

VLS6.75

32" 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 Sources

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™

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



Platform Overview

The largest in the VLS platform line, the VLS6.75 has a wide and deep engraving area that can accommodate a variety of materials. The VLS6.75 offers a choice of six laser cartridges ranging in power from 10-75 watts. The material processing envelope of 32" x 18" x 9", 5,184 in3 (813 x 457 x 229mm, 84,950 cm3) makes the VLS6.75 a versatile laser engraving solution for most award and sign shops. 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 VLS6.75, 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.

VLS6.75

32" x 18" Work Area

System Specifications

Work Surface Area	32 x 18 in (813 x 457mm)
Maximum Part Size	37 x 23 x 9 in (940 x 584 x 229mm)
Dimensions	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 CO2	1.5 in (38 mm) 2.0 in (51 mm) *standard 2.5 in (64mm) 4.0 in (102 mm)
Laser Platform Interface Panel	Five button keypad
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	Plumbed for compressed-air-based optics protection
Cabinet Style	Floor-Standing
Laser Options	10, 30, 40, 50, 60 and 75 Watts
Approximate Weight	325 lbs (147 kg)
Power Requirements	110V/10A or 220V-240V/15A
Exhaust Connection	Two 4 in (102 mm) ports 500 CFM @ 6 in static pressure (850 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

