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LINCOLN
ELECTRIC
AUTOMATION

PRO-PAK SYSTEMS

LINCOLN ELECTRIC AUTOMATION ROBOTIC WELDING SYSTEMS

PRO-PAK

LINCOLN
ELECTRIC
AUTOMATION

HMI

SYSTEMS



Understanding Drives Solutions

Here at Lincoln Electric Automation, we provide comprehensive expertise and product portfolios to be the one-stop shop for manufacturers looking to automate their business. Whether you are a single-shop manufacturer turning to automation for the first time or an international corporation designing a completely automated facility, our standard and custom solutions in collaborative robots, robotic welding systems, automated guided vehicles (AGVs), and more can make that happen. Processes such as build-to-print, finishing, assembly, and cutting simply scratch the surface of what we can do with your manufacturing.

The Pro-Pak Robotic Welding Systems

The Pro-Pak® family of pre-engineered robotic welding systems from Lincoln Electric Automation enhance part production by helping to improve productivity, quality, and safety. Pro-Pak systems are the solution for high-volume welding automation or a new standard addition to your production process. Pro-Pak robotic welding systems integrate well with most major robot manufacturers including FANUC®, ABB®, and Yaskawa®.

About Lincoln Electric

Lincoln Electric is the world leader in the engineering, design, and manufacturing of advanced arc welding solutions, automated joining, assembly and cutting systems, plasma and oxy-fuel cutting equipment, and has a leading global position in brazing and soldering alloys. Lincoln is recognized as the Welding Expert™ for its leading materials science, software development, automation engineering, and application expertise, which advance customers' fabrication capabilities to help them build a better world. Headquartered in Cleveland, Ohio, Lincoln operates 71 manufacturing and automation system integration locations across 21 countries and maintains a worldwide network of distributors and sales offices serving customers in over 160 countries. For more information about Lincoln Electric and its products and services, visit the Company's website at <https://www.lincolnelectric.com>.

DEFENDER™
BITE-SAFE MACHINE GUARDING



PRO-PAK FHS-SS

The Pro-Pak Fixed Headstock - Single Station robotic welding system can be configured with a variety of positioning equipment or static tables to improve application flexibility.

SYSTEM INCLUDES

- Headstock / Tailstock or Tilt / Rotate robotic positioner or static tables
- Solid panel safety enclosure
- Manual operator station
- Single, dual, or triple robot configuration
- Robotic arm with controller
- Arc welding dressout kit
- Power Wave® R450 power source
- AutoDrive® 4R100 wire drive
- Magnum® PRO robotic 550 weld gun

OPTIONS AVAILABLE

- 120 VAC Operator Convenience package
- Fume extraction hood
- PRISM® fume extraction system





*SYSTEM CONFIGURATION FOR DEMONSTRATION PURPOSES ONLY. ALWAYS ENSURE APPROPRIATE VENTILATION IS IN PLACE WHEN WELDING AND THAT FUME EXPOSURE IS BELOW APPLICABLE THRESHOLDS. FOR MORE ON WELDING SAFETY, VISIT [HTTP://SAFETY.LINCOLNELECTRIC.COM](http://safety.lincolnelectric.com). FOR MORE INFORMATION ON LINCOLN ELECTRIC'S WELD FUME CONTROL OPTIONS, SEE YOUR SALES REPRESENTATIVE OR VISIT [HTTPS://WWW.LINCOLNELECTRIC.COM/EN/PRODUCTS/WELD-FUME-CONTROL-WELDING-EQUIPMENT](https://www.lincolnelectric.com/en/products/weld-fume-control-welding-equipment).

PRO-PAK XHS

The Pro-Pak Indexing Headstock robotic welding system achieves true zero position through an integrated precision wedge lock on the primary axis.

