

POWER WAVE® 300C ADVANCED (CE)

ADVANCED PROCESS WELDER



THE ULTIMATE ALL-IN-ONE MACHINE

From technical training to industrial fabrication, the Power Wave 300C delivers the ultimate 300 amp- “Do-Everything” welder. Packed with all the arc performance and technology you expect from a Power Wave system, this compact machine takes the industrial “all-in-one” class of welders to the next level.

Processes »

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

Applications »

General Fabrication, Education

Output »



Input »



Product Numbers »

POWER WAVE 300C ADVANCED (CE)
K4490-5

*Available on Power Wave 300C Advanced Model

For full waveform list please visit
www.PowerWaveSoftware.com

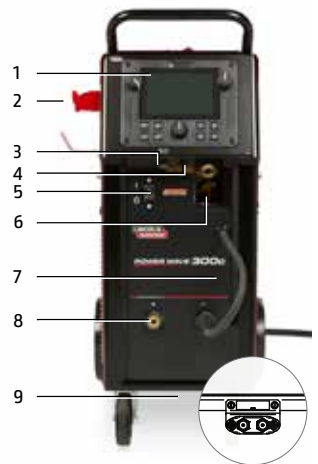
KEY FEATURES

- **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.

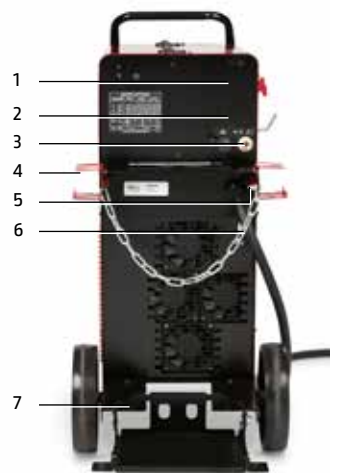
*Available on Power Wave 300C Advanced Model

KEY CONTROLS - POWER SOURCE

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
9. Water connection



1. Auxiliary 115V Outlet (optional K2829-1)
2. Ethernet Connection
3. MIG/FCAW Shielding Gas Input
4. Tool Holder
5. Power Cable Input
6. TIG Shielding Gas Input
7. Tilting Bottle Rack



KEY CONTROLS - USER INTERFACE



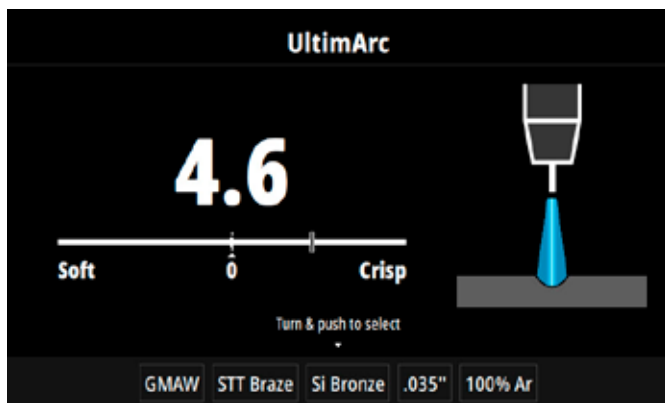
NEXT GENERATION OF SIMPLICITY & CONTROL

The Power Wave 300C user interface helps maximize arc time and allow operators of all skill levels to focus more on making great welds.

- One-button process changes
- Straightforward, easy-to-understand navigation
- Memory buttons for preferred settings
- ArcFX® Technology for visual arc settings feedback
- Single point of use – all controls in one location on the feeder
- Multilingual options for true global compatibility



Power Wave® 300C Advanced (CE) - Home Screen



Power Wave® 300C Advanced (CE) - process configuration screen with ArcFX® Technology



Power Wave® 300C Advanced (CE) - language option screen

FINE-TUNED ARC PERFORMANCE

The Power Wave 300C comes loaded with an expansive list of weld modes optimized for maximum performance with the industry's most common filler metals, wire diameters, and gas mixtures offered by Lincoln Electric's Waveform Control Technology®.

