

PIPEFAB™

WELDING SYSTEM



LINCOLN®
ELECTRIC



The Ideal Setup for Pipe and Vessel Fabrication

From concept to reality, the PIPEFAB™ welding system was developed for one purpose – to deliver the ideal setup for pipe and vessel fabrication. From machine design to arc performance, no detail was overlooked in delivering a complete, customer-driven system that lets your shop focus on what matters most – making high-quality root-to-cap welds, faster and easier.

Game-Changing Performance and Simplicity

Breakthrough Arc Performance

- From root, to cap, to final fit – the PIPEFAB™ system has you covered with weld modes that have been fine-tuned to deliver breakthrough arc performance specifically for pipe and vessel fabrication.

Industry-Driven Design

- Like the name says, the PIPEFAB™ system was developed specifically for pipe and vessel fabrication. With its Ready-to-Run™ design, every detail was considered in creating the ultimate setup for the pipe and vessel industry.

Straightforward and Simple

- Developed to be the fastest, smartest, and easiest solution on the market, the PIPEFAB™ system delivers straightforward and simple digital control with one-click process selection.

Trusted Expertise and Support

- Whatever challenge you may have, wherever in the world it may be, Lincoln Electric is here to help with proven industry knowledge and support.

Processes

Stick, TIG DC (HF and TouchStart® TIG), MIG, STT®, Pulsed MIG, Flux-Cored

Applications

Pipe, Vessel and Process Pipe

Product Number

K3732-1P PIPEFAB Ready to Weld Package
(see back page for full details)

K3732-1 PIPEFAB™ Power Source

K3735-1 PIPEFAB™ Wire Feeder

K3736-1 Dual Cylinder Undercarriage

K3737-1 PIPEFAB™ Water Cooler



Smart Pulse™ Fill and Cap



STT® Root Run



Pulse TIG – Stainless

PRODUCT SPECIFICATIONS – PIPEFAB

Description	Product Number	Input Voltage / Phase / Hertz	Output Range	Rated Output Current / Voltage/ Duty Cycle	Input Current @ Rated Output	H x W x D (mm)	Net Weight (kg)
PIPEFAB™ Power Source	K3732-1	200-208/220-230/380-415/460/575	5-400A	STICK: 400A / 36V @ 100%	53/46/26/24/19	553 x 437 x 870	92
PIPEFAB™ Feeder	K3735-1			MIG: 400A / 34V @ 100%			

Fine-Tuned Performance for Pipe and Vessel

STT® – Better Than Ever.

Our patented STT® (Surface Tension Transfer®) process was the original open-root MIG (modified short-circuit) solution to hit the market. After decades of leading the industry, we've taken the performance of this iconic process to the next level – making it better than ever.

- Breakthrough travel speeds.
- Industry-leading arc stability.
- No sense lead.

Smart Pulse™ – Pulse Tailored For Pipe

Smart Pulse™ delivers an innovative solution for pulse welding simplicity and performance. Utilizing Waveform Control Technology®, Smart Pulse™ monitors your machine settings and automatically tailors the pulse to deliver the ideal arc for your pipe welding needs.

