

OPEN WORKSPACE WELDING WORKSTATION

7800 Series

Today's precision welding marketplace specializing in laser spot welding or laser seam welding applications, have a wide range of new technologies available to enhance their ability to provide the highest level of quality, craftsmanship and service to their clients. LaserStar's 7800 Series manual welding systems are ideal for a variety of common welding applications including plastic injection mold, dies and tooling repair, complex electronic components, high-precision industrial assemblies, pressure-sensitive hermetic laser sealing, and other unique industrial applications for the automotive, aerospace, aviation, computer, medical device, mold repair and consumer product industries.

Operators hold parts in their hands while viewing the application through a stereo-microscope in the welding zone. An internal cross-hair allows the operator to easily align and weld the parts at the correct location.

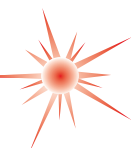
Many materials can be laser welded including 300 and some 400 series stainless steel, mild steels, nickel and nickel alloys, aluminum and aluminum alloys, titanium, precious metal alloys (gold, silver, and platinum), etc.

LaserStar offers multiple power levels (80 Watt - 200 Watt) to meet a wide variety of application requirements.

LaserStar Workstations are ideal for a wide range of complex alloys and applications.

HIGHLIGHTS

Open Workspace Design
Compact, Portable Design
80-200 Watt Models
Integration Ready

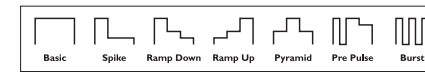


PERFORMANCE FEATURES AND BENEFITS

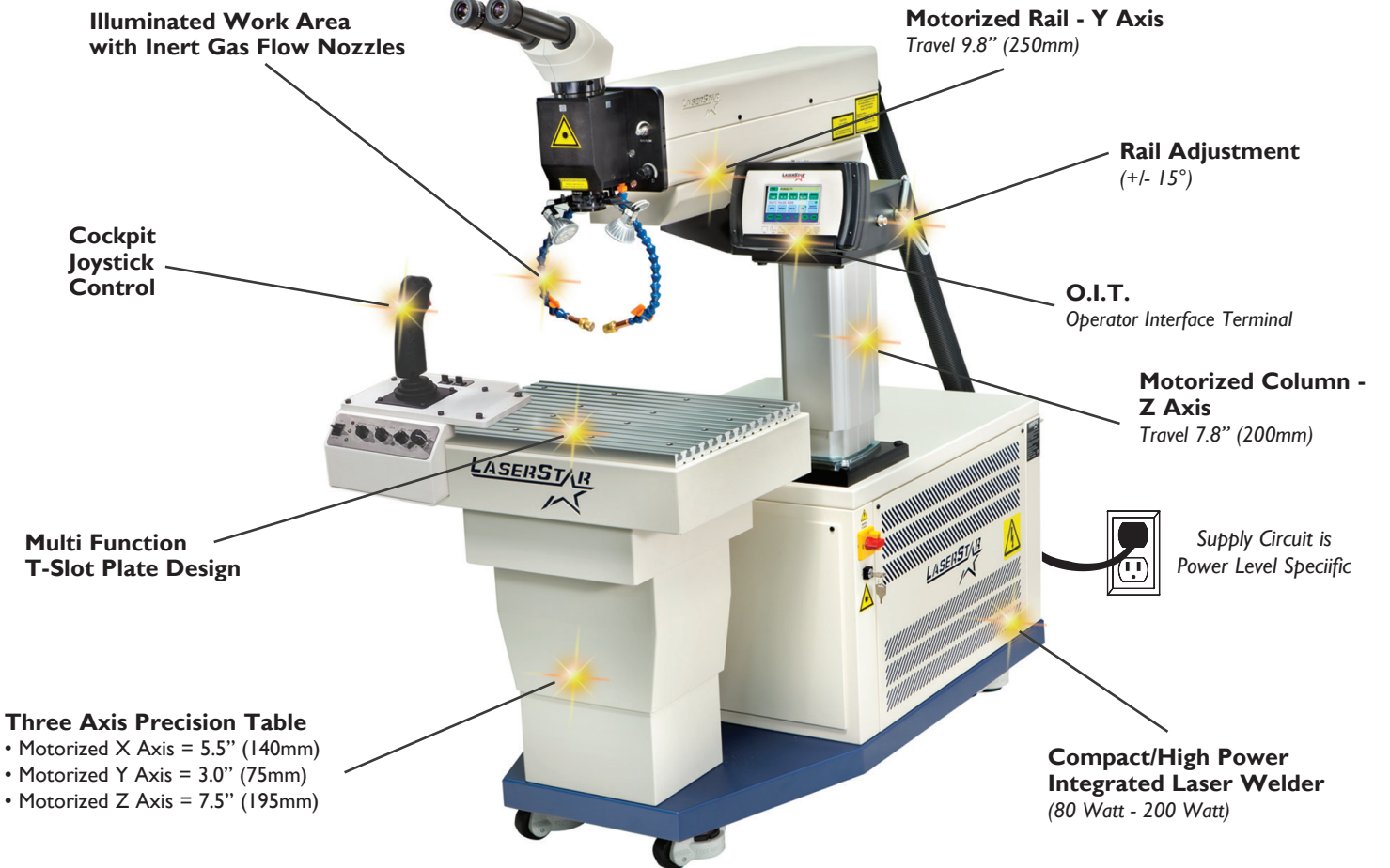
(The following advanced features are available on select 7800 Series LaserStar Workstations)