SYSTEM INCLUDES

- H-Frame-style robotic positioner
- Modular platform base
- Solid-panel safety enclosure
- Manual operator station
- Single, dual, or triple robot configuration
- Robotic arm with controller
- Arc welding dressout kit
- Power Wave R450 power source
- AutoDrive 4R100 wire drive
- Magnum PRO robotic 550 weld gun

OPTIONS AVAILABLE

- 120VAC Operator Convenience package
- Overhead crown robot mounting
- Fume extraction hood
- PRISM Compact fume extraction system





DEFENDER™
RITE-WRITE MACHINE GUARDING

DEFENDER™
RITE-WRITE MACHINE GUARDING

HMI

PRO-PAK FHS-S2S

The Pro-Pak Fixed Headstock - Side By Side robotic welding system provides the ability to configure a variety of positioning equipment and heighten productivity.

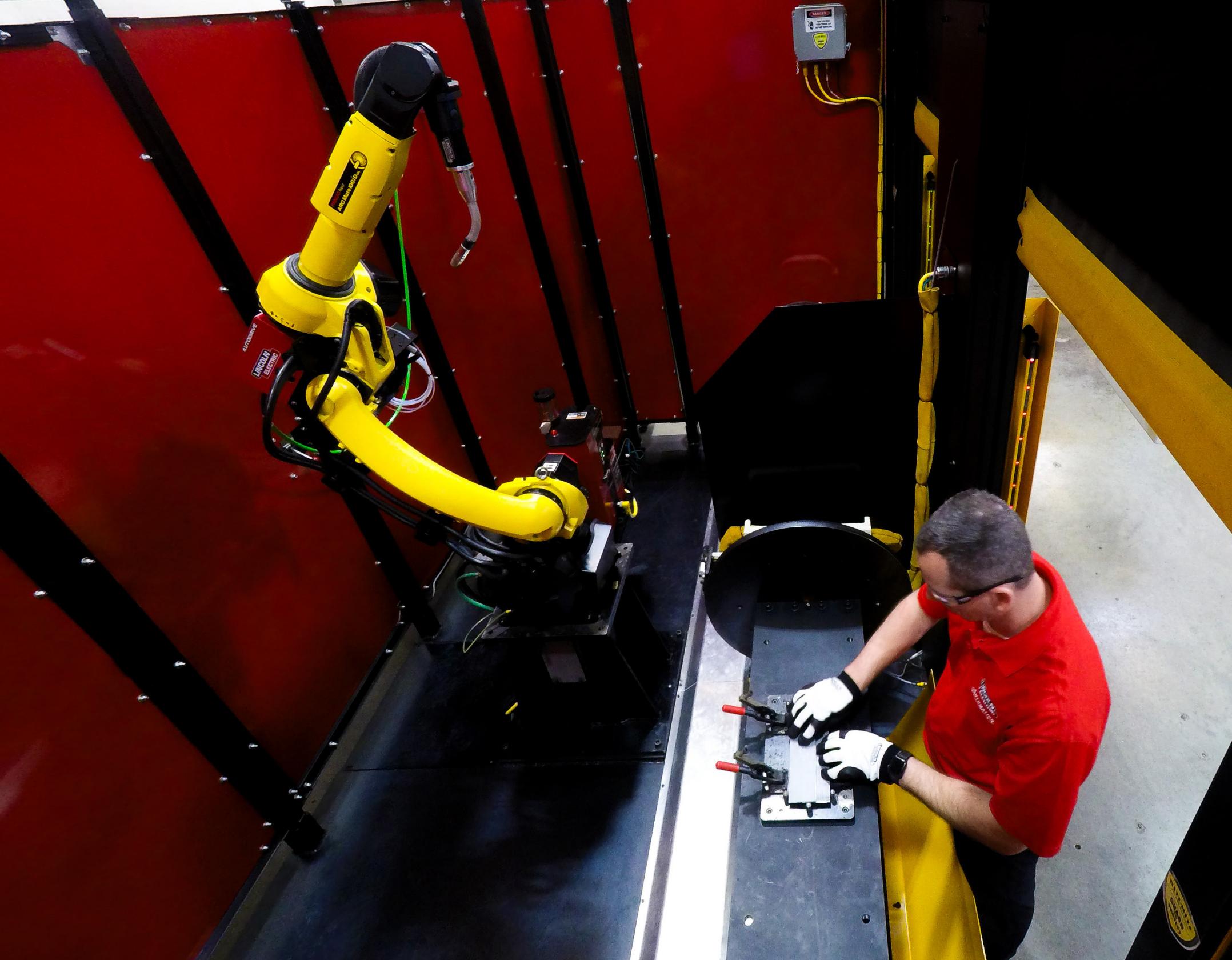
SYSTEM INCLUDES

- Two headstock positioners or static tables
- Modular platform base
- Solid-panel safety enclosure
- Manual operator station
- Single robot configuration
- Robotic arm with controller
- Arc welding dressout kit
- Power Wave R450 power source
- AutoDrive 4100 wire drive
- Magnum PRO robotic 550 weld gun

