

# LASER-PAK XFT

## ROBOTIC LASER SYSTEMS



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### LASER-PAK XFT LASER SYSTEM

Introducing the Lincoln Electric Laser-Pak® XFT robotic automation cell, the latest innovation in laser welding technology. Designed with a compact and easy-to-integrate footprint, this robotic cell is perfect for small to medium-sized parts that require high-quality, precision, and fast welds. With its advanced features and cutting-edge technology, it is the ideal solution for manufacturers looking to increase productivity and efficiency while maintaining the highest standards of quality. Whether you're in the automotive, aerospace, or general manufacturing industry, the Laser-Pak XFT system is the perfect choice for your welding needs.

#### SYSTEM INCLUDES

- CDRH Class 1 Laser-Safe Enclosure
- Customizable Laser Power Supply and Optics
- Lincoln Electric Laser Processing Package

#### INDUSTRIES AND APPLICATIONS

- Automotive
- Aerospace
- General Fabrication

#### OPTIONS AVAILABLE

- Fiber, disc, or diode laser depending on customer specifications
- Laser Processes: Autogenous, Wire Fed (e.g., Precision Power Laser™ Hot Wire, Hybrid/HLAW, Cold Wire), Cutting

### CONTACT LINCOLN ELECTRIC AUTOMATION - CLEVELAND



22221 St. Clair Ave  
Euclid, OH 44117



+1 [216] 481-8100



lasersolutions@lincolnelectric.com



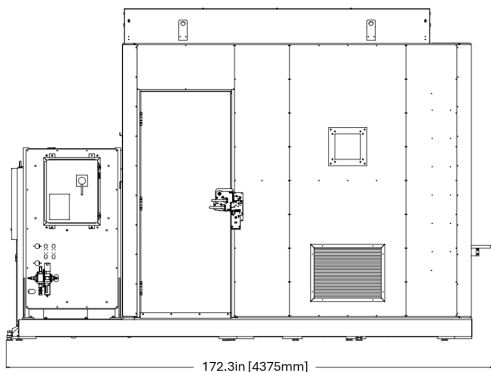
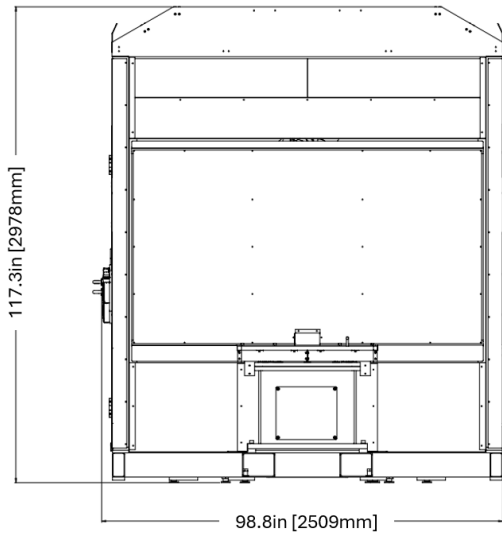
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## PRODUCT DIAGRAM



## SYSTEM DETAILS

### LINCOLN ELECTRIC PRECISION POWER LASER PACKAGE

The Laser-Pak XFT system is equipped with the Lincoln Electric Power Wave® R450 welding machine with Precision Power Laser waveform. This package is capable of providing the most preheat possible into a consumable before it enters the laser puddle without breaking into an arc. A closed-loop, arc-suppression routine helps process stability and maximize deposition rate. This single-point control offers accurate control of intermetallic dilution, helping to provide a higher-quality deposit than other controls.

### LASERLINE LDM SERIES STANDALONE LASER TOWER

The innovative design of the compact, fiber-coupled Laserline® LDM diode laser makes it possible to integrate the modules into nearly any production area, making it very suitable for OEM applications.

- LDM 8000-100 diode laser (8kW process output power)
- Unit dimensions (W x D x H): 750 mm x 850 mm x 1500mm
- 1000um core feed fiber x 10m length
- Includes 12kW dual-cooling channel, thermal-chiller, integrated into tower rack

### LASERLINE OTS LASER WELDING OPTICAL PROCESSING HEAD

The Laserline OTS optics are designed for industrial material processing and used in combination with Laserline's diode lasers. Because of their modular design and the great number of possible spot geometries, the optics can be flexibly configured and optimally adjusted to just about any process demands.

### SINGLE-POINT DISCONNECT PANEL - SINGLE ARM

480 Volt 3-phase 100A disconnect panel capable of supplying power to all the equipment:

- Robot controller
- Laser controller
- Laser chiller
- Environmental gear (If purchased)

This panel greatly simplifies connection of power to the robotic system at the end-user facility. It requires a single power drop splitting the connection to each individual piece of equipment. The panel is constructed per NFPA-70 (NEC) Article 409 and is lockout/tagout (LOTO) ready.

## PRODUCT SPECIFICATIONS

Product Number	Product Name	System Dimensions LxWxH in. (mm)	System Weight lb. (kg)	Sweep in. (mm)	Span in. (mm)	Capacity per side lb. (kg)
AD2493-6	Laser-Pak XFT	172.3 x 98.9 x 117.3 [4,375 x 2,509 x 2,978]	11,246 [5,112]	84.6 [2,150]	98 [2,485]	1,102 [500]

#### CUSTOMER ASSISTANCE POLICY

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THE LINCOLN ELECTRIC COMPANY  
22801 Saint Clair Avenue · Cleveland, OH · 44117 · U.S.A.  
Phone: +1 216.481.8100 · www.lincolnelectric.com