



Automation Service

FULL SERVICE SUPPORT CENTER

The Lincoln Electric Automation Division offers a full compliment of services. Our team is a customer - oriented group of certified technicians and engineers focused on supporting you in every aspect of your automation equipment service and support needs.

Our commitment is to provide you with fast, efficient and effective services that exceed your expectations.

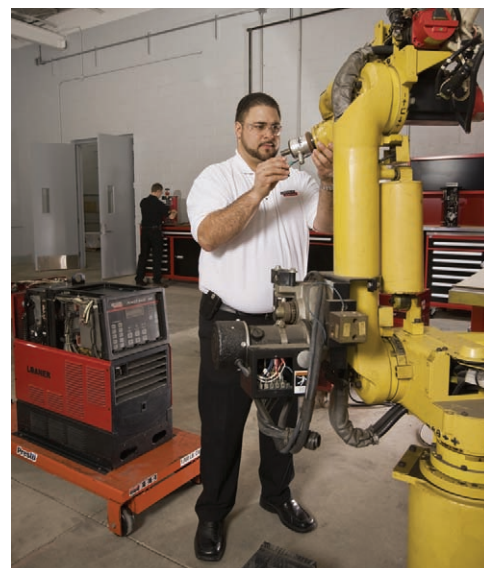
You can count on us.

BENEFITS

- Experienced and professional personnel.
- Full range of services from a single contact point.
- Repair and refurbishment solutions to fit your timeframe and budget.
- Preventive maintenance programs designed to help you achieve the longest possible life from your investments.

PRODUCT SUPPORT

- FANUC Robotics.
- Lincoln Electric equipment.
- Hard automation systems.
- Environmental/fume extraction equipment.
- Accessories: Reamers and torches.
- Safety devices: Light curtains, scanners, etc.
- Positioners.
- Misc. Robotic Cell Hardware Components.



OFFERING A WIDE RANGE OF SERVICES AND SUPPORT



24/7 Phone Support:

Business Hours (8 am – 5 pm EST): 1-888-935-3878
After Hours: 1-888-532-8001

Regional Field Service:

Multiple deployment centers.

Warranty Service:

Lincoln Electric and FANUC Factory Certified.

ISO 9001 Calibration Services:

Lincoln Electric can assist in ensuring your equipment remains calibrated to meet ISO 9001 calibration requirements. Our facility is equipped with meters for wire feeder calibration, load banks for power source calibration and services capable to calibrate robots.

Preventive Maintenance Services:

- FANUC Robots.
- Lincoln Electric Welding Equipment.
- Lincoln Electric Fume Extraction.

Equipment Rental:

Power Wave® power source and wire feeder equipment.

Full Compliment of Equipment Service:

- FANUC Robotic.
- Power Wave® power source and feeder.
- Lincoln Electric Fume Extraction.

Technical Services:

- On-site operator training.
- Welding procedure development.

Robot Refurbishment Services:

Lincoln Electric is proud to offer a robot refurbishment program focused on the aftermarket service requirements of customers who have purchased used or own inactive equipment that can be rebuilt and redeployed. Service includes:

- Initial inspection and quotation based on the nature of repairs to put equipment back into service.
- Functionally tested for repeatability.
- Replace and repair components as required.
- Lubricate, paint and re-label as required.
- Software upgrades as required.
- Weld testing upon completion.

OUR CORE COMPETENCY IS WELDING

Application and Programming Services:

Lincoln Electric Automation Division's goal is to provide *unparalleled welding results*. Our core competency is welding. Our team of experienced welding application engineers can work with you to evaluate your part and make recommendations on potential weld strategies based on proven experience.

We can also offer customer part specific programming supported by computer simulation for your procedures and automated systems.

Both application and programming services can be offered at our location or yours to ensure you are given a flexible solution to fit within your schedule and budget.



ENSURE OPTIMUM PERFORMANCE

Preventive Maintenance Programs:

Over a period of time, all equipment requires maintenance to ensure optimum performance. Lincoln Electric has the experience and knowledge to support you in maintaining your equipment from Lincoln Electric, FANUC Robotics and Lincoln Electric fume extraction. In any manufacturing environment, being proactive about maintaining your equipment and protecting your investment extends the life and up time of the products being used.

