

# ILS Platform Series

## Capture Larger Opportunities

The ILS series, our largest platforms, is ideal for businesses that need high productivity or process large objects. The ILS laser platforms feature work areas up to twice as large as the largest PLS or VLS platforms, and a patented, true Class 4 material pass-through mode is available for safe processing of objects of unlimited length. Factory-ready features like the automation interface allow a properly configured ILS laser platform to serve as either a standalone production solution or to be an integrated component of an automated assembly line.



## Laser Technology Benefits

- ▶ **Software Controlled** - Any Windows<sup>®</sup>-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 reconfigured with a variety of laser sources, in seconds, and without tools. Easily exchange laser wattage to change peak power and increase speed and throughput.
- ▶ **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.
- ▶ **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.
- ▶ **Class 4 Material Pass-Through**  
When used in conjunction with our patented Class 4 conversion module and a laser-safe work environment, our ILS platforms can be configured to allow processing of items of unlimited length and in full compliance with Class 4 safety regulations.
- ▶ **SuperSpeed™**  
SuperSpeed and Dual Laser Configuration work together splitting the beams from two lasers of the same wattage to produce two lines of a raster image simultaneously, significantly speeding up productivity. For vector cutting, the laser beams can be combined to take advantage of higher power.

# System Specifications

	ILS9.75	ILS12.75
▶ Work Surface Area (WxH)	36 x 24 in (914 x 610 mm)	48 x 24 in (1219 x 610 mm)
▶ Maximum Part Size <sup>1</sup> (WxHxD)	40.5 x 30 x 12 in (1029 x 762 x 305 mm)	52.5 x 30 x 12 in (1334 x 762 x 305 mm)
▶ Dimensions (WxHxD)	57 x 44 x 46 in (1448 x 1118 x 1168 mm)	69 x 44 x 46 in (1753 x 1118 x 1168 mm)
▶ Rotary Capacity	Max. Diameter 10.25 in (260 mm).	
▶ Motorized Z-Axis Lifting Capacity	60 lbs (27 kg)	
▶ Pass-Through Class 4 Mode Accessible Work Area <sup>2</sup>	20 x ∞in (508 x ∞mm)	
▶ Pass-Through Class 4 Mode Clearance	23.75 x 8 in (603 x 203 mm)	
▶ Available Focus Lenses	2.0 / 3.0 / 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>3</sup>	Free-standing	
▶ Optics Protection	Ready for compressed air-based optics protection.	
▶ Laser Options	10, 25, 30, 40, 50, 60, 75 watts. Up to 150 watts with dual lasers.	
▶ Approximate Weight	400 lbs (181 kg)	430 lbs (195 kg)
▶ Power Requirements	220V-240V/10A (1 laser) 220-240V/16A (2 lasers)	
▶ Exhaust Connection	Two 4 in (102 mm) ports 700 CFM @ 6 in static pressure (1190 m <sup>3</sup> /hr at 1.5 kPa).	Two 4 in (102 mm) ports 1000 CFM @ 6 in static pressure (1700 m <sup>3</sup> /hr at 1.5 kPa).

## For more information:

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**UNIVERSAL**  
LASER SYSTEMS

Learn more at [ulsinc.com](http://ulsinc.com)

CDRH Class 1 safety enclosure for CO<sub>2</sub> laser<sup>3</sup>. Class 2 for red laser pointer.

<sup>1</sup> Maximum part size defined as used with 2.0 lens.

<sup>2</sup> Class 4 with optional Class 4 safety module.

<sup>3</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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MC013-0715 REV2017.03