

FIBERSTAR® CNC IND'L WORKSTATION WITH MOTIONFX®

7601 MFX Series



★ HIGHLIGHTS

- ✓ All the Benefits of the **7601** Series
- ✓ 3 Axis Coordinated MotionFX® Hardware
- ✓ Advanced MotionFX® Integrated Software
- ✓ Operating Modes: Manual, CNC, Teach Mode
- ✓ 150 & 300 Watts / Single and Multi-Mode Models

★ All the Benefits of the 7601 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

★ 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), 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

Technical Specifications at www.LaserStar.net

FIBERSTAR® CNC INDUSTRIAL WORKSTATION WITH MOTIONFX® LASERSTAR TECHNOLOGIES

7601 MFX Series

System Platform	Pedestal
Beam Delivery Presentation	90°
Wavelength	1070 nm
Operating Mode	Standard Mode, Micro or CW (Continuous Wave)
Polarization	Random
Output Power Stability	< +/-1%
Output Power (Average)	150 W, 300 W
Maximum Peak Power	1.5 kW, 3.0 kW
Beam Output Mode	Single or Multi-Mode
Pulse Width	0.2-75 ms
Pulse Frequency	0 Hz (Single-Shot Fire), 0.5-20 Hz
Burst (Count) Mode	1-999 pulses
Spot Size	> 25 micron
Cooling System	Internal Forced Air
Cooling Capacity-Run Time	24 Hour / Continuous
Supply Circuit	240 V, 50/60 Hz, 20 AMP, Single Phase
Stereo Microscope	15x (optional 25x, 40x)
Digital Viewing System (DVS)	25x-115x (optical dependent)
Parameter Adjustment Features	External Touchscreen In Chamber Joystick
X-Y-Z Axis Travel	175 mm x 100 mm x 150 mm
Software	CNC MotionFX® w/ Teach-Mode & Manual
Language Display Options	English
Motorized Beam Expander	Yes
Shield Gas Supply	Integrated "Soft Flow" Nozzle
Inert Gas Welding Chamber Adjust Value	Dual - Integrated
Welding Chamber Dimensions (*To Focus Area)	15.7" L x 23.9" W x 5.9" H* 398 mm x 607 mm x 149 mm*
Pedestal Workstation "Footprint" Dimensions	47" L x 24.4" W x 46.7" H 1191 mm x 621 mm x 1135 mm
Approx. Weight (Unpackaged)	260 lbs. / 118 kg
Warranty Coverage (Parts & Labor)	As Quoted
Laser Safety Certification Compliance	FDA(CDRH), CE

The integrated MotionFX® CNC X/Y/Z Rotary Systems allow the User to benefit from pin-point laser welding accuracy coupled with a highly accurate, multi-axis motion device. The 7601 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