

# PLS6.150D With SuperSpeed

## Speed and Flexibility

The PLS6.150D with SuperSpeed™ (PLS6.150DSS) platform is designed and engineered for demanding applications requiring maximum productivity. The PLS6.150DSS platform offers a truly flexible solution through its modular design. Lasers, focusing optics and many other modules can easily be added or removed to reconfigure the laser system to meet specific material or application requirements. Interchangeable factory pre-aligned laser sources can be individually or simultaneously controlled, producing a broad range of power, from 10 to 150 watts.



## SuperSpeed™ Technology

This patented technology uses a dual-laser configuration, pulsing the beams independently, making it possible for two lines of a raster image to be engraved or marked simultaneously. This enables the PLS6.150DSS to perform laser marking and engraving in literally half the time, making the PLS6.150DSS the fastest laser system in the world. For vector cutting, the laser beams can be combined to take advantage of higher power.

## 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.

### ▶ 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.

### ▶ Dual Laser Configuration

Dual Laser Configuration allows the beams of two ULS laser sources to be combined into a single beam for maximum cutting, engraving and cutting power. This technology eliminates polarization effects and delivers beam quality that is superior to that of a single laser. Each laser can be controlled independently or combined to best suit material or application requirements.

### ▶ 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 minuscule engraving details sharp.

### ▶ 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.

# System Specifications

PLS6.150D	
▶ Work Surface Area (WxH)	32 x 18 in (813 x 457 mm)
▶ Maximum Part Size <sup>1</sup> (WxHxD)	37 x 23 x 9 in (940 x 584 x 229 mm)
▶ Dimensions (WxHxD)	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 <sup>2</sup>	Free-standing
▶ Laser Options	10, 25, 30, 40, 50, 60, 75 watt. Up to 150 watt with dual lasers.
▶ Approximate Weight	345 lbs (156 kg)
▶ Power Requirements	220V-240V/15A
▶ Exhaust Connection	Two 4 in (102 mm) ports 500 CFM @ 6 in static pressure (850 m <sup>3</sup> /hr at 1.5 kPa).

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**UNIVERSAL**  
LASER SYSTEMS

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

<sup>1</sup> Maximum part size defined as used with 2.0 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](http://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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