Designed to revolutionize heavy fabrication productivity, the patented HyperFill twin wire solution allows for increased deposition rates without compromising puddle stability or weld quality. Utilizing a single power source, a single wire feeder, a single high-performance FCAW tip and Lincoln Electric premium wire, this innovative solution delivers a wide, smooth arc cone that allows for deposition rates above 15 lbs/hr | 6.8 kg/hr.

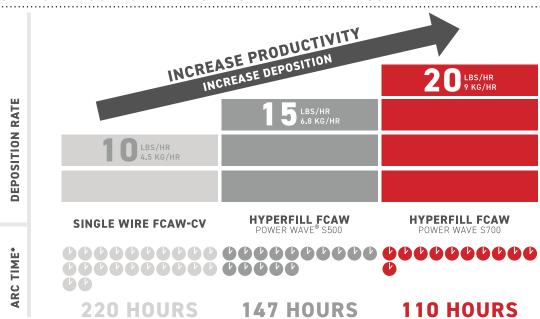
#### Solution Requirements:

HyperFill® is a patented and licensed twin-wire solution that is designed to perform specifically with select Lincoln Electric welding wire. To access this licensed solution, activation is required through the Lincoln Electric REVEAL™ Activation Platform. For more details, reference document MC20-106



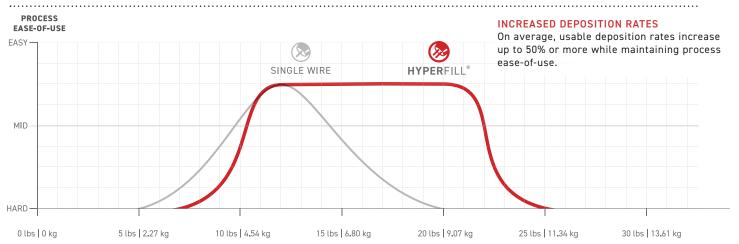
SINGLE WIRE VS HYPERFILL-FLAT / HORIZONTAL

## FCAW-G DEPOSITION RATE & ARC TIME COMPARISON



\*Welding Time Study: Arc time to deposit 2200 lbs (1000kg) of weld metal at 100% operating factor

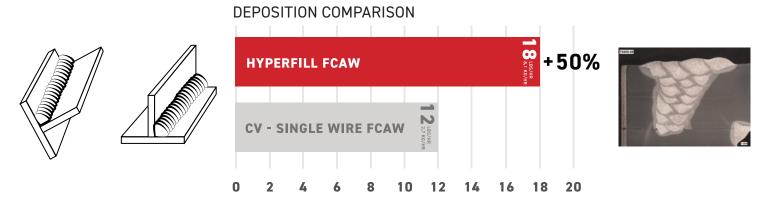
# FCAW-G PROCESS COMPARISON - DEPOSITION RANGE



## FCAW-G FLAT & HORIZONTAL POSITION PERFORMANCE

SINGLE WIRE INDUSTRY AVERAGE VS HYPERFILL

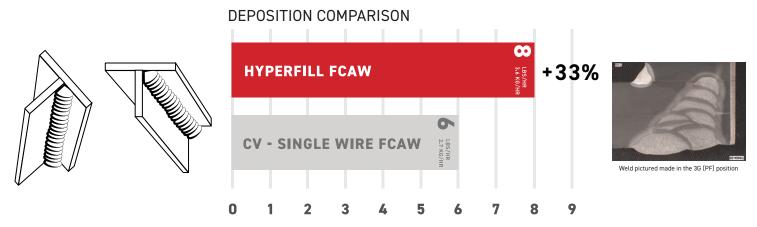
Patented FCAW HyperFill Tip provides improved performance and ease-of-use during flat and horizontal welding applications at high deposition rates.



# FCAW-G OUT-OF-POSITION PERFORMANCE

SINGLE WIRE INDUSTRY VS HYPERFILL - VERTICAL / OVERHEAD

Patented FCAW HyperFill Tip provides improved performance and ease-of-use during out-of-position welding applications at high deposition rates.



# REQUIRED COMPONENTS



### **Power Source**

Power Wave® S500 Power Wave® S700 PIPEFAB™ (Process Pipe) Cool Arc® 55S Cool Wave® 20S



**Specialized Waveform** 

HyperFill® Waveform



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## Gun / Wire Feeder

Magnum® PRO 500A Water Cooled Gun Power Feed® 84 / Power Feed® 25M HyperFill® Cored Wired Contact Tip HyperFill® Diffuser HyperFill® Drive Rolls



## Lincoln Electric Premium Wire

Lincoln Electric premium wire is a critical input for the HyperFill® Solution. Tight manufacturing tolerances and chemistry control ensure consistent wire feeding and arc performance.

#### Test Results Disclaimer

Test results for mechanical properties, deposit, fume generation, or electrode composition and diffusible hydrogen levels were obtained from a weld produced and tested according to prescribed standards. Actual results will vary depending on many factors, including, but not limited to: the base material or substrate being welded, the welding procedure and welding process, and the unique conditions present in the workplace or welding environment. Users and employers have the sole responsibility for and control over workplace conditions, including the manner in which work is performed and the safety measures taken. Always read and follow applicable OSHA regulations as well as all information on product labeling and safety data sheets when using Lincoln Electric products. Safety data sheets for Lincoln Electric products can be found at http://www.lincolnelectric.com/en-us/support/msds/Pages/sds-search.aspx. Users and employers should have an industrial hygienist check worker exposure levels to be certain that they are within applicable OSHA PEL and ACGIH TLV limits for the particular application or weldment.

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

Your purchase of a Lincoln Electric 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

### Customer Assistance Policy

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 uproducts. 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