x	x
Air Assist Curtain: Remove heat and combustible gases from the cutting surface.	x	x
3D & Stamp Engraving Settings: Etch & cut stamps or create 3D effects on your engraving.	x	x
Networking Choices: USB and Ethernet connections, or connect wirelessly with a router.	x	x
Lenses Rated to 500 Watts: Highest-quality lenses provide long life and higher resolutions.	x	x
Moveable Home Position: Engrave oddly-shaped items easily by setting a new home position.	x	x
Red Dot Pointer: Provides a visible laser beam to help position your projects.	x	x
Super-Silent™ Cooling Fans: Quiet operation by reducing the time fans are turned on.	x	x
Radiance™ Beam Enhancing Optics: Higher-resolution optics for detailed engraving.		x
Easy-Access, Drop-Down Door: Front-access door for the laser system.		x
Compatibility with Rotary Attachment: Engrave glasses and mugs with the optional Rotary.		x



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.

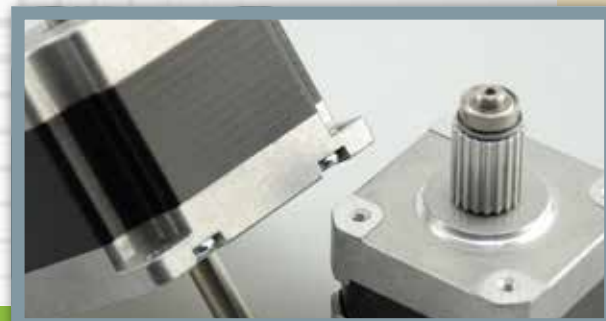


Waveguide Laser Tubes

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 made-in-the-USA Waveguide laser technology simply produces the best results.

Waveguide laser tubes:

- Produce the best beam quality in the industry.
- Have higher CO2 gas pressure.
- Operate with faster switching rates and a smaller bore.
- Are made of metal (not glass!) 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 highest quality engraving results that you've come to expect from all of Epilog's laser engraving and cutting systems.



Crystal Clear™ Optics System

If any part of the 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 system 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, 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

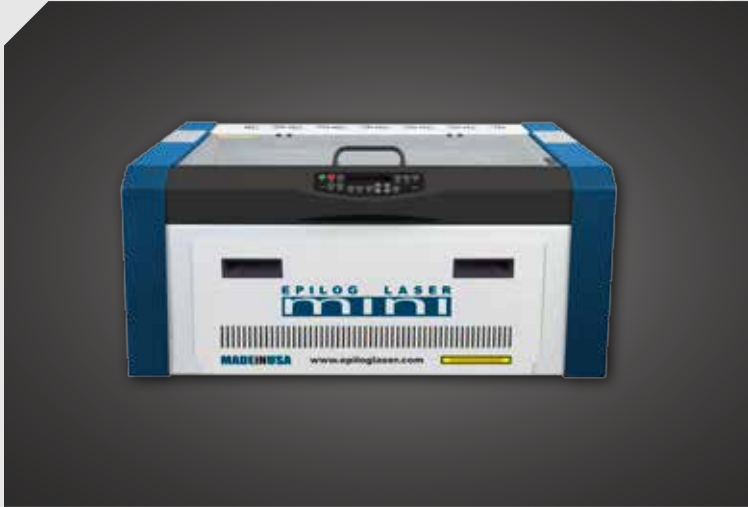
Attach Epilog's Air Compressor to the Air Assist Curtain to direct a constant stream of air over the work surface. This high-quality compressor ensures you get excellent cutting results every time you use your system. This air compressor unit feeds 30 psi (2.07 bar) of air through the Air Assist structure,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

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 Series Laser Systems



Epilog Mini 18 and Mini 24 Laser

Looking for a system that features the latest technology 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.
- Two Sizes:
 - Mini 18: 18" x 12" x 4" (457 x 305 x 102 mm)
 - Mini 24: 24" x 12" x 5.5" (610 x 305 x 140 mm)
- Mini 24 also features our Radiance™ High-Resolution Optics.

Epilog Helix Laser

For engravers looking to work with larger engraving pieces, the Epilog Helix is an ideal choice. The Helix's generous 24" x 18" x 8.5" (610 x 457 x 216 mm) engraving area will allow you to engrave multiple pieces as well as 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.



