



Epilog Laser

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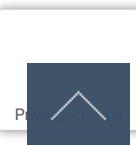
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EPILOG LASER

Epilog Legend Laser Series

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Epilog Legend Series - Mini 18, Mini 24, and Helix Laser Machines

The Legend Series features our versatile CO2 laser machines and is utilized by customers for the highest-quality engraving and cutting of wood, acrylics, plastics, stone, and much more.

- **Legend Mini 18:** 18" x 12" (457 x 305 mm)
- **Legend Mini 24:** 24" x 12" (610 x 305 mm)

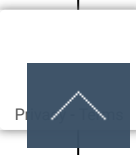


- **Legend Helix:** 24" x 18" (610 x 457 mm)

Learn more about why the Legend Series, from our small format Epilog Mini 18 to our popular Helix Laser, is the number one choice for engravers worldwide. With the high-quality motion control system and the most included user-friendly features on the market - the Legend Series consists of the best laser machines to meet your entrepreneurial and startup goals.

And we're proud to say the Legend Lasers are 100% designed, engineered and built in the USA!

Legend Series Laser Machine Tour



Request Information

Features of Epilog's Legend Laser Machines

You simply won't find more feature-filled laser machines than those in the Legend series. Each feature has been designed with you in mind, and how you can get the most from the laser. You'll find features that improve connection capabilities, simplify project setup, and much more.





Made-in-the-USA Quality

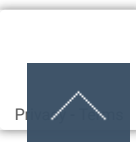
We design, engineer and manufacture all of our laser systems in our headquarters in Golden, CO, USA.





Accupoint™ Motion Control System

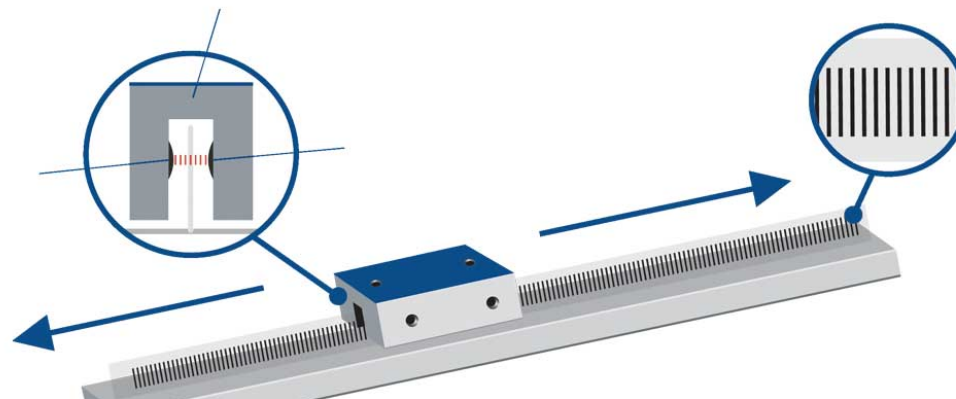
The motion control provides higher detail engraving, even at the fastest speeds.





Accupoint™ High Speed Servo Motors

Known for their incredibly fast acceleration/deceleration and faster turnaround speeds on each engraved line.





Accupoint™ Linear Encoders

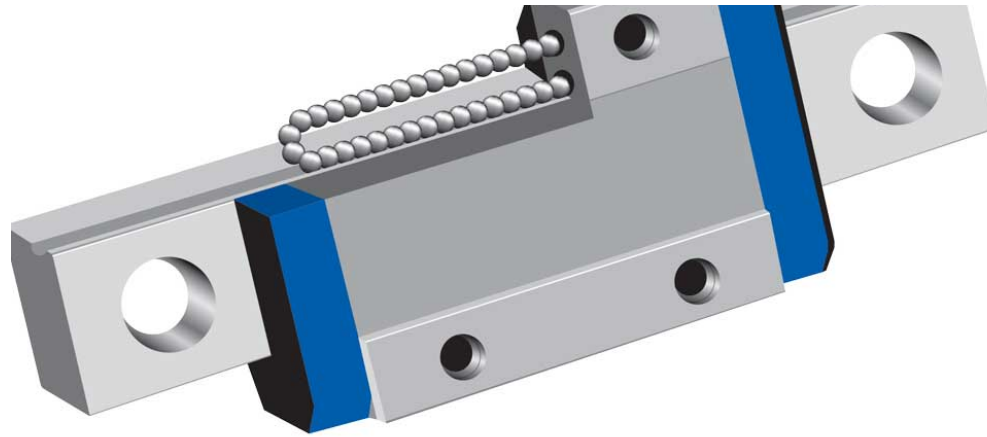
Synchronizes the firing of the laser at incredibly small increments of .02 mm.



