

# FIBERSTAR® WELDING WORKSTATION

## 7601 Series



### ★ HIGHLIGHTS

- ✓ Excellent Pulse-To-Pulse Stability ( $< \pm 1\%$ )
- ✓ Standard & Micro Welding Modes
- ✓ Maintenance-Free Air-Cooled Laser
- ✓ Integrated Beam Expander & Microscope
- ✓ Available in 150 & 300 Watt Models

### ★ Multiple Viewing System Options

- ✓ 15x to 40x Stereo Binoculars & Trinoculars
- ✓ 15x Ergonomic Dynascope
- ✓ Higher Magnification Digital Options (DVS)

### ★ Laser Control Touchscreen

- ✓ Automatic Energy Save Mode
- ✓ Preventive Maintenance Alerts
- ✓ Multi-Language System Display
- ✓ Pre-Programmed Applications

### ★ Large Viewing Window

### ★ Automation Chamber

- ✓ Tri Door Design (with Optional Interlocks)
- ✓ Fixture-Ready Threaded-Hole Base



**Laser Safety Compliance**  
FDA(CDRH), CE

✓ Medical Device Components

✓ Battery Tab Welding

✓ Aerospace & Electronics

✓ High Value Component Assembly

✓ Micro & Mold Repair Welding

✓ Spot & Seam Welding Applications

✓ Ideal for a Wide Range of Complex Alloys

#### STABLE, RELIABLE, REPEATABLE PULSE AFTER PULSE

Energy (J)	# Shots	Test Duration	STD. DEV. (mJ)
.150	50	150 SEC.	0.90
.500	50	150 SEC.	1.2
2.00	50	150 SEC.	6.50



## LASERSTAR ACADEMY™

Our education courses are designed to provide you with a solid foundation of fundamental laser skill sets to immediately gain a revenue impact with your new laser device.

[LaserStarAcademy.com](http://LaserStarAcademy.com)

Technical Specifications at [www.LaserStar.net](http://www.LaserStar.net)

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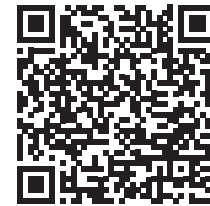


System Platform	Pedestal
Beam Delivery Presentation	90°
Wavelength	1070 nm
Operating Mode	Standard Mode, Micro or CW (Continuous Wave)
Polarization	Random
Output Power Stability	< +/-1%
Output Power (Average)	150 W, 300 W
Maximum Peak Power	1.5 kW, 3.0 kW
Beam Output Mode	Single or Multi-Mode
Pulse Width	0.2-75 ms
Pulse Frequency	0 Hz (Single-Shot Fire), 0.5-20 Hz
Burst (Count) Mode	1-999 pulses
Spot Size	> 25 micron
Cooling System	Internal Forced Air
Cooling Capacity-Run Time	24 Hour / Continuous
Supply Circuit	240 V, 50/60 Hz, 20 AMP, Single Phase
Stereo Microscope	15x (optional 25x, 40x)
Digital Viewing System (DVS)	25x-115x (optical dependent)
Parameter Adjustment Features	External Touchscreen In Chamber Joystick
Programming Memory	79 Text Cells
Language Display Options	English
Motorized Beam Expander	Yes
Shield Gas Supply	Integrated "Soft Flow" Nozzle
Inert Gas Welding Chamber Adjust Value	Dual - Integrated
Welding Chamber Dimensions (*To Focus Area)	15.5" L x 23.9" W x 8.7" H* 394 mm x 607 mm x 221 mm*
Pedestal Workstation "Footprint" Dimensions	40.4" L x 24.3" W x 46.8" H 1027 mm x 618 mm x 1187 mm
Approx. Weight (Unpackaged)	220 lbs. / 100 kg
Warranty Coverage (Parts & Labor)	As Quoted
Laser Safety Certification Compliance	FDA(CDRH), CE

FiberStar **7601 Series Laser Welding Systems** offer cutting edge laser resonator technology which provides high peak power, optimal performance and throughput, higher up-time, enhanced electrical efficiency, and a space saving air-cooled design.

Solid state diodes provide instantaneous power with **no "warm up time"** required. Removable laser welding chambers are designed to be **custom configured** for the widest range of laser welding applications. High precision **motion devices** are engineered to integrate into the laser welding system chamber.

The FiberStar Laser Welding Workstation offers a significant competitive advantage for today's **aerospace, electronics, medical device and micro component** assembly marketplace subject to stringent quality requirements.



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Compatible With



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