



LASERSTAR CNC WELDING WORKSTATION

7803 Series



★ HIGHLIGHTS

- ✓ Powerful, State-Of-The-Art Design
- ✓ High Precision 3 Axis Coordinated Motion
- ✓ Manual & CNC Programming Modes
- ✓ Excellent Pulse-To-Pulse Stability
- ✓ Available in 150 Watts



- ★ **Portable Joystick Control with Fire Button Control Logic**
- ★ **Robust Work Table w/ Z Axis Adjustment**
(Max Part Weight 200 lbs / 91 kg)
- ★ **MotionFX[®] CNC X/Y/Z Integrated System**
 - ✓ 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
 - ✓ Optional Rotary Device
- ★ **Telescoping Laser Rail Assembly**
- ★ **Integrated Windows PC with MotionFX[™] Software**
- ★ **Tilting Optical Beam Path Head (Optional)**

- ✓ A Must for All Welding Workshops
- ✓ Ideal for Large Plastic Injection Mold Shops
- ✓ Tool & Die / Mold Repair Maintenance
- ✓ Repair Slots, Pockets, Contours & Angles
- ✓ Repair Polished, Textured, Engraved Surfaces
- ✓ Parting Line Edges & Heat Sensitive Areas
- ✓ Tool Steel, Aluminum, Copper, Titanium, etc.



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	150W (11kW)
Pulse Frequency	0.5 - 20 Hz
Beam Expander Range	0.05-2.00 mm
X-Y Axis, Table Lift Column Travel	250mm x 250mm x 200mm
Max Load	200 lbs (91 kg)
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 Water-To-Air
Shielding Gas/Compress Air	Dual - Integrated "Soft Flow" Nozzle
Burst / Speed Welding	Optimized to Energy Values
Supply Circuit	208-240 V, 50/60Hz, Single Phase
Laser Safety Compliance	FDA (CDRH), CSA, CE
Country of Origin	Designed, Engineered & Built in USA

The **FiberStar 7803 series** is a state of the art, joy stick controlled, 3 axis laser welding system equipped with LaserStar's **MotionFX** G-code programming software.

The open workspace design is ideal for a wide range of **component assembly** and **welding repair applications** including plastic injection molds, dies and tooling repair, complex electronic components, high precision industrial assemblies, pressure sensitive hermetic laser sealing, and other unique industrial applications.

The **benefits** of **LaserStar** laser technology is that very little heat is generated at the weld point allowing users to easily weld **<0.025mm** from complex, heat sensitive, intricate parts while providing unparalleled **pulse stability of +/- 1%**.



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