FLEXTEC® 350X

Simple. Reliable. Flexible.

Construction Model

Standard Model

Whether in a shop or in the field, the Flextec 350X welder is built to perform.

Equipped with CrossLinc technology, the Flextec 350X welder can be controlled from hundreds of feet away without expensive and inconvenient control cables. Desert Duty® and IP23 rated, it can withstand harsh outdoor conditions and outperform other welders in its class.

In the field the Flextec 350X Construction is a welder's most effective weapon. As a rugged multi-process power source, this model stays reliable and offers much more than other inverter-based welders in its class.

In the shop the Flextec 350X Standard model is built to work with all 42V feeders for your factory applications. It is also compatible with Arclink® digital feeders to provide synergic modes and memories for quick setup and worry free welding.

Processes
SMAW, GTAW, GMAW, FCAW, Arc Gouging

Applications
Fabrication, Construction, Pipeline, Process Pipe

Input
3 PHASE | 50/60 Hz

Output
CC CV | DC |

Product Number
K4283-1 Flextec 350X Construction
K4284-1 Flextec 350X Standard

THE LINCOLN ELECTRIC GREEN INITIATIVE
Inverter Technology reduces energy demand
www.lincolnelectric.com/green

LINCOLN ELECTRIC®

Features

SIMPLE

- Simple interface for ease of use
- CrossLinc technology automatically pairs the accessory with the power source and provides remote output control at the arc without additional remotes or cables[1]

RELIABLE

- Lab tested, field proven ruggedness and durability
- Engineered for outdoor use and harsh environments
- IP23 rated for use in outdoor weather conditions
- Desert Duty rated for operation at temperatures up to 55º C (131º F)
- Trayed and potted PC boards to withstand welding dust and humidity

FLEXIBLE

- Multi-process power source for all your welding needs
- Optimized stick welding for both cellulosic and low hydrogen electrodes
- Compatible with all across-the-arc and CrossLinc enabled 42V wire feeders for GMAW and FCAW welding
- ArcLink enabled to provide synergic modes
- Touch-Start TIG® for easy, contamination-free

[1] Requires CrossLinc technology enabled wire feeder or CrossLinc remote.

SIMPLE

Flextecs are meant to be easy to use in order to increase productivity and decrease downtime. With a user-friendly control setup, settings can be configured with ease.

Dedicated Hot Start
Adjustable to help reduce sticking when stick welding

Simple Mode Switch
Choose your weld process:
GTAW (TIG)
SMAW (Stick)
CV – gas shielded (MIG)
CV-Innershield® (self-shielded)
ArcLink for access to synergic modes (when using an ArcLink wire feeder)
Carbon Arc Gouge in Stick or MIG modes

Large Output Control
Located front and center

Remote Control Connection
Plug in for remotes

Welding Terminals
Clearly labeled, quick connections

Local/Remote rocker switch
Choose to have control locally on the machine or remotely when using a wire feeder or remote control

Dedicated Arc Control
Less Arc Control (less pinch) in short arc wire processes to decrease spatter
More arc control in Stick welding reduces chance of sticking during welding

RELIABLE

Flextecs are built to withstand harsh conditions so that they last to help get the job done. Operating in challenging environments, these machines are durable and protected from the elements.

Tough alloy handles for lifting and impact protection

Lightweight aluminum powder painted case for rust protection

Rubber feet for impact protection

Solid control knobs and rocker switches resistant to damage from spatter and hot welding wires

Automotive grade Molex® connectors, heavy gauge wire, locking tabs for secure connection, rubber boots to keep contaminants out.

Fan-As-Needed (F.A.N.)

Trayed and potted PC boards for physical and environmental protection

FLEXIBLE

Flextecs are meant to be just that, flexible. With a variety of process and feeder compatibility, the Flextec product line is made up of the most versatile welders on the market.

Any Process

GTAW, SMAW, GMAW, FCAW-S, FCAW-G, CAC
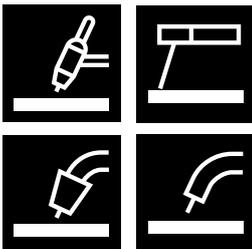
CrossLinc w/True Voltage Technology (TVT) – Improve all aspects of your operation with CrossLinc Technology and TVT.

Safety
· 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
· Full output control at the arc results in the correct settings for every weld.
· True Voltage Technology (TVT) accurately compensates for voltage drop across long cable runs.
· Eliminate unintentional machine adjustments by helpers or other operators.

Productivity
· Setup faster with fewer cable connections.
· Eliminate trips to the power source to make procedure adjustments.
· Minimize rework with easy settings adjustments.

CrossLinc allows for amperage and voltage control at the welding arc to improve control of your operation.

No need for an additional control cable – communication occurs directly over the weld cables:

1. Set the desired voltage on the CrossLinc wire feeder
2. The feeder sends a signal to the CrossLinc power source
3. The power source will change to the desired voltage
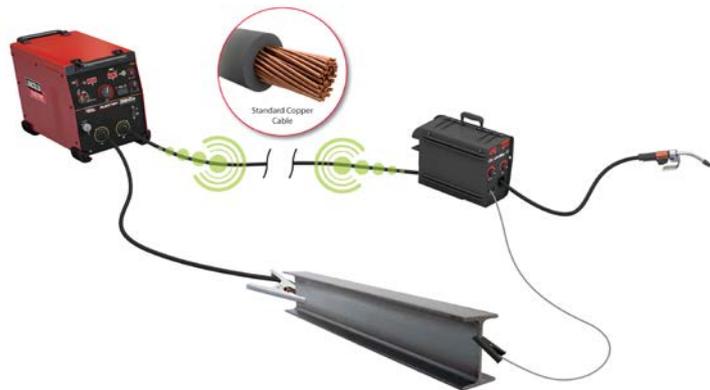
CrossLinc also features True Voltage Technology to compensate for voltage drop across the welding circuit.

