

SERIES 30 WELDING SYSTEM



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Custom Built Laser Welding & Cutting Workstations

Flexible Class I & IV Laser Systems that Build In-House Capabilities

Litron develops world-class laser systems for laser welding, tacking and cutting of precision components. From concept through installation, training and support, we bring world-class standards to your finger tips.

Built with top of the line components to ensure a robust, accurate and repeatable setup for the most demanding of applications.

- TRUMPF Nd:YAG lasers
- GE Fanuc controllers
- Litron's Toolworker™ Software



Welding or Cutting



Laser Safety



High End Controls



Operator Friendly



Typical Materials Processed:

- Stainless Steel
- Titanium
- Aluminum
- Kovar
- Hastelloy
- Nitinol

Just Right For Your Industry...

Our laser welding, cutting and tacking stations are ideal for a variety of industries including:

- Medical
- Aerospace
- Battery / Fuel Cell
- Pressure Sensors
- Speciality Electronics
- R&D Labs / Product Development
- Contract Manufacturers
- And others

Robust, Durable and Repeatable

Durable construction, solid engineering and high quality components keep your workstation hassle-free while making reliable and repeatable tacks, welds and cuts in the lab or on the shop floor.

Our Frame



Their Frame



LITRON
1-866-LITRON-1
ISO 9001:2008 CERTIFIED

www.litron.com

— Laser Workstation Specifications —

Laser Options

Power Range	Nd:YAG	CW: 200W-4000W	Pulsed: 21W-556W
Typical Cooling System	Air or water, depending on power.		
Laser Supplier	TRUMPF - For specifications see: http://www.us.trumpf.com/products/laser-technology/products/solid-state-lasers.html		

Motion System

Typical X Ranges	4" to 30"	Typical Y Ranges	8" to 28"
Typical Z Ranges	5" to 10"	Typical B Axis	Tilting Z +/- 35°
Typical Accuracy	15-25um, depending on travel	Typical Repeatability	1um
Table Manufacturers	Danaher, Lintech		

Controls

Software	Litron Toolworker™. Runs on standard PC platform.
Vision	Integrated digital camera, programmable.
Process Gas	Integrated variable flow process gas (Fixed or Flexible Nozzle)
Power Measurement	Integrated work piece power meter
Audit/Validation Tools	Audit trail of machine and operator actions SQL interface to machine and productivity data
Customized I/O	Provision for customer defined pneumatics and other i/o
CNC/PMC Controller	FANUC
Operator Interface	PC / Windows / RAID Data Protection Touch Screen (standard option) Direct Laser and Motion control from PC

Laser & Operator Safety

CDRH Laser Safety	Class I (no special operator protection required). If Class IV operation is required, facility safety features (room interlocks, curtains, etc) can be integrated by Litron.	
Lightgreen Color, VLT 70% Laser Safety Glass Viewing Window	OD 4+ @ 200-400nm	OD 3+ @ 808-1070nm
	OD 4+ 860-1070nm	OD 6+ @1064nm
	OD 5+ @ 10600nm	
Automatic Door	Safety Stop Strip (Pinch Pad)	
Motion Control	Over travel limits	
Emergency Stop	Mushroom buttons on frame and laser	
Interlocks	Motion and laser safety interlocks	

Laser Station Frame

Standard Height	85"	Standard Width	48"
Standard Depth	36"		
Frame Construction	1/8" Thick Sheet Metal. Stages rest on 1" steel frame plate.		
Footing, Mobility	Heavy duty casters. Seismic support available. Floor leveling feet.		
Storage	Storage cabinet in base with adjustable shelf		
Workspace	Clear open table area - easy to clean out		

Facility Requirements

Voltage	208 Volts 3 PH+N+PE	Amperage	30 AMPS
Pneumatics	Nitrogen or Compressed Air (80 psi)		
Chilled water (if required)	5-25C, 6bar max, flow 2.5 m/hr typical at 2bar		

Options

Soot Removal System	Ophir Power Measurement Device
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*Litron Laser Systems are custom built for your process.
We routinely adapt our standard systems to special requirements.*

Call Litron now or request a quote at www.litron.com/systems/request-for-quote.asp



Get these specs online >>