



## FIBERSTAR CNC WELDING WORKSTATION

8803 Series



### ★ HIGHLIGHTS

- ✓ Powerful, State-Of-The-Art Design
- ✓ High Precision 3 Axis Coordinated Motion
- ✓ Manual & CNC Programming Modes
- ✓ CW & Pulse Laser Output Modes
- ✓ Available in 150, 300, 450 & 600 Watts



- ★ **Portable Joystick Control with Fire Button Control Logic**
- ★ **Robust Work Table w/ Z Axis Adjustment**  
(Max Part Weight 200 lbs / 91 kg)
- ★ **MotionFX<sup>®</sup> 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<sup>™</sup> 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<sup>™</sup>**

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)

# FIBERSTAR CNC WELDING WORKSTATION

## 8803 Series



<b>Laser Source</b>	Fiber Engine
<b>Operator Mode</b>	Pulse or Continuous Wave (CW)
<b>Output &amp; Peak Power</b>	150W (1.5kW) / 300W (3.0kW) 450W (4.5kW) / 600W (6.0kW)
<b>Pulse Frequency</b>	0.5 - 50 Hz
<b>Beam Diameter</b>	>75 microns
<b>X-Y Axis, Table Lift Column Travel</b>	250mm x 250mm x 200mm
<b>Max Load</b>	200 lbs (91 kg)
<b>XY Resolution (µm)</b>	12.5 microns
<b>Accuracy (Linear Axis Only)</b>	+/- (25 microns) per 25mm of travel
<b>Speed (mm/sec)</b>	15mm/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. 260 lbs./118KG
<b>Supply Circuit</b>	208-240 V, 50/60Hz, Single Phase
<b>Laser Safety Compliance</b>	FDA (CDRH), CSA, CE
<b>Country of Origin</b>	Designed, Engineered & Built in USA

The **FiberStar 8803 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 **FiberStar** 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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