

BOSSLASER™



BOSS Laser: Gen 5 LS 1416

The product line represents the pursuit of perfection in laser engraving and cutting!



TP™ **NEW!** TURBO DRIVE
SERVO MOTORS
Up to 5X Faster vs Stepper Motors

BOSSLASER Turbo Drive™ Servos - 2,000mm or 79"/sec



*Additional modules and customization available



COREL™ Training™

BOSS Platform Accessories

The BOSS Laser Cabinets are created from European designs to all but eliminate stack-able error in the high-end assembly process. You can process both C02 or YAG/Fiber or use them in combination. Additionally you can laser uneven surfaces, focus on two items at a time, even add a conveyor belt to the Production Process, making this a truly industrial unit.

BOSSLASER™

Optional Accessories

Long Lasting Laser Optics

These industrial USA Optics are manufactured with Triple Thick surfaces and only losing one 1/2 watt per Mirror. We have Long Shelf-Life Tubes with quick and easy change outs for continued production.



Cylindrical Devices

Our Cylindrical Devices are both Rotary and Scissor which gives you the ability to engrave on 360° objects. Gaining the ability to engrave on cups, mugs, dials or even a flashlights!



BOSS ONE Warranty Plan

You get a P.C. with an extra Year Warranty and EngraveLab, Boss Verison and Free Follow-up Training. Create in **EngraveLab**, **CoreIDRAW**, Adobe, AutoCad whatever your like and send them directly to your laser engraver. Full Video Course Available!



Internal Laser Extraction Unit

This fume extraction system extracts Fumes with outside access, and allow you more mobility and ease



Call Today: 949.355.4000

www.engraverschoice.com

BOSS Laser System Details

Red Dot Positioning - Standard Feature

The Positioning Pointer provides a visible red light that is a useful tool for providing a visible way of calculating the engraving/cutting area within the operational table for your material or odd shaped items. Used in concert with the Frame Key on the Laser Pendant, the laser tube will not fire, but you can see exactly where the laser is going to process the job.

Auto Focus - Standard Feature

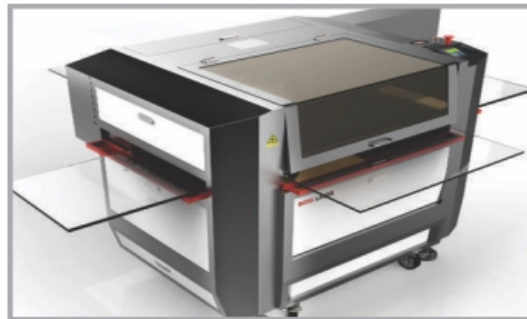
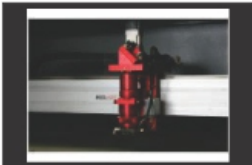
For Perfect image and Vector quality, the laser beam is Auto-focused to the perfect spot size at the material. Using the Auto Focus Feature is simply a matter of moving the laser head over to the material and selecting the focus option from the Pendant.

Air Assist - Standard Feature

Air Assist is normally used in cutting materials to remove heat or gases from the cutting surface. By pushing a constant stream of low pressure air via the nose cone system to the cutting surface, the risk of flaming, scorching and charring is reduced heavily.

Honey Comb Cutting Table- Standard Feature

The Vector Cutting Table keeps the material being cut, off the production platform. This allows the laser beam to move cleanly through the material you're are cutting and helps reduces underside burns.



The Jigged Cylindrical Device will help hold round and odd-shaped items for Lasering. This with the LaserWORKS Pro software allows lasering round objects up to 360 degrees

Cylindrical Attachment- Available Feature

Flash Drive Operation - Standard Feature

With a USB flash drive you can take your jobs and with Pre-Setup Parameters to another laser engraver or work off-line without the need of a PC.

Touchscreen & Industrial Pendant - Available Feature

The embedded controller has a state-of-the-art color touch screen, or use our Industrial Platform to run without the need for a hook-ups to a external computer system.

Pass-Thru Mode - Standard Feature

The Pass-Thru Mode allows you to laser materials of longer lengths by opening access doors on the laser. When running this as a Class 4 laser system, extra safety features are normally required.



LightBurn

TRAINING MANUAL

LaserCAD Video Package



Instructed By
Joe Bràga



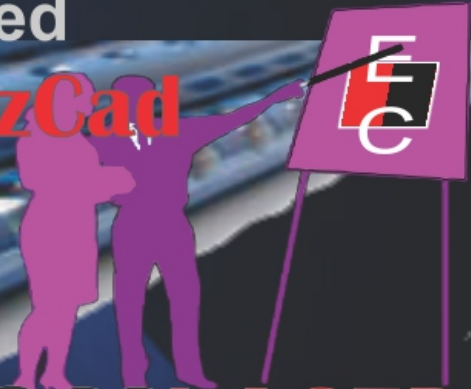
BOSSLASER™

Laserworks RD Training for Lasers®

949-355-4000

Free Phonetime with Purchase
Free Follow-up
Onsite Training for Installation,
Graphics Training & Appilications

Courses for LaserCAD & the more Advanced LASERWORKS or EzCad



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BOSS SYSTEM SPECIFICATIONS



Technical Specifications

Round Devices Available

DESCRIPTION

BOSSL1416

If you're looking for a professional grade desktop / hobby laser engraver or cutter to inspire your small business or DIY projects, but don't want to spend \$10k to get started, then the Boss LS-1416 may be the best laser machine under \$4k on the market today.

