

# 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.
- ▶ **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.
- ▶ **Laser Sources**  
Our patented, metal core, air-cooled, free-space slab, CO<sub>2</sub> 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.
- ▶ **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.

# System Specifications

	PLS4.75	PLS6.75
▶ <b>Work Surface Area (WxH)</b>	610 x 457 mm	813 x 457 mm
▶ <b>Maximum Part Size<sup>1</sup> (WxHxD)</b>	737 x 584 x 229 mm	940 x 584 x 229 mm
▶ <b>Dimensions (WxHxD)</b>	914 x 991 x 914 mm	1118 x 991 x 914 mm
▶ <b>Rotary Capacity</b>	Max Diameter 203 mm.	
▶ <b>Motorized Z-Axis Lifting Capacity</b>	18 kg	
▶ <b>Available Focus Lenses</b>	1.5 / <b>2.0 (Standard)</b> / 2.5 / 4.0 / HPDF0™	
▶ <b>Laser Platform Interface Panel</b>	Keypad and LCD display shows current file name, laser power, engraving speed, PPI and run time.	
▶ <b>Operating System Compatibility</b>	Requires a dedicated PC to operate. Compatible with Windows® XP/Vista/7/8/10 – 32/64 bit.	
▶ <b>PC Connection</b>	USB 2.0 or higher	
▶ <b>Cabinet Style<sup>2</sup></b>	Floor-Standing	
▶ <b>Laser Options</b>	10, 25, 30, 40, 50, 60, 75 W	
▶ <b>Approximate Weight</b>	122 kg	147 kg
▶ <b>Power Requirements</b>	110V/10A; 220V-240V/5A	
▶ <b>Exhaust Connection</b>	One 102 mm port 425 m <sup>3</sup> /hr at 1.5 kPa.	Two 102 mm ports 850 m <sup>3</sup> /hr at 1.5 kPa.

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Distributed by:

CDRH Class 1 safety enclosure for CO<sub>2</sub> laser<sup>2</sup>. Class 2 for red laser pointer.

<sup>1</sup> Maximum part size defined as used with 1.5 lens.

<sup>2</sup> 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: 5,051,558; 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. 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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