- Stick modes optimized for cellulosic and low hydrogen electrodes
- MIG modes optimized for 0.89-1.32 mm. for steel, 0.89-1.14 mm for stainless, 1.14-1.32 mm for metal cored, and 0.89, 1.19, and 1.59 mm for aluminum
- MIG modes optimized for simplicity (Smart Pulse™) and fume management (Low Fume Pulse™)*
- Flux-cored modes optimized for 1.14 mm, 1.32 mm, 1.59 mm
- High-Frequency and AC/DC TIG Modes*

* Available on the Power Wave 300C Advanced Model

MODEL & PACKAGE AVAILABLE



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

- 4.6m work lead
- Drive roll kit (2R) 0.9-1.2 mm

Order

K4490-5 Advanced CE

ADDITIONAL POWER WAVE® 300C ADVANCED (CE) 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



K4898-1 Power Wave 300C Water Cooler Adapter Kit

Allows Cool Arc® 40 Water Cooler to be installed in place of a gas bottle on the 300C single or dual bottle rack. Kit Includes: (1) 300C Cool Arc 40 Mounting Assembly and Hardware Kit, (1) Cool Arc 40 CGA to QD Water Hose Extension Kit, and (2) Quick Disconnect Adapters (KP4642-1).



K1813-1 Cool Arc 40 Water Cooler

Industrial water cooler that can function in both horizontal and vertical orientation for minimized footprint

* For use of Lincoln Electric Magnum PRO semi-automatic water cooled guns, order Fast-Mate gun and K489-8 adapter.

RECOMMENDED ACCESSORIES

		AIR VERSION	WATER VERSION
115 AUXILIARY KIT (FOR COOLER)	K2829-1	●	●
DRIVE ROLL KIT 0,9/1,2MM, SOLID WIRE	KP1696-1	●	●
DRIVE ROLL KIT, 1.0 MM, SOLID WIRE	KP1696-2	●	●
DRIVE ROLL KIT, 0.6-0.8 MM, SOLID WIRE	KP1696-030S	●	●
DRIVE ROLL KIT, 0.9 MM, SOLID WIRE	KP1696-035S	●	●
DRIVE ROLL KIT, 1.2 MM, SOLID WIRE	KP1696-045S	●	●
DRIVE ROLL KIT, 0.9 MM, CORED WIRE	KP1697-035C	●	●
DRIVE ROLL KIT, 1.0-1.2 MM CORED WIRE	KP1697-045C	●	●
DRIVE ROLL KIT, 0.9 MM, ALU WIRE	KP1695-035A	●	●
DRIVE ROLL KIT, 1.2 MM, ALU WIRE	KP1695-3/64A	●	●