DESIGNED & BUILT IN AMERICA



● Soft Beam™ Profile Enhancement Resonator Technology (Optional)



7800 Series Open Workspace Welding Workstation Shown with Magnetic Jig



7800 Series Open Workspace Welding Workstations

LaserStar Lasing System	Class 4
Wavelength	1,064nm
Output Pulse Energy	0,1 - 150 Joules
Maximum Peak Power	10,0 kW
Average Power	80 Watts - 200 Watts
Pulse Length	0,5 - 50 Milli-seconds
Pulse Frequency	0,5 - 20 Hz
Beam Diameter	0,05mm - 2,00mm
Cooling System	Internal / Chiller Ready External Chiller Required
Supply Circuit	80 Watt 230V (+10%),50/60Hz 25 Amp, Single Phase
	100 & 150 Watt 230V (+10%),50/60Hz, 30 Amp, Three Phase
	200 Watt 40 Amp, Three Phase
Binocular Microscope	15x (optional 25x, 40x)
Illumination System	LED Natural Lighting
Pulse Perf. Profile Tech. (P3)	Exclusive Integrated Software
Programming Memory	79Text Cells
Automatic Sleep Mode	Exclusive Integrated Software
Parameter Adj. Features	External Touchscreen / O.I.T.
Prev. Maint. Alert Software	Yes
Motorized Beam Expander	Yes
Shield Gas Supply	Dual Nozzles
Dimensions	45"L x 24"W x 48"H 1131mm x 610mm x 1219mm
Approx. Weight (Unpackaged)	approx. 600 lbs / 272 Kg
Warranty Coverage (Parts & Labor)	As Quoted
Laser Safety Certification	FDA(CDRH), UL, CSA, CE, ETL
Country of Origin	Designed & Built in America

NOTE: Fatigue test data can be provided upon request.

Benefits

Motorized X / Y / Z Axis • Rotates and Tilts in Almost Any Direction • Rigid Yet Mobile Frame • Complete Turnkey Solution



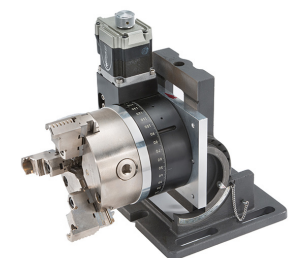
Magnetic Jig



Heavy Duty Vise (+/-45°)



Large Rotary Device (+/-45°)



Large Rotary Device (+/-45°)

Frequently Used Accessories