

X-650Y Large Field Nd:YAG Laser System



Designed for versatility and ease of use, the X-650Y Large Field Diode Pumped Nd:YAG Laser Marking & Engraving System is well-suited for marking a wide variety of products. This computer-controlled laser system can permanently identify parts with logos, dates, serial numbers, etc. The system is directly compatible with popular Windows™ based CAD and graphics programs, so there is no need for proprietary conversion software in order to engrave graphic images and logos.

With an engraving area of 32" x 18", the Nd:YAG system has the largest marking field

in the industry. The laser beam remains perpendicular to the table, so marking is uniform over the full 32" x 18" field. Spot size and resolution also remain the same over the entire field.

This system is convenient to use with large top and front loading doors for easy access to the work area. And the stationary work table eliminates the need for clamping materials during processing. The compact size of this system allows it to fit easily into any facility. The system is completely enclosed and meets CDRH Class 1 safety requirements.

Examples of Applications:

MARKING

- Part Identification
- Medical Instruments
- Tools
- Electronic Components
- Aerospace and Automotive Parts

ENGRAVING

- Control Panels
- Specialty Items
- Identification Tags
- Schematic and Diagram Tags

Materials Include:

- Stainless Steel
- Aluminum
- Brass
- Copper
- Coated Metals
- Plastics

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SPECIFICATIONS

Design	Free-standing unit with integrated cart, motorized Z-axis, auto focus, X-Y beam positioning system with RACER™ motion technology, self-aligning spring loaded sealed bearings, stationary processing table, shielded optics, flash upgradable electronics, job complete indicator and system status indicator.
Laser Source	Diode pumped 50 watt, Q-Switched, Nd: YAG Laser.
Laser Control	Laser control through Windows™ printer driver.
Work Area	32" x 18" (812 x 432mm)
Table Size	37" x 23" (940 x 584mm)
Maximum Part Size	37" wide x 23" deep x 9" thick (940 x 584 x 228mm).
Computer Interface	Parallel port standard. USB and ethernet optional. Compatible with Windows™ 95/98/2000/XP.
Memory Buffer	Intelligent buffer with automatic data compression stores up to 99 files with all settings; files are addressable and repeatable in any order and may be deleted after completion to free memory; buffer can be switched to a single file mode.
Display Panel	LCD display shows current file name, laser settings, engraving speed, run time, files loaded into memory buffer, setup and diagnostic menus.
Operating Modes	Optimized raster or vector processing or combined vector/raster processing.
Dimensions	Laser system: 39" high x 44" wide x 37.5" deep (990 x 1117 x 952mm). Laser power unit: 33" high x 23" wide x 24" deep (838 x 584 x 609mm).

Weight System: Approximately 350 pounds (158kg). Laser power unit: Approximately 250 pounds (113kg).

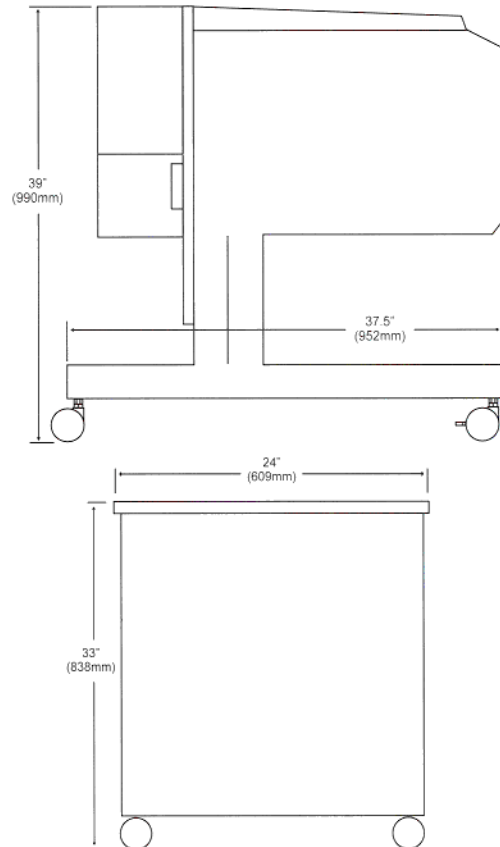
Safety Class 1 interlocked safety enclosure.

FACILITY REQUIREMENTS

Electrical Single phase 220 VAC, 20 amp, 50/60 Hz

Exhaust Outside exhaust required. Two 4" (102mm) connections requiring 300 CFM total (150 at each connection) air flow and high pressure blower capable of 6 inches of water (425m³/hr at 1.5kPa).

Cooling Water-cooled with built-in chiller. No external connections required.



UNIVERSAL
LASER SYSTEMS INC.

16008 North 81st Street Scottsdale, Arizona 85260 USA
Voice: 800-859-7033 or 480-483-1214
Fax: 480-483-5620 Web: www.ulsinc.com