**115 AUXILIARY KIT
(FOR COOLER)**
K2829-1



**DRIVE ROLL KIT,
CORED WIRE**
**DRIVE ROLL KIT,
SOLID WIRE**



**DRIVE ROLL KIT,
ALU WIRE**
KP1695-035A
KP1695-3/64A

● — included ● — optional

		AIR VERSION	WATER VERSION
DUAL GAS BOTTLE UPGRADE KIT	K4866-1	●	●
WATER COOLER MOUNTING	K4898-1	-	●
COOL ARC 40	K1813-1	-	●
FAST-MATE ADAPTER KIT	K489-8	●	●
ADAPTER TIG ADV MOD	K14144-1	●	●
ADAPTER TIG C5B (5/12 PIN)	K14349-1	●	●
FOOT AMPTROL 7,6M (12-PINS)	K870-2	●	●
RC 12-PIN 7,6M	K857-2	●	●
SCREEN PROTECTOR	KP4735-1	●	●
KIT35C500 -300A/35MM2/4M	W000011139	●	●
LG PROMIG 300 - 3M AIR	W000345066-2	●	-
LG PROMIG 300 - 4M AIR	W000345067-2	●	-
LG PROMIG 300 - 5M AIR	W000345068-2	●	-
LG PROMIG 330W-3M WATER	W000345063-2	-	●
LG PROMIG 330W-4M WATER	W000345064-2	-	●
LG PROMIG 330W-5M WATER	W000345065-2	-	●
LINCUN PROMIG 300 UD 4M Air	W100000297	●	-
LINCUN PROMIG 500W UD 4M WATER	W100000298	-	●
PROTIG 40 III S - 5M	W000382721-2	●	-
PROTIG 35W NG S - 5M	W000278404-2	-	●
PROTIG 35W NG S - 8M	W000278405-2	-	●
PROTIG 40 NG S - 5M	W000278400-2	●	-
PROTIG 40 NG S - 8M	W000278401-2	●	-
PROTIG 35W III S - 5M	W000382725-2	-	●
PROTIG 35W III S - 8M	W000382726-2	-	●
FREEZCOOL	W000010167	-	●
WEAR PARTS BOX PROTIG 40/35W	W000306444	●	●
FLAIR 1600	W000010118	●	●

● — included ● — optional



**DUAL GAS BOTTLE
UPGRADE KIT**
K4866-1



**WATER COOLER
MOUNTING**
K4898-1



**COOL ARC 40
WATER COOLER**
K1813-1



**FAST-MATE
ADAPTER KIT***
K489-8

* The specified adapter is required for connecting PROMIG series torches.



**ADAPTER TIG
ADV MOD**
K14144-1



**ADAPTER TIG C5B
(5/12 PIN)***
K14349-1

* The specified adapter is required for connecting PROMIG series torches.



**FOOT
AMPTROL
7,6M**
K870-2



RC 12-PIN
K857-2



**SCREEN
PROTECTOR**
KP4735-1



FREEZCOOL
W000010167



**PROTIG NG S
40 AIR**
W000382721-2



**PROTIG NG S
35W WATER**
W000278404-2
W000278405-2



**PROTIG III S 40
AIR**
W000278400-2
W000278401-2



**PROTIG III S
35W WATER**
W000382725-2
W000382726-2



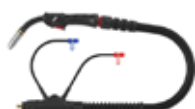
KIT35C500
W000011139



**WEAR PARTS
BOX PROTIG
40/35W**
W000306444



LG PROMIG 300 AIR
W000345066-2
W000345067-2
W000345068-2



**LG PROMIG 330W
WATER**
W000345063-2
W000345064-2
W000345065-2



**LINCUN PROMIG
300 UD 4M AIR**
W100000297




**LINCUN PROMIG
500W UD 4M
WATER**
W100000298



FLAIR 1600
W000010118

LINGUN® PROMIG™ 270 / 330W



Nozzle *		Contact tip		Diffuser
		Ø mm		
D12	W000345410	Steel	0,8	W000345335
D14	W000345411		1,0	
	W000345411-B20**		1,2	
Aluminium			1,0	
			1,2	

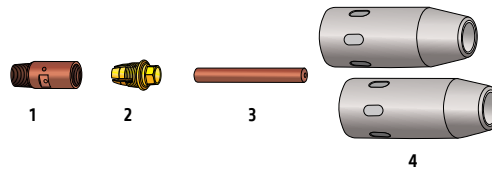
* Bottleneck nozzles W000345408 (D12) and W000345409 (D14) also can be used.