Long-Life Lenses Rated to 500 Watts

Lenses that are rated to an incredibly high 500 watts and can last the life of the laser system.





Long-Life Steel Bearings

Designed to last the life of the system without the inevitable wobble and replacement of plastic bearings.



Kevlar Drive Belts

Precision drive belts are made from the sturdiest, B-Style Kevlar to provide superior accuracy and carriage speeds.



Motorized Table

The motorized table can easily be moved up and down to fit a wide variety of engraving materials and products.





Integrated Cutting Table

Included with each Legend System, the Vector Cutting Table provides better cutting quality.

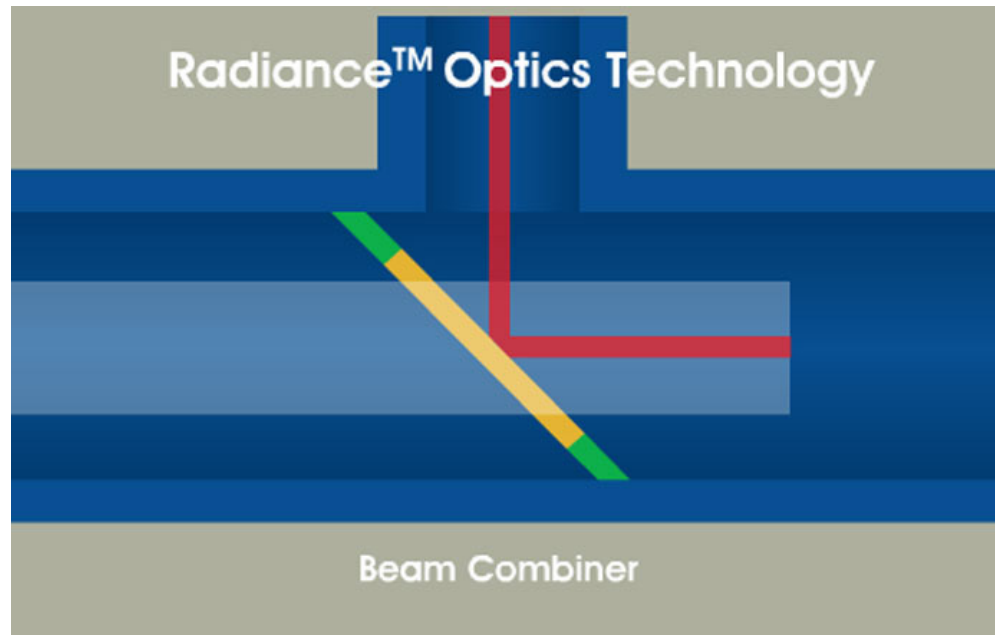




Integrated Vacuum Table

Hold down thin, warped materials with the Vacuum Hold-Down Table by drawing air down through the table.





Radiance™ Higher Resolution Optics

No additional, expensive lens package needed for the highest resolution engraving (Mini 24/Helix).





CO2 Waveguide Laser Tubes by Epilog

The all-metal tube design provides higher beam quality and longer life with low recharge costs.



Memory in the Machine

Improve job processing times and workflow with integrated on board 64MB of RAM in the legend laser machines.





Super-Silent™ Cooling Fans

With computer controlled variable-speed cooling fans, the Legend series is the quietest-operating laser machine in its class.

