



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

Technical Specifications at www.LaserStar.net

Laser Source	1070nm Ytterbium Fiber Engine
Operator Mode	Pulse or Continuous Wave (CW)
Average & Peak Power	150 W (1.5 kW) / 300 W (3.0 kW) 450 W (4.5 kW) / 600 W (6.0 kW)
Pulse Frequency	0 Hz (Single-Shot Fire), 0.5-50 Hz
Minimum Spot Size	>25 microns (configuration dependent)
X-Y Axis, Table Lift Column Travel	250 mm x 250 mm x 200 mm
Max Load	200 lbs (91 kg)
XY Resolution (µm)	12.5 microns
Accuracy (Linear Axis Only)	+/- (25 microns) per 25 mm of travel
Speed (mm/sec)	15 mm/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	208-240 V, 50/60 Hz, 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 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 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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