		Ø mm	Steel or PTFE liner		
			3 m	4 m	5 m
LGP 270 / 330W	Steel (Steel liner)	0,8	W100000273 (blue)	W100000274 (blue)	W100000275 (blue)
		1,0	W100000276 (red)	W100000277 (red)	W100000278 (red)
	Aluminium (PTFE liner)	1,0	W100000279 (black)	W100000280 (black)	W100000281 (black)
		1,2			

NEW: Contact tips and nozzles now also available in bulk: more economic, more ecological

Options: Adjustable Long Tip


1	Special diffuser	W000345334	Diffuser D4.8x50
2	Collet	W000345329	Collet D4.8x50
3	Special Contact Tip	W000345555	Contact tip D4.8x50 for 0.8mm steel wire
		W000345556	Contact tip D4.8x50 for 1.0mm steel wire
4	Nozzles	Please use standard nozzles for LGP 270 and 330W	



Red-colored wear parts assembled and delivered with the gun

** B50 = pack of 50 pcs, B20 = pack of 20 pcs

LINGUN® PROMIG™ 300 / 400W / 300 UD

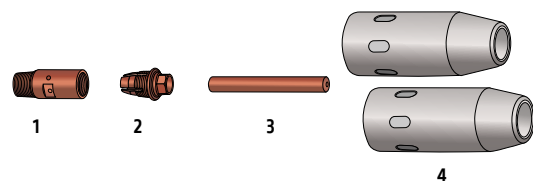


Nozzle		Contact tip		Diffuser
		Ø mm		
D12 *	W000345420	Steel	1,0	W000345341
D14	W000345421		1,2	
D16	W000345422		1,4	
	W000345422-B20**		1,6	
Aluminium			1,0	
		1,2		

		Ø mm	Steel or PTFE liner		
			3 m	4 m	5 m
LGP 300 / 400W	Steel (Steel liner)	1,0	W100000282 (red)	W100000283 (red)	W100000284 (red)
		1,2			
		1,4	W100000285 (yellow)	W100000286 (yellow)	W100000287 (yellow)
	Aluminium (PTFE liner)	1,0	W100000288 (black)	W100000289 (black)	W100000290 (black)
		1,2			

Options: Adjustable Long Tip

1	Special diffuser	W000345340	Diffuser D6.3x55
2	Collet	W000345331	Collet D6.3x55
3	Special Contact Tip	W000345561	Contact tip D6.3x55 for 1.0mm steel wire CuCrZr
		W000345563	Contact tip D6.3x55 for 1.2mm steel wire CuCrZr
		W000345566	Contact tip D6.3x55 for 1.6mm steel wire CuCrZr
		W000345564	Contact tip D6.3x55 for 1.2mm Alu wire
4	Nozzles	Please use standard nozzles for LGP 300 and 400W	



* Narrow nozzle W000345420 (D12) can be used only with a special contact tip holder: W000345342

ACCESSORIES WEAR PARTS

LINGUN® PROMIG™ 400 / 500W / 500W UD



Nozzle	
D16	W000345427
	W000345427-B20**
D19	W000345428



Contact tip	
Ø mm	
1,0	W000345587
1,2	W000345589
	W000345589-B50**
1,4	W000345591
1,6	W000345592
1,0	W000345588
	W000345590
1,2	W000345590-B50**
1,6	W000345593



Diffuser
W000345347

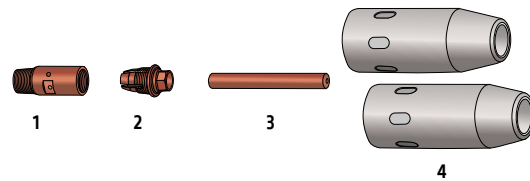


		Ø mm	Steel or PTFE liner		
			3 m	4 m	5 m
LGP 400 / 500W	Steel (Steel liner)	1,0	W100000282 (red)	W100000283 (red)	W100000284 (red)
		1,2			
		1,4	W100000285 (yellow)	W100000286 (yellow)	W100000287 (yellow)
		1,6			
	Aluminium (PTFE liner)	1,0	W100000288 (black)	W100000289 (black)	W100000290 (black)
		1,2			
		1,6	W100000291 (black)	W100000292 (black)	W100000293 (black)