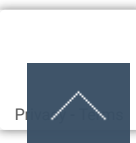




Easy Cleanup with the Removable Crumb Tray

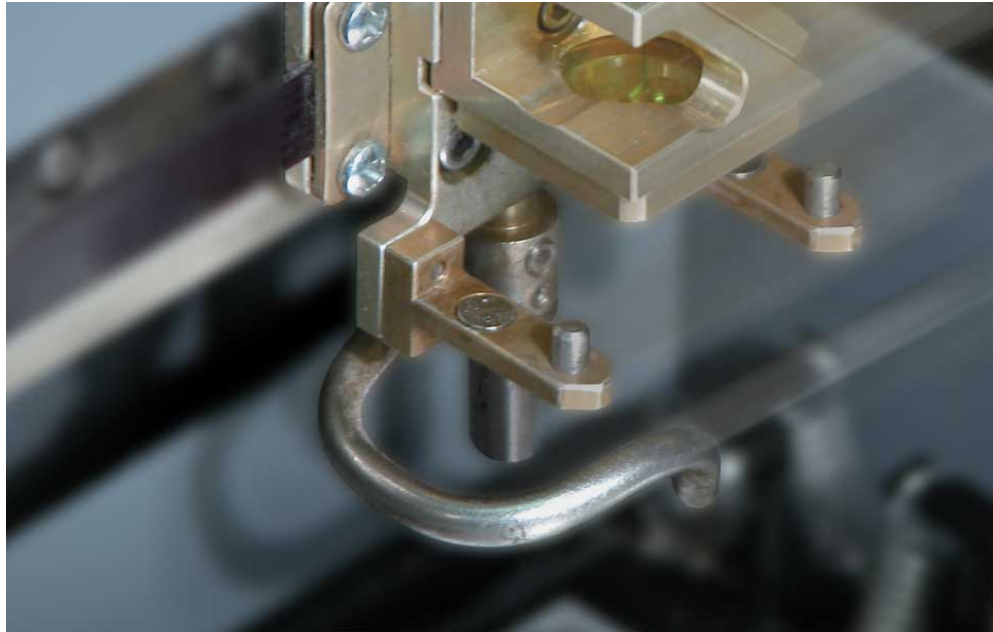
We've designed the Legend series for easy cleanup with an integrated crumb tray. Simply remove the crumb tray and dispose of the debris after laser cutting.

How We Design the Laser Machines for the Easiest Project Setup



Visible Red Dot Pointer

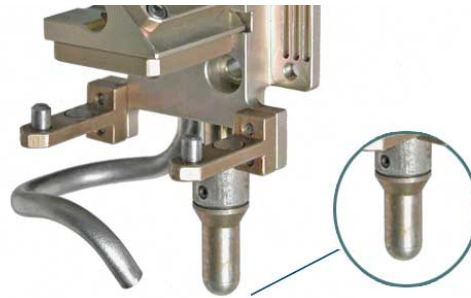
Provides a visible laser beam for setting up projects to determine exactly where the laser will fire.



Air Assist to Reduce Flare-Ups

Attach to a compressor to direct a constant stream of air across the cutting surface.





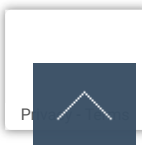
Auto Focus Your Laser

Automatically sets the correct table height for your lens to achieve the highest detail engraving and cutting.