Epilog Legend 36EXT Laser



The Legend 36EXT is our top-of-the-line system in the Legend Series. With a robust design to tackle the most challenging projects, the 36EXT provides the highest quality engraving and cutting capabilities and features a large 36" x 24" x 14" (914 x 610 x 355 mm) work area.

- Permanent job storage of the jobs you access most often.
- Power choices up to 120 watts for the fastest engraving and deepest cutting capabilities.
- Robust, self-lubricating, stainless steel bearings
- Double-wide Kevlar belts.

Features of the Epilog Legend Series

	Mini 18	Mini 24	Helix	36EXT
Made-in-the-USA Quality: Designed, engineered, and built in Golden, CO.	x	x	x	x
Accupoint™ Motion Control: Firing the laser in the right place at the right time.	x	x	x	x
Laser Dashboard™: Our print driver where you can choose from many engraving features.	x	x	x	x
Linear Encoders: Highest quality engraving from the most precise motion control system.	x	x	x	x
Long-Lasting Bearings: Stainless steel bearings designed to last the life of the machine.	x	x	x	x
Fits Through Standard Door: Even the large format EXT fits through a standard doorway.	x	x	x	x
Kevlar Belts: Our precision drive belts are made from B-style Kevlar for superior life.	x	x	x	x
Waveguide Laser Tubes: Long lasting, all-metal tubes for the best engraving quality.	x	x	x	x
High-Speed Servo Motors: Faster servo motors that provide high resolution engraving.	x	x	x	x
Raster/Vector Color Mapping: Change your speed and power by using color settings.	x	x	x	x
Air Assist: Remove heat and combustible gases from the cutting surface.	x	x	x	x
Auto Focus: Automatically focus the engraving table to the correct focal distance.	x	x	x	x
3D & Stamp Engraving Settings: Etch & cut stamps or create 3D curves on your engraving.	x	x	x	x
Networking Choices: USB and Ethernet connections, or connect wirelessly with a router.	x	x	x	x
Lenses Rated to 500 Watts: Highest-quality lenses provide long life and higher resolutions.	x	x	x	x
Moveable Home Position: Engrave odd-shaped items easily by setting a new home position.	x	x	x	x
Red Dot Pointer: Provides a visible laser beam to help position your projects.	x	x	x	x
Compatibility with Rotary Attachment: Engrave glasses and mugs with the optional Rotary.	x	x	x	x
Integrated Vector Cutting Grid: Lifts the piece being cut to reduce back-side burning.	x	x	x	x
Integrated Vacuum Table: Holds down thin sheet stock.	x	x	x	x
Super-Silent™ Cooling Fans: Quiet operation by reducing time fans are turned on. **	x	x	x	x
Permanent Job Storage: Store the jobs you run most often at the laser (up to 10, 2 mb files)	x	x	x	x
Job Delete at the Laser: Delete old jobs to keep your laser job queue organized.	x	x	x	x
Vector Table Crumb Tray: Easily dispose of debris from under your Vector Cutting Grid.	x	x	x	x
Easy-Access Drop-Down Door: Front access door for the laser system.	x	x	x	
Radiance™ Beam Enhancing Optics: Higher resolution optics for detailed engraving.			x	x
Easy-Access Storage Stand: Included wheeled, free-standing cart for easier access.				x
Emergency Stop Button: Stop the laser immediately with this front-positioned button.				x
Inside Focus Button: With the door raised, easy access to focus the laser.				x
Brushless Servo Motors: Most robust servo motors that are available.				x
Self-Lubricating Bearings: Decrease maintenance with self-lubrication of the bearings.				x

**Super-Silent Cooling Fans not available with Legend EXT 120-watt configuration.

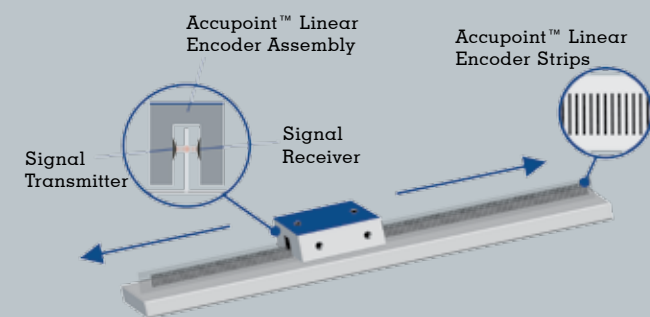
Radiance™ High-Resolution Optics

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. This set of optics dramatically reduces beam divergence and produces a laser beam that maintains its size and straightness across the entire engraving table.

