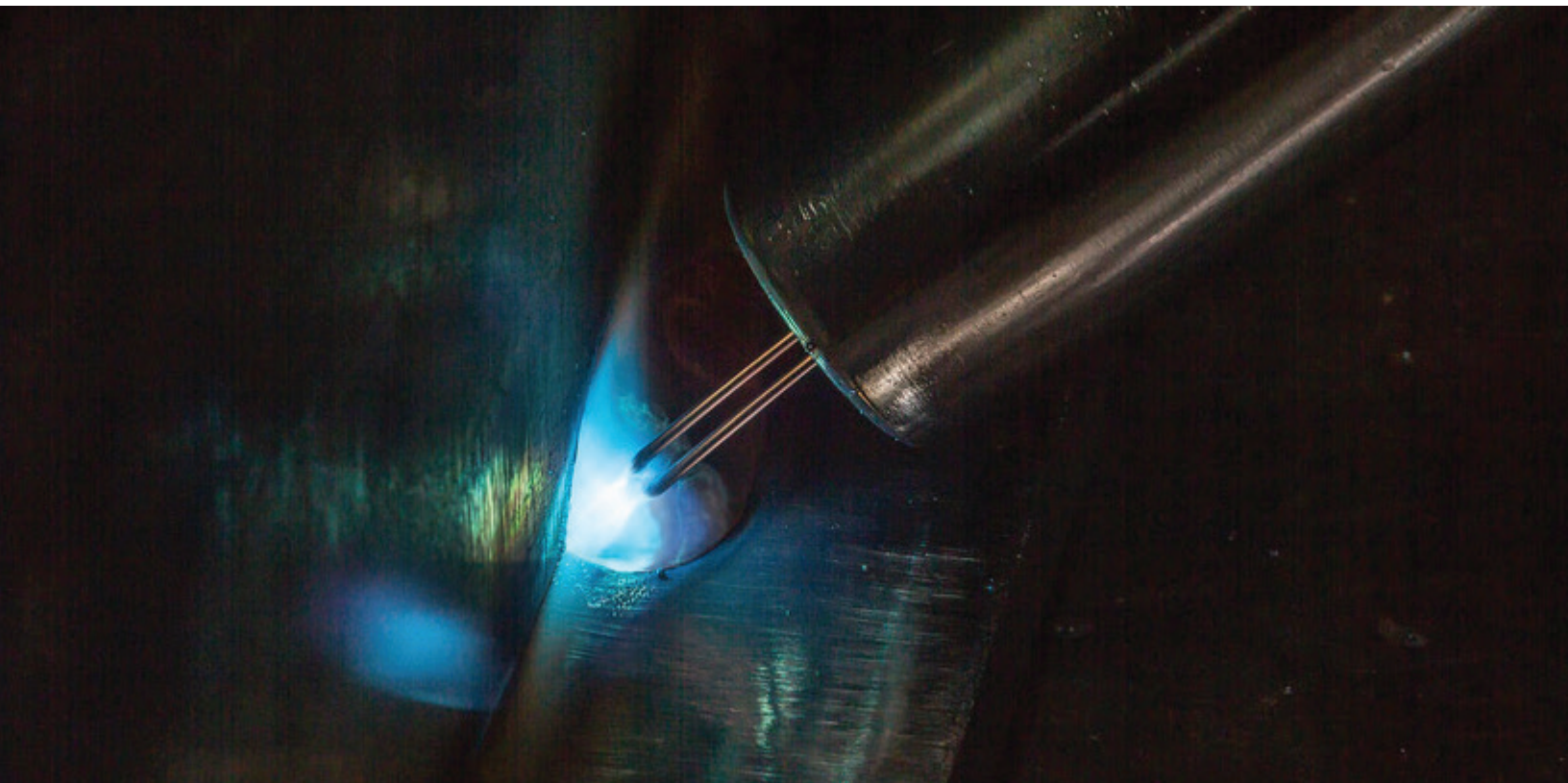


# HYPERFILL™

HIGHER DEPOSITION. LOWER DIFFICULTY.



