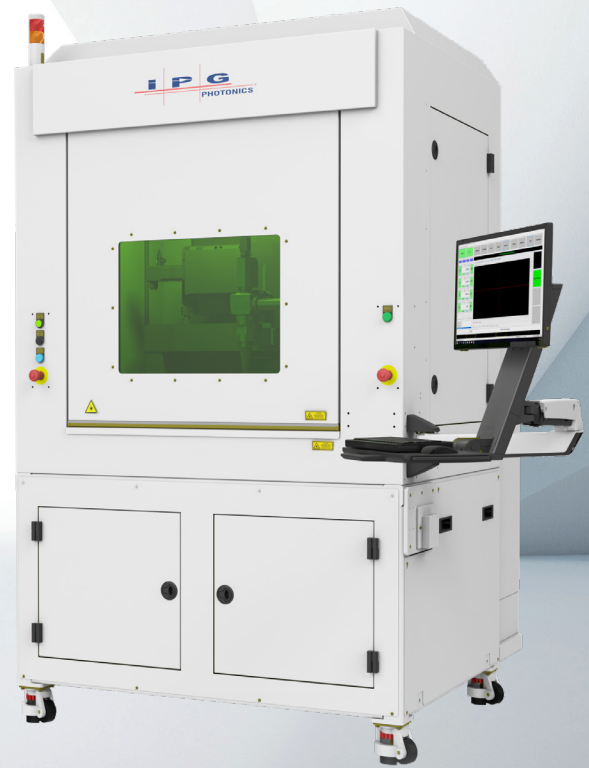


3000

Precision Laser Workstation



FEATURES

- ▶ CDRH Class I, Laser Processing System
- ▶ Welded Steel Frame & Enclosure
- ▶ Pneumatic Vertical Door with Edge Safety & Granite Base Plate
- ▶ 3-Axis Motion System (Upgradeable to 5-Axis)
- ▶ Compatible with Fiber Delivered Lasers
- ▶ Cutting or Welding Focus Assembly & Optics
- ▶ Crash Protection
- ▶ Touchscreen Operator Interface



BENEFITS

- ▶ Fully Customizable to User Specifications to Optimize Productivity, Yield & Cost
- ▶ IPG Core Software removes barriers to regulatory compliance
- ▶ Robust Design Ensures High Availability
- ▶ G/M Code Programming Options for CNC Familiarity
- ▶ Turnkey Process Development Available to Streamline Process Qualification

The **3000** is a Class 1 fiber laser processing workstation designed for the medical device and aerospace industries and configurable for high-precision welding, cutting and drilling applications. The large, enclosed workstation can incorporate automated part handling and support multiple laser processes if required. Industry leading HMI-2200 user-interface comes standard with a robust library of proven and validated processing routines that integrate with MES as well as providing real-time and historical data logging for regulatory compliance. Hardware options include vision systems and programmable lighting for automated part alignment and inspection, barcode and RFID scanners and comprehensive programmable I/O to reduce operator dependency and increase quality and yield.

The **3000** can be supplied as a turnkey system; processing recipes and programs are developed by IPG's laser processing specialists prior to tool delivery, further accelerating tool characterization, qualification and minimizing time to production.

3000

Precision Laser Workstation

System Specifications

Laser Sources, W	Most IPG Laser sources supported
Beam Delivery	IPG Wobble Head, IPG Welding Head, IPG Scanning Head
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	500 x 300 x 300
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	1420 x 1325 x 2285
Weight, kg.	2000
Process Gas	Programmable Gas Flow Control
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, B-Axis (up to five axes total)
Vision	Camera Vision System for automatic alignment and calibrations
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
Custom Automation	Custom Automation Available

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