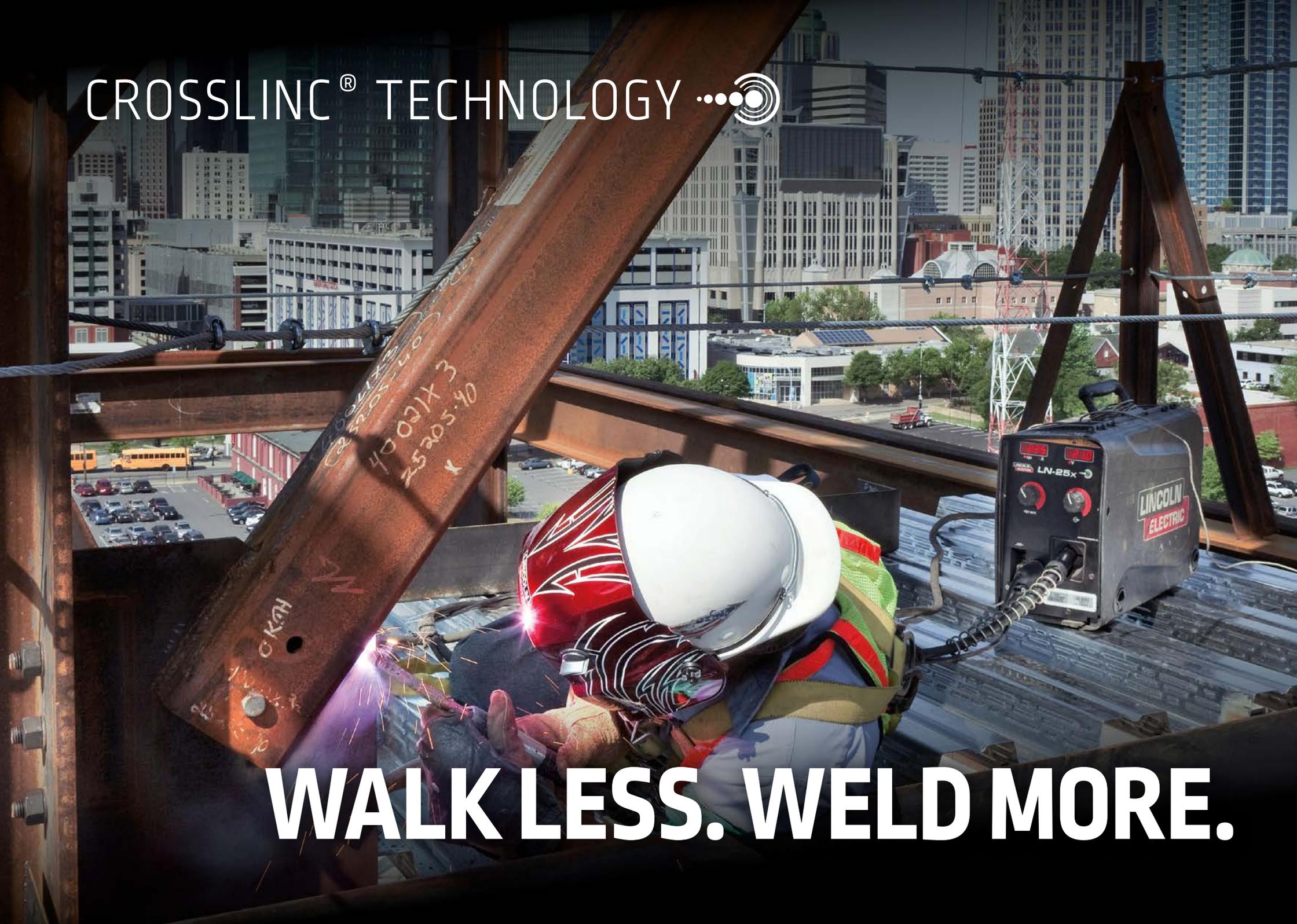


CROSSLINC<sup>®</sup> TECHNOLOGY ...



**WALK LESS. WELD MORE.**

## SOLVING SITE WELDING ISSUES



# CrossLinc<sup>®</sup> Technology

**Worker safety, weld quality, and productivity come to mind when welding on site or on large structures.**

In these environments, it is typical for the operator to work closely with a rugged, compact and lightweight wire feeder, connected to a weather-resistant power source hundreds of feet away.

Until now, portable wire feeders have been available in two configurations: basic ‘across-the-arc’ models or portable feeders equipped with an added control cable.

‘**Across-the-arc**’ models are powered by the weld cable. This configuration provides the benefit of fewer cables running back to the power source, but voltage control at the point of use is not possible.

The addition of a **control cable** to the system allows the operator to adjust voltage at the point of use, but these cables can be costly and add additional complexity to the production environment.

There has to be a better way.

