

PLS Platform Series

Greater Power and Productivity

For customers with more demanding applications, we suggest the PLS series of laser platforms, which feature a number of enhancements designed to increase productivity in challenging environments. PLS laser platform users enjoy significant processing throughput gains from a maximum laser power 150 percent greater than VLS laser platforms and an on-board LCD screen that allows for on-the-fly parameter adjustment. Accessories like Dual Head and SuperSpeed™ increase vector and raster performance even further. These productivity-enhancing features make the PLS series the ideal laser platform for throughput-focused operations.



Laser Technology Benefits

- ▶ **Software Controlled** - The laser can be controlled by any software with a print function.
- ▶ **Multi-Material** - Process an endless number of materials available today and in the future.
- ▶ **Multi-Process** - Cut, engrave, mark, and produce photo images in one step.
- ▶ **Non Contact** - Modify material without applying any physical force.
- ▶ **On Demand** - Produce everything you need in real time, without waiting for hard tooling.

Uniquely Universal Features

- ▶ **ULR Laser Sources**
Universal's patented air-cooled free-space gas slab lasers produce an excellent quality beam with even power distribution and good near- and far-field characteristics, making them ideal for laser material processing.
- ▶ **High Power Density Focusing Optics**
High Power Density Focusing Optics (HPDFO) allow the laser beam to be focused to a much smaller spot, making it possible to engrave smaller text and produce sharper images at tighter tolerances.
- ▶ **1-Touch Laser Photo™**
1-Touch Laser Photo is a proprietary software package that makes it quick and easy to produce photographic images on nearly any material.
- ▶ **SuperSpeed™**
SuperSpeed is suitable for raster image applications and requires Dual Laser Configuration. This component allows two lines of a raster image to be produced simultaneously. For vector cutting, the laser beams can be combined to take advantage of higher power.
- ▶ **Rapid Reconfiguration of Lasers**
Laser platforms with Rapid Reconfiguration can be reconfigured with new laser sources in seconds, without tools. This allows you to configure your laser system to suit the task at hand, increasing quality and throughput.
- ▶ **Laser Interface+**
This materials-based driver automatically determines the optimum processing settings for your target material. Just select the material type, enter in the material thickness, and start the laser system.
- ▶ **Dual Laser Configuration**
The Dual Laser Configuration optically combines two ULS laser sources into a single beam for additional power and flexibility.

System Specifications

	PLS4.75	PLS6.75	PLS6.150D
▶ Work Surface Area (WxH)	24 x 18 in (610 x 457 mm)	32 x 18 in (813 x 457 mm)	32 x 18 in (813 x 457 mm)
▶ Maximum Part Size¹ (WxHxD)	29 x 23 x 9 in (737 x 584 x 229 mm)	37 x 23 x 9 in (940 x 584 x 229 mm)	37 x 23 x 9 in (940 x 584 x 229 mm)
▶ Dimensions (WxHxD)	36 x 39 x 36 in (914 x 991 x 914 mm)	44 x 39 x 36 in (1118 x 991 x 914 mm)	44 x 39 x 36 in (1118 x 991 x 914 mm)
▶ Rotary Capacity	Max Diameter 8 in (203 mm)		
▶ Motorized Z Axis Lifting Capacity	40 lbs (18 kg)		
▶ Available Focus Lenses	1.5 in / 2.0 in Standard / 2.5 in / 4.0 in		
▶ Laser Platform Interface Panel	Keypad and LCD display shows current file name, laser power, engraving speed, PPI and run time		
▶ Operating System Compatibility	Requires a dedicated PC to operate. Compatible with Microsoft® Windows XP/Vista/7/8 – 32/64 bit		
▶ PC Connection	USB 2.0 or higher		
▶ Cabinet Style	Floor-Standing		
▶ Optics Protection	Air Assist Optional		
▶ Laser Options	10, 25, 30, 40, 50, 60, 75 Watts		10, 25, 30, 40, 50, 60, 75 Watts Equipped for dual lasers
▶ Approximate Weight	270 lbs (122 kg)	325 lbs (147 kg)	345 lbs (156 kg)
▶ Power Requirements	110V/10A; 220V-240V/5A		220V-240V/15A
▶ Exhaust Connection	One 4 in (102 mm) port 250 CFM @ 6 in static pressure (425 m ³ /hr at 1.5 kPa)	Two 4 in (102 mm) ports 500 CFM @ 6 in static pressure (850 m ³ /hr at 1.5 kPa)	

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UNIVERSAL
LASER SYSTEMS

Learn more at ulsinc.com

CDRH Class 1 safety enclosure for CO₂ laser². Class 2 for red laser pointer.

¹ Maximum part size defined as used with 1.5 lens

² CDRH Class 1 laser safety enclosure provides for safe operation without the need for an interlocked room or protective eyewear.



WARNING: UNIVERSAL LASER SYSTEMS PRODUCTS ARE NOT DESIGNED, TESTED, INTENDED OR AUTHORIZED FOR USE IN ANY MEDICAL APPLICATIONS, SURGICAL APPLICATIONS, MEDICAL DEVICE MANUFACTURING, OR ANY SIMILAR PROCEDURE OR PROCESS REQUIRING APPROVAL, TESTING, OR CERTIFICATION BY THE UNITED STATES FOOD AND DRUG ADMINISTRATION OR OTHER SIMILAR GOVERNMENTAL ENTITIES. FOR FURTHER INFORMATION REGARDING THIS WARNING CONTACT UNIVERSAL LASER SYSTEMS OR VISIT WWW.ULSINC.COM.

Universal's laser systems are protected under one or more of U.S. Patents: 5,661,746; 5,754,575; 5,867,517; 5,881,087; 5,894,493; 5,901,167; 5,982,803; 6,181,719; 6,313,433; 6,342,687; 6,423,925; 6,424,670; 6,983,001; 7,060,934; 7,415,051; 7,469,000; 7,715,454; 7,723,638; 7,947,919; 8,101,883. Other U.S. and international patents pending. Made in the U.S.A.

The VLS Desktop system has been awarded U.S. Design Patent No. D517,474 for the unique design of its external cabinet, which also functions as a Class 1 laser safety enclosure.

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