

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: 11kW

★ **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® (P³) 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

**Laser Safety Compliance**
FDA(CDRH), CSA, 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.comTechnical Specifications at www.LaserStar.net

Laser Source	Nd:YAG
Wavelength	1064nm
Output Power (Watts)	60W / 80W / 100W
Pulse Frequency	0.5-20Hz
Spot Size	0.05*-2.00mm
X-Y-Z Axis Travel	175mm x 100mm x 150mm
Max Load	16kg (35lbs.)
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
 Pulse Performance Profile Technology®	Exclusive Integrated Software
Weight	Approx. 310lbs./140KG
Pedestal Dimensions	37.5"L x 15.8"W x 44"H / 95cm x 40cm x 112cm
Supply Circuit	240V, 50/60Hz, Single Phase
Laser Safety Compliance	FDA (CDRH), CSA, CE
Warranty Coverage	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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