# Reduce Your Welding Costs

## Do the Math

Eliminate interruptions and save money. With output controls at the arc, you could save 500 man-hours per year, or 9555€. When you invest in Crosslinc, you'll make your money back in under 8 months.

$$\begin{aligned} & \begin{matrix} \text{1 POWER SOURCE} \\ \text{2 SHIFTS} \end{matrix} \times \begin{matrix} \text{19.11 €} \\ \text{/HR} \end{matrix} \times \begin{matrix} \text{4} \\ \text{WELD SETTING CHANGES} \\ \text{PER SHIFT} \end{matrix} \\ & \times \begin{matrix} \text{5 DAYS} \\ \text{/HR} \\ \text{50 WEEKS} \\ \text{/YR} \end{matrix} \times \begin{matrix} \text{15} \\ \text{MINUTES} \\ \text{PER CHANGE} \end{matrix} \\ & = \begin{matrix} \text{9555 €} \\ \text{SAVED} \\ \text{/YEAR} \end{matrix} \quad \text{BY ELIMINATING EXTRA STEPS} \\ & \quad \text{8 MONTHS} \\ & \quad \text{PAYBACK IN UNDER} \end{aligned}$$

## Output Control at the Arc

### No Additional Cable

CrossLinc feeders enable voltage control at the feeder without the extra cable. The result is greater productivity, safety, and quality. Avoid the negative aspects of across the arc models and adding a control cable, while enjoying all the benefits.



#### PRODUCTIVITY

Work faster, reduce movement, and minimize rework



#### SAFETY

Reduce the chance for injury by reducing the number of cables underfoot.



#### QUALITY

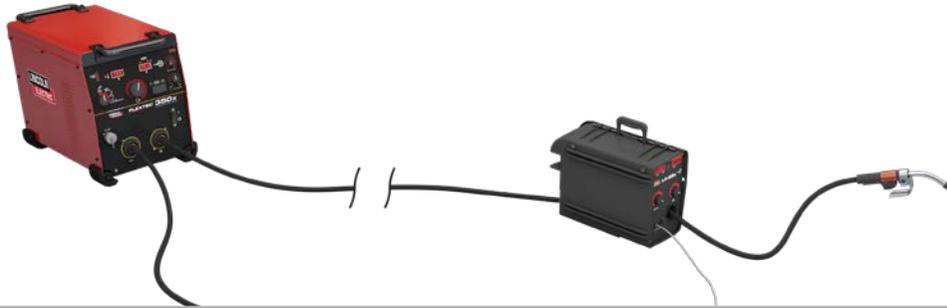
Meet WPS specifications more easily with greater operator control

# CrossLinc<sup>®</sup> Technology

CrossLinc technology feeders enable voltage control at the feeder, while eliminating the extra cable. The result is greater safety, quality, and productivity on the work site.

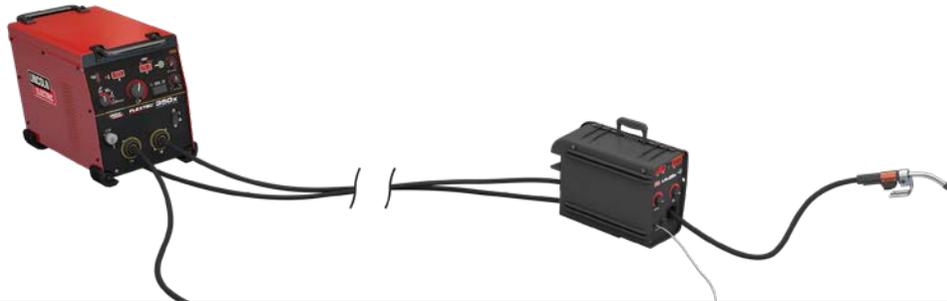
## COMPARE SOLUTIONS

### ACROSS-THE-ARC



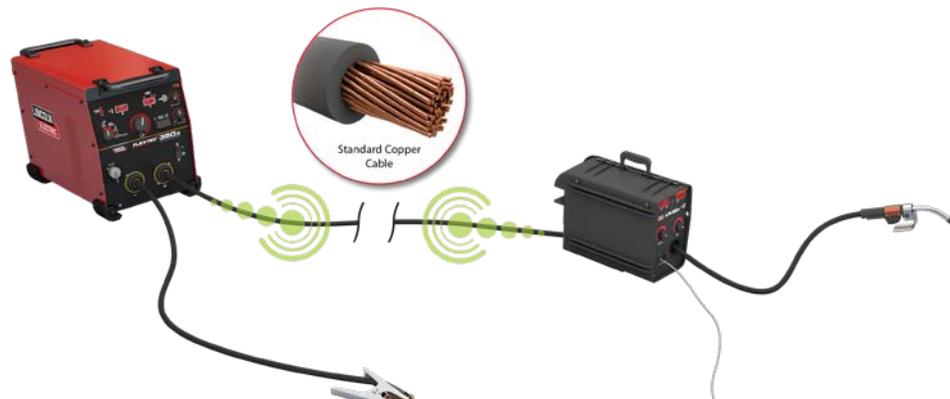
Pros	Cons
<ul style="list-style-type: none"> <li>• Fewer cables</li> <li>• Low cost</li> <li>• Less jobsite cable clutter</li> </ul>	<ul style="list-style-type: none"> <li>• No voltage control at feeder</li> <li>• Difficult to adjust procedures</li> </ul>

