

The Value of INROTECH-CRAWLER

Adaptive Multipass Welding Systems

The Inrotech-Crawler™ system is a 45 kg robotic carriage that travels on flexible titanium rails, magnetically attaching to large steel structures—flat, curved, vertical, overhead—ideal for welding pipes, tanks, vessels, ship hulls, bridges and more. The system brings adaptive, automated, high-quality multipass welding directly to large structures—enhancing productivity, precision, and flexibility—without requiring specialized programming or setups.



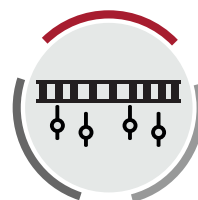
Inrotech-WeldLogic Software

The Inrotech-Crawler system features proprietary Inrotech-WeldLogic™ software, which automatically scans grooves, calculates the number and placement of weld passes, and adjusts welding parameters in real time. This automation helps produce consistent results with minimal operator input.



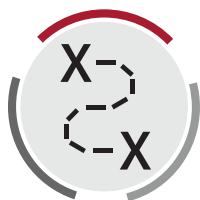
Compact, Powerful Design

Its UR3™ collaborative robot arm, combined with a robust rail and carriage system, enables welding in confined or complex environments, which allow it to be more flexible than larger, heavier robots.



Versatile Magnetic Rail System

The titanium rail system, equipped with powerful switchable magnets, allows the Inrotech-Crawler system to operate in virtually any orientation (horizontal, vertical, or overhead) on magnetic substrates. This flexibility makes it ideal for large structures, curved surfaces, and on-site fabrication.



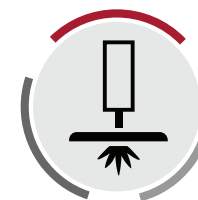
Seamless Remote Support and Monitoring

With integrated cameras and a secure Secomea® gateway, the system offers real-time remote diagnostics, support, and software updates. Optional data logging via OPC-UA or Inrotech-Cloud enables performance tracking and integration with MES/ERP systems.



Intuitive Operation and Minimal Training

The Windows-based HMI is icon-driven and available in multiple languages, making it easy for operators to learn and use. One operator can manage multiple systems simultaneously, helping to reduce labor costs and increase productivity.



Designed for Demanding Welding Applications

Engineered for heavy materials, deep grooves (20–80 mm), and complex groove types (V, half-V, tulip), the system supports welding in PA, PB, PF, PE, and PC positions. It's ideal for heavy fabrication like shipbuilding, offshore structures, and large pipe welding.

CUSTOMER ASSISTANCE POLICY

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