TVT will measure the voltage drop and adjust the power source to compensate for the difference between the desired voltage and actual voltage at the weld.

1. Preset the wire feeder to the desired voltage.
2. Make a test weld.
3. The system will measure voltage drop and automatically adjust the power source to compensate.
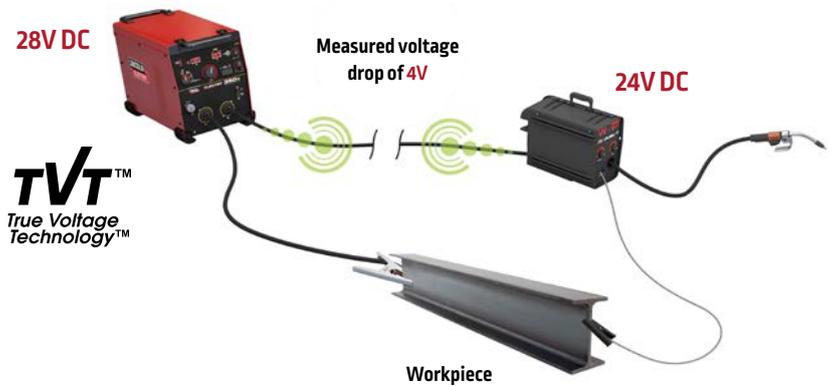
FLEXTEC 350X
Construction Controls

1. Amperage Display
2. Thermal LED
3. Output Control Dial
4. Weld Process Selector Switch
5. Remote Output Control
   (12-pin Universal Connector)
6. Positive and Negative Welding Output
   Studs (Tweco*-style)
7. Voltage Display
8. VRD™ (Voltage Reduction Device)
   Indicator Lights
9. **CrossLinc™ Indicator Light**
10. Hot Start Control Dial
11. Arc Force Control Dial
12. Local/Remote Selector Toggle Switch
13. Power Switch

FLEXTEC 350X
Standard Controls

1. Amperage Display
2. Thermal LED
3. Output Control Dial
4. Weld Process Selector Switch
5. Remote Output Control
   (12-pin Universal Connector)
6. **5-pin ArcLink® Wire Feeder Connector**
7. **14-pin Wire Feeder Connector**
8. Positive and Negative Welding Output
   Studs (Tweco-style)
9. Voltage Display
10. VRD (Voltage Reduction Device)
    Indicator Lights
11. **CrossLinc™ Indicator Light**
12. Hot Start Control Dial
13. Arc Force Control Dial
14. Local/Remote Selector Toggle Switch
15. Weld Terminals On/Remote Selector
    Switch
16. Power Switch
17. Wire Feeder Voltmeter Polarity
    Selection Switch

Weld Power Cable
Twist Mate to Twist Mate
K14166-1 (70MM2-10M)
K14166-2 (70MM2-15M)
K14166-3 (70MM2-5M)
K14166-4 (70MM2-30M)
K14167-1 (95MM2-30M)
K14167-2 (95MM2-5M)
K14167-3 (95MM2-10M)
K14167-4 (95MM2-15M)

GRD-400A-70-xM*
Ground cable 400A 70 mm²; x=5/10/15 m

E/H-400A-70-xM*
Electrode holder 400A/70mm²; x=5/10m

K2909-1
12-pin to 6-pin Adapter

K857-2
12-pin Remote Output Control

K3059-4
Inverter and Wire Feeder Cart

K4424-1
Flextec 350x Locking Foot Kit

K4068-1
Inverter Cart Mounting Kit
(required to secure Power Feed®
and Flex Feed™ feeders on the cart)

K10095-1-15M
Remote control (6PIN, 15m)

K10398
Extension cable for remote control box K10095-1-15M

K3091-1
Multi-Process Switch
Easily change welding process and polarity without changing
cables at the machine

FLEXTEC 350X - MODEL SELECTION

Machine	Flextec 350X Standard	Flextec 350X Construction
Input Power	380-600/3/50/60	380-600/3/50/60
3-phase	•	•
CrossLinc compatible feeders	•	•
14-pin Analog, 42V feeders	•	
5-Pin Digital, 42V feeders	•	
GTAW Touch Start TIG	•	•
SMAW (Stick)	•	•
GMAW (MIG)	•	•
FCAW (Flux cored)	•	•
FCAW-G (Gas shielded Flux-cored)	•	•
Gouging (Recommended)	1/4"	1/4"

MACHINE SPECIFICATIONS

Product Number	Product Name	Input Power	Rated Output Current/Voltage/ Duty Cycle	Input Current @Rated Output	Output Range	Dimensions HxWxL (mm)	Weight (kg)
K4283-1	Flextec 350X Construction	380/460/575/3/50/60 3-Phase	350A/34V/60%	24/22/22	5-425A Max OCV 80V DC	421 x 338 x 582	41,7
K4284-1	Flextec 350X Standard		300A/32V/100%	20/19/18			43,9

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