### CONTROL CABLE



Pros	Cons
<ul style="list-style-type: none"> <li>• Voltage control at feeder</li> <li>• Correct procedures for every weld</li> <li>• Easier to adjust for voltage drop</li> </ul>	<ul style="list-style-type: none"> <li>• More cables</li> <li>• More jobsite clutter</li> <li>• Greater expense</li> <li>• More difficult movement</li> </ul>

### CROSSLINC TECHNOLOGY



Pros	Cons
<ul style="list-style-type: none"> <li>• Voltage control at feeder</li> <li>• Fewer cables</li> <li>• Less jobsite clutter</li> <li>• Correct procedures for every weld</li> <li>• Easy adjustment for voltage drop</li> <li>• Increased arc time</li> </ul>	

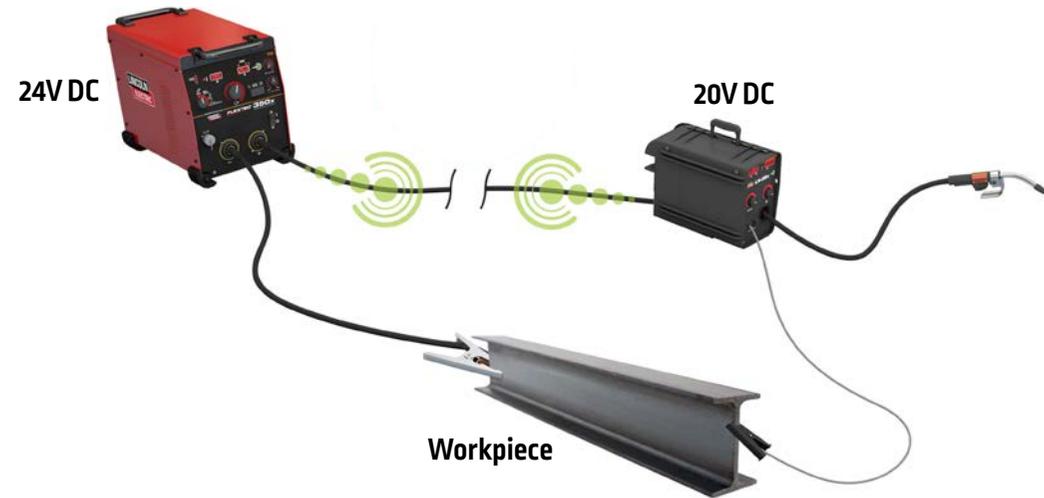
# True Voltage Technology™ (TVT™)

Get What You Set

## COMPARE SOLUTIONS

### WITHOUT TVT

As is common in many outdoor welding applications: (Structural steel, Shipbuilding, Offshore, etc.) the operator can be located hundreds of feet away from the power source. All that cable can create a difference in voltage, or voltage drop, between the power source and the weld. In the example below, 24volts is set on the welding power source. Due to electrical resistance through long cables, only 20volts are actually available at the arc. This would result in a cold weld.



### WITH TVT

True Voltage Technology (TVT) calculates this drop and gives you the true voltage you set by adjusting the power source to compensate for the voltage drop. In the example below, 24v is preset at the LN-25X. TVT senses there is a 4 volt drop due to long weld cables and compensates by increasing the welder output to 28V. The result is the desired 24v available at the welding arc.





# CrossLinc® Technology Enabled Equipment

CrossLinc technology compatible feeders and power sources carry an X in their name, i.e. LN-25X™, Flextec® 350X. When paired together, CrossLinc® communication will be established. Look for the X to identify CrossLinc® technology enabled equipment across the Lincoln Electric product line.

Look for the **X**



**FLEXTEC 350X**  
Construction  
[K4283-1]



**FLEXTEC 350X**  
Standard  
[K4284-1]



**FLEXTEC 500X**  
[K3607-2]



**FLEXTEC 650X**  
[K3533-1]



**LN-25X**  
[K4267-4]



**Activ8X™**  
[K3519-2]

## Processes

SMAW (Stick)  
GTAW (DC TIG)  
GMAW (MIG)  
FCAW (Flux-Cored)

## Applications

General Fabrication  
Maintenance and Repair  
Autobody/Farm  
Light Industrial  
General

#### **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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