



# System 35

## DUAL FIXED TABLE SYSTEM

Pre-engineered robotic welding systems from Lincoln Electric, including the System 35, can dramatically enhance standard part production by improving productivity, quality and safety. The System 35 welding robot cell is a dual, fixed table workstation designed for medium to large sized parts

that can be welded without reorientation. The cell's layout and dimensions, 78" x 39" (1981 mm x 991 mm), are optimized to maximize the work envelope of the robot, while minimizing the floor space requirements and cost.

### IDEAL FOR:

- Medium to large sized parts.
- Parts that do not require positioning.

### BENEFITS

1. **Minimal Installation:** Shipped as a single, completely assembled and tested work cell that is ready for immediate installation and production.
2. **Robust:** Steel skid structure with fork pockets for easy placement.
3. **Ease of Use:** Clearly labeled push button operator controls for ease of use.
4. **Reliable:** Allen Bradley® based controls and integrated 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® 100iC Robot – high speed, 6 axes, for maximum flexibility.

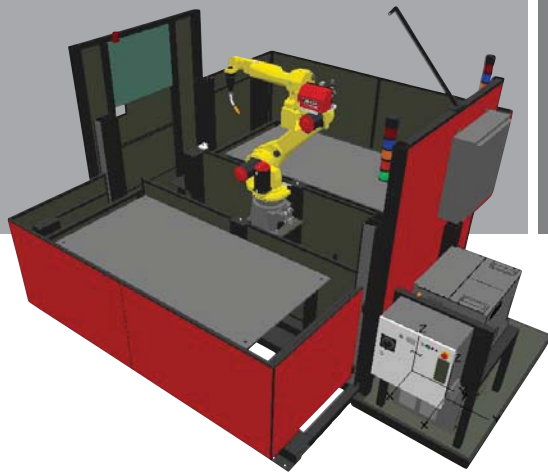


*Lincoln Electric System 35 shown with optional Power Wave® 455M, Power Feed™ 10R and FANUC 100iBe arm.*



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### Standard Specifications

<b>Robot Arm</b>	FANUC ARC Mate® 100iC, Teach Pendant and FANUC ArcTool™ Welding Software
<b>Power Source and Feeder</b>	Power Wave® i400 and AutoDrive® 4R90
<b>Enclosure</b>	Completely painted 14 gauge steel enclosure, flash and safety barrier
<b>Weld Cell Controls</b>	Intuitive push-button operator controls
<b>Safety</b>	Fully integrated SICK® and Allen Bradley® safety rated devices; RIA 15.06-99 compliant
<b>Work Zone Dimensions</b>	Two 78" . x 39" (1981 mm x 991 mm) fixed table work zones
<b>Floor Footprint</b>	154" x 137" (3912 mm x 3480 mm)
<b>Weight Capacity</b>	2500 lbs (1134 kg) per side
<b>Training</b>	3 day expert robotic instruction from AWS certified robotic arc welding instructors.
<b>Documentation</b>	Complete system kit: operator's manuals, maintenance guides, spare parts lists, calibration numbers & serial numbers, prints, and supplier references and specifications and electronic manuals and tools.

### Featured Options

- Power REAM® - Robotic torch maintenance center, wire cutting, reaming, and anti-spatter spray station.
- Choose air-cooled torch or water-cooled torch package with Cool Arc® 40 water cooler.
- 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 & 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](http://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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