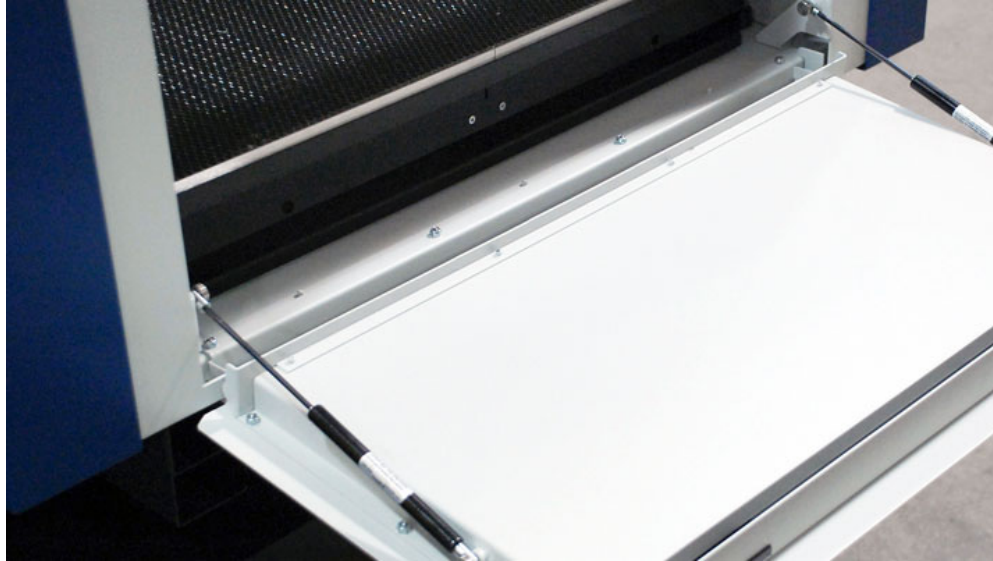


3D Laser Engraving Mode

The 3D mode adjust the power applied to the material based on the

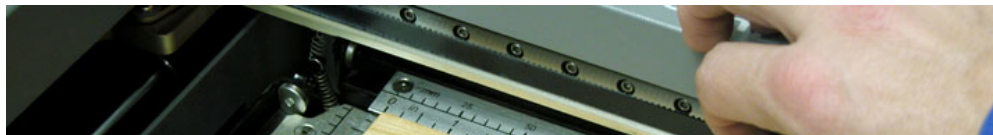


The 3D mode adjust the power applied to the material based on the grayscale in the artwork, creating stunning 3D designs.



Front-Door Table Access

Quickly and easily load a sheet of parts or sheet of material onto the laser engraving or cutting work area.