Options: Adjustable Long Tip

1	Special diffuser	W000345346	Diffuser D6.3x55
2	Collet	W000345331	Collet D6.3x55
3	Special Contact Tip	W000345561	Contact tip D6.3x55 for 1.0mm steel wire CuCrZr
		W000345563	Contact tip D6.3x55 for 1.2mm steel wire CuCrZr
		W000345566	Contact tip D6.3x55 for 1.6mm steel wire CuCrZr
		W000345564	Contact tip D6.3x55 for 1.2mm Alu wire
4	Nozzles	Please use standard nozzles for LGP 400 and 500W	

Red-colored wear parts assembled and delivered with the gun



** B50 = pack of 50 pcs, B20 = pack of 20 pcs

PROTIG NG S 40 AIR / NG S 10W WATER / III S 40 AIR / III S 10W WATER

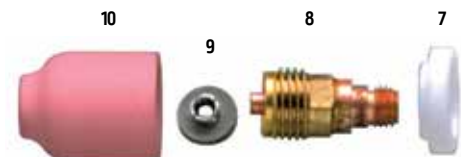


		PROTIG 10 / 10W	PROTIG 35W / 40
1 - Back cap	short	W000306220	W000306225
	medium	-	-
	long	W000306222	W000306226
2 - Back cap o-ring		W000306229	W000306231
3 - Sealing ring		W000306210	W000306212
4 - Electrode collet	Ø 1.6	W000306237	-
	Ø 2.0	W000306238	-
	Ø 2.4	W000306239	W000306255
	Ø 3.2	W000306240	W000306256
5 - Collet body all diameters		W000306205	W000306208
5* - Collet body heavy duty		-	-
6 - Nozzle	Ø 8	W000306270	W000306278
	Ø 9.6	W000306271	W000306279
	Ø 12.8	W000306272	W000306280
	Ø 15.7	-	W000306281
6L - Long nozzle	Ø 4.8	W000306456	-
	Ø 6.4	W000306457	-
	Ø 8	W000306458	W000306463
	Ø 9.6	W000306459	-
	Ø 11.2	-	W000306465
7 - Gas lens sealing ring		W000306210	W000306217
8 - Gas lens collet body		W000306213	W000306215
9 - Gas lens filter		W000306218	W000306219
10 - Gas lens nozzle	Ø 8	-	W000306287-2
	Ø 9.6	W000306285	-
	Ø 11.2	W000306286	-
	Ø 12.8	-	W000306289-2
	Ø 15.7	-	W000306290-2
10L - Long gas lens nozzle	Ø 8	-	W000306467
	Ø 9.6	-	W000306468
	Ø 11.2	-	W000306469

The gas lens collet body **8** is supplied with a filter **9** and a sealing ring **7**.

The ring **7** or the filter **9** are supplied on their own.

Gas lens, for welding where access is difficult



Nozzles 6, 10: choice of diameter

Welding current [A]	70	90	120	200	350
Diameter (mm)	6	8	10	12	15

* For the collet body « heavy duty », use the gas lens nozzles

DRIVE ROLL KITS

Wire Type	Wire Diameter - mm	Order No.
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	



Shown:
KP1697-035C,
Cored Drive Roll Kit

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Voltage / Phase / Hertz	Output Range	Rated Output / Voltage / Duty Cycle	Input Current @ Rated Output (Single Phase Values)	Dimensions H x W x D mm	Net Weight kg
Power Wave 300C Advanced (CE)	K4490-5	208/230/400/ 3/50/60	5-350A	GMAW: 325A/30.3V/40% GMAW: 300A/29V/100% SMAW: 325A/33V/40% SMAW: 280A/31.2V/100% FCAW: 325A/31.5V/40% FCAW: 300A/29V/100% GTAW: 350A/24V/40% GTAW 300A/22V/100%	44/40/25	1008 x 521 x 1001	97

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

CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, cutting equipment and EV charging systems. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications 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, or to provide engineering advice in relation to a specific situation or application. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

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