

## FIBERSTAR CNC WELDING WORKSTATION

8803 Series

# LASERST R

#### **HIGHLIGHTS**

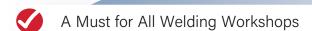
- Robust Industrial Open Workspace Design
- 3 Axis Coordinated MotionFX® Hardware
- Advanced MotionFX® Integrated Software
- Operating Modes: Manual, CNC, Teach Mode
- 150, 300, 450 & 600 Watt Models



Tilting Optical Beam Path



- ★ 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<sup>™</sup> Software
- ★ Tilting Optical Beam Path Head (Optional)









Repair Polished, Textured, Engraved Surfaces

Parting Line Edges & Heat Sensitive Areas

Tool Steel, Aluminum, Copper, Titanium, etc.



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

### FIBERSTAR CNC WELDING WORKSTATION

8803 Series



Laser Source	Fiber Engine
Operator Mode	Pulse or Continuous Wave (CW)
Output & Peak Power	150W (1.5kW) / 300W (3.0kW) 450W (4.5kW) / 600W (6.0kW)
Pulse Frequency	0.5 - 50 Hz
Beam Diameter	>75 microns
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 Forced Air / 24 hr Continuous Run Time
Shielding Gas/Compress Air	Dual - Integrated "Soft Flow" Nozzle
Weight	Approx. 260 lbs./118KG
Supply Circuit	208-240 V, 50/60Hz, Single Phase
Laser Safety Compliance	FDA (CDRH), CSA, 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 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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