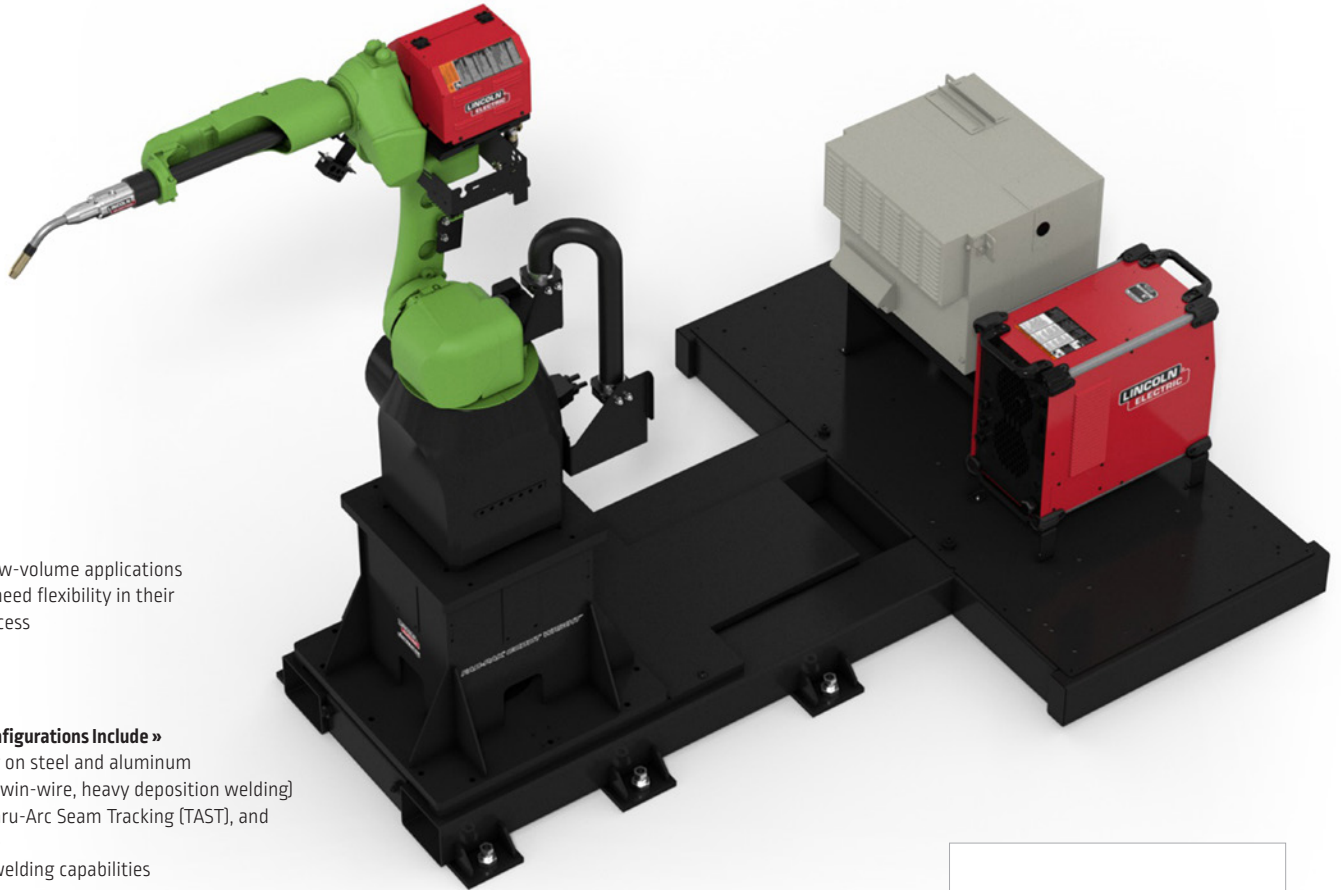


# COOPER™ HYBRID

## Collaborative Welding System



### Ideal For »

- » High-mix, low-volume applications
- » Shops that need flexibility in their welding process

