FLEXTEC[®] 350X SIMPLE. RELIABLE. FLEXIBLE.



Construction Model

Standard 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 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 seamless connectivity.

The Flextec 350X PowerConnect model adds the ability to weld with any input voltage between 200 and 600 volts and adds **basic pulsed MIG** output as a standard feature.

Processes »

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

Applications »

Fabrication, Construction, Shipbuilding, Structural, Pipe







Product Number »

K4271-1 Flextec 350X Construction K4272-1 Flextec 350X Standard K4273-1 Flextec 350X Power Connect K4283-1 Flextec 350X Construction CE model K4284-1 Flextec 350X Standard CE model

*Pulse and single phase only available on K4273-1 PowerConnect model



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

Requires CrossLinc technology enabled wire feeder or CrossLinc remote.

- ^[2] Requires K4273-1 PowerConnect model.
- Requires K4273-1 PowerConnect model and an ArcLink enabled feeder to access pulse modes.

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.

Simple Mode Switch

Choose your weld process: GTAW (TIG)

SMAW (Stick)

CV – gas shielded (MIG)

CV-Innershield[®] (self-shielded) ArcLink for access to synergic and pulse modes (when using

an ArcLink wire feeder)

Carbon Arc Gouge in Stick or MIG modes

Large Output Control —

Remote Control Connection Plug in for remotes

Welding Terminals Clearly labeled, quick

Clearly labeled, quick connections

Dedicated Hot Start

Adjustable to help reduce sticking when stick welding



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.



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

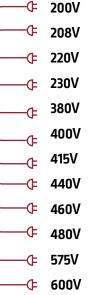




Any Input Voltage

Tough alloy handles

for lifting and impact



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



- 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



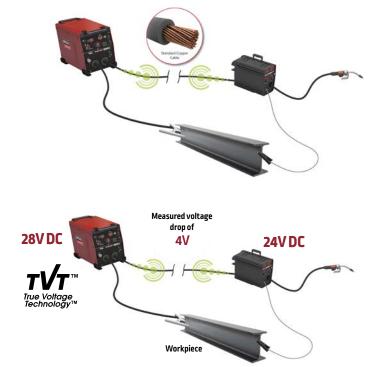
- Setup faster with fewer cable connections
- Eliminate helpers or trips to the power source to make procedure adjustments
- Minimize rework with easy settings adjustments

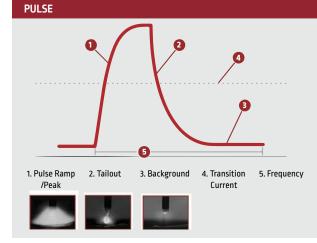
CrossLinc allows for amperage and voltage control at the welding arc to improve control of your operation.

- 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





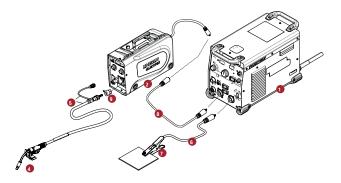
Pulsed spray is a non-contact transfer method between the electrode and the weld puddle. This means that at no time does the electrode ever touch the puddle. This is accomplished through high-speed manipulation of the electrical output of the welding machine. It is designed to be a spatterless process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

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#
1	Machine	Flextec 350X Standard or Construction (8ft. power cord included)	K4272-1/K4271-1
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)

Pulse Setup

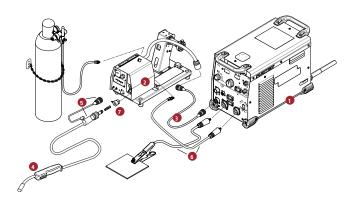
To unlock the full potential of the Flextec 350X PowerConnect welder, connect an ArcLink technology capable feeder. This will give you access to multiple synergic pulse modes. Synergic pulse modes give you all the benefits of pulsed MIG welding without any of the hassle.

Synergic Pulse Modes (PowerConnect Model)

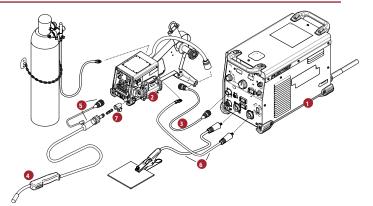
Wire Size	Steel	Stainless	Metalcore	Aluminum	
0.035	•	•		•	_
0.040	•				
0.045	•	•	•		
3/64				•	_
0.052	•		•		
1/16			•	•	_
				[5]	Flextec 350X

Factory Setup

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



	ITEM	DESC.	K#
1	Machine	Flextec 350X Standard (8ft. power cord included)	K4272-1
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 300, 15 ft Ready-pak®, Tweco #4	K2951-2-10-45
6	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)



