

LASERSTAR® CNC WELDING WORKSTATION

7901 Series



★ HIGHLIGHTS

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

★ Mult-Axis Joystick with Fire Button Control Logic

★ Various Microscope Options Available

★ MotionFX® CNC X/Y/Z-Rotary Integrated System

- ✓ Includes Removable Axis Device
- ✓ 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
- ✓ Includes Removable Rotary Device

★ Tilting Optical Beam Path Head

★ 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

Laser Source	Nd:YAG
Operator Mode	Pulse
Output Power (Watts)	80W & 150W
Pulse Frequency	0.5-50Hz
Spot Size	0.05-2.00mm
X-Y-Z Axis Travel	175mm x 100mm x 150mm
Max Load	50kg (110lbs.)
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
Weight	Approx. 1140lbs./517KG
Pedestal Dimensions*	50.5"L x 44.5"W x 66"H / 128cm x 113cm x 167cm
Supply Circuit	208-240V, 50/60Hz, Single Phase
Laser Safety Compliance	FDA (CDRH), CSA, CE

* Motion in lowest/center positions, actual size changes based on position of the axis.

The LaserStar's 7901 Series state of the art, joystick-controlled, 3 axis manual laser welding system equipped with LaserStar's MotionFX® G-code programming software.

Dual operator logic allows for system control via the Joystick and/or Multi-Purpose Touch Screen Display.

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 pressure sensitive hermetic laser sealing, and other unique industrial applications.



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MOTIONFX®



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LASERSTAR.TV

LASERSTAR TECHNOLOGIES CORPORATION

2461 Orlando Central Parkway Orlando, Florida 32809 USA

Phone: +1-407-248-1142 ★ Email: sales@laserstar.net