



EASYARC® MIG WELDING COBOT CART



AUTOMATE MIG WELDING. WITHOUT THE COMPLEXITY.

Manual welding processes often create variability, operator fatigue, and inconsistent weld quality—especially in repetitive production environments. Skilled welders are increasingly difficult to find, making it harder to maintain throughput while controlling costs.

The EasyArc® MIG Welding Cobot Cart combines the ABB GoFa™ collaborative robot, Fronius TPSi MIG welding technology, and EasyArc software into a mobile, plug-and-play automation solution.

Delivered fully assembled and factory-tested, the EasyArc cart integrates the robot, welder, controller, and fixturing table into a single compact system. Simply connect one 480V power drop, teach the weld path, and start producing consistent robotic welds—no complex programming required

Why Choose EasyArc MIG?

- ◆ Complements the skill of human welders
- ◆ Fast ROI with low integration cost
- ◆ Designed for real-world welding needs
- ◆ Ideal entry point for automation in welding

KEY FEATURES:

- ▶ **PRE-ENGINEERED, PLUG-AND-PLAY DESIGN**
Fully integrated system with Fronius® welding package and ABB® GoFa™ collaborative robot.
- ▶ **EASY TO PROGRAM — NO CODING REQUIRED**
Operators guide the robot arm through weld positions while EasyArc's intuitive interface records the path. Programs can be created in minutes without coding.
- ▶ **SAFE TO OPERATE**
Collaborative robot design allows for safe operation near workers—no fencing required in most setups. Ideal for space-constrained work environments.
- ▶ **HIGH-MIX PRODUCTION READY**
Quickly teach new parts and switch programs, making EasyArc ideal for job shops and varied production schedules.
- ▶ **BOOSTS PRODUCTIVITY**
Automates repetitive welds tasks to increase throughput and reduce rework.
- ▶ **FAST RETURN ON INVESTMENT**
Fast ROI through reduced labor, fewer defects, and higher efficiency.

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STANDARD SYSTEM SPECIFICATIONS

1. EasyArc® Software

- ◆ Intuitive interface for fast part teaching and production setup
- ◆ No advanced programming skills required—ideal for all operator levels

3. Fronius® TPSi Welding Package

- ◆ 320A push system, water-cooled MIG welding package
- ◆ Innovative, user-friendly touch display
- ◆ Easily adaptable to individual welding needs & parameters
- ◆ Includes standard Fronius weld package for versatile applications
- ◆ **Upgrade to 400A or 500A** MIG welding capacity for heavy-duty applications

4. EasyArc® Cart

- ◆ Powder-coated steel frame for durability & mobility
- ◆ Integrated wire spool holder
- ◆ Swing-arm mount for FlexPendant
- ◆ Houses both controller and welder in a compact layout
- ◆ Locking casters for easy repositioning on the shop floor
- ◆ Requires only one 480V 3-phase power drop
- ◆ Expandable control for future accessories or welding upgrades
- ◆ 1-year warranty included

2. ABB® CRB1500 GoFa™ Collaborative Robot Arm

- ◆ Safe, rounded design with no pinch or trap points
- ◆ Safety certified to Category 3, PL d
- ◆ Up to 2.2 m/s TCP speed—faster than others in its class
- ◆ Integrated torque sensors for precise, safe motion control
- ◆ 1050mm reach—12% longer than comparable 5kg cobots
- ◆ Powered by ABB's OmniCore controller for energy-efficient, high-performance motion (up to 20% energy savings)
- ◆ **Optional upgrade** to Long Arm Cobot with 10kg payload and 1.62m reach for larger parts and extended workspaces

5. Bluco® Modular Tabletop (1000mm x 1400mm)

- ◆ Precision modular fixturing system designed for robotic welding
- ◆ Achieves ±0.005" repeatability when paired with EasyArc™ cobot welding solutions
- ◆ Ideal for high-mix or precision applications requiring consistent setups



AVAILABLE WELDING PACKAGE UPGRADES*

OPTION	DESCRIPTION
Single Axis Positioner	Servo-driven rotary positioner for pipe, tube, and cylindrical welding applications. Features an 8" chuck, 100 lb capacity, and 0-10 RPM control. Includes safety guarding and scanner for safe, accurate operation.
Two-Axis Skyhook Positioner	Heavy-duty servo-driven positioner for precise part orientation during welding. Ideal for complex geometries requiring multi-axis access. 1,350 lb capacity with 0-5 RPM rotation. Includes safety fencing and scanner.
Collaborative Servo Actuated Track	Servo-driven linear axis provides extended reach and synchronized robot motion. Integrated into the EasyArc™ software for accurate positioning across multiple work zones and expanded automation capability.
Easy Reach – Collaborative Robot Rotatory Boom	Manually indexed rotary boom extends robot reach by 1.2 meters. Rotates in 45° increments for efficient positioning over large parts or expanded fixture layouts.
Dual-Station System Configuration	Adds a second 1400 x 1000 mm Bluco® modular table with arc screen divider. Enables simultaneous loading and welding to maximize uptime and increase productivity.
Fume Extraction Unit	Offers over-the-torch source capture for MIG systems and a re-positionable nozzle for TIG/laser setups, all integrated with a Robovent® unit.

*Additional options available



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