

**LINCOLN**  
**ELECTRIC**

**Product CHANGE**  
**NEW Product**

## POWER WAVE 345C

**Subject :**

New Compact Power Source for PULSE welding : PW345C



**Advantages :**

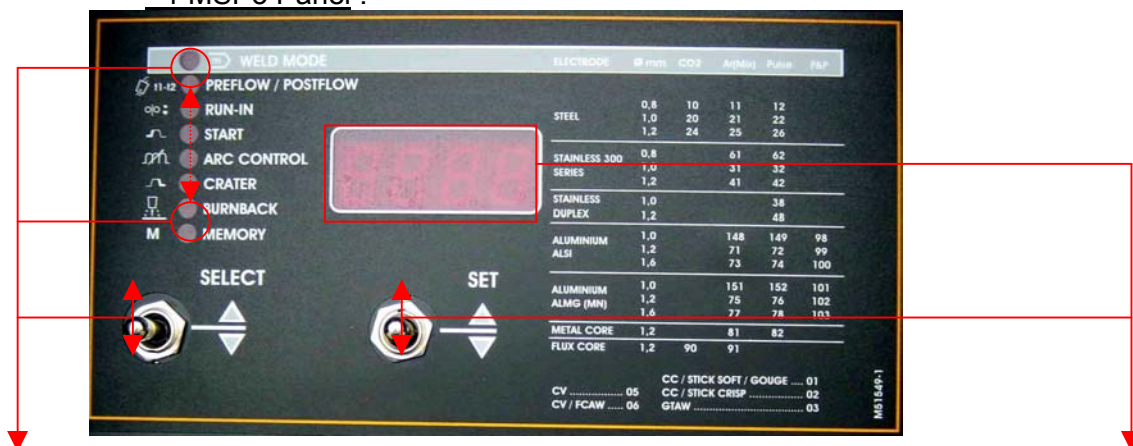
- Chopper Technology (see technical specification below).
- Outstanding welding characteristics.
- Compact unit with wire drive integrated.
- Simple to use : The front panel with 2 large bright displays and 2 encoding buttons to pre-set the parameters (WFS & Voltage (or trim)) before welding.
- Full Featured : The MSP3 Panel allows to select :
  - Hot/soft start and Crater fill as a standard.
  - Synergic welding mode on CV, Pulse and Pulse&Pulse.
  - Memory for pre-set job selection (8 totally).
- Four roll drive as a standard.
- Ergonomic design.
- Tool box for contact tips, rolls, screws, gloves ...
- Delivered on undercarriage AIR or WATER, see item # below.
- Water flow control kit as a standard on Water cooled version.
- Push-pull connection kit as a standard on Water cooled version.
- 2 Years Warranty.

## Control panels :

- PW345C is equipped with 2 control panels :
  - 1 Front panel : With 2 encoding buttons, 2 digital displays, and 4 indicator LED.

