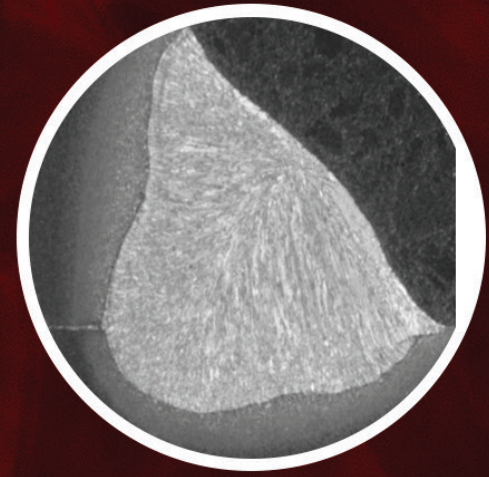


**INCREASE DEPOSITION RATES
OVER 90%**



HYPERFILL[®]

TWIN WIRE GMAW SOLUTION

HIGH DEPOSITION WELDS - FASTER. EASIER.

DEPOSITION RATE COMPARISON



5/16 in. FILLET WELD COMPARISON



Deposition Rate: lbs/hr**

13

ER70S-6 0.045 in. GMAW Single Wire
with Flextec® 500X



Deposition Rate: lbs/hr**

20

SuperArc® 0.040 in. GMAW HyperFill®
with Power Wave® S500/PIPEFAB™/
Power Wave® R450



Deposition Rate: lbs/hr**

25

SuperArc® 0.045 in. GMAW HyperFill®
with Power Wave® S700

OVER 90% INCREASE IN DEPOSITION RATES

**HyperFill GMAW vs Single Wire GMAW Productivity Study: To determine the increase in deposition rate with HyperFill GMAW Solutions within a 3-minute weld time. The proper use of qualified welding procedures, products, and techniques is necessary to achieve the outcomes displayed.

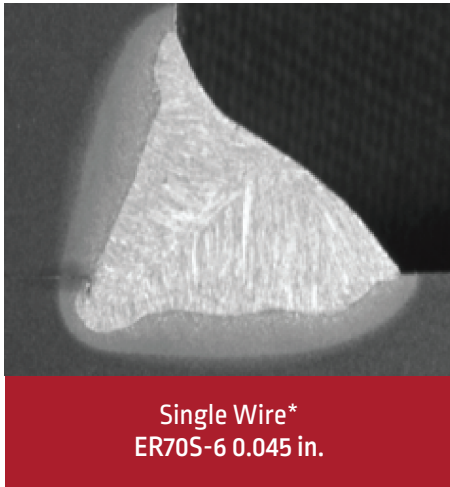
HyperFill™ Waveform Activation Capability with Power Wave® and PIPEFAB™ Systems

Your purchase of a Lincoln Power Wave Welding System comes with (i) a license to use Lincoln Electric standard Power Wave waveforms, and (ii) HyperFill waveform capability, which requires a separate license. Without the separate license, the HyperFill waveform is not available for use on these machines, and only the standard Power Wave waveforms are usable. For more information, please see the REVEAL/HyperFill Supplemental Terms and Conditions [here](#).

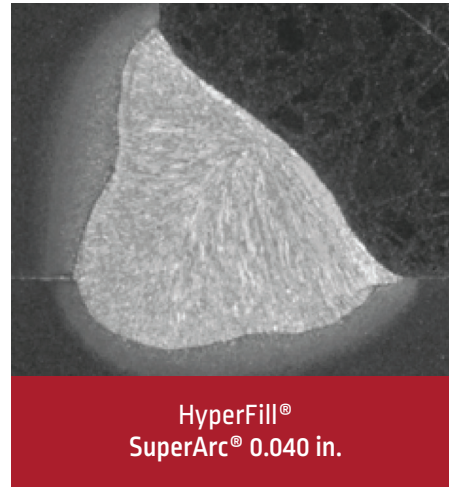
INTRODUCING HYPERFILL® FOR GAS METAL ARC WELDING

Designed to revolutionize heavy fabrication productivity, the HyperFill® twin wire MIG solution allows for increased deposition rates without compromising puddle stability or weld quality. Utilizing a single power source, wire feeder, single tip, and Lincoln Electric premium wire, this innovative solution delivers a wide, smooth arc cone that allows for deposition rates above 18 lbs/hr. and up to 25 lbs/hr. for robotic applications without added system or operator complexity.