- 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.
- Smaller spot size: A smaller spot size means you can produce finer detail in engraving and cutting applications.
- 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.
- Higher power density: When focused to a smaller spot, the beam's power density increases for more power in a smaller area, and a deeper, darker mark.

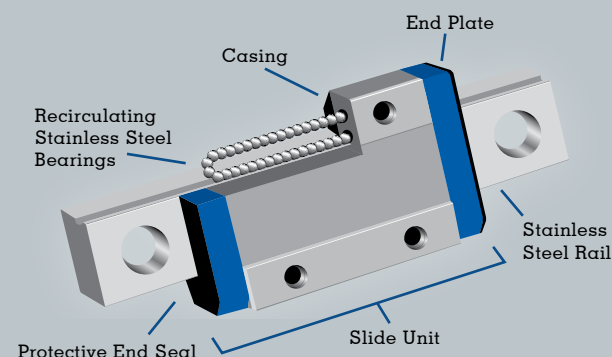
The Precision of the Accupoint™ Motion Control System

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 .00008" (.02 mm), which is the result of a special blend of high-quality components available only on 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.

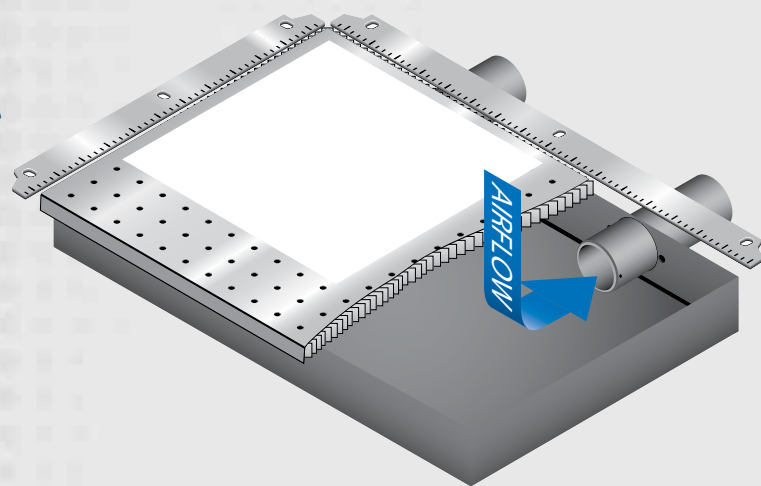


Servo Motors

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 cogging seen in less accurate motors.

Integrated Vector Cutting Grid and Vacuum Table

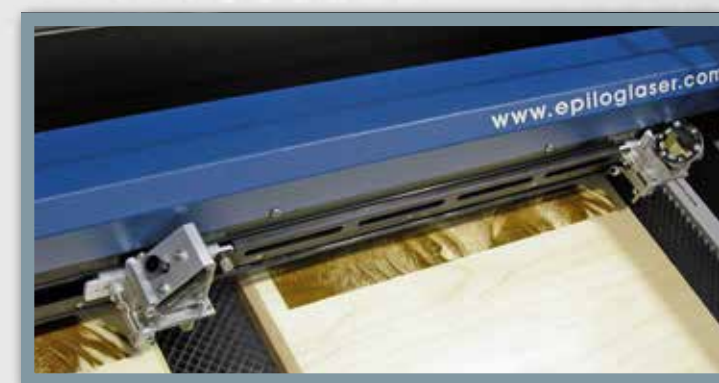
The Vector Cutting Grid is integrated into every Legend Series laser and is a robust 1" (25.4 mm) thick. Simply remove the Task Plate and place the Vector Cutting Grid in the system to dramatically reduce backside burning of the material being cut. The Vacuum Hold-Down Table uses the air from under your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



Rotary Attachment

This handy attachment gives you the ability to engrave mugs, bottles, glasses, flashlights, vases, 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!