### Capabilities/Configurations Include »

- » MIG welding on steel and aluminum
- » HyperFill® (twin-wire, heavy deposition welding)
- » Weaving, Thru-Arc Seam Tracking (TAST), and Touch Sense
- » Multi-Pass welding capabilities

## COBOT SAFETY ADVANTAGES, ADVANCED CAPABILITIES

Designed by the world leader in arc welding products, this industrial-grade welding cobot eliminates many of the barriers that have kept manufacturers from automating the welding process. Manufacturers of all sizes can benefit from the flexibility, safety and ease-of-use collaborative robots provide while experiencing welding efficiency and quality gains.

The Cooper Hybrid enables steel, stainless and aluminum welding with an industrial grade Fanuc® robot and advanced welding capabilities. Thru-arm torch bundle and traditional pendant programming enables superior programming processes.



**Safety features** – Power and force limiting sensors, speed and separation monitoring with soft impact design and sensing technology

**High precision** – Robotic motion falls within .02mm of programmed positions ensuring high repeatability and reliability

The Cooper Hybrid is ideally suited for high-mix, low-volume manufacturing, providing your staff with a safer and more productive way to work alongside robots in the same space.

## WHAT'S INCLUDED:

### Cooper Hybrid - Aluminum MIG

- » Power Wave® R450 power source
- » FANUC CR-15iA collaborative arc welding robot arm
- » AutoDrive® wire feeder
- » Aluminum Servo Torch
- » Water Cooler
- » Palletized Base

### Cooper Hybrid - HyperFill\*

- » Power Wave® S700 power source
- » FANUC CR-15iA collaborative arc welding robot arm
- » AutoDrive® wire feeder
- » Magnum® PRO HyperFill robotic welding gun
- » Coolwave® 20 water cooler
- » Palletized Base
- » Requires the purchase of premium Lincoln Electric wire or purchase of a separate license.

### Cooper Hybrid - Steel MIG

- » Power Wave® R450 power source
- » FANUC CR-15iA collaborative arc welding robot arm
- » AutoDrive® wire feeder
- » Magnum® PRO thru-arm air cooled robotic welding gun
- » Palletized Base

## SYSTEM OPTIONS:

- Hand Guidance Unit
- Manual and Automatic\*\* Positioners
- Modular Fixturing Tables
- Modular Clamp & Block Kit
- Headstock Positioners (Aux)
- Fume Extraction
- Power Disconnect

Product Number	System Dimensions L x W x H — in (mm)	System Weight lb (kg)	Repeatability in (mm)	Arm Reach in (mm)	Payload lb (kg)
AD2461-4	108 x 74 x 95 [2743.2 x 1879.6 x 2413]	3196.7 [1450]	± 0.0008 [0.02]	56 [1441]	33 [15]

#### \*HyperFill Activation Capability with Power Wave® Systems

Your purchase of a Lincoln Power Wave or Welding System comes with (i) a license to use Lincoln Electric standard Power Wave waveforms, and (ii) HyperFill waveform capability, which requires the purchase of premium Lincoln Electric wire or purchase of a separate license. Unless one of these is purchased, the HyperFill waveform will not be available for use on these machines, and only the standard Power Wave waveforms are usable.

#### \*\*Automatic positioners require additional safety mechanisms

#### CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to [www.lincolnelectric.com](http://www.lincolnelectric.com) for any updated information.

#### THE ONLY SINGLE-SOURCE AUTOMATION PROVIDER

Lincoln Electric Automation™ has built a solutions portfolio to include all of the competencies to support your need to improve productivity, quality and safety. Lincoln Electric Automation can modify or completely customize the creation of your weld cell to meet those precise needs.

With a global network of facilities and people, you'll get quick response and personalized attention. Contact us for more information on the types of solutions available to help you produce faster, more repeatable, higher quality results.



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