



# 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® (P<sup>3</sup>) 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](http://LaserStarAcademy.com)

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

# LASERSTAR® OPEN WELDING WORKSTATION

## 7700 Series

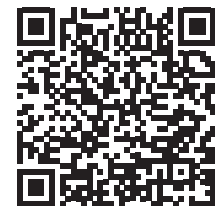


<b>Laser Source</b>	Nd:YAG
<b>Operator Mode</b>	Pulse
<b>Output &amp; Peak Power</b>	80 W (0.8 kW) / 150 W (1.5 kW)
<b>Pulse Frequency</b>	0.5-50 Hz
<b>Spot Size</b>	>75 microns
<b>X-Y-Z Axis Travel</b>	175 mm x 100 mm x 150 mm
<b>Max Load</b>	50 kg (110 lbs.)
<b>XY Resolution (µm)</b>	12.5 microns
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

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 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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**LASERSTAR TECHNOLOGIES CORPORATION**  
1717 Diplomacy Row, Orlando, Florida 32809 USA  
Phone: +1-407-248-1142 ★ Email: sales@laserstar.net