- » **Maximize productivity** – Increases deposition rates compared to single wire applications.
- » **Improve weld quality** – Stable arc and smooth droplet transfer for easy weld puddle control.
- » **Simple setup** – One power source, one wire feeder, one contact tip design.
- » **Optimized penetration** – Process can improve penetration profile.



Narrow arc cone, narrow penetration profile. Increased risk of weld defects at higher deposition rates.



Wide arc cone leads to favorable, robust penetration profile which can improve weld quality at high deposition rates.

**Use of qualified welding procedures are required to ensure proper results.*



HyperFill™ Waveform Activation Capability with Power Wave® and PIPEFAB™ Systems

Your purchase of a Lincoln Power Wave Welding System comes with (i) a license to use Lincoln Electric standard Power Wave waveforms, and (ii) HyperFill waveform capability, which requires a separate license. Without the separate license, the HyperFill waveform is not available for use on these machines, and only the standard Power Wave waveforms are usable. For more information, please see the REVEAL/HyperFill Supplemental Terms and Conditions [here](#).

HYPERFILL® CAN INCREASE YOUR PRODUCTIVITY

HyperFill® can enable users to achieve higher deposition rates, faster travel speeds and make bigger welds with ease.

USER ADVANTAGES

- » Intuitive operator experience
- » Reduced number of passes
- » Higher productivity
- » Reduced downtime



Semi-Automatic Power Source / Coolers

* Power Wave® 5500, PIPEFAB™ (Process Pipe), Cool Arc® 55 or 55S or Cool Wave™ 20S.



Gun / Wire Feeder / Accessories

* Magnum® PRO 500A Water Cooled Gun, HyperFill® Tip (Contact Tip, Diffuser), Power Feed® 84, and HyperFill® Drive Rolls

HyperFill®

TWIN WIRE GMAW SOLUTION

Power Feed® 84 Dual feeder adds more flexibility to the HyperFill® system. Power Feed® 84 Dual feeder may be configured at the same time - HyperFill® on one side, single wire process on the other side. This feature provides operators with the flexibility of choosing between HyperFill® and other processes, resulting in increased productivity.



THE LINCOLN ELECTRIC COMPANY

Lincoln Electric is the world leader in the engineering, design, and manufacturing of advanced arc welding solutions, automated joining, assembly and cutting systems, plasma and oxy-fuel cutting equipment, and has a leading global position in brazing and soldering alloys. Lincoln is recognized as the Welding Expert™ for its leading materials science, software development, automation engineering, and application expertise, which advance customers' fabrication capabilities to help them build a better world. Headquartered in Cleveland, Ohio, Lincoln operates 71 manufacturing and automation system integration locations across 21 countries and maintains a worldwide network of distributors and sales offices serving customers in over 160 countries. For more information about Lincoln Electric and its products and services, visit the Company's website at www.lincolnelectric.com.

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TEST RESULTS - Test results for deposition rates, mechanical properties, deposit or electrode composition, and diffusible hydrogen levels were obtained from welds produced and tested according to typical codes and standards, and should not be assumed to be the actual results in a particular application or weldment. Data shown is representative of the results achieved for a specific set of welding conditions that may be different than our customers' conditions. Actual results will vary depending on many factors, including, but not limited to, weld procedure, plate chemistry and temperature, weldment design and fabrication methods. Users are cautioned to confirm by qualification testing, or other appropriate means to the relevant industry or project requirements, the suitability of any welding consumable(s) and welding procedure before use in the intended application.

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