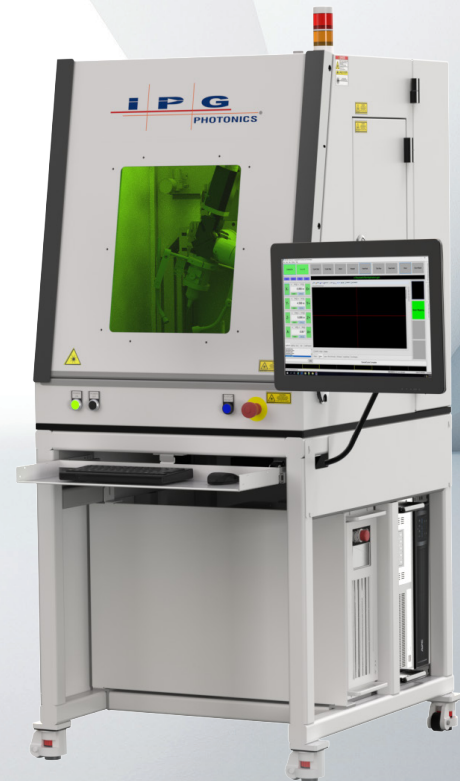


1500

Precision Laser Workstation



FEATURES

- ▶ CDRH Class I, Laser Processing System
- ▶ Compact Footprint (30" W X 35" D)
- ▶ Welded Steel Frame & Enclosure
- ▶ Pneumatic Vertical Door with Edge Safety
- ▶ 3-Axis Motion System (Upgradeable to 5-Axis)
- ▶ Integration of Fiber Delivered Lasers
- ▶ Cutting or Welding Focus Assembly & Optics
- ▶ Crash Protection
- ▶ Touchscreen Operator Interface



BENEFITS

- ▶ High Precision Delivers High Part Yield
- ▶ IPG Core Software removes barriers to regulatory compliance
- ▶ G/M Code Program Options for CNC Familiarity
- ▶ Robust Industrial Design Ensures High Availability
- ▶ Turnkey Process Development Available to Streamline Process Qualification

The **1500** is a Class 1 fiber laser processing system capable of performing a variety of applications including welding, cutting, drilling and more.

The **1500** has a compact design, configured to order and built with a comprehensive solution for your specific needs, allowing for lower costs and faster delivery than a fully customized system. With flexible configuration options the system is easily integrated onto the manufacturing floor for prototyping as well as full-scale production. The 1500 can be supplied turnkey with processing recipes developed by our specialists prior to tool delivery, further accelerating tool move-in, qualification, and time to production.

1500

Precision Laser Workstation

System Specifications

Laser Sources, W	Continuous Wave: 300, 500 QCW: 150/1500 & 300/3000
Beam Delivery	IPG Welding Head, with Optional Wobble Welding Module
Part Loading	Manual loading with automatic door
Motion Control	Three Axis, upgradable to four axes total
Process Gas	Single programmable gas standard, multiple gasses optional

Motion Stages

Travel (X x Y x Z) mm	200 x 200 x 150
Max Speed (mm/sec)	300
Stage Type	Precision Machined Ballscrew Stage
Tooling	Threaded Aluminum Base Plate

General Characteristics

Dimensions, W x D x H, mm	765 x 890 x 1780
Weight, kg.	800
Process Gas	Welding: Manually Adjustable Pressure Regulator & Computer Controlled Solenoid Valve and Flow Switch for One Process Gas
Illumination & Camera	Programmable Lighting Controller with coaxial camera
Controls/ Interface	IPG Core or HMI-2200 User Interface Industrial PC /Windows 10 Operating System 22" LCD Touchscreen, Industrial UPS
Safety	CDRH Class I Laser System (Complies with 21 CFR Chapter 1, Subchapter J)

System Options

Process Monitoring	LDD Real Time Direct Weld Measurement
Motion Axes	A-Axis
Vision	Camera/ Vision Systems
Illumination	Computer Controlled Illumination
Power Measurements	On-Target Power Meter Pulse Energy Detector
Gas Handling	Programmable Gas Control
Data Input	Remote Jog Box Barcode Scanner RFID Reader
Beam Delivery Options	Automated Dual Collimator, Multiple Lens configuration
Remote I/O	Remote I/O
21CFR Part 11 Software	21CFR Part 11 Software
Factory Integration	Factory MES Software

www.ipgphotonics.com

Legal notices: All product information is believed to be accurate and is subject to change without notice. Information contained herein shall legally bind IPG only if it is specifically incorporated into the terms and conditions of a sales agreement. Some specific combinations of options may not be available. The user assumes all risks and liability whatsoever in connection with use of a product or its application. IPG, IPG Photonics, The Power to Transform and IPG Photonics' logo are trademarks of IPG Photonics Corporation. © 2025 IPG Photonics Corporation. All rights reserved.