

PLS6MW Platform Expanded Material Possibilities

For the maximum in material processing versatility, consider the PLS6MW Multi-Wavelength Laser Platform. Unique among laser systems, the PLS6MW can make use of three different laser wavelengths to process the broadest spectrum of materials and applications. The Multi-Wavelength capability of the PLS6MW can be used to accomplish tasks that are impossible using only a single wavelength.

1.06 micron wavelength – Fiber Laser

The PLS6MW can mark most metals and some plastics when configured with a 1.06 μ m pre-aligned fiber laser.

10.6 micron wavelength – CO₂ Laser

The full breadth of organic and inorganic material processing capabilities are realized when the PLS6MW is configured with a standard pre-aligned 10.6 μ m CO₂ laser.

9.3 micron wavelength – CO₂ Laser

For excellent results on certain plastics, the PLS6MW can be reconfigured with an interchangeable, pre-aligned $9.3 \mu m$ CO₂ laser.



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.

Rapid Reconfiguration[™]

Unique to ULS, Rapid Reconfiguration allows our modular platforms to be field-reconfigured with a variety of laser sources, in seconds, and without tools. Easily exchange laser wavelengths or wattage to change power, increase speed and throughput.

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.

Multi-Wavelength Technology

The PLS6MW has been engineered to support interchangeable CO₂ laser sources that produce 10.6 μ m and 9.3 μ m of laser energy at various power levels, and a fiber laser source that produces 1.06 μ m of laser energy.



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.

System Specifications

	PLS6MW
Work Surface Area (WxH)	32 x 18 in (813 x 457 mm)
Maximum Part Size'(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 in (203 mm).
Motorized Z-Axis Lifting Capacity	40 lbs (18 kg)
Available Focus Lenses	2.0 / 4.0 / 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	CO ₂ (10.6 μm): 10, 25, 30, 40, 50, 60, 75 W CO ₂ (9.3 μm): 30, 50, 75 W Fiber (1.06 μm): 40, 50 W
Approximate Weight	325 lbs (147 kg)
Power Requirements	110V/10A; 220V-240V/5A
Exhaust Connection	Two 4 in (102 mm) ports 500 CFM @ 6 in static pressure (850 m³/hr at 1.5 kPa).

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Learn more at **ulsinc.com**

CDRH Class 1 safety enclosure for CO2 and Fiber lasers². Class 2 for red laser pointer.

¹ Maximum part size defined as used with 2.0 lens.

²CDRH 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.

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