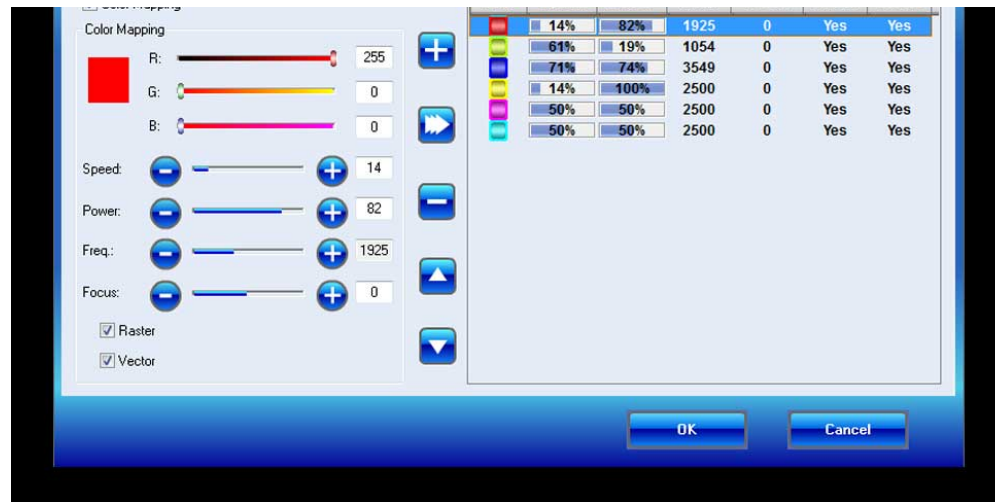




Customizable Home Position

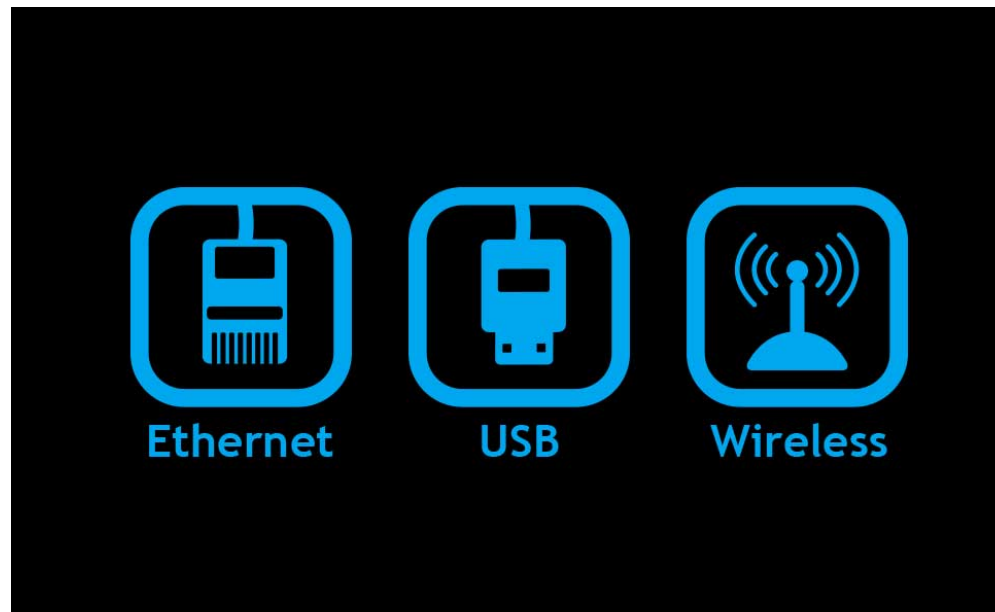
A new home position allows you to work from any point on the engraving table, not just the upper left corner.





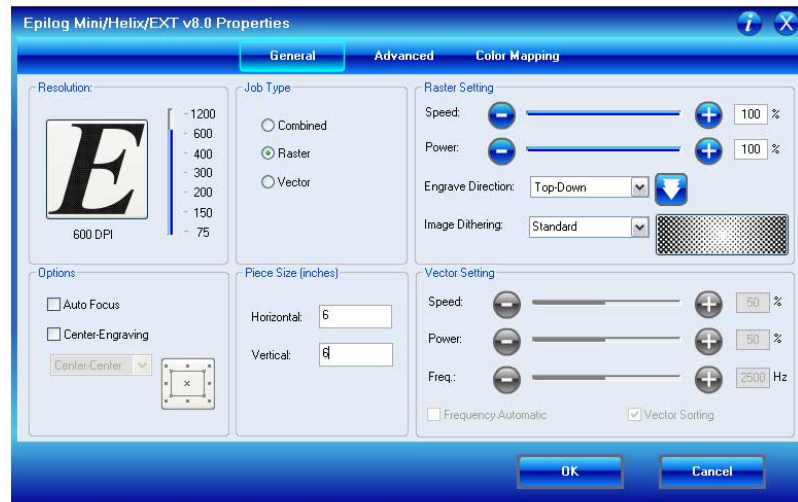
Engraving/Cutting Color Mapping

Easily map different speed and power settings to different colors in your file in both engraving and cutting modes.



Networking Capabilities with Ethernet

All Legend Series lasers come standard with a high-speed, 10 Base T-Ethernet connection as well as USB.



Laser Dashboard™ Print Driver

User-friendly print driver allows you to control all of the laser's features from one interface. No need for proprietary or special RIP software.





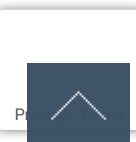
Rubber Stamp Engraving Mode

Easily create custom one-off rubber stamps by adjusting the shoulder, width, and fence settings.



Easy-Access Storage Stand (Helix)

The Helix features an included stand that has easily accessible shelves to hold your Cutting Table and Task Plate.



Hold your cutting table and rack rate.



Adjustable Speed and Power While Engraving

Test your speed and power settings by adjusting them with the control panel at the laser machine.

Accessories for the Legend Laser Series





Rotary Attachments for Cylindrical Items

Available for all Epilog Legend systems, the Rotary Attachment adds the ability to engrave bottles, glasses, flashlights, and other cylindrical items.

Specially designed for our entire line of Legend lasers, it has been built to accommodate a large variety of shapes and sizes. The attachment easily adjusts for different lengths and will even rotate cylinders that have different diameters on each end.

