

**FIBERSTAR® CNC WELDING WORKSTATION**

8803 Series

★ **HIGHLIGHTS**

- ✓ Robust Industrial Open Workspace Design
- ✓ 3 Axis Coordinated MotionFX® Hardware
- ✓ Advanced MotionFX® Integrated Software
- ✓ Operating Modes: Manual, CNC, Teach Mode
- ✓ 150, 300, 450 & 600 Watt Models



*Tilting Optical Beam  
Path Head*

★ **Portable Joystick Control with Fire Button Control Logic**★ **Sturdy Work Table w/ Z Axis Adjustment**

(Max Part Weight 200 lbs / 91 kg)

★ **MotionFX® Full CNC X/Y/Z Integrated System**

- ✓ Manual, Semi, & Full Automatic Modes
- ✓ Teach-Mode Enabled
- ✓ Joystick with Fire Button Control Logic
- ✓ Motion-Control Touchscreen
- ✓ High Accuracy X/Y/Z Axis Controller
- ✓ 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, Radius 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](http://LaserStarAcademy.com)

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

|                                       |  |
|---------------------------------------|--|
| Laser Source                          | 1070nm Ytterbium Fiber Engine                              |
| Operator Mode                         | Pulse or Continuous Wave (CW)                              |
| Average & Peak Power                  | 150W (1.5kW) / 300W (3.0kW)<br>450W (4.5kW) / 600W (6.0kW) |
| Pulse Frequency                       | 0Hz (Single-Shot Fire), 0.5-50Hz                           |
| Minimum Spot Size                     | >25 microns (configuration dependent)                      |
| X-Y Axis, Table Lift<br>Column Travel | 250mm x 250mm x 200mm                                      |
| Max Load                              | 200lbs (91kg)  |
| 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            | Integrated "Soft Flow" Nozzle                              |
| Supply Circuit                        | 208-240V, 50/60Hz, Single Phase                            |
| Laser Safety Compliance               | FDA(CDRH), CE  |

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 programing 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 transferred from 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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**MOTIONFX**



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