CROSSLINC TECHNOLOGY
FULL CONTROL. FEWER CABLES.
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

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**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**
  - Fewer cables
  - Low cost
  - Less jobsite cable clutter
- **Cons**
  - No voltage control at feeder
  - Difficult to adjust procedures

#### CONTROL CABLE

- **Pros**
  - Voltage control at feeder
  - Correct procedures for every weld
  - Easier to adjust for voltage drop
- **Cons**
  - More cables
  - More jobsite clutter
  - Greater expense
  - More difficult movement

#### CROSS-LINC TECHNOLOGY

- **Pros**
  - Voltage control at feeder
  - Fewer cables
  - Less jobsite clutter
  - Correct procedures for every weld
  - Easy adjustment for voltage drop
  - Increased arc time
- **Cons**
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.

**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 customer’s 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 and service requirements.

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