



Robotic Welding Education Cell

Lincoln Electric® and FANUC Robotics have partnered to offer our industry and educational partners a welding solution focused on enhancing the ability to train students on robotic programming and welding. The system and program are designed to provide access to the best curriculum, materials and system. Our goal is to help instructors and students develop the skills necessary to thrive in an advanced manufacturing environment.



Robotic Welding Education Cell shown with optional Miniflex® welding fume extractor.

MAIN FOCUS

The Education Cell is focused on educational institutions, company training departments and other schools and facilities that teach robotic programming as it relates to the Gas Metal Arc Welding (GMAW) process.

- Created for both classroom and lab use to provide the best hands-on and instructor-led programs.
- Delivered with the curriculum your staff can follow to teach robotic programming and use, as well as standard GMAW by the industry experts.
- Developed to enhance your school and community's capabilities and competencies with the addition of robotic welding and programming courses.

BENEFITS

- Designed to fit through a standard doorway, the Education Cell can be moved from classroom to classroom and positioned for best viewing during training.
- Ready to go, the Education Cell provides everything you need right at your fingertips – integrated gas bottle fixture, welding consumable and fume extraction unit mounting, integrated safety measures, and software from FANUC.

FEATURING

- Lincoln Electric Power Wave® 355M and AutoDrive® 4R100 welding package.
- FANUC ARC Mate® 50iC/5L with ArcTool™ software – complete robotic hardware and software solution.

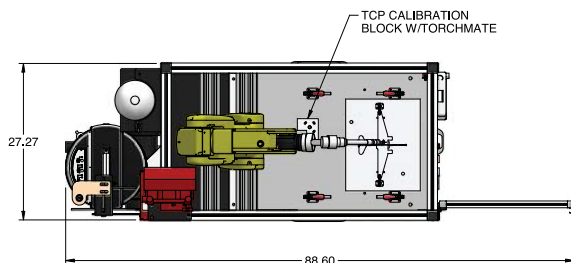




Robotic Welding Education Cell

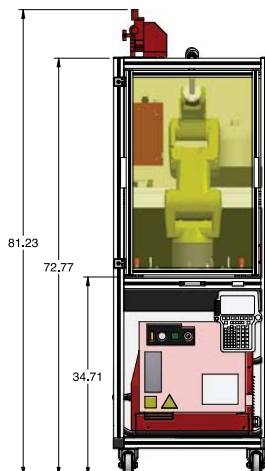
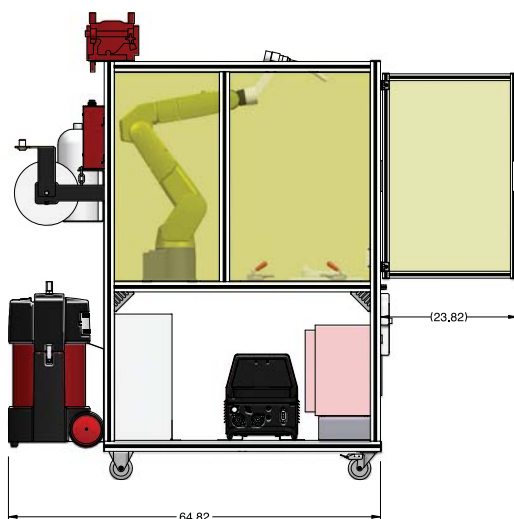
Standard Specifications

Complete System Documentation and Curriculum	Hardcopy binder and electronic manuals and tools include operations manuals, maintenance guides, spare parts lists, calibration numbers & serial numbers, prints, and supplier references and specifications.
FANUC Software	TorchMate, Collision Guard™, Payload ID, Touch Sensing, Through Arc Seam Tracking, Auto Error Recovery, Bump Box, Constant Path, Password Protection, Diagnostic Resource Center for Arc Plug-In, Menu Utility, Fault and Incident Reporting, and ArcTool™ Panel Wizard.
Lincoln Software	Production Monitoring™ and diagnostics (hardware and software is optional)
Input Power	230V standard, 115V optional
Power Source & Feeder	Power Wave® 355M and AutoDrive® 4R100
Robot Arm	FANUC ARC Mate® 50iC/5L with R-30iA controller, i-Pendant
Safety/Weld Cell Controls	Fully integrated RIA 15.06-99 compliant operator safety devices including a door safety switch. Quantity 2 handshields (personal protection equipment) supplied with cell.
Training	3 Days – Train the Trainer Program, Cleveland, Ohio
Vision	iR Vision 2D software (hardware is optional)



Options

- Miniflex® welding fume extractor
- Workholding – welding fixture
- CERT Online training program (includes seats of WeldPro™)
- Tool changer
- iR Vision™ hardware
- Discounted AWS Certified Robotic Arc Welding (CRAW) training course
- 115 volt input power kit



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.

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 Hotline

1-888-935-3878

Automation After-Hours Technical Support

1-888-532-8001



The Lincoln Electric Company

Automation Division
22221 Saint Clair Avenue
Cleveland, Ohio 44117-2522 USA
1-216-383-2667
Email: Automation@lincolnelectric.com
www.lincolnelectric.com/automated-solutions