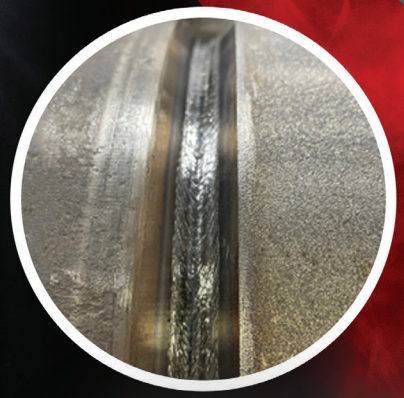
INCREASE
ROOT PASS TRAVEL SPEEDS
UP TO 57%

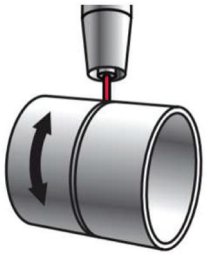
LINCOLN ELECTRIC



HYPERFILL® STT®
TWIN WIRE GMAW SOLUTION

TRAVEL SPEED COMPARISON

* Welding arc time study. Arc time to weld a root pass (5-6mm ligament depth) on a 25.4 cm diameter carbon steel pipe. Based on 100% operating factor.



Welding Position: 1G

Travel Speed: mm/min

76

GTAW
1 x 2.4 mm wire

Travel Speed: mm/min

177

Single Wire STT®
1 x 1.2 mm wire

Travel Speed: mm/min

278

HyperFill® STT®
2 x 1.0 mm wire

57% INCREASE IN TRAVEL SPEEDS

266% INCREASE IN TRAVEL SPEEDS

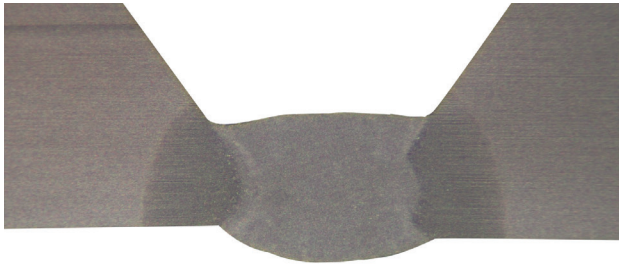
HyperFill™ Waveform Activation Capability with Power Wave® and PIPEFAB™ Systems
Your purchase of a Lincoln Power Wave Welding System comes with (i) a license to use Lincoln Electric standard Power Wave waveforms, and (ii) HyperFill waveform capability, which requires a separate license. Without the separate 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 THE HYPERFILL® STT® FOR GAS METAL ARC WELDING

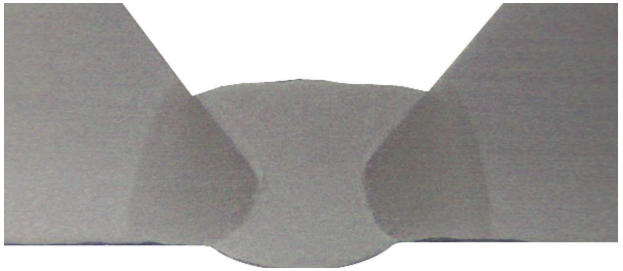
Lincoln Electric's STT® (Surface Tension Transfer®) process capability provides superior puddle control for pipe root pass welding. Paired with our HyperFill® twin-wire GMAW solution, we have revolutionized pipe welding productivity.

- **Maximum productivity** – Increase root pass travel speed with HyperFill® STT®.
- **Improve travel speeds** – Achieve up to 28 cm/min in the root pass.
- **Simple setup** – One power source, one wire feeder, one contact tip design.
- **Exceptional arc control** – Outstanding open root performance on pipe welding applications.

GTAW
1 x 2.4 mm wire



Single Wire STT®
1 x 1.2 mm wire



HyperFill® STT®
2 x 1.0 mm wire

Waveform Control Technology®
Advanced software-driven hardware architecture allows for Lincoln Electric exclusive welding processes such as STT®, Rapid X®, HyperFill® and Low Fume Pulse®. For a full list of available welding processes and waveforms as well as requirements and software update details for Power Wave® advanced process welding systems, please visit our website.

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® STT® CAN INCREASE YOUR PRODUCTIVITY

HYPERFILL® STT® provides opportunities to achieve faster travel speeds in root pass welding with greater ease.

HyperFill®
TWIN WIRE GMAW SOLUTION

MINIMAL COMPLEXITY:

- Single power source
- Single feeder
- Single gun liner
- Single contact tip
- Single electrical arc

Power Feed® 25M Portable Wire Feeders

* The PowerFeed 25M® seamlessly integrates with Power Wave® and HyperFill® STT advanced welding solutions.

HyperFill® PIPEFAB™ Ready Pak®

* Image shown with PIPEFAB™ Feeder HyperFill®

HyperFill® Power Wave® S500 with Power Wave® STT® Process Module

* Image shown with Power Feed® 84 Dual Bench feeder

The REVEAL Platform

The REVEAL Platform is an embedded software package that is integrated into all Lincoln Electric® Advanced Process Welding equipment. Using a simple scanning function via the Gateway pendant, the REVEAL Platform allows users to activate certain process-optimized solutions that use multiple Lincoln Electric components – such as a power source, specific weld mode, and consumable products – in order to maximize welding performance and deliver the true value of the solution. Click here for more information, terms & conditions.

THE LINCOLN ELECTRIC COMPANY

Founded in 1895 by John C. Lincoln, the Lincoln Electric Company is the world leader in the design, development and manufacture of arc welding products, robotic arc welding systems, plasma and oxyfuel cutting equipment and has a leading global position in the brazing and soldering alloys market. Headquartered in Cleveland, Ohio, Lincoln Electric has a global network of manufacturing, distribution, sales and technical support covering more than 160 countries.

TEST RESULTS

Test results for mechanical properties, deposit or electrode composition and diffusible hydrogen levels were obtained from a weld produced and tested according to prescribed standards, and should not be assumed to be the expected results in a particular application or weldment. 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, the suitability of any welding consumable and procedure before use in the intended application.

CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, and cutting equipment. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications 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, or to provide engineering advice in relation to a specific situation or application. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed. Lincoln Electric is a responsive manufacturer, but the definition of specifications, and 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.

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