The HyperFill™ twin-wire MIG solution was developed to revolutionize heavy fabrication productivity. Designed for semiautomatic and robotic applications, HyperFill redefines high deposition welding – allowing you to make larger welds, faster and more easily. With its innovative twin-wire design, HyperFill allows for deposition rates above 18 lbs/hr (24+ lbs/hr robotically) without compromising weld quality or operator ease-of-use.

- » Maximize productivity – Increases deposition rates over single wire applications
- » Improve weld quality – Stable arc for easy control of large weld puddles
- » Low system complexity – Powered by a single power source. Fed through a single wire feeder and single contact tip

» **Processes »**

Patent-Pending  
Twin-Wire GMAW

» **Applications »**

Heavy Fabrication  
High Deposition Welds

## HyperFill Ready-Pak® Packages

HyperFill Ready-Pak® Packages include everything needed to run the HyperFill process assembled and shipped on one pallet. Welding wire, shielding gas, and coolant must be ordered separately.

### HyperFill - Single Ready-Pak, includes:

- Power Wave® S500 (K2904-1)
- Power Feed® 84 Wire Feeder (K3328-3)
- Cool Arc® 55 Water Cooler (K3086-1)<sup>(1)</sup>
- Magnum® PRO Water Cooled 500A Gun (K4522-2-10-45)
- 7 ft. Water Hose Kit (K4544-7)
- HyperFill Dual Reel Cart Kit (K4630-1)
- 4-Ball Inlet Guide (K1551-2)
- HyperFill .035-.040 (0.9-1.0 mm) Drive Roll Kit (KP4388-1)
- HyperFill Diffuser (KP4481-1)
- HyperFill .035 Contact Tip (KP4482-035)
- 1/8 in. Recess Nozzle (KP4523-1-75R)
- 15 ft., 5/64 in. Liner (KP44-564-15)
- Work Lead Package (K2149-1)
- Electrode Cable (K1842-10)
- ArcLink® Cable (K1543-8)

Inverter and Wire Feeder Cart (K3059-4)

Complete Ready-Pak, Order K4650-2

### HyperFill - Dual Feeder Ready-Pak, includes:

- Power Wave® S500 (K2904-1)
- Power Feed® 84 Dual Wire Feeder (K3330-3)
- Cool Arc® 55 Water Cooler (K3086-1)<sup>(1)</sup>
- Magnum® PRO Water Cooled 500A Gun (K4522-2-10-45)
- 7 ft. Water Hose Kit (K4544-7)
- HyperFill Dual Reel Cart Kit (K4630-1)
- 4-Ball Inlet Guide (K1551-2)
- HyperFill .035-.040 (0.9-1.0 mm) Drive Roll Kit (KP4388-1)
- HyperFill Diffuser (KP4481-1)
- HyperFill .035 Contact Tip (KP4482-035)
- 1/8 in. Recess Nozzle (KP4523-1-75R)
- 15 ft., 5/64 in. Liner (KP44-564-15)
- Standard Duty Wire Reel Stand (K3342-1)
- Magnum® PRO Curve™ 300A Gun (K2951-2-10-45)
- Standard .040-.045 (1.0-1.1 mm) Drive Roll Kit (KP1505-045)
- Work Lead Package (K2149-1)
- Electrode Cable (K1842-10)
- ArcLink® Cable (K1543-8)

Inverter and Wire Feeder Cart (K3059-4)

Complete Ready-Pak, Order K4650-1



Shown: K4650-1

<sup>(1)</sup> Coolant and regulators must be ordered separately.

## Component One-Pak® Packages

HyperFill Component One-Pak® Packages include all gun and wire drive components needed to run the HyperFill process. Power source, wire feeder, water cooler, welding wire and shielding gas must be ordered separately.

