



FIBERSTAR CNC WELDING WORKSTATION

8803 Series

LASERST R
TECHNOLOGIES

★ 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

★ 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, 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

FIBERSTAR CNC WELDING WORKSTATION

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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, joystick 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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MOTIONFX[®]



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