Double Head Attachment (EXT Only)

Engrave two identical products at the same time by splitting the laser beam in two. With the large 36" x 24" x 14" (914 x 610 x 292 mm) work area of the Legend 36EXT, users are able to dramatically increase their engraving and cutting throughput with the Double Head Attachment.

Air Compressor

Available 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.

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 side cuts from your laser system.

Optional Lenses

1.5" Lens: High-Resolution Engraving

Although the standard 2.0 inch lens on the Legend Series provides amazing detail (including the stunning Aztec Calendar sample), our 1.5 inch lens assembly has been designed for the highest resolution engraving and etching of extremely small fonts.

4.0" Lens (Mini 24, Helix, and 36EXT)

The 4.0 inch 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.

Cone Lens (36EXT Only)

If you are cutting through thicker hardwoods and acrylics, the Cone Lens may be the right choice for you.

NEW

Epilog Fusion Laser



The New Epilog Fusion Laser

The newest addition to our product line, the Fusion Laser is outfitted with our new motion control system for higher speeds and the best edge quality when cutting. This will change what you expect from a laser!

We're excited for you to try out our premier laser with unmatched speeds and cutting quality!

- 32" x 20" x 14.25" (813 x 508 x 362 mm) engraving area.
- Power choices up to 75 watts.
- Exceptional flame polished edge cuts.
- Large viewing door with LED lighting.
- Robust table lifts 100 lbs (45.4 kg).

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!

Curved Glass Window with LED Lighting

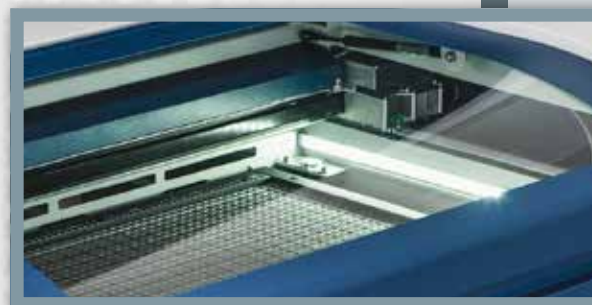
There is nothing better than watching the magic of the laser in action, so we've added a large, curved glass window and LED lit work area to allow you to see everything that is happening inside the laser system. The LED lighting will also assist you in setting up projects in even the darkest work areas.

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.

Features of the Epilog Fusion Laser

	Fusion
Made-in-the-USA Quality: Designed, engineered, and built in Golden, CO.	x
Epilog Control Center™: Job management software including job time estimator/recorder.	x
Laser Dashboard™: Our print driver where you can choose from many engraving features.	x
Epilog Control Center™: Job management software including job time estimator/recorder.	x
Joystick Controls: Move the laser head and run the laser directly from the control panel.	x
Large Tempered Glass Door: Oversized door for better viewing of the engraving project.	x
LED Lighting: Bright LED lighting inside the machine.	x
Strong Steel Chassis: 10x more rigid than any of our other systems.	x
Rotary Encoders: Extremely accurate at 16000 counts per revolution.	x
Self-Lubricating Bearings: Stainless steel bearings designed to last the life of the machine.	x
Precision Drive Belts: Strong drive belts with Kevlar on the x-axis and steel cord on the y-axis.	x
Pneumatic Assist Crash Bar: Protects x-axis from user error if table rises too high.	x
Waveguide Laser Tubes: Long lasting, all-metal tubes for the best engraving quality.	x
Advanced Vector Controls: Adjust power compensation and speed for highest cutting quality.	x
Laminar Air Flow: Streamlined air flow for the most efficient smoke and vapor removal.	x
High-Speed, Brushless DC Servo Motors: Withstands the most rigorous engraving jobs at high speeds.	x
Raster/Vector Color Mapping: Change your speed and power by using color settings.	x
Air Assist: Remove heat and combustible gases from the cutting surface.	x
3D & Stamp Engraving Settings: Etch & cut stamps or create 3D curves on your engraving.	x
Networking Choices: USB and Ethernet connections, or connect wirelessly with a router.	x
Lenses Rated to 500 Watts: Highest quality lenses provide long life and higher resolutions.	x
Moveable Home Position: Engrave odd-shaped items easily by setting a new home position.	x
Red Dot Pointer: Provides a visible laser beam to help position your projects.	x
Compatibility with Rotary Attachment: Engrave glasses and mugs with the optional Rotary.	x
Super-Silent™ Cooling Fans: Quiet operation by reducing time fans are turned on.	x
Job Delete at the Laser: Delete old jobs to keep your laser job queue organized.	x
Easy-Access Drop-Down Door: Front access door for the laser system.	x
Removable Back Exhaust Panel: Provides easy cleaning of the exhaust plenum.	x
Radiance™ Beam Enhancing Optics: Higher resolution optics for detailed engraving.	x
Easy-Access Storage Stand: Wheeled, free-standing cart for easier access.	x
Emergency Stop Button: Stop the laser immediately with this front-positioned button.	x



