

POWER WAVE® 300C CE

Advanced process welder.



The ultimate all-in-one machine.

From technical training to industrial fabrication, Lincoln Electric is introducing an all-new industrial 300 Amp, Do-Everything Power Wave.

Packed with all of the performance and leading-edge technology you expect from a Power Wave system, now completely revamped to take the industrial “all-in-one” class of welders to the next level.

Processes

SMAW, GTAW, GMAW, GMAW-P, FCAW, GTAW-HF, STT MIG

Applications

General Fabrication, Education

Input



Output



Product Number

Power Wave® 300C Advanced CE
K4490-1

Key Features

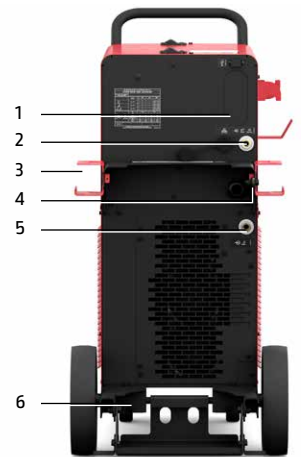
- **Best-in-Class Performance** Industry's only true 300Amp, 100% Duty Cycle, All-Process Machine.
- **All-Process Versatility** Stick, TIG, MIG, Flux-Cored, Arc Gouging processes, with advanced weld modes and integrated High Frequency and AC/DC capabilities.
- **Intelligent Connectivity** Intelligent, operator-focused interface and powerful Industry 4.0 capabilities including CheckPoint® Production Monitoring.
- **Flexible Input Power** PowerConnect® Technology allows for 200V-600V input power while maintaining consistent and reliable arc performance.
- **Ready-to-Run™ Design** Standard features for simple and straightforward operation, including cable management hooks, integrated cart with tilting bottle rack, and TIG solenoid.

KEY CONTROLS

1. User Interface / Controls w/USB Port
2. Cable / Torch Hanger
3. Remote Connection, 12 pin
4. Gun Trigger Connection, 4 pin
5. Power Source ON/OFF
6. MIG/FCAW Gun Connection
7. Sense Lead Connection (if required)
8. Twist Mate™ Connections w/ integrated TIG gas solenoid



1. Ethernet Connection
2. MIG/FCAW Shielding Gas Input
3. Tool Holder
4. Power Cable Input
5. TIG Shielding Gas Input
6. Tilting Bottle Rack



ADVANCED USER INTERFACE

Memory Name

Dual Procedure Indicator

Wire Feed Speed/Amperage Setting: Use the left knob to adjust.

Wire Feed Speed/Amps

7 in. IP67 High-Resolution Display

Process Details

Navigation/Select

One-Click Process Selection

USB Port

Voltage Setting: Use the right knob to adjust.

Volts/Trim

Synergic Voltage Indicator: Nominal voltage is shown. Lowering the voltage below nominal will move the bar to the left. Raising the voltage above nominal will move the bar to the right.
NOTE: In Simplified Mode, Start/End Settings will not appear on the home screen even when set to a non-zero value.

Menu Bar: Use the Navigation/Select knob to scroll through the options along the bottom of the screen. Press the knob to select the highlighted option.

Memory Selection

The display shows: **275** (Wire Feed Speed), **20.7V** (Voltage), **Test Memory 2**, **GMAW | Precision Pulse®**, and **316L Stainless | .035" | 98% Ar 2% CO2**. The menu bar at the bottom includes: **GMAW Type**, **Wire Type**, **Wire Diameter**, **Gas Type**, and **... More**.

MODELS & PACKAGES AVAILABLE



K4490-1 Power Wave 300C Advanced CE

- AC/DC Output
- Multi-Process Capabilities, with Advanced Waveforms:
 - Smart Pulse™, Low Fume Pulse™, and STT®
 - HF TIG including AC Aluminum Modes

What's Included

- 4.5 m Work Lead (K1803-3)
- 0.9 / 1.2 mm Combination V-Groove Drive Rolls (Included in Wire Drive Assembly) (KP1696-1)

ADDITIONAL POWER WAVE 300C ACCESSORIES



K4866-1 Power Wave 300C Dual Gas Bottle Upgrade Kit

Allows for the use of multiple gas bottles or a combination of a gas bottle and water cooler on the rear of a Power Wave 300C

Drive roll kits

Wire Type	Wire Diameter (mm)	Reference	
Solid	0.6-0.8	KP1696-030S	
	0.9	KP1696-035S	
	0.9 / 1.2 Combination		KP1696-1
		1.0	KP1696-2
		1.2	KP1696-045S
Cored	0.9	KP1697-035C	
	1.2	KP1697-045C	
Aluminum	0.9	KP1695-035A	
	1.2	KP1695-3/64A	
	1.6	KP1695-1/16A	



Shown:
KP1697-035C, Cored Drive Roll Kit

RECOMMENDED ACCESSORIES



Screen Protector
Order KP4735-1



Remote Output Control with 12-pin Universal Connector

Consists of a control box with choice of two cable lengths. Permits remote adjustment of output.

Order K857-2 (25 ft 7.6 m)
Order K857-3 (100 ft 30.5 m)



Gun Connector Kit
Power Wave 300C® / Power MIG*

Configures Lincoln Electric Magnum PRO guns to connect to Power Wave® 300C and Power MIG power sources. For use with KP42 & KP44 series liners

Order K466-6



Magnum® PRO Dual Procedure Adapter

Required to use Magnum® PRO Dual Procedure or Dual Schedule guns with the Power Wave® 300C

Order K3159-1



Fast-Mate™ Adapter

Allows guns with a Fast-Mate™ style back end to connect into Power Wave® 300C and Power MIG® power sources

Order K489-8



Spindle Adapter for Small Spools

Permits 8 in. (200 mm) O.D. spools to be mounted on 2 in. (51 mm) O.D. spindles

Order K468



Spindle Adapter for 14lb Coils

Permits 14 lb. (6 kg) Innershield® coils to be mounted on 2 in (51mm) O.D. spindles

Order K435



Readi-Reel™ Adapter

Adapts 22-30 lb. (10-14 kg) Lincoln Readi-Reels® of electrode to 2 in (51mm) spindle

Order K363P



Hand Amptrol Rotary Track Style, 12-pin

Amphenol (25 ft) Remote current control for TIG welding

Order K963-4



Foot Amptrol™ (00002440)

Provides 25 ft. (7.6 m) of remote output control for TIG welding. (12-pin plug connection).

Order K870-2

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Voltage / Phase / Hertz	Output Range	Rated Output / Voltage / Duty Cycle	Input Current @ Rated Output	Dimensions H x W x D (mm)	Weight (kg)
Power Wave 300C Advanced	K4490-1	200-208/220-230/380-415/460/575/1/3/50/60	5-350A	GMAW: 350A / 31.5 V / 40% GMAW: 300A / 29 V / 100% SMAW: 325A / 33V / 40% SMAW: 280A / 31.2V/100% FCAW: 350A / 31.5 V / 40% FCAW: 300A / 29 V / 100% GTAW: 325A / 23V / 40% GTAW: 300A / 22V / 100%	3ph /1ph / 40% Duty Cycle: 44/40/25/20/16.5 3ph /1ph/100% Duty Cycle: 35/32/19.5/16/14	1007.6 x 524.5 x 1005.8	102.5

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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