

## PRECISION LASER WELDING. WITHOUT THE COMPLEXITY.

Traditional arc welding processes introduce heat distortion, wider weld beads, and post-weld finishing requirements that slow production and increase labor demands. For thin materials, tight tolerances, and cosmetic welds, manufacturers often struggle to achieve consistent results.

The EasyArc<sup>®</sup> Laser Welding Cobot Cart combines the ABB GoFa™ collaborative robot, an integrated laser welding head, and EasyArc™ software into a mobile automation platform designed for precision joining.

The result is a collaborative robotic system capable of producing narrow, cosmetically superior welds with minimal heat distortion—all programmed through the intuitive EasyArc interface. No complex robotics knowledge or laser programming experience required.

### Why Choose EasyArc Laser?

- ◆ Precision laser welding made accessible to any operator
- ◆ Minimal heat input reduces distortion and rework
- ◆ EasyArc software eliminates complex programming
- ◆ Mobile plug-and-play cobot cart design

### KEY FEATURES:

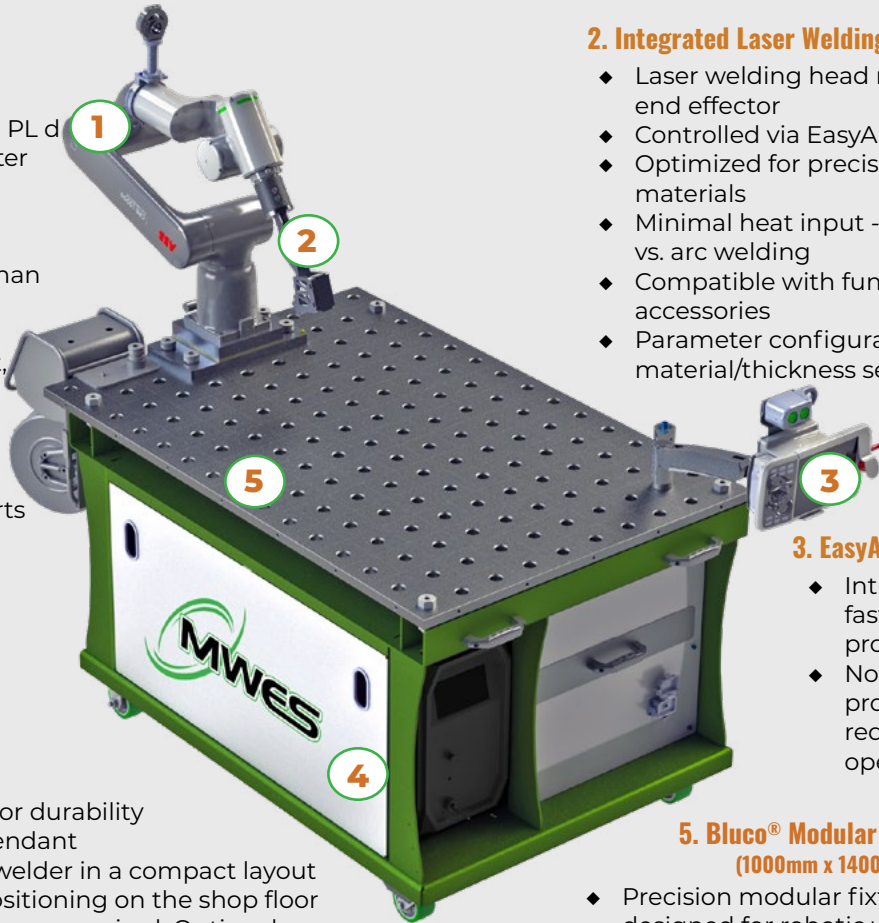
- ▶ **PRE-ENGINEERED LASER WELDING PLATFORM**  
Fully integrated laser welding head mounted to the ABB GoFa™ collaborative robot and EasyArc™ software. Compact mobile cart design allows quick deployment anywhere on the shop floor.
- ▶ **INTUITIVE PROGRAMMING — NO CODING REQUIRED**  
Operators guide the robot arm through weld positions while EasyArc's intuitive interface records the path. Programs can be created in minutes without coding.
- ▶ **MINIMAL HEAT DISTORTION**  
Laser welding concentrates energy into a small focal point, producing a deep, narrow weld with very small heat-affected zones.
- ▶ **COSMETIC WELD QUALITY**  
Produces smooth, narrow weld beads that often require little or no grinding or finishing.
- ▶ **IDEAL FOR THIN MATERIALS**  
Laser welding excels in thin-gauge stainless steel, aluminum, and precision assemblies where traditional arc welding introduces distortion.

# EASYARC® LASER COBOT CART

## STANDARD SYSTEM SPECIFICATIONS

### 1. 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



### 2. Integrated Laser Welding Head 2kW

- ◆ Laser welding head mounted to GoFa™ end effector
- ◆ Controlled via EasyArc software interface
- ◆ Optimized for precision joining of thin materials
- ◆ Minimal heat input - reduced distortion vs. arc welding
- ◆ Compatible with fume extraction accessories
- ◆ Parameter configuration based on material/thickness selection

### 3. EasyArc® Software

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

### 4. EasyArc® Cart

- ◆ Powder-coated steel frame for durability
- ◆ Swing-arm mount for FlexPendant
- ◆ Houses both controller and welder in a compact layout
- ◆ Locking casters for easy repositioning on the shop floor
- ◆ 120V or 240V single-phase power required; Optional single disconnect available at 240V
- ◆ Expandable for future accessories or upgrades
- ◆ 1-year warranty included

### 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 LASER WELDING 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 Rotary 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.
Laser-Safe Room Enclosure	12' x 12' enclosure designed for light-based welding processes. Includes large hinged doors and a laser-rated viewing window to safely contain operations while maintaining easy access for loading and setup.

\*Additional options available



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