	ITEM	DESC.	К#
0	Machine	Flextec 350X PowerConnect (8ft. power cord included)	K4273-1
2	Feeder	PF-84 Single Bench HD	K3328-13
8	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 300, 15 ft Ready-Pak, Tweco #4	K2951-2-10-45
6	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. Output Control Dial
- 4. Weld Process Selector Switch
- Remote Output Control (12-pin Universal Connector)
- Positive and Negative Welding Output Studs (Tweco-style)
- 7. Voltage Display
- VRD[™] (Voltage Reduction Device) Indicator Lights
- 9. CrossLinc Indicator Light
- 10. Hot Start Control Dial
- 11. Arc Control Dial
- 12. Local/Remote Selector Toggle Switch
- 13. Power Switch

FLEXTEC 350X Standard/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





WHAT'S INCLUDED

			Power Source Model							
	Description	Flextec 350X PowerConnect Product Tweco Number (K4273-1)		Flextec 350X Standard Tweco (K4272-1)			Flextec 350X Construction Tweco (K4271-1)			
Package	One-Pak® - shipped as single K#		K4274-1	K4274-2	K4274-3	K3438-1	K3439-1			K4278-2
Product No.	Ready-Pak - shipped fully assembled							K4540-1	K4540-2	
	LF-72 HD	K2327-7				•		•		
Wire	LF-74 HD	K2426-5	•							
Feeder	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				•		•		
Drive Rolls	.045 Cored 2-roll	KP1697-045C								•
DIIVE KUIIS	.035/.045 solid dual groove 4-roll	KP1505-1	•	•	•				•	
	.045 Solid 4-roll	KP1505-045S					•			
	Magnum Pro Curve 300 15ft	K2951-2-10-45	•	•	•	•	•	•	•	•
Accessories	Tweco Cable Package - 10ft work with ground clamp, 10ft elctrode	K1803-2	•	•	•	•	٠	•	•	
	Harris Flowmeter Regulator and hose	3100211	•	•	•	•	•	•	•	
	Inverter Cart	K3059-4					•	•	•	

	Description	Product Number
	Flexec 350X PowerConnect (Twistmate)	K3443-1
Additional Flextec	Flextec 350X Standard CE (Twistmate)	K4284-1
Models	Flextec 350X Construction (Tweco)	K4271-1
	Flextec 350X Construction CE (Twistmate)	K4283-1

*All Flextec 350X models except the CCC Model (K3586-1) include 10-ft input cord

Flextec Racks



K3402-1 Flextec 350X Construction 4-pack Rack K3403-2 Flextec 350X Standard

K3403-2 Flextec 350X Standard 4-pack rack



K4277-1 Flextec 350X Construction 6-pack rack K4281-1 Flextec 350X Standard 6-Pack Rack



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

GENERAL OPTIONS



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, K4217-1) to be used with 12-pin Universal Connection Order K2909-1





10-40 Tweco-Style Receptacle (female, 1/0 Thru 2/0) Order K3417-70

Tweco-Style Plug

(male, 1/0 Thru 2/0)

Order K3416-70



10-40

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.)

TIG OPTIONS

Wireless Foot Pedal with 6-pin Amphenol[®] Permits remote adjustment of output(1) Order K4217-1

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



WIRE FEEDER OPTIONS

LN-25X Includes CrossLinc communication technology and TVT Order K4267-2



LF-72 Bench Model

Two 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



welding Order K963-4

	Features	Flextec 350X PowerConnect	Flextec 350X Standard	Flextec 350X Construction
	Input Power	200-600V/1/3/50/60	380-600/3/50/60	380-600/3/50/60
Input	3-phase	•	•	•
	1-phase	•		
	CrossLinc compatible feeders	•	•	•
Feeders	14-pin Analog, 42V feeders	•	•	
	5-Pin Digital, 42V feeders	•	•	
	GTAW Touch Start TIG	•	•	•
	SMAW (Stick)	•	•	•
	GMAW (MIG)	•	•	•
Processes	FCAW (Flux cored)	•	•	•
	FCAW-G (Gas shielded Flux-cored)	•	•	•
	GMAW-P (Pulsed MIG)	•		
	Gouging (Recommended)	1/4"	1/4"	1/4"

FLEXTEC 350X - MODEL SELECTION

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)
K4271-1	Flextec 350X Construction	380/460/575 3-Phase	350A/34V/60%	18/17/17	5-425A Max OCV 80V DC	17 x 13 x 23 (432 x 332 x 584)	77 (34.9)
K4272-1	Flextec 350X Standard	50/60 Hz	300A/32V/100%	23/20/21			82 (37:1)
K4273-1	Flextec 350X	200-208/220-	350A/34V/60%	45/40/23/19/15		17 x 13 x 24	84 (38.1)
	PowerConnect	PowerConnect 230/380-415/460/575 3-Phase 50/60 Hz	300A/32V/100%	37/33/19/16/13	-	(432 x 330 x 609)	
		380-415/460/575	350A/34V/60%	39/32/26			
		1-Phase 50/60 Hz	300A/32V/100%	32/26/22			
		200-208/220-230 1-Phase 50/60 Hz		62/56	5-350A		
				54/48	Max OCV 67V DC		

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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