

PLS4.75

24" x 18" Work Area



Uniquely Universal Features

Laser Interface+™

Universal Laser Systems has developed the world's most advanced, powerful and flexible laser print driver.

1-Touch Laser Photo™

We developed this software to make any photographic image suitable for laser engraving.

Universal Laser Cartridges

Our exclusive line of patented CO2 Free-Space Gas Slab Lasers is designed specifically for the needs of laser cutting, engraving, graphic imaging and marking applications.

High Power Density Focusing Optics™

These optics allow the laser beam to be focused to a much smaller spot, producing sharper images at tighter tolerances.

Rapid Reconfiguration™ of Lasers

Every laser cartridge we produce is factory pre-aligned for easy integration into any of our laser platforms.



Platform Overview

The PLS4.75 is a free-standing single laser platform designed for multiple-material processing applications and small scale production. The PLS4.75 can accept all Universal laser cartridges for a power range of 10-75 watts. The PLS4.75 offers a material processing envelope of 24" x 18" x 9", 3,888 in3 (610 x 457 x 229mm, 63,713 cm3) and is ideal for processing a wide variety of materials in small production lot sizes. In addition to the basic capabilities of the machine, there are a number of patented Uniquely Universal features that are only available from Universal Laser Systems. Laser Interface+ and Rapid Reconfiguration are Uniquely Universal features that come standard on the PLS4.75, and a number of additional options are available to enhance your laser processing capabilities. All Universal laser platforms use interchangeable components, giving you the ability to tailor your system to fit your needs.

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System Specifications

Work Surface Area	24 x 18 in (610 x 457mm)
Maximum Part Size	29 x 23 x 9 in (737 x 584 x 229mm)
Dimensions	36 x 39 x 36 in (914 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 CO2	1.5 in (38 mm) 2.0 in (51 mm) *standard 2.5 in (64 mm) 4.0 in (102 mm)
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 Windows XP/Vista/7 32/64 bit
PC Connection	USB 2.0
Optics Protection	Air Assist Available
Cabinet Style	Floor-Standing
Laser Options	10, 25, 30, 40, 50, 60 and 75 Watts
Approximate Weight	270 lbs (122 kg)
Power Requirements	110V/10A or 220V-240V/15A
Exhaust Connection	One 4 in (102 mm) port 250 CFM @ 6 in static pressure (425 m3/hr at 1.5 kPa)

System Features

- Laminated Safety Glass
- Over-temp Alarm (for fire safety)
- Multiple Automatic Focusing Modes
- Precision Digital Motors
- LCD display
- Wraparound Top and Front Door
- Multiple Language Support
- Permanently Sealed Bearings
- Proportional Pulse Control
- Stretch-Free Kevlar® Belts

Laser Features

- Laser Fan Control (to reduce noise)
- Smart Lasers
- Laser Pointer
- Wide Selection of Power Levels
- Air-Cooled Laser Cartridge
- Patented Permalign™
- No Optical Beam Alignment Required
- Patented Cross-Platform Compatibility
- Patented Free-Space Gas Slab Laser Design
- High Reliability, Excellent Power Stability
- Warranty Available Up To 5 Years