OPTIONS AVAILABLE

- 120 VAC Operator Convenience package
- Fume extraction hood
- PRISM fume extraction system





ALCOA ELECTRIC

SAFETY

ALCOA ELECTRIC

SAFETY

PRO-PAK XFT

The Pro-Pak Indexing Fixed Table robotic welding system is designed to load parts and weld simultaneously for optimal productivity.

SYSTEM INCLUDES

- Turntable-style robotic positioner
- Modular platform base
- Solid-panel safety enclosure
- Manual operator station
- Single or dual robot configuration
- Robotic arm with controller
- Arc welding dressout kit
- Power Wave R450 power source
- AutoDrive 4R100 wire drive
- Magnum PRO robotic 550 weld gun

OPTIONS AVAILABLE

- 120VAC Operator Convenience package
- Fume extraction hood
- PRISM Compact fume extraction system





PRO-PAK

LINCOLN
ELECTRIC

AUTOMATION

LINCOLN
ELECTRIC

AUTOMATION

HM
[Digital Display]
[Buttons]

PRO-PAK FW

The Pro-Pak Ferris Wheel robotic welding system helps optimize production with its greater payload capacities and high-speed sweep.

SYSTEM INCLUDES

- Ferris Wheel robotic positioner
- Modular platform base
- Solid-panel safety enclosure
- Manual operator station
- Single, dual, or triple robot configuration
- Robotic arm with controller
- Arc welding dressout kit
- Power Wave R450 power source
- AutoDrive 4R100 wire drive
- Magnum PRO robotic 550 weld gun

OPTIONS AVAILABLE

- 120 VAC Operator Convenience package
- Overhead bridge robot mounting
- Contact tip change box
- Weld Shielding Gas Delivery package
- Weld Wire Payoff package
- Fume extraction hood
- PRISM fume extraction system
- Safety roll-up door
- Tooling pneumatic distribution station
- Dual-Bearing Tailstock upgrade
- Programming platform





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VISIT [HTTP://SAFETY.LINCOLNELECTRIC.COM](http://safety.lincolnelectric.com). FOR MORE INFORMATION ON LINCOLN ELECTRIC'S WELD FUME CONTROL OPTIONS, SEE YOUR SALES REPRESENTATIVE OR VISIT [HTTPS://WWW.LINCOLNELECTRIC.COM/EN/PRODUCTS/WELD-FUME-CONTROL-WELDING-EQUIPMENT](https://www.lincolnelectric.com/en/products/weld-fume-control-welding-equipment).

PRO-PAK FHS-S2SY

The Pro-Pak Fixed Headstock - Side By Side Y-Frame robotic welding system provides the ability to configure a variety of positioning equipment to heighten productivity.

SYSTEM INCLUDES

- Two headstock robotic positioners or static tables
- 1.5-meter tool span
- Modular platform base
- Solid-panel safety enclosure
- Manual operator station
- Single robot configuration
- Robotic arm with controller
- Arc welding dressout kit
- Power Wave R450 power source
- AutoDrive 4100 wire drive
- Magnum PRO robotic 550 weld gun

OPTIONS AVAILABLE

- 120 VAC Operator Convenience package
- Fume extraction hood
- PRISM fume extraction system



CHOOSE YOUR PRO-PAK SYSTEM

Here are some key features with each system to help you decide! Request a quote online at lincolnelectric.com/Pro-Pak to connect with a robotic welding sales representative.



Do you need a system for lower-volume production in a compact footprint?

The **Pro-Pak FHS-SS** system provides you with a versatile system with a single operator station.



Do you need a system for high-volume production of small parts in a compact footprint?

