

FiberMark Fiber Laser System



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" (101.6 mm) output port.	External exhaust to the outside required via two 4" (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)	



Epilog Fusion M2 Laser System

DUAL-SOURCE LASER SYSTEM FOR THE MOST VERSATILITY.



MORE CAPABILITIES IN ONE SYSTEM

What is the benefit of two laser sources in one cabinet? Size - If you are operating in a limited-space environment you can maximize your space with equipment that can now work with any laser-compatible material in one system. Versatility - type of laser. Choose from a 50, 60 or 75-watt CO2 laser and match it with a 20, 30 or 50-watt fiber laser. Pick the combination that is best for your applications.

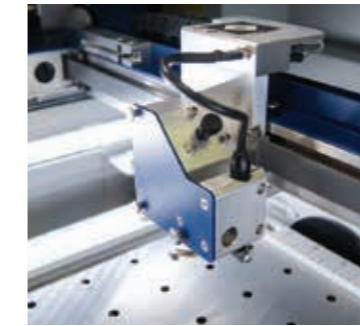
Mirrors Designed for Optimal Power

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

Material Compatibility

When you combine CO2 and fiber laser sources in one system, you open up a world of possibilities and types of materials you can process with a single system. Whether you are engraving a mixed-media piece with both wood and metal, or looking for a system that allows you to move from metal tags to acrylic awards, the Fusion M2 is the system that best meets your needs.

	Engrave	Cut		
Wood	x	x	17-4 PH stainless steel	Magnesium
Acrylic	x	x	303 stainless	Makrolon
Glass	x	x	4043 steel	Metal-plated ceramics
Coated metals	x		6061 aluminum	Molybdenum
Ceramics	x		ABS (black/white)	Nickel-plated brass
Delrin	x	x	Aluminum, 6061	Nickel-plated gold
Cloth	x	x	Aluminum, yellow chromate	Nickel-plated steel
Leather	x	x	Bayers bayblend FR110	Nylon
Marble	x		Black/white ABS	PEEK, white
Matboard	x	x	Black/white polycarbonate	Polycarbonate
Melamine	x	x	Brass	Polycarbonate resin 121-R
Paper	x	x	Brushed aluminum	Polysulfone
Mylar	x	x	Carbon fiber	Rynite PET
Pressboard	x	x	Carbon nanotube	Santoprene
Rubber	x	x	Ceramics	Silicon carbide
Wood veneer	x	x	Ceramics, metal-plated	Silicon steel
Fiberglass	x	x	Clear coat anodized aluminum	Silicon wafers
Painted metals	x		Cobalt chrome steel	Stainless steel 303
Tile	x		Colored Delrin (black/brown)	Stainless steel 17-4 PH
Plastic	x	x	Copper	Steel 4043
Cork	x	x	Delrin, colored (black/brown)	Steel, machine tool
Corian	x	x	Glass filled PEEK	Various inconel metals
Anodized aluminum	x		Glass filled Teflon	White PEEK
Twill	x	x	Hard coat anodized aluminum	Yellow chromate aluminum
			Inconel metals (various)	Zinc plated mild steel
			Machine tool steel	And many more!



Epilog Laser Performance

The Fusion M2 features the high-quality engraving and cutting performance that you expect from an Epilog Laser system. With the highest-resolution engraving, even at the fastest speeds, and unparalleled cutting performance, the Fusion M2 is designed to perform to your highest standards.

Epilog eView™ Camera Module



Epilog Laser is excited to announce the release of the new Epilog eView Camera Module for the Fusion M2. Easy to use and extremely precise, the eView 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 on the laser, the eView system reads the registration marks on your printed item, providing the easiest alignment available.



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LASER CUTTING AND ENGRAVING SYSTEMS

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Technical Specs

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
Maximum Engraving Area	18" x 12" (457 x 305 mm)	24" x 12" (610 x 305 mm)	24" x 18" (610 x 457 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.
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.
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, 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, 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	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)
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)
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.
Laser System Classification	Class 2 Laser Product - 1 mW CW MAXIMUM 600-700 nm		

For system pricing information and to set up your personal demonstration, call your local distributor. To find your distributor, visit www.epiloglaser.com/distributors.htm

Epilog Fusion Laser Series



	Epilog Fusion Laser	Epilog Fusion 40 Laser
Maximum Engraving Area	32" x 20" (812 x 508 mm)	40" X 28" (1016 X 711 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.	30, 40, 50, 60, 75, or 120 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	Stainless steel, teflon coated, 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)	60.5" x 41.25" x 42.25" (W x D x H) - 34.5" (1092 mm) deep with Exhaust Plenum. (1537 x 1048 x 1073 mm)
Weight	500 lbs. (227 kg)	643 lbs. (292 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	

Technical specifications and product configurations subject to change without notice.