So intuitive and easy to use, you can change from one glass to the next in seconds without removing the attachment from the engraver. Additionally, our proprietary design provides accurate image scaling without the need to input diameter or circumference calculations.



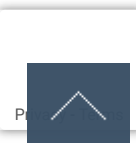


PhotoLaser Plus Software

Photo processing software that optimizes your photographs for engraving on a variety of materials.

PhotoLaser Plus takes photo engraving with your Epilog Legend series laser to the next level by easily processing photos for engraving on all types of materials.

Are you looking for a system that engraves outstanding photographs? How about a system that engraves photos in a consistent, predictable way for



your customers?

Epilog Laser has partnered with CADLink to bring you the industry's best photo processing software: PhotoLaser Plus. The easy-to-use software interface and powerful photo processing tools allow you to create the highest-quality photo engravings in the industry.



Additional Mini and Helix Lens Options

In addition to the 2.0" lens, we offer special lenses for specific applications.

1.5" Lens: Highest-Resolution Engraving



1.5" Lens: Highest Resolution Engraving

Although the standard 2.0 inch lens provides amazing detail, our 1.5-inch lens assembly has been designed for the highest-resolution engraving and etching of extremely small fonts.

4.0" Lens: Cutting Thicker Materials and Inside Deep Areas

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. The lens is also used for cutting through very thick materials.



Mini Laser Stand Option

An easy to use stand for moving your laser around your workspace. While the Helix comes with an included stand, the Mini 18 and Mini 24 are desktop units with an optional stand. If you prefer to have a free-standing system,



units with an optional stand. If you prefer to have a free-standing system, you can add this wheeled cart specially designed for the Mini Laser line to your machine. It allows you to quickly move your machine throughout your work environment.



Vector Pin Table

Raise and support your cutting materials for better edge quality. The Pin Table incorporates movable pins that can be placed anywhere along the table's grid of one inch (25.4 mm) spaced holes. The movable pins also allow the user to raise and support the cutting material in locations where the laser will not be cutting, providing a means of eliminating backside reflection. The table also allows you to place pins to support parts that would normally fall out of the cutting pattern. A handy removable surface plate makes the task of cleaning up small parts easy without removing the Pin Table.

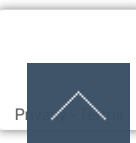




Air Compressor

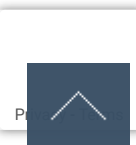
Blows a constant stream of air on the cutting area. Epilog's optional Air Compressor is available to work with the included Air Assist features of the laser systems. Direct a constant stream of air to your cutting surface to remove heat and combustible gases from the work area.

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, and connection is a breeze with our quick-connect inlet and outlet ports on the compressor and the laser system.



Epilog Legend Series Technical Specifications

⚙️ Technical Specifications			
	Epilog Mini 18	Epilog Mini 24	Epilog Helix 24
Engraving Area	18" x 12" (457 x 305 mm)	24" x 12" (610 x 305 mm)	24" x 18" (610 x 457 mm)
Maximum Material Thickness	4" (102 mm)	5.5" (140 mm)	8.5" (216 mm)
Maximum Material Thickness with Table Removed	6" (152 mm) with a 17.5" x 10" (445 x 254 mm) engraving area.	8" (203 mm) with a 23.5" x 11.75" (597 x 298 mm) engraving area.	11" (279 mm) with a 23.5" x 17" (597 x 432 mm) engraving area.
Laser Wattage	30 or 40 watts	30, 40, 50, or 60 watts	30, 40, 50, 60, or 80 watts