The **Pro-Pak FHS-S2S** system provides you with dual operator stations so that operator load time is absorbed during the weld cycle.



Do you need a system for high-volume production, but need larger tooling than the Pro-Pak FHS-S2S system?

The **Pro-Pak FHS-S2SY** system accommodates an extra 0.5-meter tool length at each station.



Do you need a system with a compact footprint, two stations, and a single weld position?

The **Pro-Pak XFT** system provides you with a single operator station and a single axis indexer.



Do you need a system for high-volume production of larger tools and lower programming height?

The **Pro-Pak XSH** system provides up to 2.5-meter tool lengths and a lower tool programming height for complex weld fixtures.



Do you need a system for high-volume production of larger tools in a compact footprint?

The **Pro-Pak FW** system provides up to 3-meter tooling spans for your most complex welding fixtures.

THE ULTIMATE PAIR

ANNEX™ robotic positioners can repeatedly rotate tooling, parts, and robots into desired orientations for high-difficulty welds in Pro-Pak robotic welding systems!



Learn more at www.lincolnelectric.com/ANNEX

WHICH SYSTEM IS RIGHT FOR YOU?

Explore the different families of robotic welding systems designed to fit your needs, no matter how simple or complex your welding is!

Fab-Pak Robotic Welding Systems

The Fab-Pak® robotic welding systems from Lincoln Electric Automation enhance part production by helping to improve productivity, quality, and safety. Fab-Pak systems are the solution for your entry into welding automation or a new addition to your automation process.



Cooper Welding Cobots

Cooper™ welding cobots help improve weld productivity, quality, and repeatability in a collaborative way. We developed the Cooper App for easy-to-use programming. The Power Wave R450 robotic welding platform runs the systems with industry-leading performance. Cooper welding cobots are for those who value flexibility, workplace safety, and cost efficiency.



Laser-Pak Robotic Laser Systems

Designed for various industries including automotive, appliance, and aerospace, the Laser-Pak™ family offers our customers laser solutions that help sharpen their competitive edge. Ideal applications for these systems include laser welding, cladding, feature building, joining, brazing, and additive manufacturing. Free yourself from the arc with Precision Power Laser™ technology featured in Lincoln Electric Automation Laser-Pak systems!



Learn more at <https://www.lincolnelectric.com/en/Products/Automation/Robotic-Automation/Standard-Robotic-Welding-Cells>

