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LASER SYSTEMS INC.
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Why Should You Choose a Universal Laser System?

Universal Laser Systems is an industry pioneer and a world leader in the design and manufacture of CO₂ laser systems. Nearly 20 years ago, we brought the first successful computer-controlled CO₂ vector cutting/raster engraving laser system to market. Today, we are the highest volume manufacturer of computer-controlled CO₂ laser cutting, marking and engraving systems.

Universal is also one of the world's largest suppliers of CO₂ lasers and the only company that manufactures both CO₂ lasers and CO₂ laser systems. Our lasers are specifically tuned for our systems and provide the best cutting, marking and engraving performance available. Universal Laser Systems has been awarded numerous patents for unique, innovative laser technology and our lasers and systems deliver profitable, reliable and productive service.



Cut and engrave tactile signage



Cut and engrave acrylic



Engrave crystal stemware



Permanently mark metals

Look What You Can Do With a Universal Laser System

A Universal laser system can cut, mark and engrave an amazing variety of materials with incredible speed, detail and accuracy. Laser processing services are in great demand in the automotive, aerospace, electronics, packaging, manufacturing and printing industries. Here are just a few of the things you can do with a Universal laser system. If you have questions about a particular application, our Applications Lab offers processing guidelines and free materials testing.

Permanently Mark Parts and Equipment

Produce P-O-P Packaging Displays

Produce Advertising Specialty Items

Personalize Gifts

Engrave Awards

Personalize Jewelry

Cut Appliqué

Fabricate 3D Signage

Produce Braille Signage

Engrave Patterns onto Fabric

Generate Name Badges/ID Tags

Engrave Desk Accessories

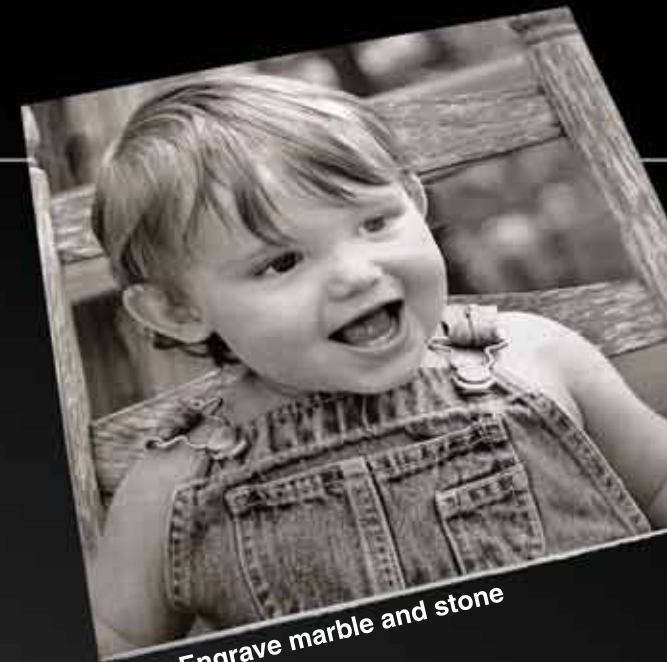
Produce Rubber Stamps and Seals

Produce Architectural Models

Cut and Engrave Textiles

Create Scrapbooking Items

Cut Out Stencils, Templates and Masks



Engrave marble and stone



Cut and engrave highly contoured 3D wood engravings



Mark jewelry and gifts



Universal Manufactures a Laser System That is Right for You

Whether you are thinking about starting a new business or looking to expand your present business, it's important to choose a laser system with the size, power, features and accessories you need to handle all of your present and future applications. That's why Universal offers the most comprehensive line of upgradeable CO₂ laser systems in the industry.

Universal laser systems are available in sizes ranging from 16" x 12" (VersaLaser) to 48" x 24" (Industrial Laser Series) with laser power from 10-150 watts. Our systems are easy to operate and run from CorelDRAW® and other popular Windows® graphic software and CAD programs. Our systems are modular in design for easy servicing and feature patented Rapid Reconfiguration™ technology, which allows you to remove or install a ULS laser cartridge in minutes without tools to optimize your power for specific applications.

From the compact, easy-to-use and affordable VersaLaser Series... to the high-speed, high-productivity Professional Laser Series... to the advanced new Industrial Laser Series... Universal manufactures a system that is right for you.

VersaLASER®



The VersaLaser® Series is a compact CO₂ laser system that delivers ULS patented technology, quality and performance at an affordable price. It is the industry's easiest-to-use CO₂ laser system thanks to USB plug-and-play compatibility and a unique, materials-based print driver that automatically calculates power and speed settings. VersaLaser is available in two platform sizes and provides a high quality cutting, marking and engraving experience for users at every skill level.