	Epilog Mini 18	Epilog Mini 24	Epilog Helix 24
Laser Source	State-of-the-art, digitally controlled, air-cooled CO2 laser tubes are fully modular, permanently aligned and field replaceable.		
Intelligent Memory Capacity	Multiple file storage up to 64 MB. Rolling buffer allows files of any size to be engraved.		
Air Assist	Attach an air compressor to our included Air Assist to remove heat and combustible gases from the cutting surface by directing a constant stream of compressed air across the cutting surface.		
Laser Dashboard	The Laser Dashboard™ controls your Epilog Laser's settings from a wide range of software packages - from design programs to spreadsheet applications to CAD drawing packages.		
Red Dot Pointer	Since the laser beam is invisible, the Red Dot Pointer on Epilog's Mini and Helix Lasers allows you to have a visual reference for locating where the laser will fire.		
Relocatable Home	When engraving items that are not easily placed at the top corner of the laser, you can set a new home position by hand with the convenient Movable Home Position feature on the Legend Series Lasers.		
Operating Modes	Optimized raster, vector or combined modes.		
Motion Control System	High-speed, continuous-loop, DC servo motors using linear and rotary encoder technology for precise positioning.		



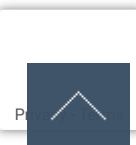
	Epilog Mini 18	Epilog Mini 24	Epilog Helix 24
X-Axis Bearings	Ground and polished stainless steel NeverWear Bearing System.		
Belts	Advanced B-style Kevlar Belts.		
Resolution	User controlled from 75 to 1200 DPI.		
Speed and Power Control	Computer or manually control speed and power in 1% increments to 100%. Vector color mapping links speed, power and focus to any RGB color.		
Print Interface	10 Base-T Ethernet or USB Connection. Compatible with Windows® XP/Vista/7/8/10.		
Size (W x D x H)	27.8" x 26" x 13.5" (706 x 660 x 343 mm)	34.5" x 26" x 16" (876 x 660 x 406 mm)	36.5" x 32" x 39.8" (927 x 813 x 1011 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 (82 kg)
Electrical Requirements	Auto-switching power supply accommodates 110 to 240 volts, 50 or 60 Hz, single phase.		
Maximum Table Weight	The Mini 18 and 24 have a static table weight of 50 lbs (22.7 kg) and a lifting table weight of 25 lbs (11.5 kg).		The Helix 24 has a static table weight of 70 lbs (32 kg) and a lifting table weight of 30 lbs (14 kg).



	Epilog Mini 18	Epilog Mini 24	Epilog Helix 24
Normal Sound Level	59 db	59 db	62 db
Ventilation System	350 - 400 CFM (595-680 m3/hr) external exhaust to the outside or internal filtration system is required. There is one output port, 4" in diameter.	350 - 400 CFM (595-680 m3/hr) external exhaust to the outside or internal filtration system is required. There is one output port, 4" in diameter.	350 - 400 CFM (595-680 m3/hr) external exhaust to the outside or internal filtration system is required. There is one output port, 4" in diameter.

Material Compatibility

⚙️ Which materials work with a laser engraver and cutter?		
	Engrave	Cut
Wood	x	x
Acrylic	x	x
Fabric	x	x
Glass	x	



	Engrave	Cut
Coated Metals	X	
Ceramic	X	
Delrin	X	X
Cloth	X	X
Leather	X	X
Marble	X	
Matte Board	X	X
Melamine	X	X
Mother of Pearl	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

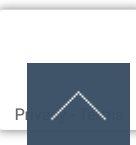


	Engrave	Cut
Cork	X	X
Corian	X	X
Anodized Aluminum	X	
Stainless Steel	*	
Brass	*	
Titanium	*	
Bare Metals	*	
* CO2 lasers will mark bare metals when coated with a metal marking solution. For more information, visit our laser metal marking page.		
Do you have a material you would like us to test? Our Applications Team would be happy to assist you.		

Request More Information

Receive a Brochure and Samples

Receive brochures and samples, and get more info from us or your local distributor.



First Name *

Last Name *

Company

Industry

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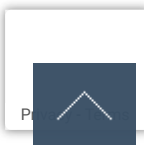
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Email Address

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Where did you learn about Epilog Laser?

Do you have any comments or questions

Please send information and pricing on the Legend Series Lasers.

Get Info!

See our [Privacy Policy \(/privacy-policy.htm\)](/privacy-policy.htm)



About

Epilog Laser manufactures the world's leading laser engraving and cutting systems, proudly made in the USA.

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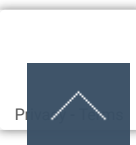
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