Joystick Control

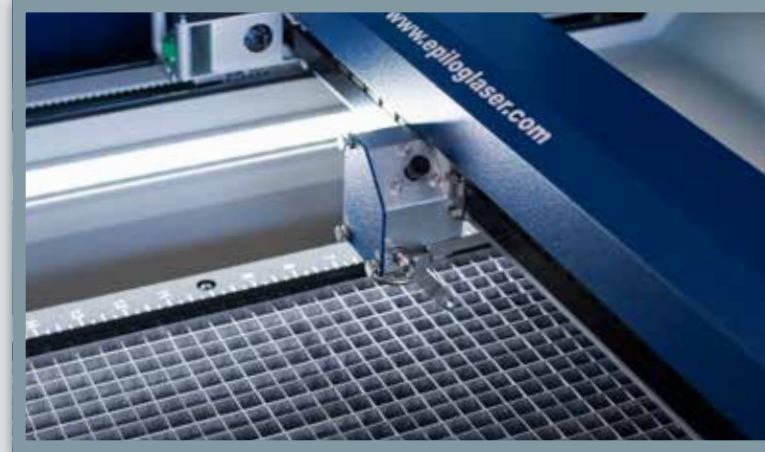
The Fusion's newly designed control panel puts the control of the laser in your hands - quite literally! The intuitive joystick control on the Fusion allows you to easily raise and lower the table, move and reset your home position, use the jog feature and much more. You can even fire the laser directly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

Press and Engrave!

Want to cut a piece of scrap material? It's never been easier than our Laser On 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!

Advanced Motion Control

The Fusion Laser's advanced motion control system is the result of years of development. The robust servo motors incorporate extremely accurate 16,000 count per revolution encoders - which equates to over 20,000 counts per inch for the X-motor. What does that mean for you? Higher-speed engraving, quicker-ramping speeds, and the highest-quality engraving and cutting.



Flame Polished Edge Cuts

By redesigning our motion control system, you can now achieve 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 150% on 1/8" (3 mm) wood!



Epilog Control Center™

For the most advanced project management, we've designed the Epilog Control Center™ to communicate with the laser bidirectionally. When you enable the ECC, you'll be able to use a job time estimator and recorder that will provide you with an estimated amount of time to run a job as well as saved jobs you've run in the past. You'll also be able to use interactive positioning features to set precise table coordinates and table height.



Temperature Sensor/Emergency Stop Button

Operator safety is a top priority at Epilog. That's why we've built a temperature sensor into the Fusion as well as including an emergency stop button. These built-in features not only help ensure the safety of your employees and work space, but also help protect the machine and increase its longevity.



Drop-Down Front Door

Parts placement in the Fusion Laser can be easily accomplished by placing the 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.

Accessories of the Epilog Fusion Laser

Rotary Attachment

Engrave cylindrical items, including glasses, mugs, vases, wine bottles and much more with our easy-to-use Rotary Attachment. Designed for usability, you can switch from one item to the next in seconds. The attachment easily adjusts for different lengths and will even rotate cylinders that have different diameters on each end.



Vector Grid

When cutting through materials add our gridded cutting table. By raising the materials you are cutting off the table you'll be able to reduce the back-side burning on the material.



Air Compressor

Available 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 side cuts from your laser system.

Optional Lenses

1.5" Lens: High-Resolution Engraving
For engraving small fonts and some high-resolution engraving.

4.0" Lens
Ideal when engraving within a recessed area of a product or for cutting thicker materials.