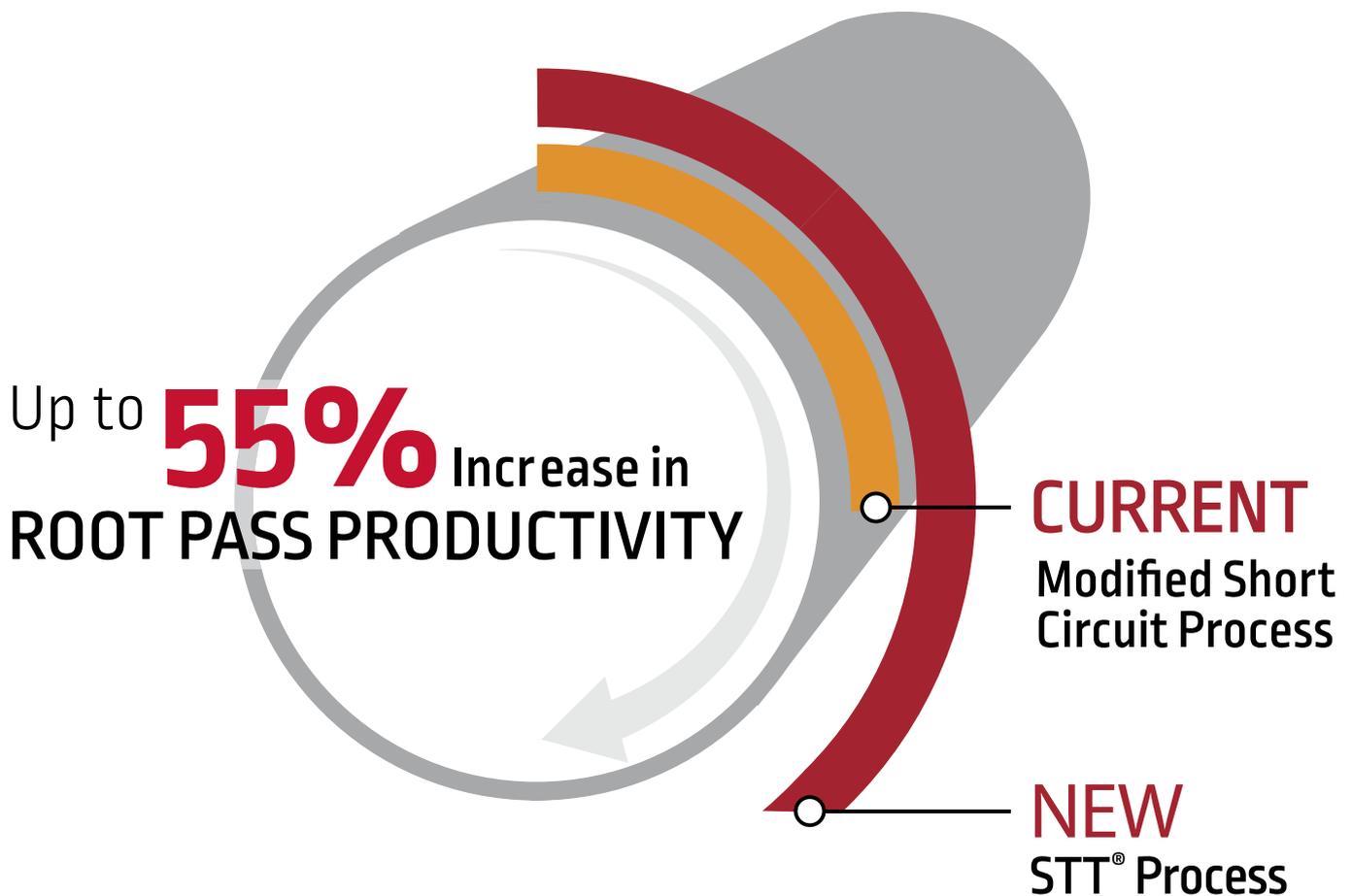
- Set a low WFS for out-of-position pipe welding – Smart Pulse™ auto-adjusts for a narrow, focused arc.
- Set a high WFS for 1G pipe welding – Smart Pulse™ auto-adjusts for a wide, soft arc.
- Less time adjusting means more time welding.

Processes Optimised For Your Needs

The PIPEFAB™ system comes fully loaded with weld modes optimised specifically for pipe and vessel fabrication. All processes – Stick, MIG, TIG and FCAW – have been fine-tuned for maximum performance with the industry's common, filler metal, wire diameters and gas mixtures.

- Stick modes optimised for cellulosic and low hydrogen electrodes
- MIG modes optimised for 0.9mm and 1.2mm steel, stainless steel and metal-cored
- MIG modes optimised for simplicity (Smart Pulse™) and fume management (Low Fume Pulse™)
- Flux-cored modes optimised for 1.2mm and 1.6mm.

