

# iWELD® CNC INDUSTRIAL WORKSTATION WITH MOTIONFX®

1902 MFX Series



## ★ HIGHLIGHTS

- ✓ All the Benefits of the **1902** Series
- ✓ Precision 3 Axis Coordinated MotionFX® Hardware
- ✓ Advanced MotionFX® G-Code Integrated Software
- ✓ Operating Modes: Manual, CNC, Teach Mode
- ✓ 60, 80 & 100 Watts / Peak Power: 11 kW

## ★ All the Benefits of the 1902 Series Workstation

### ★ Various Microscope Options Available

### ★ 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

### ★ Pulse Performance Profile® (P<sup>3</sup>) Shaping Technology

### ★ Integrated Windows PC with MotionFX™ Software

### ★ Full Size Automation Chamber



✓ Spot & Seam Welding Applications

✓ High Value Component Assembly

✓ Medical Device Components

✓ Aerospace & Electronics

✓ Micro & Mold Repair Welding

✓ General Purpose Welding Shops

✓ Ideal for a Wide Range of Complex Alloys



Pulse  
Performance  
Profile Technology®

Laser Safety Compliance  
FDA(CDRH), CE




# 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)

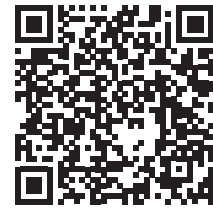
Technical Specifications at [www.LaserStar.net](http://www.LaserStar.net)

<b>Laser Source</b>	Nd:YAG
<b>Wavelength</b>	1064 nm
<b>Output Power (Watts)</b>	60 W / 80 W / 100 W
<b>Pulse Frequency</b>	0.5-20 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>	16 kg (35 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>Pulse Performance Profile Technology®</b>	Exclusive Integrated Software
<b>Weight</b>	Approx. 310 lbs./140 kg
<b>Pedestal Dimensions</b>	37.5" L x 15.8" W x 44" H / 95 cm x 40 cm x 112 cm
<b>Supply Circuit</b>	240 V, 50/60 Hz, Single Phase
<b>Laser Safety Compliance</b>	FDA(CDRH), CE
<b>Warranty Coverage</b>	As Quoted

\*: Spot Size achieved using an aperture.

The integrated MotionFX® CNC X/Y/Z Rotary Systems allow the user to benefit from pin-point laser welding accuracy with a highly accurate, multi-axis motion device. The 1902 MFX is designed to perform welding applications in Manual Mode, Semi-Manual Mode, or Full CNC Automation Mode. MotionFX® Software provides a variety of “programmable assist” features to ensure the best results possible.

Dual operator logic allows for system control via the Joystick and/or Multi-Purpose Touch Screen Display. Ideal for a wide range of applications including unique part welding & repair, small batches of parts, process & prototype development, fully automated CNC welding.



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**LASERSTAR TECHNOLOGIES CORPORATION**  
1717 Diplomacy Row, Orlando, Florida 32809 USA  
Phone: +1-407-248-1142 ★ Email: sales@laserstar.net