Cone Lens
For cutting through thicker hardwoods and acrylics.

Epilog Fiber Laser Series



A Different Wavelength for Metal Etching and Plastic Marking

Epilog also offers 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 plastic marking of engineered plastics. Operating at a wavelength of 1062 nm with a flying-optic design, the FiberMark Laser etches directly into metal and marks a wide variety of plastics with an incredibly simple interface that allows you to print to the laser from almost any Windows®-based software, including AutoCAD, BarTender, CorelDRAW and Illustrator.



The Epilog FiberMark 24 Laser

Our original FiberMark featuring a large work table and the ability to etch directly on metal and plastics.

- 24" x 12" x 5" (406 x 305 x 127 mm) work area.
- Power choices of 10 to 50 watts.
- 30% less expensive than a traditional YAG laser.
- Mark all types of metals and many plastics.



The Epilog FiberMark Fusion Laser

Larger work area and higher marking speeds make this laser a great choice for customers needing a larger work area and more throughput.

- 32" x 20" x 13.25" (812 x 508 x 336 mm) work area.
- Advanced laser vector marking capabilities.
- Higher marking speeds across the table.
- Large viewing door with LED lighting.
- Job Management Software with job time estimator/recorder and interactive positioning features.

FiberMark Technical Specifications

	FiberMark 24	FiberMark Fusion
Max Marking Area	24" x 12" (610 x 305 mm)	32" x 20" (812 x 508 mm)
Max Material Thickness	5.0" (127 mm)	13.25" (336 mm)
Standard Features	3" (76.2 mm) focus lens, relocatable home position, variable focus control, internal LED lighting, front and top access doors.	
Intelligent Memory Buffer	Store unlimited files up to 64 MB. Rolling buffer allows files of any size to be used.	
Operating Modes	Optimized raster, vector or combined raster/vector mode.	
Motion Control	High-speed, continuous loop, DC servomotors using linear and rotary encoding technology for precise positioning.	
X-Axis Bearings	Ground and polished stainless steel long-lasting bearing system.	
Belts	Doublewide Kevlar drive belts.	Doublewide Kevlar (x-axis) and Steel Core (y-axis) belts.
Resolution	User controlled choice from 75 to 1200 dpi.	
Speed/Power	Computer or machine controlled speed and power in 1% increments to 100%.	
Print Interface	10 Base-T Ethernet or USB Connection. Compatible with 32-bit and 64-bit Windows® XP / Vista / 7 / 8	
Size (W,D,H)	34.5" x 24.5" x 16" (876 x 622 x 406 mm)	52.5" x 33.5" x 40.75" (1334 x 851 x 1035 mm)
Electrical Requirements	Auto-switching power supply accommodates 110 to 240 volt, 50 or 60 Hz, single phase, 15 amp AC.	
Ventilation	External exhaust to the outside required via single 4 inch (101.6 mm) output port.	External exhaust to the outside required via two 4" inch (101.6 mm) output ports.
Laser Source Technical Specifications		
Laser Type	Solid State Pulsed Ytterbium (Yb) Fiber Laser (air cooled, includes collimator).	
Laser Power	10, 20, 30, or 50 watt pulsed	
Wavelength	1062 nm	
Mode of Operation	Pulsed 20-100 kHz	
Beam Quality	M2 < 1.1	
Focal Length	3" (76.2 mm)	



Create Multiple Marks with One Laser

Are you looking for a mirrored look to your metal etching? Or polished? Or annealed? With the FiberMark you can create each of these marks on metal by simply adjusting the speed, power, focus or frequency settings in the Laser Dashboard print driver.

High-Volume, Multi-Piece Parts Marking

Parts placement in the FiberMark can be easily accomplished by placing the part or tray of parts through the top window door, or through the hinged front-access door of the laser system. Both of these safety-interlocked doors provide fast and efficient parts placement and removal.



Receive a FiberMark Brochure

If you would like to see a full catalog on our FiberMark Laser Series along with engraved samples, visit www.epiloglaser.com/fibermark.

