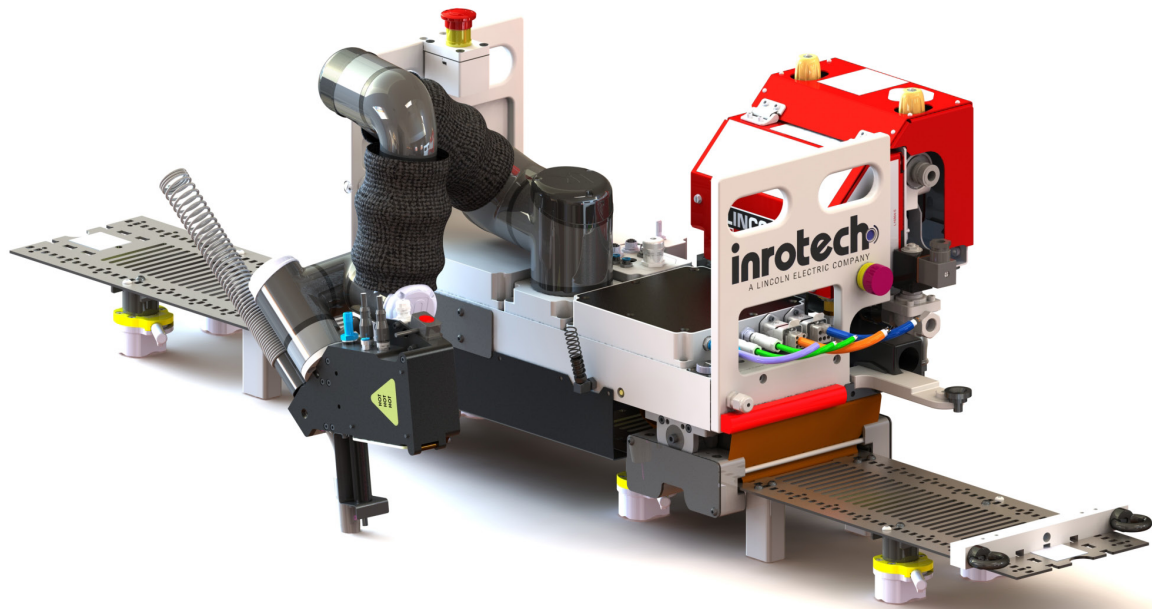


INROTECH-CRAWLER

ROBOTIC WELDING SYSTEMS



Renders are for reference only

INROTECH-CRAWLER ROBOTIC WELDING SYSTEMS

The Inrotech-Crawler™ system is compact yet powerful, designed for a wide range of welding applications, both on-site and in fabrication environments. Despite its small footprint, the system offers the same, and in some areas even superior, capabilities as full-size robotic welding systems.

Its rail-based mobility and extended cable setup provide exceptional flexibility, enabling operation in almost any orientation, as long as the substrate is magnetic. Equipped with Inrotech-WeldLogic™ software, the Inrotech-Crawler system automatically detects and welds standard groove shapes to achieve precise, consistent results with minimal operator input.

SYSTEM INCLUDES

- UR3® CB3 robot
- UR3 CB3 controller
- Lincoln Electric® Power Wave® R450 power source
- ABICOR BINZEL® AUT 501D or ABIROB® A500 automatic MIG gun
- Lincoln Electric Cool Arc® 50 water cooler
- Lincoln Electric AutoDrive® 4R100 wire feeder
- ABICOR BINZEL® wire feeder SmartBooster
- Inrotech-WeldLogic software
- Micro-Epsilon™ 2D line scanner
- DINSE® torch cleaning station
- Secomea® SiteManager IoT gateway

APPLICATIONS

- Heavy material
- Large plates
- Large pipes
- Curved substrates
- Hydro power plants
- Storage tanks
- Top-sides
- Rigs
- Jack-ups

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KEY FEATURES

Inrotech-WeldLogic Technology

- Automatic groove recognition
- Real-time seam tracking
- Auto start and end detection
- Multipass weld path calculation
- Dynamic weave and travel adjustments
- Weld quality monitoring and documentation



User-Friendly Interface

Inrotech-WeldLogic software offers a clear and intuitive human-machine interface (HMI) that automatically guides the user through setup and welding sequences. The operator starts a new weld on the HMI and sets the required inputs such as the material thickness, groove type, wire type, etc.

Sensor-Integrated System

The system's software works in tandem with advanced laser scanners (e.g., Micro-Epsilon) to analyze joint geometry and achieve precise arc start, consistent penetration, and adaptive welding behavior based on the allowed heat-input window.

BENEFITS

The Inrotech-Crawler System Gives You Control

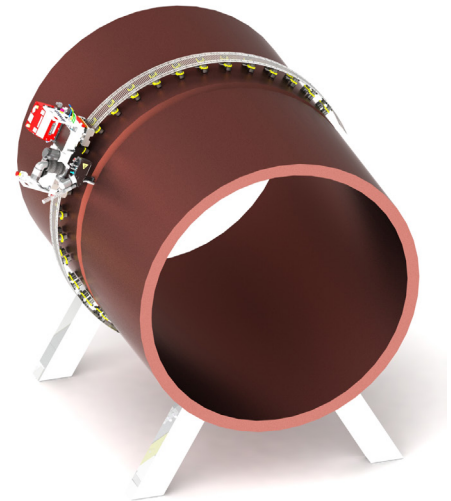
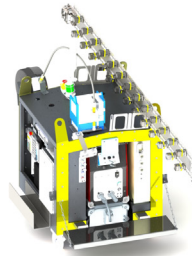
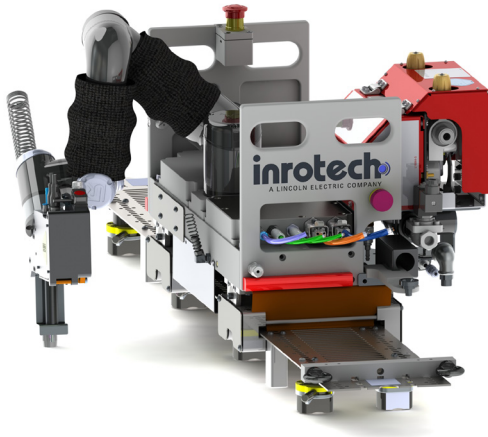
Easily deployable directly on large structures (ships, cranes, wind towers, etc.). The magnetic rail system allows mounting in vertical, horizontal, or overhead position.

The Power Wave R450 Power Source Makes It Possible

The industry-leading [Power Wave R450](#) power source provides fast travel speeds and low spatter generation.

Welding by Geometry Recognition

Unlike traditional semi-automated systems that rely on manual input, Inrotech-WeldLogic software automatically identifies groove type, adjusts welding sequence, and applies the optimal settings, helping save time and produce repeatable results.



PRODUCT SPECIFICATIONS

Product Number	Model Number	Model Name	Robot Dimensions W x H x D	Console Weight	Trolley Dimensions W x H x D	Trolley Weight	Rail Length	Rail Weight	Cable Length
AD2651-1	900001775	Inrotech-Crawler System	430 x 300 x 615 mm (17 x 12 x 25 in)	45 kg (100 lbs)	3,160 x 1,060 x 1,010 mm (125 x 42 x 40 in)	645 kg (1,422 lbs)	3 m (10 ft)	20.5 kg (562 lb)	10 m (66 ft)

CUSTOMER ASSISTANCE POLICY

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