NOTE: ALL OUR SYSTEMS COMES COMPLETE WITH SOFTWARE, ATTACHMENTS AND ACCESSORIES NECESSARY FOR OPERATION.

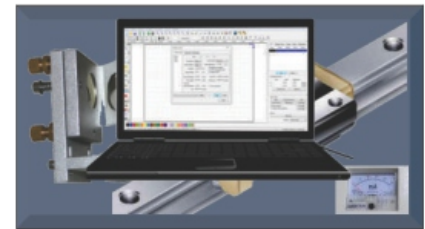
Need to cut 1/4" or even 3/8" wood or acrylic? It's got the power available. Comes standard with a 50W CO2 tube. Upgrade to a 70 watt and you nearly double the life of the tube and cutting power. U.S. manufactured focal lenses, and WIN 10 compatibility. Ask about seeing this machine in a LIVE demo

LS-1416 REVIEW:

- **New! High Speed Hybrid Servo motors - 1,300mm or 51"/sec. 3X faster vs. Steppers!**
- **4-WAY PASS-THRU's** gives you ultimate material handling flexibility - SEE VID ABOVE.
- **NEW! Made In The USA 2021 LightBURN Software.** The BOSS edition offers an All-In-One laser control software package that offers direct print capability, camera ready, and works with Windows, Mac OS, or Linux.
- **NEW! Auto focus** makes focusing the laser head quick and easy
- **NEW! U.S.A Made optics.** Proven 14% beam transmission improvement vs. imported optics.
- **NEW! Inline Beam Combiner** (no more red dot pointer!) illuminates red dot on the material for improved accuracy and alignment.
- **Laser head Air Assist** keeps smoke & debris out of the laser area
- **Motorized Z Table** with 8" height adjustment.
- **Wi-Fi or USB** connection to PC Option
- **Large exhaust fan** and venting for extracting smoke and fumes.
- **Both Honeycomb and Knife blade** platforms for cutting and engraving
- **Quality CNC machined parts** for long term reliability.
- **Ball bearing Y axis** guide rails ensures smooth & precise laser movement
- **Optional Heavy Duty Rotary or Chuck** attachment for cylindrical objects
- **Quick access** to warehoused replacement parts at an affordable cost
- **Dedicated USA technical support** of trained tech's and engineers.
- **30 Day "Try-It-Out" Return Policy.**
- **FULL 2-Year Warranty** covers parts PLUS laser tube. Optional warranty extensions
- **Free Lifetime Tech Support** As long as you own the machine we're here to serve you.
- **Low LTL rates!** includes free lift gate service w/in U.S. lower 48
- **Live Outside the lower 48?** Call us for an accurate shipping quote
- **BOSS LASER is an ISO-9001 Registered Company**

SPECIFICATIONS

Cutting Area	15.75" x 13.75" or 19.75" x 13.75"
Laser Power	CO ² Glass 50W optional 70W (cut up to 3/8" wood / acrylic)
Material Capability	Organics / non-metal - can mark treated metals
Software Interface	2021 LightBURN Software
Machine Dimensions	61.5"L x 38.6"W x 45.3"H (70W tube extension and stand)
Motor type	Hybrid Servo Drives-1,300mm or 51"/sec
Z table	Push button lower or raise 8"
Material platform	Includes both Honeycomb & Knife Blade platforms
Venting Attachments	Air Exhaust fan w/ extended venting pipe
Platform Capacity	Up to 30 lbs. lifting 35 lbs. static
Power Supply	Standard AC 110V (220V upon request)
OS Compatibility	Windows, Mac OS, or Linux (32 or 64-bit)
Laser / PC Connectivity	USB and WiFi networking
Machine Stand	Steel stand w/ casters for mobility: 24" height (optional accessory)
Job Memory Capacity	128mb via. USB flash drive
Warranty	24 months (all parts & CO2 laser tube)
Class	Class 4 laser
Gross Weight	600 lbs. - machine only
Crate Dimensions / Gross Weight	63L X 39W x 51H / 600#



Upgrade to:
 A Stand = \$97
 65 Watts =\$250
 1620 Platform=\$250

To learn more about the Boss product range, visit www.bosslaser.com or contact an authorized BOSS representative in your local area.

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CDRH Class 1 safety enclosure for CO₂ laser. Class 3R for red laser pointer. Class 4 for pass-thru mode



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