



# System 40

## HORIZONTAL TURNTABLE SYSTEM

The System 40 welding robot cell is a pre-engineered 1930 mm (76 in) turntable robotic welding system offering a larger workspace than the 1473 mm (58 in) turntable of the System 20. The servo-driven positioner is nearly maintenance free with no mechanical components to fail. It's ideal for small to medium sized parts that can be welded without reorientation.

### BENEFITS

- 1. Easy to Install:** Palletized steel structure includes forklift pockets for easy placement.
- 2. Ease of Use:** Clearly marked push button controls for simple operation.
- 3. Enhanced Operator Safety:** Fully integrated safety rated devices enhance operator protection in the work environment.



**Automated  
Systems**



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Standard Specifications	
<b>Robot Arm</b>	FANUC® ARC Mate® iC Robot family (model dependent on the size of the system), Teach Pendant and FANUC ArcTool™ Welding Software
<b>Power Source &amp; Feeder</b>	Power Wave® power source and AutoDrive® wire drive
<b>Enclosure</b>	Completely painted steel enclosure, flash and safety barrier
<b>Weld Cell Controls</b>	Intuitive push-button operator controls
<b>Safety</b>	Fully integrated safety rated devices that are compliant with the latest ANSI and RIA standards.
<b>Work Zone Dimensions</b>	1930 mm (76 in) dual zone turntable system
<b>Floor Footprint</b>	2184 x 3759 mm (86 x 148 in)
<b>Weight Capacity</b>	362.9 kg (800 lbs) per side work zone
<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 and serial numbers, prints, 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 or water-cooled rotary torch package with Cool Arc® water cooler.
- Fume extraction system: Fume fan and hood or deluxe package including extraction hood, fan, lighting kit and filter system.
- Interior task lighting.
- On-site weld part programming.
- Service and preventive maintenance programs.
- Weld process development.
- Robotic Power Wave family.
- Software Options from FANUC Robotics:
  - Torch Guard and Collision Guard - Detects collision and stops the robot and adjustment of Tool Center Point.
  - 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 software.
  - iRvision™ - 2D vision software system.



### 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.

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Lincoln Electric's alliance with FANUC Robotics translates into an unparalleled combination of welding and robotics expertise, along with 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.



### THE ONLY SINGLE-SOURCE AUTOMATION PROVIDER

Lincoln Electric has built a solutions portfolio to include all of the competencies to support your need to improve productivity, quality and safety. Lincoln Electric can modify or completely customize the creation of your weld cell to meet those precise needs.

With a global network of facilities and people, you'll get quick response and personalized attention. Contact one of the below facilities for more information on the types of solutions available to help you produce faster, more repeatable, higher quality results.



**Automation Solutions**

[www.lincolnelectric.com/automated-solutions](http://www.lincolnelectric.com/automated-solutions)

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