FLEXTEC® 350X

SIMPLE, RELIABLE, FLEXIBLE,



Construction Model XP Model PowerConnect® Model

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

Equipped with CrossLinc® technology, the Flextec 350X and 350XP 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 350XP 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, memories, and basic pulsed MIG for seamless connectivity and improved weld performance.

The Flextec 350X PowerConnect model adds the ability to weld with any input voltage between 200 and 600 volts.







Processes »

SMAW, GTAW, GMAW, GMAW-P*, FCAW, CAC-A (gouging), STT Field***

Applications »

Fabrication, Construction, Shipbuilding, Structural, Pipe

Output »







Input »







Product Number »

K4271-2 Flextec 350X Construction K4272-2 Flextec 350XP K4273-1 Flextec 350X Power Connect

K4283-1 Flextec 350X Construction

CE model

K4284-1 Flextec 350XP CE model

*Pulse only available on Flextec 350XP and Flextec 350X PowerConnect model and Arclink capable feeder.

** Single phase input is only available in the PowerConnect model.

***STT Field available on the Flextec 350X PowerConnect model when paired with the Activ8X Pipe wire feeder.



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]
- · PowerConnect technology automatically adjusts to the input voltage without the need for a manual reconnect^[2]

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 55° C (131° F)
- · Trayed and potted PC boards to help withstand welding dust and humidity

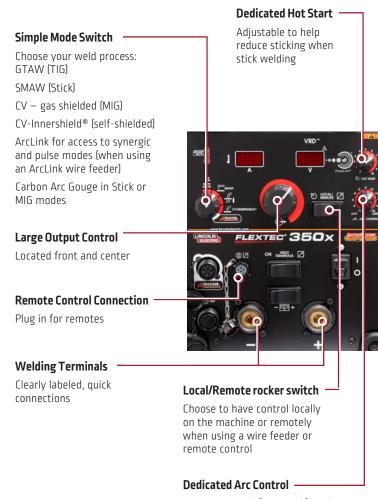
FLEXIBLE

- · Multi-process power source for all your welding needs
- · Optimized stick welding for both cellulosic and low hydrogen electrodes
- · Compatible with CrossLinc, 42V analog, and digital feeders for GMAW and FCAW
- · ArcLink enabled to provide synergic pulse modes for reduced spatter, lower heat input, increased productivity, and improved quality [3]
- · Touch-Start TIG® for reducing contamination during starts without high frequency

^[1] When paired with a 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.



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

^[2] Available in the K4273-1 PowerConnect model.

^[3] Available on the Flextec 350XP and Flextec 350X PowerConnect model when paired with an ArcLink enabled feeder to access pulse modes.

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.

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 connections, rubber boots to help keep contaminants out

Trayed and potted PC boards for physical and environmental protection



Tough alloy handlesfor lifting and impact
protection

Lightweight aluminum powder painted case for rust protection

Shock Absorbing Rubber Feet for impact protection



Smart fans run at variable speeds to keep components cool

FLEXIBLE

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

Any Process

GTAW, SMAW, GMAW, GMAW-P,**
FCAW-S, FCAW-G, CAC, STT Field*











**Pulse available on Flextec 350XP and PowerConnect models when paired with an Arclink capable feeder.

Any Input Voltage

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220V

230V

380V

400V

415V

440V

460V 480V

575V

600V

200V POWERCONNECT

The Flextec 350X
PowerConnect
model automatically
connects to any input
power from 200-600
volts single or three
phase. This allows the
machine to be used
anywhere in the world
and to compensate for
large fluctuations in
incoming voltage.





CrossLinc with True Voltage Technology (TVT) - Improve all aspects of your operation with CrossLinc and TVT.



- 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 jobsite



Ouality

- Full output control at the arc allows the welder to input 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 helpers or trips to the power source to make procedure adjustments
- Minimize rework with easy settings adjustments

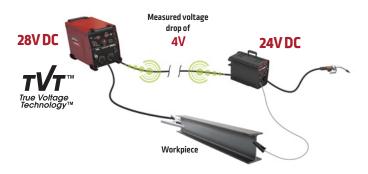
CrossLinc allows for amperage and voltage control at the welding arc to improve control of your operation.