Epilog Zing Laser Series



	Epilog Zing 16 Laser	Epilog Zing 24 Laser
Maximum Engraving Area	16" x 12" (406 x 305 mm)	24" x 12" (610 x 305 mm)
Max Material Thickness	4.5" (114 mm)	7.75" (197 mm)
Laser Tube Wattages	30 and 40 watt, air-cooled all-metal Waveguide tube, 1062 micrometers.	30, 40, 50 and 60 watt, air-cooled all-metal Waveguide tube, 1062 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
Intelligent Memory Buffer	Store in a buffer unlimited files up to 64 MB. Rolling buffer allows files of any size to be engraved.	
Operating Modes	Optimized Raster, Vector and Combined mode.	
Motion Control System	High-speed micro stepper motors.	
X-Axis Bearings	Shielded roller bearing assembly on a ceramic-coated aluminum guide rail.	
Belts	Advanced B-style Kevlar Belts.	
Resolution	User-controlled from 100 to 1000 dpi.	
Speed and Power Control (engraving depth)	Color mapping feature links Speed, Power, Frequency, Focus, and Raster/Vector mode settings to any RGB color.	
Print Interface	10Base-T Ethernet or USB Connection. Compatible with Windows XP/Vista/7/8.	
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)
Weight	95 lbs. (43 kg)	140 lbs. (64 kg)
Electrical Requirements	Auto-switching power supply accommodates 110 to 240 volts, 50 or 60 Hz, single phase, 15 amp AC.	
Ventilation System	400 CFM (680 m ³ /hr) external exhaust to the outside or internal filtration unit is required. There is one output port, 4" (102 mm) in diameter.	
Laser System Classification	Class 2 Laser Product - 1 mW CW MAXIMUM 600-700 nm	

Epilog Legend Laser Series



	Epilog Mini 18 Laser	Epilog Mini 24 Laser	Epilog Helix Laser	Epilog Legend 36EXT
Maximum Engraving Area	18" x 12" (457 x 305 mm)	24" x 12" (610 x 305 mm)	24" x 18" (610 x 457 mm)	36" x 24" (914 x 610 mm)
Max Material Thickness	4" (102 mm). Remove Table for 6" (152 mm) depth and 17.5" x 10" (444 x 254 mm) engraving area.	5.5" (140 mm). Remove Table for 8" (203 mm) depth and 23.5" x 11.75" (597 x 298 mm) engraving area.	8.5" (216 mm). Remove table for 11" (279 mm) depth and 23.5" x 17" (597 x 432 mm) engraving area.	14" (355 mm) depth with table removed.
Laser Tube Wattages	30 and 40 watts, air-cooled all-metal Waveguide tube, 1062 micrometers.	30, 40, 50, and 60 watts, air-cooled all-metal Waveguide tube, 1062 micrometers.	30, 40, 50, 60, and 75 watts, air-cooled all-metal Waveguide tube, 1062 micrometers.	30, 40, 50, 60, 75, and 120 watts, air-cooled, all-metal Waveguide tube, 1062 micrometers.
Standard Features	Air Assist, Auto Focus, Red Dot Pointer, Integrated Vector Grid & Vacuum Table, 2" (51 mm) Focus Lens, Relocatable Home Position, Permanent Job Save with 10, 2 MB files, Easy-Access Drop-Down Door, Super-Silent Cooling Fans	Radiance™ High Definition Optics, Air Assist, Auto Focus, Red Dot Pointer, Integrated Vector Grid & Vacuum Table, 2" (51 mm) Focus Lens, Relocatable Home Position, Permanent Job Save with 10, 2 MB files, Easy-Access Drop-Down Door, Super-Silent Cooling Fans	Radiance™ High Definition Optics, Air Assist, Auto Focus, Red Dot Pointer, Integrated Vector Grid & Vacuum Table, 2" (51 mm) Focus Lens, Relocatable Home Position, Permanent Job Save with 10, 2 MB files, Easy-Access Drop-Down Door, Integrated Floor Stand, Super-Silent Cooling Fans	Radiance™ High Definition Optics., Air Assist, Auto Focus, Red Dot Pointer, Integrated Vector Grid & Vacuum Table, 2" (51 mm) Focus Lens, Relocatable Home Position, Permanent Job Save with 10, 2 MB files, each less than 2 MB, Integrated Floor Stand, Super-Silent Cooling Fans (except 120 watt)
Intelligent Memory Buffer	Store in a buffer unlimited files up to 64 MB. Rolling buffer allows files of any size to be engraved.			
Operating Modes	Optimized Raster, Vector and Combined mode.			
Motion Control System	High-speed, continuous-loop, DC servomotors using linear and rotary encoding technology for precise positioning.			High-speed, continuous-loop, brushless DC servomotors using linear and rotary encoding technology for precise positioning.
X-Axis Bearings	Ground and polished stainless steel Long-Lasting Bearing system.			Ground and polished stainless steel, self-lubricating, bearing system.
Belts	Advanced B-style double-wide Kevlar precision drive belts.			
Resolution	User controlled from 75 to 1200 dpi.			
Speed and Power Control (engraving depth)	Color mapping feature links Speed, Power, Frequency, Raster/Vector mode, and Air Assist On/Off settings to any RGB color.			
Print Interface	10Base-T Ethernet or USB Connection. Compatible with Windows XP/Vista/7/8.			
Size (W x D x H)	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)	50.5" x 36" x 42" (W x D x H) (1283 x 914 x 1067 mm)
Weight	70 lbs. (32 kg) - 100 lbs. (45.5 kg) w/stand	90 lbs. (41 kg) - 120 lbs. (55 kg) w/stand	180 lbs. max (82 kg)	440 lbs. max (199 kg)
Electrical Requirements	Auto-switching power supply accommodates 110 to 240 volts, 50 or 60 Hz, single phase, 15 amp AC.			
Ventilation System	400 CFM (680 m ³ /hr) external exhaust to the outside or internal filtration unit is required. There is one output port, 4" (102 mm) in diameter.		650 CFM (1104 m ³ /hr) external exhaust to the outside or internal filtration unit is required. There is one output port, 4" (102 mm) in diameter.	850 CFM (1360 m ³ /hr) external exhaust to the outside or internal filtration unit is required. There are two output ports, each 6" (152 mm) in diameter.
Laser System Classification	Class 2 Laser Product - 1 mW CW MAXIMUM 600-700 nm			