Accessories	Qty.	Product Number	SEMI-AUTOMATIC			ROBOTIC <sup>(2)</sup>		
			HyperFill .035 K4586-035	HyperFill .040 K4586-040	HyperFill .045 K4586-045 <sup>(3)</sup>	HyperFill .035 K4587-035	HyperFill .040 K4587-040	HyperFill .045 K4587-045 <sup>(3)</sup>
Magnum® PRO 500 A Water-Cooled Gun with Tweco™ Connector	1	K4522-2-10-45	•	•	•			
HyperFill Diffuser	2	KP4481-1	•	•	•	•	•	•
HyperFill Contact Tip - 0.035	10	KP4482-035	•			•		
HyperFill Contact Tip - 0.040	10	KP4482-040		•			•	
HyperFill Contact Tip - 0.045 <sup>(3)</sup>	10	KP4482-045			•			•
HyperFill Drive Roll Kit (.035 - .040 / 0.9 -1.0 mm)	1	KP4388-1	•	•		•	•	
HyperFill Drive Roll Kit (.045 / 1.2 mm)	1	KP4388-2			•			•
Magnum PRO Gun Liner - 5/64	1	KP44-564-15	•	•	•	•	•	•
HyperFill Inlet Bushing	1	K4389-1	•	•	•	•	•	•
Gun Nozzle (Semi-Automatic)	2	KP4523-1-75R	•	•	•			
Gun Nozzle (Robotic)	2	KP4120-1-75R				•	•	•

(2) A K3593-XXX Magnum PRO Robotic Water-Cooled Torch One-Pak® should be ordered in addition to the Hyperfill Robotic One-Pak. Please refer to literature E12.07 to select the correct Torch One-Pak for your application.

(3) Power Wave s700 required to run HyperFill with .045 wire

### HYPERFILL – INDIVIDUAL COMPONENTS

#### GUN COMPONENTS

Product Number	Description
K4522-2-10-45	Magnum PRO 500 A Water Cooled Gun with Tweco Connector
K4522-2-FM-45	Magnum PRO 500 A Water Cooled Gun with Fast-Mate Connector
KP44-564-15	Magnum PRO Gun Liner - 5/64
KP4481-1	HyperFill Diffuser
KP4482-035	HyperFill Contact Tip - 0.035 (0.9 mm)
KP4482-040	HyperFill Contact Tip - 0.040 (1.0 mm)
KP4482-045 <sup>(3)</sup>	HyperFill Contact Tip - 0.045 (1.2 mm)

#### WIRE FEEDER COMPONENTS

Product Number	Description
KP4388-1	HyperFill Drive Roll Kit (.035 - .040 / 0.9 -1.0 mm)
KP4388-2 <sup>(3)</sup>	HyperFill Drive Roll Kit (.045 / 1.2 mm)
K4389-1	HyperFill Inlet Bushing
K4544-7	M-F Water Hose Kit (7 ft)
K4544-25	M-F Water Hose Kit (25 ft)

(3) Power Wave s700 required to run HyperFill with .045 wire

## RECOMMENDED PRODUCTS

### SEMI-AUTOMATIC

Product Number	Description
K2904-1	Power Wave® S500 Advanced Process Welder
K3279-1	Power Wave S700 Advanced Process Welder
K3328-3	Power Feed® 84 Advanced Process Wire Feeder
K3086-1 <sup>(1)</sup>	Cool Arc® 55 Water Cooler

(1) Coolant and regulators must be ordered separately.

### ROBOTIC

Product Number	Description
K3451-1	Power Wave R450 Advanced Process Welder
K3279-1	Power Wave S700 Advanced Process Welder
K3561-1	AutoDrive® 4R220 Robotic Wire Feeder
K3086-1 <sup>(1)</sup>	Cool Arc 55 Water Cooler

## RECOMMENDED ACCESSORIES

### GENERAL OPTIONS



#### HyperFill Reel Stand Conversion Kit

[For Inverter Cart K3059-4].  
BRACKET AND STAND ONLY – Power source, wire feeder, cart, gun and HyperFill components must be ordered separately.  
**Order K4630-1**



#### HyperFill Bench Top Mounting Kit

BRACKET AND STAND ONLY – Power source, wire feeder, cart, gun and HyperFill components must be ordered separately.  
**Order K4630-2**



#### HyperFill Undercarriage Mounting Kit

[For Undercarriage Cart K163] BRACKET ONLY – Power source, wire feeder, cart, gun and HyperFill components must be ordered separately.  
**Order K4630-3**

For best welding results with Lincoln Electric equipment, always use Lincoln Electric consumables. Visit [www.lincolnelectric.com](http://www.lincolnelectric.com) for more detail.

### 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.

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