



LASERSTAR OPEN WELDING WORKSTATION

7700 Series



★ HIGHLIGHTS

- ✓ Compact & Portable Design
- ✓ Water Cooled Laser
- ✓ Excellent Pulse-To-Pulse Stability
- ✓ Pulse Performance Profile Technology
- ✓ Available in 80 & 150 Watts

- ★ **Maintenance Free LaserStar Engine**
- ★ **Various Microscope Options Available**
- ★ **MotionFX[®] CNC X/Y/Z-Rotary Integrated System**
 - ✓ Includes Removable Axis Device
 - ✓ Manual, Semi, & Full Automatic Modes
 - ✓ Teach-Mode Enabled
 - ✓ Joystick with Fire Button Control Logic
 - ✓ Programmable Touch Screen Display
 - ✓ High Accuracy X/Y/Z Axis Speed Control
 - ✓ Includes Removable Rotary Device
- ★ **Tilting Optical Beam Path Head**
- ★ **Pulse Performance Profile[®] (P3) Shaping Technology**



✓ Medical Device Components

✓ Micro & Mold Repair Welding

✓ Automotive & Micro Components

✓ Computer Components

✓ Spot & Seam Welding

✓ Aerospace & Electronics

✓ Ideal for a Wide Range of Complex Alloys



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

Technical Specifications at www.LaserStar.net

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Laser Source	Nd: YAG
Operator Mode	Pulse
Output & Peak Power	80W (0.8kW) / 150W (1.5kW)
Pulse Frequency	0.5 - 50 Hz
Beam Diameter	>75 microns
X-Y-Z Axis Travel	175mm x 100mm x 150mm
Max Load	50 kg (110 lbs.)
XY Resolution (µm)	12.5 microns
Accuracy (Linear Axis Only)	+/- (25 microns) per 25mm of travel
Speed (mm/sec)	15mm/sec
Software	CNC MotionFX® w/ Teach-Mode & Manual
Joystick	Direct Axis Control, Fire Button
Cooling Capacity	Internal Forced Air / 24 hr Continuous Run Time
Shielding Gas/Compress Air	Dual - Integrated "Soft Flow" Nozzle
Weight	Approx. 250 lbs./113KG
Engine Dimensions	30"L x 24"W x 27"H / 76cm x 61cm x 69cm
Supply Circuit	208-240 V, 50/60Hz, Single Phase
Laser Safety Compliance	FDA (CDRH), CSA, CE
Country of Origin	Designed, Engineered & Built in USA

LaserStar's 7700 Series Dual Component Manual Laser Welding Systems are ideal for a wide range of unique and custom integration applications to meet the various demands of metal joining, complex assembly, and repair applications for the industrial marketplace.

Solution providers can benefit from a compact, portable, dual component design, making integration quick and easy for many Class 1 and Class 4 configurations.

Operators hold parts in their hands while viewing the application through a stereo-microscope in the welding area. An internal cross-hair allows the operator to easily align and weld the parts at the correct location.



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