Epilog Fusion Laser Series



	Epilog Fusion Laser
Maximum Engraving Area	32" x 20" (812 x 508 mm)
Max Material Thickness	14.25" (361 mm)
Laser Tube Wattages	30, 40, 50, 60, or 75 watt, air-cooled all-metal Waveguide tube, 1062 micrometers.
Standard Features	Radiance™ High Definition Optics, Air Assist, Red Dot Pointer, 2" (51 mm) Focus Lens, Relocatable Home Position, LED Lighting, Integrated Floor Stand, Brushless Servo Motors, Super-Silent Cooling Fans, Joystick Controls, Removable Exhaust
Intelligent Memory Buffer	Store unlimited files up to 64 MB. Rolling buffer allows files of any size.
Operating Modes	Optimized Raster, Vector and Combined mode.
Motion Control System	High-speed, continuous-loop, brushless DC servomotors using linear and rotary encoding technology for precise positioning.
X-Axis Bearings	Long-Lasting Bearing system with self-lubricating bearings.
Belts	Advanced B-style Kevlar Belts (x-axis) Steel Cord (y-axis).
Resolution	User-controlled from 75 to 1200 dpi.
Speed and Power Control (engraving depth)	Color mapping links Speed, Power, Frequency, Focus, and Raster/Vector mode settings to any RGB color.
Print Interface	10Base-T Ethernet or USB Connection. Compatible with Windows XP/Vista/7/8.
Size (W x D x H)	52.5" x 33.5" x 40.75" (W x D x H) - 34.5" (876 mm) deep with Exhaust Plenum. (1334 x 851 x 1035 mm)
Weight	500 lbs. (227 kg)
Electrical Requirements	Auto-switching 110 to 240 volts, 50 or 60 Hz, single phase, 15 amp AC.
Ventilation System	650 CFM (1104 m ³ /hr) external exhaust to the outside or internal filtration unit is required. There are two output ports, 4" (102 mm) in diameter.
Laser System Classification	Class 2 Laser Product - 1 mW CW MAXIMUM 600-700 nm

Outstanding Customer Support

- Before, During and After the Sale

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.

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 around.

Sample Club

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 choose from.



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LASER RADIATION
DO NOT STARE INTO BEAM
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1 mW CW MAXIMUM 600-700 nm

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