

PLS Platform Series

Power and Productivity

The PLS4.75, PLS6.75 and PLS6.150D are engineered for significant gains in throughput. We suggest the PLS platform series of laser systems for customers seeking to expand a business or conquer challenging applications. The PLS Platform Series provides incremental optimization features for manufacturing applications requiring power, speed and superior raster and vector performance. PLS platforms provide enhanced power and productivity across the platform series, culminating in the PLS6.150DSS, equipped with Dual Laser Configuration and SuperSpeed™, for fastest laser marking and engraving. These features make the PLS Series the ideal laser platform for throughput-focused operations.



Laser Technology Benefits

- ▶ **Software Controlled** - Any Windows[®]-based software with a print function can be used with the laser system.
- ▶ **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

▶ Universal Control Panel (UCP)

Our exclusive integrated materials database in the UCP print driver automatically determines the optimum processing settings for your target material. Just select the material type, enter the material thickness and press "start."

▶ Rapid Reconfiguration™

Unique to ULS, Rapid Reconfiguration allows our modular platforms to be field-reconfigured with a variety of laser sources and other configurable components, in seconds.

The most valuable component of a laser system, the laser source, is not tied to a particular machine, so almost any laser can be interchanged between different systems or exchanged with a laser of a different wattage to meet materials processing requirements.

▶ SuperSpeed™

SuperSpeed and Dual Laser Configuration work together splitting the beams from two same wattage lasers to produce two lines of a raster image simultaneously, significantly speeding up marking and engraving productivity. For vector cutting, the laser beams can be combined to take advantage of higher power.

▶ Dual Laser Configuration

Dual Laser Configuration optically combines two ULS laser sources into a single beam for additional power and flexibility.

▶ High Power Density Focusing Optics™

High Power Density Focusing Optics (HPDFO™) focuses the laser beam to the smallest spot size available, producing images with tighter tolerances, making even miniscule engraving details sharp.

▶ 1-Touch Laser Photo™

1-Touch Laser Photo is our popular software package that makes it quick and easy to reproduce stunning photographic images on nearly any material.

▶ Laser Sources

Our patented, metal core, air-cooled, free-space slab, CO₂ lasers produce excellent beam quality with even power distribution, good near-field and far-field characteristics and long life. Dual lasers dramatically increase speed, edge quality and power.

System Specifications

	PLS4.75	PLS6.75
▶ Work Surface Area (WxH)	24 x 18 in (610 x 457 mm)	32 x 18 in (813 x 457 mm)
▶ Maximum Part Size ¹ (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)
▶ 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)
▶ Rotary Capacity	Max. Diameter 8.5 in (203 mm).	
▶ Motorized Z-Axis Lifting Capacity	40 lbs (18 kg)	
▶ Available Focus Lenses	2.0 / HPDFO™	
▶ Laser Platform Interface Panel	Keypad and LCD display shows current file name, laser power, engraving speed, PPI and run time.	
▶ Computer Requirements	Requires dedicated PC with Windows® 7/8/10 32/64 bit and one available USB port (2.0 or higher).	
▶ Cabinet Style ²	Free-standing	
▶ Laser Options	10, 25, 30, 40, 50, 60, 75 watts	
▶ Approximate Weight	270 lbs (122 kg)	325 lbs (147 kg)
▶ Power Requirements	110V/10A; 220V-240V/5A	
▶ 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.

ULS 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; 8,294,062; 8,599,898; 8,603,217; 8,101,883; 8,294,062; 8,599,898; 8,603,217; 9,155,988; 9,263,844; 9,263,845; 9,281,649; 9,346,122; 9,354,630; D517,474. Other U.S. and international patents pending. Made in the U.S.A.

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