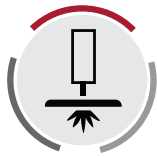
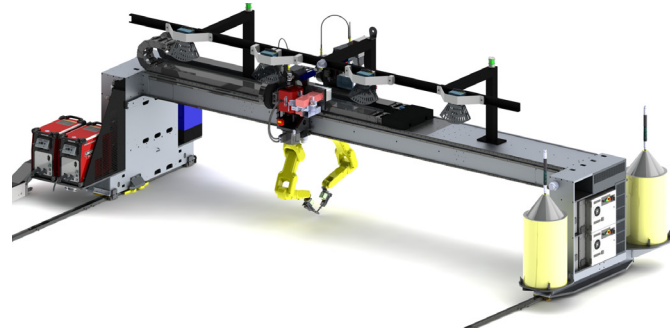


The Value of INROTECH-MICROTWIN

Robotic Welding Systems

The Inrotech-MicroTwin[®] system is specifically designed for highly automated welding of micro and mini panels, sub-assemblies, T-beams, and small parts. It operates without the need for programming, CAD file transfers, macro selection, or any intermediate setup based on scans or images. As a result, there is no requirement for backend engineering support or programming personnel.



Optimized Welding Quality that provides consistency

The integrated laser sensor and multi-tool head help with precise weld placement without manual alignment. Combined with features like automatic wire cutting, anti-spatter spray, and gas nozzle reaming, the system delivers consistent, high-quality welds with minimal rework.



No Programming Required

The Inrotech-MicroTwin[®] system features Inrotech's proprietary SensLogic[®] Technology, enabling it to autonomously detect and weld micro panels, T-beams, and sub-assemblies without the need for CAD files, macros, or backend programming. Operators simply press "Start"—the system handles the rest.



Compact Twin-Wire Welding for High-Volume Production

With dual Fanuc[®] LR-Mate robots and twin-wire welding capability, the system delivers exceptional throughput for small to medium-sized panels. It is optimized for fast welding speeds—up to 110 cm/min in PB position—making it ideal for repetitive high-volume tasks.



Plug-and-Play Installation with Minimal Footprint

Designed as a modular plug-and-play system, the Inrotech-MicroTwin[®] system can be deployed quickly with minimal infrastructure. Once the rails and safety fencing are installed and utilities connected, the system is fully operational—no complex integration required.



Advanced Safety Zoning with Intelligent Scanner Integration

It features dual SICK[®] safety scanners and a three-zone safety layout to help with operator protection and seamless production. The security zone prevents derailment and finger traps, while configurable orange and blue front zones adapt to varying panel heights.



Shipbuilding Industry Expertise

Inrotech, a Lincoln Electric company, is driving innovation in shipyard automation. Based on years of experience, Inrotech's design team strives to provide great technology and sophisticated software to facilitate first-class quality robotic welding.

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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