- 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





PULSE 1. Pulse Ramp 2. Tailout 3. Background 4. Transition Current

Pulsed spray is a non-contact transfer method between the electrode and the weld puddle. This means that at no time does the electrode ever touch the puddle. This is accomplished through high-speed manipulation of the electrical output of the welding machine. It is designed to be a spatterless process that will run at a lower heat input than spray or globular transfer methods.

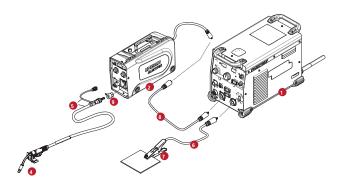
Advantages provided by pulsing machines include:

- Spatter and fume reduction
- Heat reduction
- Improved productivity
- Better control

KEY SYSTEM CONFIGURATIONS

Field Setup

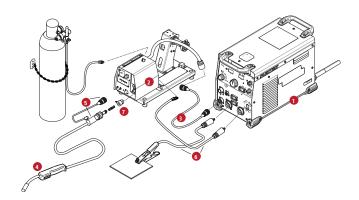
The Flextec 350X Construction was built to excel on site. When paired with a CrossLinc enabled accessory you can control the output right at the arc, without the need for extra cables.



	ITEM	DESC.	K#
0	Machine	Flextec 350XP or 350X Construction (8ft. power cord included)	K4272-2/K4271-2
2	Feeder	LN-25X	K4267-2
3	Control Cable	None	#N/A
4	Gun	K126 Pro, 15 ft, full assembly	K126-12
6	Gun Connector Kit	Tweco® #2 - #4 Gun back end for Magnum® PRO Guns	K466-10 (Included with Gun)
6	Work Cable	Tweco-Style male plug and 0.53 in. lug, 2/0, 350A, 60% duty cycle, 50 ft. (15.2 m)	K2484-2
7	Work Clamp	GC 500 Work Clamp	k910-2
8	Weld power Cable	Tweco-Style male plug and female receptacle, 2/0, 350A 60% duty cycle, 50 ft. (15.2 m)	K2485-2
9	Feeder Bushing	10-Series Tweco #2 - #4	K1500-2 (Included with Feeder)

Factory Setup

The flexible, multi-process Flextec 350XP is ready to satisfy all your fabrication needs.



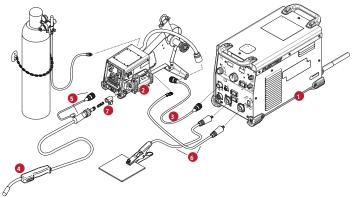
	ITEM	DESC.	K#
0	Machine	Flextec 350XP (8ft. power cord included)	K4272-2
2	Feeder	LF-72 (HD No Gun)	K2327-7
3	Control Cable	14-pin Male to 14- Pin Female Extension	K1797-xx (10ft. cable included with feeder)
4	Gun	Magnum PRO Curve 350 HDE, 15 ft Ready-pak®, Tweco #4	K4532-2-10-45
5	Gun Connector Kit	Tweco #2 - #4 Gun back end for Magnum PRO Guns	K466-10 (Included with Gun)
6	Work & Power	Tweco to Lug w/Ground Clamp, 2/0, 15 ft work and 10 ft power 350A@60%.	K1803-2
7	Feeder Bushing	10-Series Tweco #2 - #4	K1500-2 (Included with Feeder)

Pulse Setup

To unlock the full potential of the Flextec 350XP and the Flextec 350X PowerConnect welders, connect an ArcLink technology capable feeder. This will give you access to multiple synergic pulse modes. Synergic pulse modes give you all the benefits of pulsed MIG welding without any of the hassle.