PROFESSIONAL SERIES



The Professional Laser Series is a line of technologically innovative CO₂ laser systems that provides an unbeatable combination of power, performance and price. The Professional Laser Series is available in three platform sizes and includes the state-of-the-art Laser Interface+™ print driver that offers automatic or manual control over speed and power settings. The Professional Laser Series delivers exceptional cutting, marking and engraving results for users who need high speed as well as high quality.

INDUSTRIAL SERIES



The Industrial Laser Series is our most capable and flexible line of CO₂ laser systems. These customizable, large format systems feature opening side doors for pass-through capability (with the optional Class 4 Module) that provides an industry first: legal switching between CDRH Class 1 and CDRH Class 4 (patent-pending)*. The Industrial Laser Series includes the Laser Interface+ print driver and has an extended range of size and power options, as well as numerous production-enhancing accessories, to meet changing production needs.

When you choose a Universal laser system, you get a future-proof system designed to fit your present budget while providing an upgrade path for future growth. We manufacture a complete line of advanced technology CO₂ laser systems that are ideal for starting a new business or expanding your present business. Please contact a sales consultant today at 1-800-859-7033 to learn which Universal laser system is right for you.

	VersaLaser		Professional				Industrial	
	VLS2.30	VLS3.50	PLS3.60	PLS 4.60	PLS6.60	PLS6.120D	ILS9.150D	ILS12.150D
Quick Look								
Table Size	16x12	24x12	24x12	24x18	32x18	32x18	36x24	48x24
Maximum Laser Power	30W	50W	60W	60W	60W	120W	150W	150W
Safety Glass Window	*	*	*	*	*	*	*	*
Rapid Reconfiguration of Lasers	*	*	*	*	*	*	*	*
Laser Fan Control	*	*	*	*	*	*	*	*
Smart Lasers	*	*	*	*	*	*	*	*
RoHS Compliant	*	*	*	*	*	*	*	*
Instant Print & Run	*	*	*	*	*	*	*	*
Laser Interface+™ Print Driver			*	*	*	*	*	*
Materials-Based Driver Upgradeable to Laser Interface+™	*	*						
Edit Job Settings while a Job is Running	*	*	*	*	*	*	*	*
File Storage with Preview & File Selection	*	*	*	*	*	*	*	*
Vector Scaling	*	*	*	*	*	*	*	*
Over-Temperature Alarm	*	*	*	*	*	*	*	*
Air Assist Ready	*	*					*	*
Red Dot Pointer	*	*	*	*	*	*	*	*
Auto Focus by Material Height	*	*	*	*	*	*	*	*
Auto Focus - Cross-Beam			*	*	*	*		
Auto Focus - Non-Contact Lens Sensor							*	*
Exhaust Management							*	*
Exhaust Flow Detection							*	*
Virtual Positioning of Artwork	*	*	*	*	*	*	*	*
Options								
High Power Density Focusing Optics™	o	o	o	o	o	o	o	o
Rotary Fixture	o	o	o	o	o	o	o	o
Downdraft Honeycomb/ Vacuum Hold-Down Cutting Table	o	o	o	o	o	o	o	o
Air Compressor	o	o	o	o	o	o	o	o
Back Sweep or Cone Air Assist & Optics Protection	o	o	o	o	o	o	o	o
Standard Air Assist & Optics Protection	o	o	o	o	o	o	o	o
Computer-Controlled Air Assist & Optics Protection			o	o	o	o	o	o
Dual Head			o	o	o	o		
Dual Lasers						o	o	o
Pass-Through Mode							o	o
Traveling Exhaust							o	o
Embedded Computer with 7-inch Color Display							o	o
Automation Interface (for machine automation)**							o	o
SuperSpeed™							o	o

* This option converts the Industrial Laser Series into a Class 4 laser system with the potential to expose the user to invisible high power laser radiation. Special precautions must be taken when operating a Class 4 laser system. Information available upon request.

** Universal Laser Systems does not authorize using third party software with this option.



Get the Universal Laser Systems Advantage

Investing in a Universal laser system is a smart way to gain an advantage in today's competitive marketplace. Our laser systems can cut, mark or engrave a wide variety of materials with computer-controlled speed, detail and accuracy. For example, you can cut wood, rubber, cork, fabric and acrylic; engrave marble, glass, granite, brick and tile; and permanently mark steel, iron, titanium, aluminum and other metals. If you're thinking about starting a new business, want to expand your present business, want to replace obsolete equipment or technology or want to start saving money you previously spent on outsourcing, you can be confident you've made the right choice when you buy or lease a Universal laser system.

