



eCell™ LR

DUAL ZONE/HORIZONTAL TABLE SYSTEM

The eCell™ LR pre-engineered robotic welding cell is a fixed table, dual work zone unit designed for small to medium sized parts that can be welded without reorientation. The cell's layout is optimized to take full advantage of the FANUC ARC Mate® 50iC/5L robot's work envelope. Its small floor footprint and new vertical-lift work zone access doors make installation of multiple cells in close proximity to each other a possibility, saving valuable floor space.

The eCell™ LR's compact size also makes it ideal for training and school environments.

Shipped completely assembled and ready for immediate installation and production, the eCell™ LR is an attractive, low cost solution to meet your productivity improvement goals.

IDEAL FOR:

- Small to medium sized parts.
- Parts that do not require repositioning.

BENEFITS

1. **Minimal Installation:** Shipped as a single, completely assembled, and tested work cell that is ready for immediate installation and production.
2. **Robust:** Compact, lightweight, durable steel and aluminum enclosure.
3. **Ease of Use:** Push button operator controls with system status indicators for ease of use.
4. **User Friendly Design:** Counter balanced doors make part access easy and do not extend footprint of the cell.
5. **Reliable:** Allen Bradley® components and integrated SICK® safety rated devices enhance operator protection in the work environment.

FEATURING

- Lincoln Electric Power Wave® i400 and AutoDrive® 4R90 Robotic Welding System.
- FANUC ARC Mate® 50iC/5L Robot – high speed, 6 axes, for maximum flexibility.



The eCell™ LR features space-saving vertical lift doors for easy part access.





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Standard Specifications

| | |
|--------------------------------|---|
| Robot Arm | FANUC ARC Mate® 50iC/5L, Teach Pendant and FANUC ArcTool™ Welding Software |
| Power Source and Feeder | Lincoln Electric Power Wave® i400 and AutoDrive® 4R90 |
| Enclosure | Aluminum frame, painted 14 gauge steel surround, flash and safety barrier |
| Weld Cell Controls | Intuitive push button operator controls |
| Safety | Fully integrated SICK® safety rated devices; RIA 15.06-99 compliant |
| Work Zone Dimensions | Two 24" x 24" (610 mm x 610 mm) tables |
| Floor Footprint | 80" x 50" (2032 mm x 1270 mm) |
| Weight Capacity | 500 lbs (227 kg) per side |
| Training | 3 day expert robotic instruction from AWS certified robotic arc welding instructors. |
| Documentation | Complete systems kit: operator's manuals, maintenance guides, spare parts lists, calibration numbers, serial numbers, prints, supplier references and specifications, electronic manuals and tools. |

Featured Options

- Power REAM® – Robotic torch maintenance center, wire cutting, reaming, and anti-spatter spray station.
- Choose air-cool torch or water-cooled torch package with Cool Arc® 40.
- Fume extraction system: Fume fan and hood or deluxe package including fume fan and hood, lighting kit, fan and filter system.
- Custom paint.
- On-site weld part programming.
- Service and preventive maintenance programs.
- Weld process development.
- Power Wave® 455M, 455M/STT® or 655 Robotic.
- Software options from FANUC Robotics:
 - Torch Guard, Collision Guard, TorchMate 3™, and Payload ID – Detect collision and stops the robot and adjustment of Tool Center Point.
 - Bump Box - Allows you to offset a weld. Bump Box is intended to adjust the weld path to accommodate small variations in the trim-line resulting from varying lots/batches during production.
 - Password Protection - Restricts user access beyond specific areas on the teach pendant.
 - Thru-Arc Seam Tracking (TAST) - Automatically adjusts the robot's vertical and lateral trajectory to compensate for part warping or misplacement.
 - Touch Sensing - Automatic path change to compensate for object displacement.
 - WeldPRO™ - Offline programming.
 - Constant Path - Robot maintains constant motion path, regardless of velocity override.

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



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