Synergic Pulse Modes Flextec 350XP and Flextec 350X (PowerConnect Models)

	Wire Size							
Wire Size	Steel	Stainless	Metalcore	Aluminum				
0.035	•	•		•				
0.040	•							
0.045	•	•	•					
3/64				•				
0.052	•		•					
1/16			•	•				



	ITEM	DESC.	K#
0	Machine	Flextec 350XP or 350X PowerConnect (8ft. power cord included)	K4272-2/K4273-1
2	Feeder	PF-84 Single Bench HD	K3328-13
3	Control Cable	5-pin ArcLink Male to 5-pin ArcLink Female. Standard Duty	K1543-xx (8 ft. cable included with feeder)
4	Gun	Magnum PRO Curve 350 HDE, 15 ft Ready-Pak, Tweco #4	K4532-2-10-45
5	Gun Connector Kit	Tweco #2 - #4 Gun back end for Magnum PRO Guns	K466-10 (Included with Gun)
6	Work & Power Cables	Tweco to Lug w/Ground Clamp, 2/0, 15 ft work and 10 ft power 350A@60%.	K1803-2
7	Feeder Bushing	PF84 Series Tweco #2 - #4	K3345-1 (Included with Feeder)

FLEXTEC 350X Construction Controls »

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

FLEXTEC 350X XP/PowerConnect 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 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











FLEXTEC MODEL SELECTION

	-		
	Flextec 350X Contruction	Flextec 350XP	FLextec 350X PowerConnect
Input Power	380-575/3/50/60	380-575/3/50/60	200-600/1/3/50/60
CrossLinc Compatible	•	•	•
Multi-Process	•	•	•
12-Pin Analog Feeder Compatible	•	•	•
14-Pin Analog Feeder Compatible		•	•
Arclink Feeder (5-Pin) Compatible		•	•
Pulse Capable (w/Arclink Feeder)		•	•
PowerConnect (200-600VAC) 1/3-phase			•

PACKAGES

WHAT'S INCLUDED

		Product Number	Power Source Model						
	Description		Flextec 350X PowerConnect Tweco (K4273-1)				Flextec 350XP Tweco (K4272-2)		Flextec 350X Construction Tweco (K4271-2)
Package Product No.	One-Pak® - shipped as single K#		K4274-5	K4274-6	K4274-7	K4274-8	K3438-2	K3438-3	K4278-3
	LF-72 HD	K2327-7	•				•		
	LF-74 HD	K2426-5		•					
Wire Feeder Model	Flex Feed 84 HD	K5000-2			•				
Model	LN-25X Tweco no flowmeter	K4267-2							•
	Power Feed 84 HD, USB	K3328-13				•		•	
	.035/.045 solid dual groove 2-roll	KP1696-1	•				•		
Duine Delle	.045 Cored 2-roll	KP1697-045C							•
Drive Rolls	.035/.045 solid dual groove 4-roll	KP1505-1		•	•	•		•	
	.045 Solid 4-roll	KP1505-045S							
Accessories	Magnum Pro Curve HDE 250 15ft	K2951-2-10-45	•	•	•	•	•	•	•
	Tweco Cable Package - 10ft work with ground clamp, 10ft electrode	K1803-2	•	•	•	•	•	•	
	Harris Flowmeter Regulator and hose	3100211	•	•	•	•	•	•	

Flextec Racks



K3402-3 Flextec 350X Construction 4-pack Rack K3403-3 Flextec 350XP 4-pack rack K4726-1 Flextec 350X PowerConnect 4-Pack Rack



K4277-2 Flextec 350X Construction 6-pack rack K4281-2 Flextec 350XP 6-Pack Rack

> K4727-1 Flextec 350X PowerConnect 6-Pack Rack



GENERAL OPTIONS

Multi-Process Switch

Easily change welding process and polarity without changing cables at the machine

Order K3091-1



Flextec350X CE Filter Kit (380-575 Vac) Order K4420-1



Weld Cable Package

2, 10ft. 2/0 cables with Tweco plug and lug. Also includes GC500 work clamp

Order K1803-2



Harris® Model 355 Flowmeter Regulator and Hose Includes 10 ft. (3.0 m) hose

Order: 3100211



Single Cylinder Inverter and Wire Feeder Cart

Requires K4068-1 mounting bracket for LF, Flex Feed and Power Feed Feeders. Requires locking foot kit for Flextecs

Order K3059-4



Dual Cylinder Inverter and Wire Feeder Cart

Requires K4068-1 mounting bracket for LF, Flex Feed and Power Feed Feeders. Requires locking foot kit for Flextecs

