

## PLS6.150D

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## Platform Overview

The PLS6.150D is a free-standing platform with a materials processing envelope of 32" x 18" x 8.5" or 4,896 in<sup>3</sup> (813 x 457 x 216 mm or 80,253 cm<sup>3</sup>) that supports dual lasers. As a dual laser platform, the PLS6.150 can support up to two 10.6 $\mu$ m CO<sub>2</sub> lasers with a power range of 10 watts to 150 watts. Additionally, it can support a single 9.3 $\mu$ m CO<sub>2</sub> of 30, 50 or 75 watts. (if a 9.3 $\mu$ m CO<sub>2</sub> laser is installed, only one 10.6 $\mu$ m CO<sub>2</sub> of up to 75 watts may be installed at the same time.)

# Platform Specifications

PLS6.150D	
Laser Material Processing Area (W x H)	32 x 18 in (813 x 457 mm)
Maximum Part Size (W x H x D)	37 x 23 x 8.5 in (940 x 584 x 216 mm)
Overall Dimension (W x H x D)	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	2.0 in (51 mm) HPDFO™ (High Power Density Focusing Optics)
Laser Platform Interface Panel	Keypad and LCD display show 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)
Optics Protection	Integrated with included Gas Assist
Cabinet Style	Free-Standing
Laser Options	10, 30, 40, 50, 60 and 75 watts Equipped for two lasers - must be of equal power
Weight	345 lbs (156 kg)
Power Requirements	220V-240V/15A
Exhaust Requirements	Two 4 in (102 mm) ports 500 CFM @ 6 in static pressure (850 m <sup>3</sup> /hr at 1.5 kPa)

## Included Accessories

### • Gas Assist •

#### Manual Gas Assist (with Optics Protection)

Gas Assist injects a stream of gas onto the material being processed at the point where the laser focuses onto the material. Optics protection supplies a constant stream of clean air creating positive pressure around critical optical elements, such as mirrors and lenses to keep them clean. The gas can be supplied either by an air compressor or from external gas tanks.

#### Benefits

- Reduces accumulation of residue deposits
- Improves cutting and engraving
- Protects optics

## Optics

### 2.0" Lens

This is the most versatile lens. It provides an ideal balance of spot size, depth of focus and focal length for most laser cutting, engraving and marking applications.

#### Benefits

- Versatility

### HPDFO™

ULS offers customers the ability to drastically improve marking and engraving resolution, to directly mark onto some metals, and to increase the range of materials which can be cut with a CO<sub>2</sub> laser system. This is accomplished through ULS patented HPDFO™, which focuses the laser's energy into a much smaller area than is possible with standard lenses. The HPDFO™ option includes a collimator which minimizes divergence across the laser processing area producing more consistent focal spot size and energy density. A collimator is required for HPDFO™ to function.

#### Benefits

- Produce unmatched resolution
- Achieve high levels of detail and tighter tolerances
- Directly mark metals with a CO<sub>2</sub> laser

## Productivity Enhancers

### SuperSpeed™

SuperSpeed technology offers the unique ability to drastically improve laser system productivity in laser engraving and marking. This patented technology was designed from the ground up to benefit the customer. SuperSpeed requires two lasers of the same power for usage and cannot be used with a single laser.

#### Benefits

- Improves laser material processing throughput
- Improves reliability and uptime
- Provides ultimate laser material processing flexibility
- Enables additional resolutions
- Easy to use