*Results based on root pass comparison with 0.9mm wire and Argon shielding gas mix.



The Next Generation of Simplicity and Control

Display Designed with Purpose

The PIPEFAB™ system's display was designed, evaluated, and tested to deliver one thing - machine interaction that is as simple as possible.

Weld More, Worry Less

The PIPEFAB™ system helps maximize arc time and allow operators of all skill levels to focus more on making great welds.

- One-button process changes.
- Straightforward, easy-to-understand navigation.
- Memory buttons for preferred settings.
- ArcFX® Technology for visual arc settings feedback.
- Single point of use – all controls in one location on the feeder.

Intelligence Built In

All PIPEFAB™ systems come ready to connect to powerful, yet simple-to-use software for configuration, updates and weld data monitoring.

- Remote diagnostics and configuration.
- Free and easy software updates – never worry about swapping or storing memory cards.
- CheckPoint® Production Monitoring.
- Industry 4.0



INDUSTRY 4.0



PIPEFAB™ system navigation home screen



PIPEFAB™ system process configuration



Key Controls

1. PIPEFAB Feeder – Dual-Head Feeder
2. User Interface / Controls
3. Power Source ON/OFF and Connection Status
4. TIG Remote, 12-Pin Connection and Sense Lead Connection (if required)
5. Dedicated TIG Torch Connection (Twist Mate™)
6. Work Lead Connection
7. Stick Connection
8. Cable / Torch Hanger
9. Heavy-Duty Wire Reel Stand
10. Tilting Bottle Rack
11. Optional Water Cooler (K3737-1)

Key Controls (User Interface)

12. Large, Easy-to-Read Text
13. Wire Feed Speed
14. 7 in. IP67 High-Resolution Display
15. One-Click Process Selection
16. Navigation / Select
17. Gun Trigger Connection
18. USB Port
19. Volts/Trim
20. Memory Selection
21. Feed Head Toggle

Industry-Driven Design for Industry Demands

Always Ready-To-Run™

The PIPEFAB™ system's Ready-to-Run™ design keeps all process outputs electrically isolated and ready to weld when needed – meaning you'll never have to swap cables to change processes again.



Flexibility to Tackle any Challenge

Dedicated process outputs and remote pendant connections give the PIPEFAB™ system a wide range of application flexibility. Embedded PowerConnect® Technology allows for input power flexibility from 200V-600V.

- PowerConnect® Technology – 200v-600v input, just power it up and weld.
- Reliable and consistent arc performance no matter what input voltage is used.