Order K3059-5



Inverter Cart Mounting Bracket Kit

Use for mounting Flex Feed or Power Feed (to the K3059-4 inverter cart)

Order K4068-1



Flextec 350X Locking Foot Kit

Allows the Flextec to lock to the inverter cart, Multi-Process Switch, Cool Arc® 55 water cooler

Order K4424-1



12-pin to 6-pin Adapter

Allows 6-pin remote controls (K870. K963-3, K857, K4986-1) to be used with 12-pin Universal Connection Order K2909-1



I C-40

Tweco-Style Plug (male, 1/0 Thru 2/0) Order K3416-70



I C-40

Tweco-Style Receptacle (female, 1/0 Thru 2/0) Order K3417-70



LC-40HD

Tweco-Style Plug (male, 3/0 Thru 4/0) Order K3416-90



LC-40HD

Tweco-Style Receptacle (female, 3/0 Thru 4/0) Order K3417-90



STICK OPTIONS

CrossLinc Remote

Adjust voltage or current at the arc. For CrossLinc-equipped welders. See publication MC16-137 Order K4345-1



Remote Output Control with 12-pin Universal Connector

Permits remote adjustment of output

Order K857-2 (25 ft.) Order K857-3 (100 ft.)





Wireless Foot Pedal with 6-nin Amphenol[®]

Permits remote adjustment of output(1)

Order K4986-1



Foot Amptrol with 12-pin Amphenol Connector (25 ft)

Remote current control for TIG welding

Order K870-2



Hand Amptrol Rotary Track Style, 12-pin Amphenol (25 ft)

Remote current control for TIG welding

Order K963-4



WIRE FEEDER OPTIONS

Includes CrossLinc communication technology and TVT

Order K4267-2



Activ8X

Compact, lightweight, portable feeder with CrossLinc Technology and TVT

Order K3519-1 (See Publication E8.107)



Only compatible with the PowerConnect Order K4717-1



LF-72 Bench Model

Activ8X Pipe

Two drive roll feeder designed for MIG and cored wire welding in job shop and manufacturing environments

See Publication E8.11



LF-74 Bench Model

Four drive roll feeder designed for MIG and cored wire welding in job shop and manufacturing environments

See Publication E8.11



Flex Feed 74 HT

Four drive-roll, high-torque, industrial semiautomatic wire feeder for general/structural fabrication

See Publication E8.203



Flex Feed 84 Single Bench

Four drive roll feeder with heavy duty wire reel stand for general/ structural fabrication

See Publication E8.205



Flex Feed 84 Dual Bench

Four drive roll feeder with heavy duty wire reel stand and contactor for general/structural fabrication See Publication E8.206



Power Feed 84, Heavy Duty Wire Reel Stand, U/I, USB

Four drive roll, digital ArcLink semiautomatic industrial wire feeder built on a modular platform to be used in a variety of applications

See Publication E8.268

MACHINE SPECIFICATIONS

Product Number	Product Name	Input Power	Rated Output Current/Voltage/ Duty Cycle	Input Current @Rated Output	Output Range	Dimensions HxWxL in (mm)	Weight Ib (kg)
K4271-2	Flextec 350X Construction	380/460/575 3-Phase	350A/34V/60%	25/28/22	5-425A	17 x 13 x 24 (432 x 330 x 609)	77 (34.9)
K4272-2	Flextec 350XP	50/60 Hz	300A/32V/100%	21/23/23			82 (37.1)
K4273-1	Flextec 350X PowerConnect	200-208/220- 230/380-415/460/575 3-Phase 50/60 Hz 380-415/460/575 1-Phase 50/60 Hz	350A/34V/60%	45/40/23/19/15			84 (38.1)
			300A/32V/100%	37/33/19/16/13			
			350A/34V/60%	39/32/26			
			300A/32V/100%	32/26/22			
		200-208/220-230 1-Phase 50/60 Hz	300A/32V/60%	62/56			
			270A/31V/100%	54/48			

For best welding results with Lincoln Electric equipment, always use Lincoln Electric consumables. Visit www.lincolnelectric.com for more details.

Manufactured at a facility with certified ISO Quality and Environmental Management Systems.

CUSTOMER ASSISTANCE POLICY

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