

# CROSSLINC<sup>®</sup> TECHNOLOGY

FULL CONTROL. FEWER CABLES.







# CrossLinc Technology Solving Site Welding Issues

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.



## Creating the Ideal Work Environment

### Safety

Reduce the chance for injury by reducing the number of cables underfoot as well as unnecessary movement and lifting.

- » Reduce jobsite clutter by removing cumbersome control cables.
- » Eliminate unnecessary movement of personnel across the jobsite.
- » No need to drag heavy control cables around the site

### Quality

Greater operator control makes it easy to meet WPS specifications.

- » Full output control at the arc results in the correct settings for every weld.
- » Accurately compensate for voltage drop across long cable runs.
- » Eliminate unintentional machine adjustments by helpers or other operators

### Productivity

Work faster, reduce movement and minimize rework.

- » Setup faster with fewer cable connections.
- » Eliminate helpers or trips to the power source to make procedure adjustments.
- » Minimize rework with easy settings adjustments..

#### Processes »

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

#### Applications »

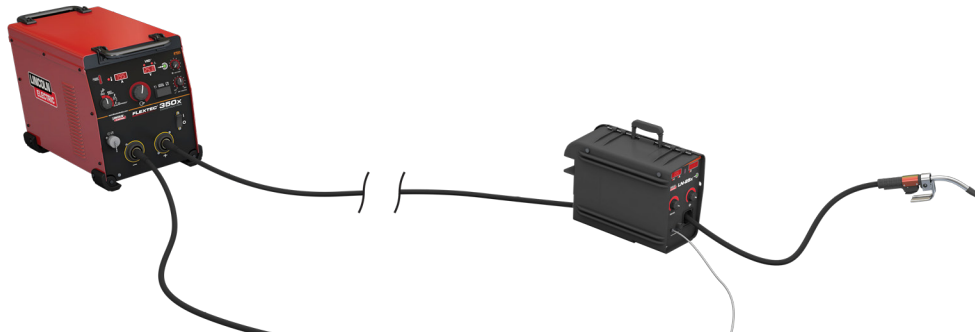
General Fabrication, Maintenance  
and Repair, Autobody/Farm,  
Light Industrial, General

# CrossLinc 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.

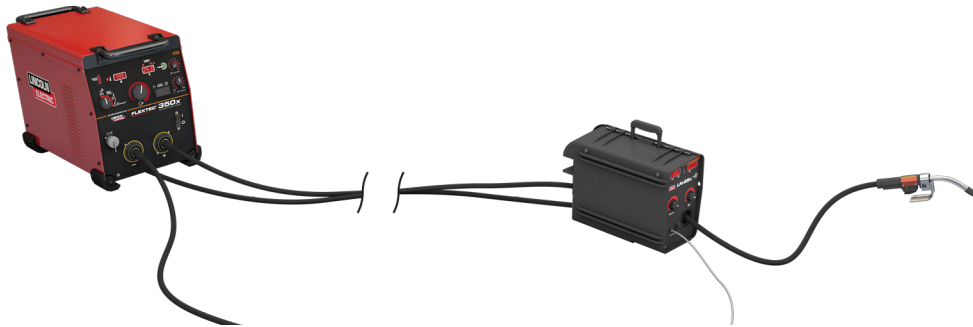
## Compare Solutions

ACROSS-THE-ARC



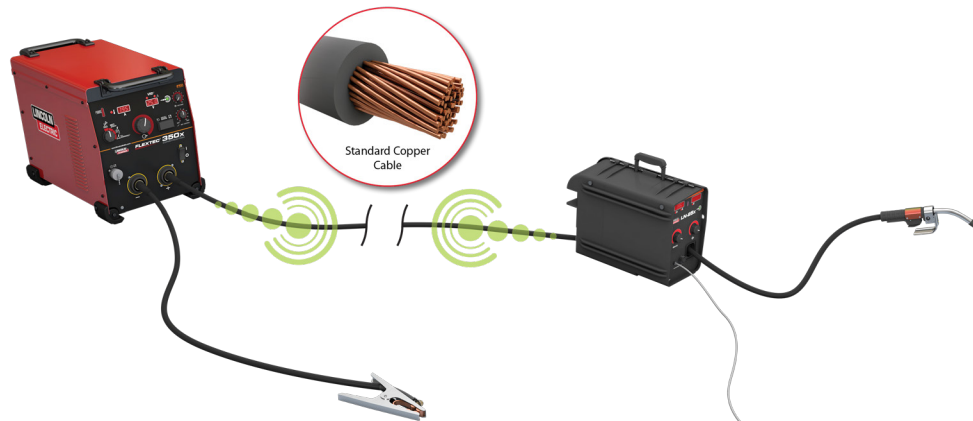
Pros	Cons
<ul style="list-style-type: none"> <li>» Fewer cables</li> <li>» Low cost</li> <li>» Less jobsite cable clutter</li> </ul>	<ul style="list-style-type: none"> <li>» No voltage control at feeder</li> <li>» Difficult to adjust procedures</li> </ul>

