



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

Technical Specifications at www.LaserStar.net

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7803 Series



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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 |

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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