Here's What You Can Expect From a Universal Laser System:

Unsurpassed Cutting and Engraving Quality – Universal's laser systems set the benchmark for accurate, repeatable high quality cutting, marking and engraving. Our precision manufactured lasers and laser systems deliver the highest possible performance on a wide variety of materials.

Unmatched Engineering Expertise – Universal is the industry leader for pioneering ground-breaking CO₂ laser innovations. For nearly two decades, our efforts in research and development have resulted in numerous industry firsts and multiple U.S. patents.

Unparalleled Performance – Universal's laser systems are available with up to 75 watts of power using one laser, which allows for deep engraving at high speeds and fast cutting of thick materials. Laser systems are also available with up to 150 watts of power using two lasers. Universal's dual laser capability is a patented process that allows the laser platform to accept two lasers and combines the beams. Two lasers deliver better beam quality, smoother power and greater stability than a single laser – truly amazing.

Unrivaled Customer Service – Universal builds the most reliable CO₂ lasers and laser systems in the industry. In the event that your system should require service, our customer service team is ready to help you. We are dedicated to keeping your system up and running at the least possible expense and inconvenience to you.

Unprecedented Convenience – Universal's laser systems feature patented Quick Change Lasers™ with Rapid Reconfiguration™ technology, which allows you to quickly reconfigure your system to different power levels in seconds, without the need for tools or optical alignment, to accommodate changing production requirements.

Unequaled Value – Universal's laser systems provide the lowest cost of ownership in the industry. With an operating cost of about one dollar per day, our laser systems are an outstanding value. And because we manufacture our own lasers, we are able to offer the lowest CO₂ laser exchange cost in the industry.



Universal's Laser Systems are Easy to Use

Universal's VersaLaser, Professional and Industrial Laser Series share a unique, materials-based print driver that automatically adjusts the power, speed and other system settings for a wide range of materials. This advanced feature helps ensure consistently good cutting, marking and engraving results for users at every skill level. In addition, the Professional and Industrial Laser Series allow you to switch from automatic to manual mode for "live" control over speed and power settings at any time, even while a job is running. No other laser system manufacturer offers the power, flexibility and convenience of Universal's materials-based print driver.

Production-Enhancing Accessories

Your Universal laser system can grow with you. We offer a line of production-enhancing accessories, such as patented HPDFO™ for high resolution engraving or direct metal marking, or the rotary fixture for engraving around cylindrical objects. You can easily install accessories at any time to meet your changing production needs and be confident that your Universal laser system will accommodate future business growth.

Material	Engrave	Cut
ABS Plastic	•	•
Acrylic	•	•
Avonite	•	•
Brick	•	•
Cardboard	•	•
Ceramic	•	•
Chipboard	•	•
Corian®	•	•
Cork	•	•
Delrin®	•	•
Fabric	•	•
Fiberglass	•	•
Foam	•	•
Fountainhead	•	•
Glass	•	•
Granite	•	•
Kevlar	•	•
Laminated Plastics	•	•
Leather	•	•
Marble	•	•
Masonite®	•	•
Mat Board	•	•
Melamine	•	•
Mother of Pearl	•	•
MDF	•	•
Mylar®	•	•
Nylon	•	•
Painted Brass	•	•
Paper	•	•
Particle Board	•	•
Polycarbonate	•	•
Polypropylene	•	•
Polyester	•	•
Pressboard	•	•
Resin	•	•
Rubber	•	•

Material	Engrave	Cut
Silicone	•	•
Silk	•	•
Stone	•	•
Styrene	•	•
Tile	•	•
Travertine	•	•
Twill	•	•
Wood	•	•

Guideline: For hard woods and acrylic, 10 watts can cut approximately 1/8" deep; 25 watts can cut approximately 1/4" deep; 50 watts can cut approximately 1/2" deep; 100 watts can cut approximately 3/4" deep.

Metal Marking

Material	Mark without Metal Marking Compounds	Mark with Metal Marking Compounds
AlumaMark®	•	•
Aluminum	•	•
Anodized Aluminum	•	•
Brass	•	•
Carbide*	•	•
Cobalt*	•	•
Copper	•	•
Iron*	•	•
Nickel	•	•
Pewter*	•	•
Stainless Steel*	•	•
Steel*	•	•
Titanium*	•	•
Tungsten	•	•

* Can be marked directly (without the need for Metal Marking Compounds) using High Power Density Focusing Optics™ (HPDFO).

Our Applications Lab can provide guidelines for processing these and many other materials and applications. Call 1-480-483-1214 for details.