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>	

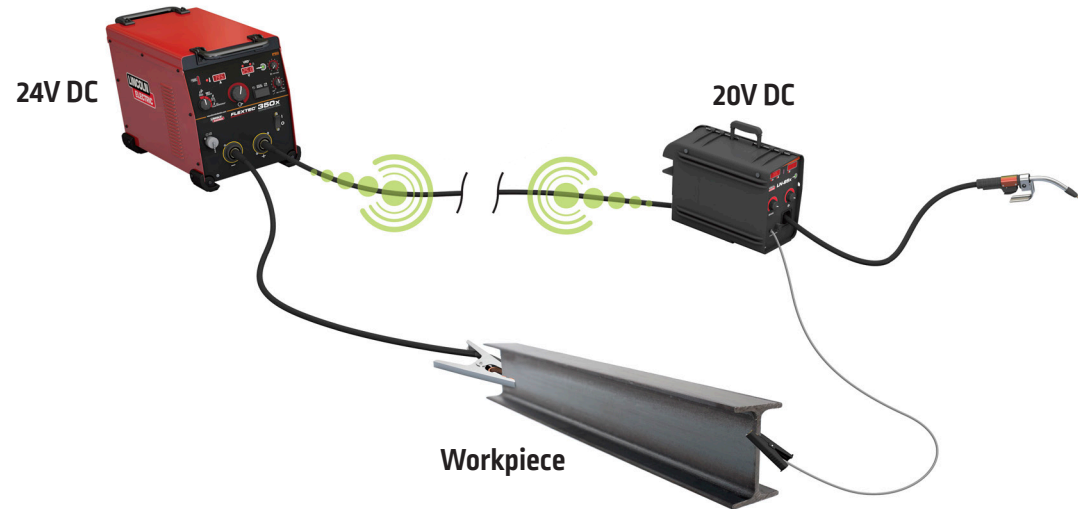
# True Voltage Technology™ (TVT™)

Get What You Set

## Compare Solutions

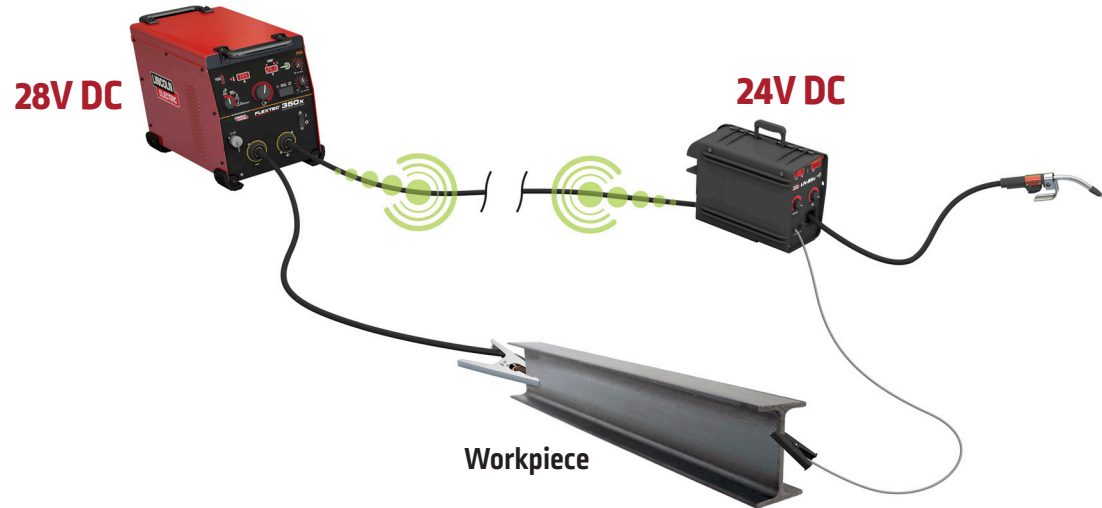
WITHOUT TVT

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



FLEXTEC 350X  
Standard



FLEXTEC 500X



FLEXTEC 650X



FLEXTEC 350X Construction  
4-Pack Rack



FLEXTEC 650X  
4-Pack Rack



CrossLinc Remote



LN-25X



Activ8X™



Ranger® 330MPX™

#### 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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