



LASERSTAR OPEN WELDING WORKSTATION

7803 Series

LASERSTAR[®]
TECHNOLOGIES

★ HIGHLIGHTS

- ✓ Open, Mobile, Multi-Purpose Design
 - ✓ Three Axis Precision Motorized Table
 - ✓ Excellent Pulse-To-Pulse Stability
 - ✓ Tilting Optical Beam Path Head
 - ✓ Available in 150 Watts
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- ★ **Portable, Multi-Axis Joystick with Fire Button Control Logic**
 - ★ **Robust Three Axis Motorize Work Table (Max. Part Weight 300 lbs/135kg)**
 - ★ **Telescope & Tilt Laser Rail Assembly**
 - ★ **Tilting Optical Beam Path Head (Optional)**
 - ★ **Motorized Z-Axis Column**
 - ✓ Travel 9.8" (250mm)
 - ★ **Variety of Motion Devices Available**
 - ★ **Pulse Performance Profile (P3) Shaping Technology**



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.



Pulse
Performance
Profile Technology[®]



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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LASERST R
TECHNOLOGIES

Laser Source	Nd:YAG (1064nm)
Pulse Length	0.1 - 50 milli-seconds
Output & Peak Power	150W
Pulse Frequency	0.05 - 20 Hz
Beam Diameter	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 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
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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