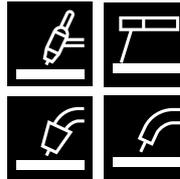
Input Voltage

200V



600V

Processes



Capabilities



Mechanised Remote / Pendant

Attention to Detail

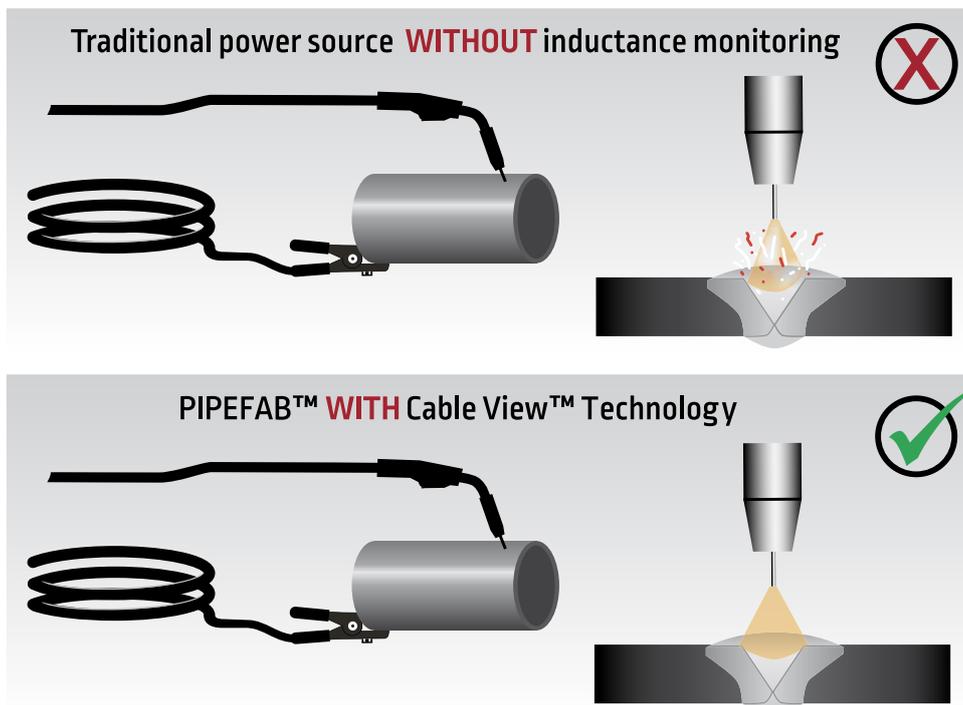
From packaging to gun organization, The PIPEFAB™ system's Ready-to-Run™ design was developed with complete focus on the operator and the shop floor environment for ultimate simplicity.

- Cable hooks for organized gun and cable management.
- Tilting gas bottle tray.
- Quick access side panels.

Cable View™ Technology

Powered by patented Cable View™ Technology, the PIPEFAB™ system continually monitors cable inductance and adjusts the waveform to maintain consistent arc performance with long or coiled cable runs up to 20m (or inductance levels up to 45 µH).

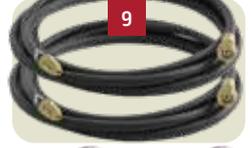
- Consistent arc performance with no sense lead, even in long or coiled cable runs.
- Warning notification if inductance is outside of performance threshold.



PIPEFAB™ Ready to Weld Package

K3732-1P Includes:

1. PIPEFAB™ Power Source (K3732-1)
2. PIPEFAB™ Dual Feeder (K3735-1)
3. Undercarriage (K3736-1)
4. Magnum 200 Gun (K497-21)
5. Magnum 400 Gun (K471-21)
6. Work Return Lead (5m) (GRD-300A-50-5M)
7. Drive Roll (1.2mm Solid) (KP1505-045S)
8. Drive Roll (1.2mm FCAW) (KP1505-045C)
9. Terminal to Twistmate Adaptor (K10376)
10. Gas Supply Hose (3m x 2) (AS4150-18)
11. Flowmeter (x 2) (LE250-RG002)



2 PIPEFAB™ Dual Feeder

1 PIPEFAB™ Power Source

2 Undercarriage



Trusted Industry Support

Industry Pioneers Who Know Pipe

High-quality products and great customer service are important aspects of the Lincoln Electric story, but it's our unmatched welding expertise, from the pipeshop to the field, that truly sets us apart. If there's a better way for you to weld, we'll help you find it.

Global Support

With a worldwide network of distributor and sales offices reaching over 160 countries, and 36 global technical application facilities, Lincoln Electric can provide trusted global support you can count on.

Pipe Diameter Inches per Day

Lincoln Electric knows it's all about maximizing the amount of pipe diameter inches you can weld per day, per welder. That's why we are here as a trusted partner, working together to help take your welding productivity and quality to the next level.

CUSTOMER ASSISTANCE POLICY

Lincoln Electric® business 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 advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric® is not in a position to warrant or guarantee such advice and to the extent permitted by law assumes no liability, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given. The provision of information or advice does not create, expand or alter this warranty. 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 this type of fabrication methods and service requirements. Subject to Change – This information is accurate to the best of our knowledge at the time of printing.

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