

INDUSTRIAL SERIES

UNIVERSAL
LASER SYSTEMS INC.



The NEW Industrial Laser Series

New from Universal is the ILS line of high performance, large format, fully-customizable CO₂ laser systems that are available with an extended range of platform and power options. Featuring opening side doors for pass-through capability, the ILS is the world's only laser system that can legally operate between CDRH Class 1 and CDRH Class 4 (patent-pending). The ILS raises the bar on performance with the world's most advanced materials-based print driver (Laser Interface⁺). This powerful feature allows you to choose between automatic or manual control over power, speed, pulses per inch and other system settings. Additional standard features include carriage-mounted auto focus, interchangeable shielded focusing optics, covered belts, self-adjusting and permanently lubricated motion system bearings, red dot pointer, manual air assist with optics protection and patented Rapid Reconfiguration™ and Quick Change Laser™ technology.

Key Features

- Side doors open for **Pass-Through capability*** to accommodate oversized objects and allows you to legally switch between CDRH Class 1 and Class 4 operation (patent pending).
- **Laser Interface⁺** materials-based print driver gives you the choice between automatic and manual control over power and speed settings.
- **Patented High Power Density Focusing Optics (HPDFO)** allows you to mark some metals without the need for marking compounds.
- Optional **Embedded Computer** allows for stand-alone operation and gives you Ethernet connectivity.
- Optional **Patented SuperSpeed™** allows for high processing speeds and increased throughput.

Standard Features

- Laser Interface⁺™ Driver
- Custom Material Settings
- Instant Print and Run
- Job Preview
- Adjust Settings on the Fly
- Auto Focus
- Job Time Estimator
- Red Dot Pointer
- Rapid Reconfiguration
- Easy Maintenance
- Optics Protection
- Motion System Protection
- Sealed Bearings
- RoHS Compliant
- Manual Air Assist

Available Accessories

- Dowlraft Honeycomb Cutting Table
- Computer Controlled Air Assist
- Back Sweep Option for Air Assist
- Cone Option for Air Assist
- Embedded Computer with 7" LCD (Available 2008)
- Class 4 Legal Pass-Through*
- Automation Interface (Direct Communication)
- High Power Density Focusing Optics (HPDFO)™
- Lens Kits (2.0 and 3.0)
- SuperSpeed™ (Available 2008)
- Traveling Exhaust
- Rotary Fixture



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ILS9.150D

ILS12.150D

Work Area

36 x 24 inches (914 x 610 mm)

48 x 24 inches (1219 x 610 mm)

Table Size

40.5 x 30 inches (1029 x 762 mm)

52.5 x 30 inches (1334 x 762 mm)

Maximum Part Size (WxHxD)

39.5 x 30 x 12 inches
(1029 x 762 x 305 mm)

52.5 x 30 x 12 inches
(1334 x 762 x 305 mm)

Maximum Clearance (WxHxD) for Pass-Through

23.75 x 8 inches (603 x 203 mm)

Overall Dimensions (WxHxD)

57 x 43.5 x 46 inches
(1448 x 1105 x 1168 mm)

69 x 43.5 x 46 inches
(1753 x 1105 x 1168 mm)

Printer Control / Connection

Requires a dedicated PC with Windows® XP/Vista; USB 2.0 high speed connection. Can load software to print across networks.

Laser Cartridge Options

10, 25, 30, 35, 40, 45, 50, 55, 60, 75
(select any two lasers for up to 150 watts)

Weight

400 lbs. (181 kg)

430 lbs. (195 kg)

Power Requirements

220V/16A

Cooling

Air-cooled; ambient operating range of 50° - 90°F (10°-35°)

Exhaust Connection

External exhaust required: 2 ports each 4 inches (100 mm) in diameter

* Class 4 option converts ILS into a Class 4 laser system with potential to expose user to invisible high power laser radiation. Special precautions required.

** Maximum pass-through is up to 24 inches (610 mm) for materials less than 0.5 inches (12.7 mm) thick using 2.0 or HPDFO lens.

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. SHOULD THE BUYER USE UNIVERSAL LASER SYSTEMS PRODUCTS FOR ANY SUCH UNINTENDED OR UNAUTHORIZED APPLICATION, ALL WARRANTIES REGARDING THE UNIVERSAL LASER SYSTEMS PRODUCTS SHALL BE NULL AND VOID. FURTHER, THE BUYER SHALL HAVE NO REMEDY AGAINST UNIVERSAL LASER SYSTEMS AND ITS OFFICERS, EMPLOYEES, SUBSIDIARIES, AFFILIATES AND DISTRIBUTORS FOR, AND THE BUYER SHALL INDEMNIFY AND HOLD THOSE PARTIES HARMLESS AGAINST, ANY AND ALL CLAIMS, COSTS, DAMAGES, EXPENSES AND REASONABLE ATTORNEY FEES ARISING OUT OF, DIRECTLY OR INDIRECTLY, ANY CLAIM ASSOCIATED WITH SUCH UNINTENDED OR UNAUTHORIZED USE, INCLUDING BUT NOT LIMITED TO ANY CLAIM BASED ON WARRANTY (EXPRESS OR IMPLIED), CONTRACT, TORT (INCLUDING ACTIVE, PASSIVE, OR IMPUTED NEGLIGENCE), STRICT LIABILITY, PATENT OR COPYRIGHT INFRINGEMENT OR MISAPPROPRIATION OF INTELLECTUAL PROPERTY.

Manufactured and protected under one or more U.S. Patents: 5,051,558; 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; D517,474. Other U.S. and international patents pending.

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