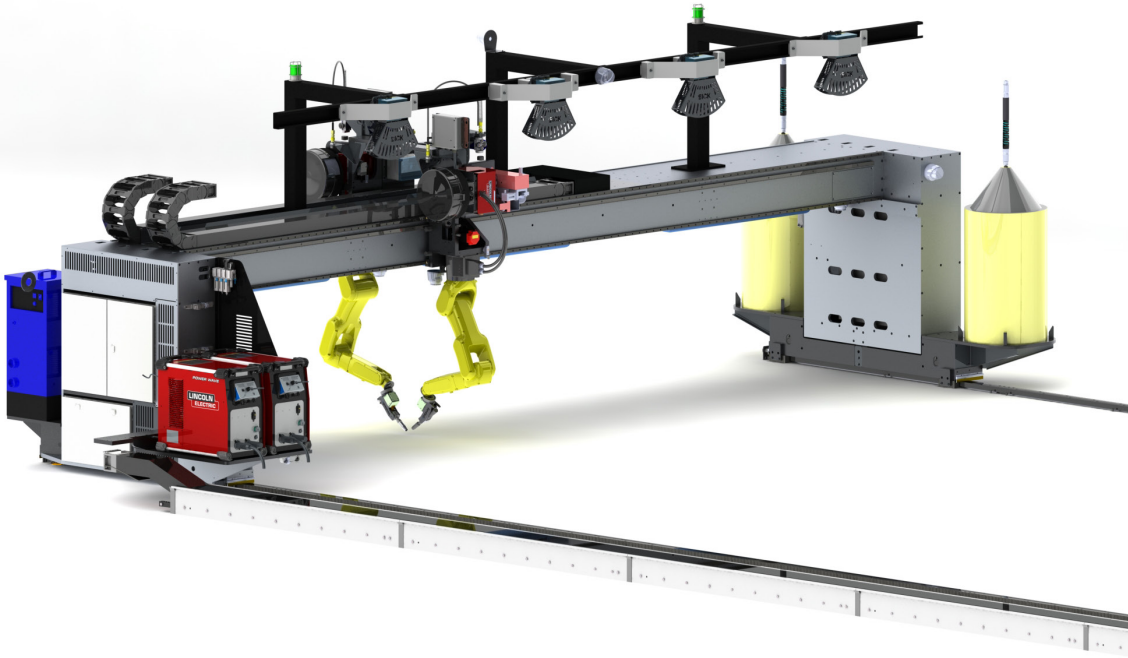


INROTECH-MICROTWIN

ROBOTIC WELDING SYSTEMS



Renders are for reference only

INROTECH-MICROTWIN® WELDING ROBOT SYSTEMS

The Inrotech-MicroTwin® system is a fully automated twin-wire robotic welding solution engineered for fast, precise welding of micro, mini panels, sub-assemblies, and T-beams. Designed to reduce cycle times and eliminate manual programming, the system delivers consistent weld quality, operational efficiency, and scalable throughput for manufacturers in shipbuilding and heavy industries.

SYSTEMS INCLUDES

- 2x Fanuc® LR-Mate 200id/7L industrial robots
- Custom aluminium gantry
- Rail system- dual heavy-duty tooth racks
- SICK® line scanners
- Thielmann® BRG-2000 D with wire cutter nozzle reaming and anti-spatter spray
- Abicor Binzel® fume extraction
- Wire feeder with maxiglider liner
- Secomea® SiteManager for remote access and diagnostics

APPLICATIONS

- Micro/mini panels
- Sub-assemblies
- Small industrial parts
- T-beams

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KEY FEATURE THE MICROTWIN APP

Automated Welding Technology

- Dual Fanuc LR-Mate robots enable simultaneous twin-wire welding for maximum productivity.
- No need for CAD files, macros, or programming—just press "Start" and let SensLogic™ handle it all.
- Equipped with SICK safety scanners and smart zone logic for operator protection and workflow efficiency.
- Compact, rail-mounted design allows for easy repositioning, scaling, or integration into existing production lines.

15+ years of Expertise

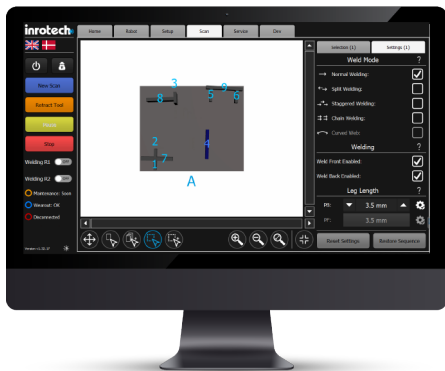
Library of sensing & welding routines built from shipbuilding and plate construction experience.

Smart Laser Sensing

The system identifies the design feature and selects the appropriate routine from the SensLogic® library. It measures the precise positions and adjusts the routine to match the actual dimensions.

Plug-and-Play Installation in a Compact Footprint

Installation is simple: position the gantry, connect power, air, and shielding gas, and start welding. The modular design and rail-mounted mobility make the Inrotech-MicroTwin® System easy to relocate, scale, or reconfigure—without interrupting your production flow.



BENEFITS

The Inrotech-MicroTwin® System Gives You Control

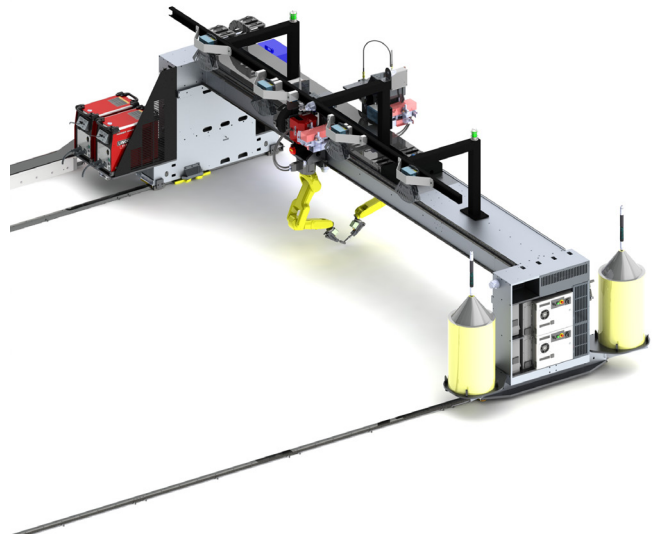
The rail system allows the robot to operate along extended work areas and adapts to various production environments.

The Power Wave R450 Makes It Possible

The industry-leading Power Wave R450 power source provides fast travel speeds and low spatter generation.

Data retention and reporting

- System can store weld job logs per panel or part
- Reports can be extracted for QA/QC or customer documentation
- Potential to integrate with MES or ERP systems via API/OPC-UA



PRODUCT SPECIFICATIONS

Product Number	Model	Gantry	Weight	Gantry width options	Rail length	Number of zones
90001808	Inrotech-MicroTwin	WxHxD = [5,730-7,530] x2,440x1,570 mm/ [226-297] x 96x62 in**	2,800-3,500 kg / 6,172-7,716 lbs	4-6 m / 13-20 ft in between legs	20-60 m / 66-197 ft	1-4*

*Options

**Can be customized

CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, and cutting equipment. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications 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, or to provide engineering advice in relation to a specific situation or application. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

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