



# LASERSTAR CNC WELDING WORKSTATION

7803 Series



## ★ HIGHLIGHTS

- ✓ Robust Industrial Open Workspace Design
- ✓ 3 Axis Coordinated MotionFX® Hardware
- ✓ Advanced MotionFX® Integrated Software
- ✓ Operating Modes: Manual, CNC, Teach Mode
- ✓ 80 & 150 Watts / Peak Power: 11kW



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, Contours & Angles

✓ Repair Polished, Textured, Engraved Surfaces

✓ Parting Line Edges & Heat Sensitive Areas

✓ Tool Steel, Aluminum, Copper, Titanium, etc.



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## 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)

# LASERSTAR CNC WELDING WORKSTATION

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Laser Source	Nd:YAG
Operator Mode	Pulse
Output Power (Watts)	80W & 150W
Pulse Frequency	0.5 - 20 Hz
Beam Expander Range	0.05-2.00 mm
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 Water-To-Air
Shielding Gas/Compress Air	Dual - Integrated "Soft Flow" Nozzle
Burst / Speed Welding	Optimized to Energy Values
Supply Circuit	208-240 V, 50/60Hz, Single Phase
Laser Safety Compliance	FDA (CDRH), CSA, CE
Country of Origin	Designed, Engineered & Built in USA

LaserStar's 7803 Series manual welding systems are ideal for a variety of common welding applications including plastic injection mold, dies and tooling repair, complex electronic components, high-precision industrial assemblies, pressure-sensitive hermetic laser sealing, and other unique industrial applications for the automotive, aerospace, aviation, computer, medical device, mold repair, and consumer product industries.

Operators hold parts in their hands while viewing the application through a stereo-microscope in the welding zone. An internal cross-hair allows the operator to easily align and weld the parts at the correct location.



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