

AUTOMATE PLASMA CUTTING. WITHOUT THE COMPLEXITY.

Manual plasma cutting often creates variability, inconsistent edge quality, and operator fatigue – especially in repetitive or high-precision applications. Skilled labor shortages and growing throughput demands make it increasingly difficult to maintain consistent results while controlling costs.

The EasyArc® Plasma Cutting Cobot Cart pairs the ABB GoFa™ collaborative robot, Hypertherm® Powermax SYNC™ plasma technology and EasyArc™ software into a mobile, plug-and-play automation solution. The result is rapid, consistent, and safe plasma cutting—without fencing, G-code, or robotics expertise.

Designed for real-world fabrication environments, the EasyArc Plasma Cart simplifies cobot plasma integration while delivering professional-grade cutting performance.

Why Choose EasyArc Plasma?

- ◆ No complex programming required
- ◆ Mobile, plug-and-play cart design
- ◆ Backed by MWES integration expertise and 24/7 support

KEY FEATURES:

- ▶ **PRE-ENGINEERED, PLUG-AND-PLAY DESIGN**
Fully integrated plasma power supply, collaborative robot, and EasyArc software in a compact mobile cart. Requires only a single 480V power drop.
- ▶ **INTUITIVE PROGRAMMING — NO CODING REQUIRED**
Guide the robot arm along the cut path and record positions using EasyArc's intuitive interface. Build cutting sequences in minutes—no CAM software required.
- ▶ **SMARTSYNC™ AUTOMATIC SETUP**
RFID-enabled Hypertherm® SmartSYNC™ torch technology automatically configures amperage and process settings—eliminating setup errors and simplifying changeovers.
- ▶ **SINGLE-PIECE CARTRIDGE CONSUMABLE**
Hypertherm's SYNC cartridge platform replaces traditional multi-piece consumables—delivering up to 2x consumable life vs. standard plasma and up to 5x vs. competitors.
- ▶ **CONSISTENT, REPEATABLE CUT QUALITY**
Automated path control eliminates operator variability, reduces rework, and delivers uniform results across carbon steel, stainless steel, and aluminum.

EASYARC® PLASMA COBOT CART

STANDARD SYSTEM SPECIFICATIONS

1. Hypertherm® Powermax65 SYNC™ Plasma

- ◆ Up to 25mm recommended cut capacity
- ◆ 32mm severance cut capability
- ◆ 105A max output
- ◆ 16.8kW power output
- ◆ RFID-enabled SmartSYNC™ torch communication
- ◆ Single-piece cartridge consumables with end-of-life detection
- ◆ Upgrade to Powermax85 or Powermax105 for heavy-duty applications

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
- ◆ Single 480 three-phase power drop required
- ◆ Expandable control for future accessories or 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. Plasma Cutting Table (50in x 40in)

- ◆ Sparks and slag fall away from the part for cleaner cuts and less cleanup
- ◆ Handles heat, debris, and daily production demands with ease
- ◆ Ideal for high-mix or precision applications requiring consistent setups



AVAILABLE PLASMA CUTTING UPGRADES*

OPTION	DESCRIPTION
Single-Axis Positioner	Servo-driven rotary positioner designed for pipe, tube, and cylindrical plasma cutting. 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 cutting or 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 50" × 40" plasma cutting table to enable simultaneous loading and cutting—maximizing uptime and increasing throughput.

*Additional options available



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