

# LASERSTAR® CNC WELDING WORKSTATION

## 7902 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: 11 kW

### ★ 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® (P<sup>3</sup>) 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.



## 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)

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<b>Laser Source</b>	Nd:YAG
<b>Operator Mode</b>	Pulse
<b>Output Power (Watts)</b>	80 W & 150 W
<b>Pulse Frequency</b>	0.5-50 Hz
<b>Spot Size</b>	0.05-2.00 mm
<b>X-Y-Z Axis Travel</b>	175 mm x 100 mm x 150 mm
<b>Max Load</b>	50 kg (110 lbs.)
<b>XY Resolution (µm)</b>	12.5 microns
<b>Accuracy (Linear Axis Only)</b>	+/- (25 microns) per 25 mm of travel
<b>Speed (mm/sec)</b>	15 mm/sec
<b>Software</b>	CNC MotionFX® w/ Teach-Mode & Manual
<b>Joystick</b>	Direct Axis Control, Fire Button
<b>Cooling Capacity</b>	Internal Water-To-Air
<b>Shielding Gas/Compress Air</b>	Dual - Integrated "Soft Flow" Nozzle
<b>Weight</b>	Approx. 1140lbs./517KG
<b>Pedestal Dimensions*</b>	50.5" L x 44.5" W x 66" H / 128 cm x 113 cm x 167 cm
<b>Supply Circuit</b>	208-240 V, 50/60 Hz, Single Phase
<b>Laser Safety Compliance</b>	FDA(CDRH), CE

The LaserStar's 7902 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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\* Motion in lowest/center positions, actual size changes based on position of the axis.



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