AUTOMATION MANUFACTURING LOCATIONS

91

**ROBOTIC
technicians**

153

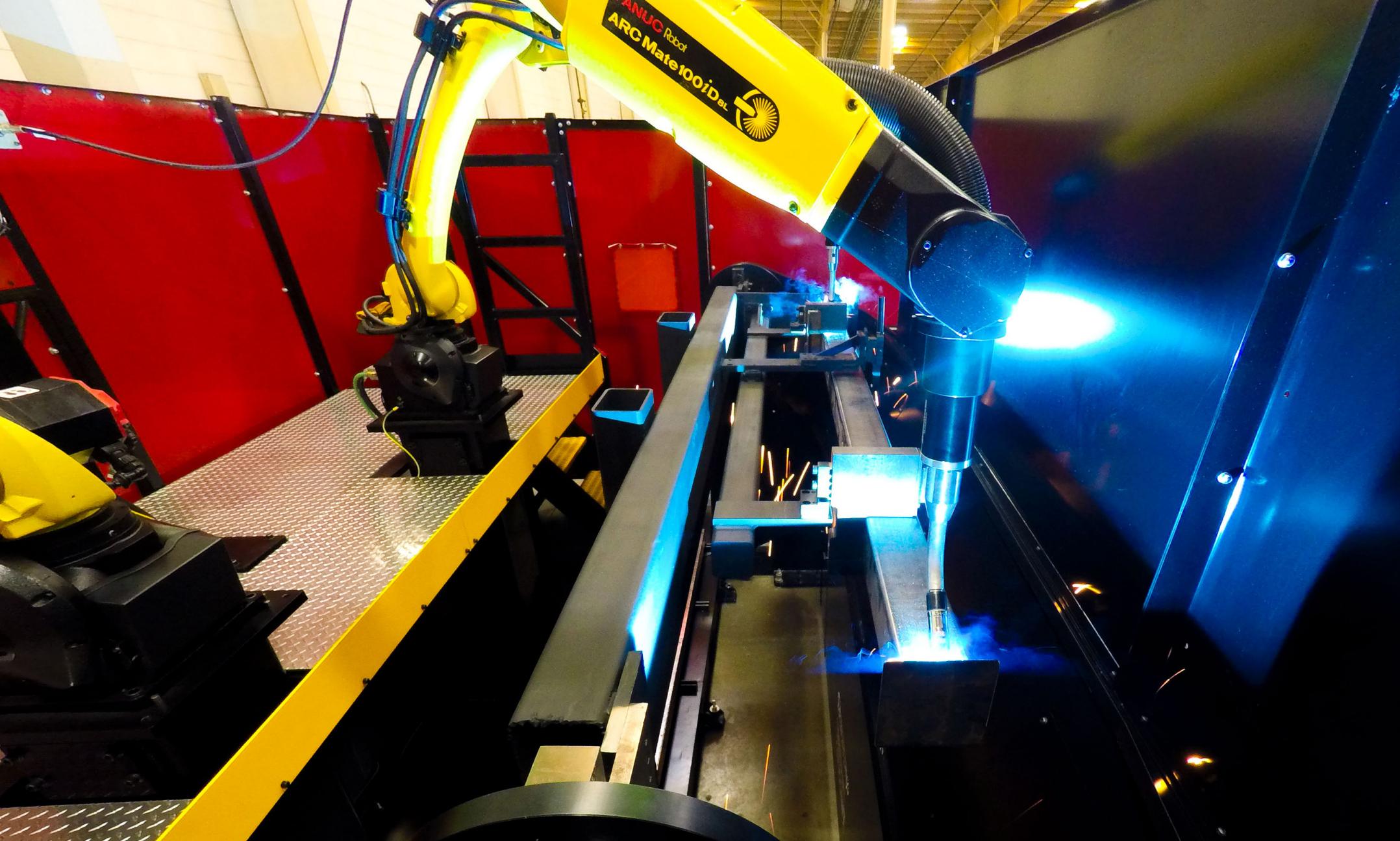
**SERVICE
technicians**



Apodaca, Mexico
Beijing, China
Bettendorf, IA, USA
Caxias do Sul, Brazil
Chattanooga, TN, USA
Churubusco, IN, USA
Cleveland, OH, USA
Coldwater, OH, USA
Columbus, OH, USA
Essen, Germany
Fort Collins, CO, USA

Fort Loramie, OH, USA
Guarulhos, Brazil
Hamilton, ON, Canada
Ladson, SC, USA
Macomb, MI, USA
Merzig, Germany
Mississauga, ON, Canada
Parthenay, France
Pont-Sainte Maxence, France
Pune, India
Reno, NV, USA

Saltillo, Mexico
San Diego, CA, USA
Scheifling, Austria
Shanghai, China
Shelby Township, MI, USA
Siheung-Si, South Korea
Sydney, Australia
Valencia, Spain
Vankleek Hill, ON, Canada
Weiterstadt, Germany



System configuration on photographs displaying active welding is for demonstration purposes ONLY. Always ensure appropriate ventilation is in place when welding and that fume exposure is below applicable thresholds. For more on welding safety, visit <http://safety.lincolnelectric.com>. For more information on Lincoln Electric Weld fume control, see your sales representative or visit <https://www.lincolnelectric.com/weld-control-welding-equipment>

The operation of welding fume control equipment is affected by various factors including proper use and positioning of the equipment, maintenance of the equipment and the specific welding procedure and application involved. Worker exposure level should be checked upon installation and periodically thereafter to be certain it is within applicable OSHA PEL and ACGIH TLV limits.

CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, and cutting equipment. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment, or to provide engineering advice in relation to a specific situation or application. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the definition of specifications, and the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

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The Lincoln Electric Company
22221 St. Clair Avenue
Cleveland, OH 44117-1199 U.S.A.
www.lincolnelectric.com/automation