Lincoln Electric programs are designed to help our customers keep production running smoothly and efficiently.

We offer quarterly service contracts or individual service calls for inspection and repair.

Robotic System Maintenance Programs:

- Robot mechanical unit repeatability, lubrication and proper operation.
- Robotic Controller and other electrical devices.
- System operator controls, equipment and robotic pendant.
- Miscellaneous robot safety devices, torches, and cell components.
- Software updates as required.

Fume Extraction Maintenance Programs:

- Central Fume Extraction Systems.
- Fume Extraction Arms, Push-Pull and Recirculation Units.
- Statiflex® 200-M, 400-MS, 6000, and Filter Bank Systems.
- SF2400, 4200 and all central system fan motors.
- LFA 2.0, LFA 3.1, LFA 4.1, LFA 4.1-LC, EC2-4, and LTA 2.0



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.



OUR FACILITY OR YOURS

On-Site Service Technician Support:

Contact us to schedule a service call. An Automation specialist can visit your site for a scheduled visit to assist you in services ranging from:

- Robot servicing and preventive maintenance.
- Robot and welder troubleshooting and repairs.
- Software and hardware upgrades.
- Set-up and installation support.
- Robotic part programming and welding application support.
- Robot redeployment.
- Training.
- Calibration services.

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CONTACT US — WE CAN HELP YOU STAY PRODUCTIVE

Non-Emergency Service and Support:

Most support questions can be handled over the phone with one of our expert service professionals. If you are experiencing an issue, first contact one of our technicians for assistance over the phone.

Emergency Service and Support:

In the event of an emergency that is outside of the normal working hours and requires immediate attention, we offer a 24/7 phone support line and a staff of experienced service professionals that can assist.

Online Support Tools:

The Automation Center on myLincolnElectric.com gives you on-line access to the following tools and resources:

- Warranty entry and tracking.
- Part lists and operator manuals.
- Registration for training, seminars and classes at the Lincoln Electric Automation Education Center.
- Product information.
- Software updates via www.PowerWaveSoftware.com
- Technical resources and diagnostic tools.

LEARN FROM THE EXPERTS

Training Services

The Lincoln Automation Education Center offers a variety of programs and courses including:

- Basic Robotic Training.
- Advanced Robot Training.
- Robot Service Training.
- Applied Robotic Welding Processes.
- WeldPRO™ Training.
- AWS Certified Robotic Arc Welding (CRAW) Prep Course and Exam.
- Customized training programs to fit your specific needs.

These courses are conducted at our state-of-the-art facility in Cleveland, Ohio or can be customized to be held on-site for you to learn in your own environment.



WORLD-CLASS WELDING AND AUTOMATION EXPERTISE

Lincoln Electric's strategic alliance with FANUC Robotics translates into an unparalleled combination of welding and robotics expertise, plus single-source efficiency. Whether you're considering your first automated cell, or you're ready to upgrade or enhance your existing robotic systems, there's no better partner than Lincoln Electric and FANUC Robotics.

EXCEPTIONAL CUSTOMER SERVICE

Lincoln Electric and FANUC Robotics have a global network of facilities and people to provide quick response and personalized attention. No matter where your welding operations are located today, no matter where they will be tomorrow, Lincoln Electric welding experts can provide local support, ready to create and implement solutions that fit your needs.

VALUABLE CUSTOM SOLUTIONS

While Lincoln Electric offers a wide spectrum of pre-engineered systems, we also offer the ability to modify or completely customize the creation of your weld cell to meet your precise needs. Contact us today!

Automation Service (8 am - 5 pm EST)

1-888-935-3878

Automation After-Hours Service

1-888-532-8001

Automation Regional Service Center

Phone: (615) 291-9927 — Nashville, TN

Fax: (615) 291-9928 — Nashville, TN



LINCOLN
ELECTRIC

AUTOMATION
DIVISION

The Lincoln Electric Company

Automation Division

22221 Saint Clair Avenue

Cleveland, Ohio 44117-2522 USA

Email: Automation@lincolnelectric.com

www.lincolnelectric.com/automated-solutions

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company® is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information 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. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but 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.

Subject to Change — This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.