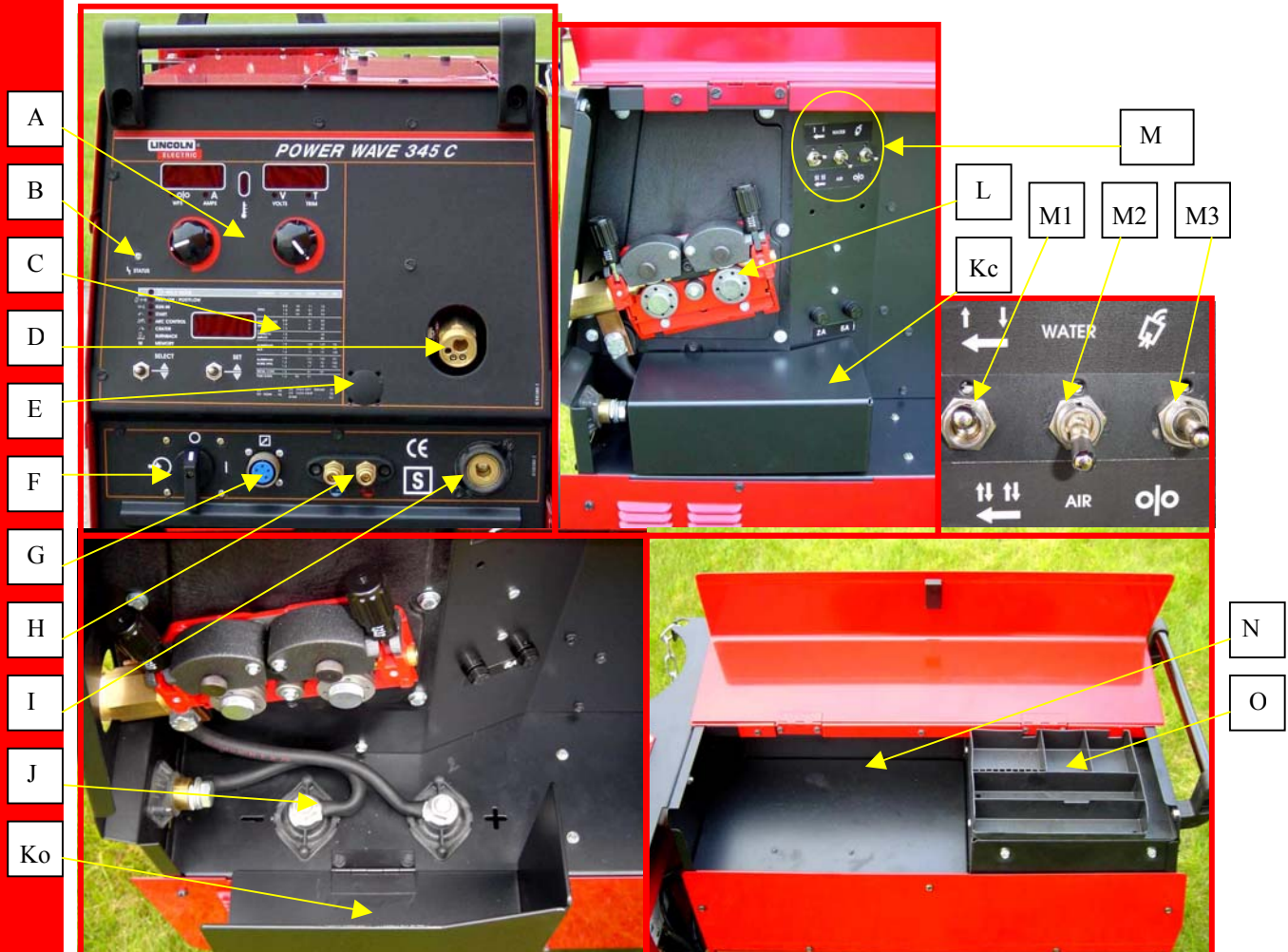


- 1 MSP3 Panel :



SELECT	SET
<p>Gives access to the scrolling menu "SELECT", which allows to adjust welding parameters :</p> <ul style="list-style-type: none"> <li>- WELD MODE</li> <li>- Pre-flow / Post-flow</li> <li>- Run in</li> <li>- Hot/soft start parameters (Wire feed speed and voltage are set on the front panel)</li> <li>- Arc Control</li> <li>- Crater fill</li> <li>- Burnback</li> <li>- Memory</li> </ul>	<p>Push up or down to adjust the value of the selected parameter :</p> <ul style="list-style-type: none"> <li>- Number of the program</li> <li>- Time in second (Pre : 0 to 2,5 / Post 0 to 10)</li> <li>- Run in WFS in m/min (1,27 to 3,81)</li> <li>- Time in second (0 to 10)</li> <li>- Value (from -10 to + 10)</li> <li>- Time in second (0 to 10)</li> <li>- Time in second (0 to 0,25)</li> <li>- <b>Save, recall memory # (1 to 8)</b></li> </ul>

**Features :**



- |   |   |
|---|---|
| <p>A. FRONT Panel<br/>B. Status light<br/>C. MSP3 Panel<br/>D. Euroconnector<br/>E. Push Pull Connection kit (not showed)<br/>F. ON/OFF Switch<br/>G. Remote control receptacle .<br/>H. Water connector (as standard on water cooled models) for connecting water cooled torches.<br/>I. Fast Mate adaptor (Female) for Ground cable</p> | <p>J. Polarity change connections<br/>K. Polarity change Cover<br/>Ko. Cover of polarity change OPEN<br/>Kc. Cover of polarity change CLOSED<br/>L. Drive roll assembly<br/>M. Switches<br/>M1. "2 / 4 step"<br/>M2. "Air / Water" Torche<br/>M3. "Cold inch / gas purge"<br/>N. Glove box<br/>O. Tool case (contact tips, drive rolls, guide-tubes...)</p> |
|---|---|

**Effective date :**

May 2002.

**Instruction Manual :** IM1054

**Technical Specifications :**

INPUT			
Input Voltage 230 / 400 V 3 phase		Frequency 50 Hertz (Hz)	
RATED OUTPUT			
Duty Cycle (acc. EN60974-1) (Based on a 10 min. period) 35% 60% 100%		Output Current  350 A 300 A 230 A	
OUTPUT RANGE			
Welding Current Range  5 – 350 Amps		Auxiliary Power 230V AC (water cooler)	
WIRE SPEED RANGE (m/min)			
2 m/min to 20 m/min			
WIRE SIZES (mm)			
SOLID WIRES 0.6 to 1.6	CORED WIRES 1.0 to 1.6	ALU WIRES 1.0 to 1.6	
DIMENSIONS			
Height (mm) 880	Width (mm) 680	Length (mm) 1100	Weight ( Kg) 135 (air) 162 (water)
Operating Temperature -20°C to +40°C		Storage Temperature -25°C to 55°C	

**To connect a Push-Pull Torch :**

We recommend to use Binzel Torch (Type PP401D / 42 Volts)

To connect the right plug on the input of the torch, items to order :

Amphenol plug 3 pins, male : S12020-16

Collar (for Amphenol plug) : S12024-4

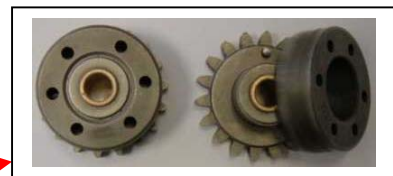
Electrical connection :

- of the torch (White) on pin A of the plug

+ of the torch (Black) on pin C of the plug

**Item# :**

Model / Description	Product Number
<b>PW345C</b> Compact On undercarriage - Air cooled Including : - 5m-input cable - 4x10mm <sup>2</sup> - 5m-work clamp and cable assembly - 500A - 70mm <sup>2</sup> - <b>Drive roll kit (2 roll driven) 1,2 mm solid wire</b>	<b>K10355-1A</b>
<b>PW345C</b> Compact On undercarriage – Water cooled Including : - 5m-input cable - 4x10mm <sup>2</sup> - 5m-work clamp and cable assembly - 500A - 70mm <sup>2</sup> - <b>Drive roll kit (2 roll driven) 1,2 mm solid wire</b> - Push Pull connection Kit - Water cooler, 8 liters - 400A – CE	<b>K10358-1W</b>
<b>OPTIONAL ACCESSORIES</b>	
<b>DRIVE ROLL KITS</b>	
<b>2 motor driven rolls (STANDARD CONFIGURATION)</b>	
Drive roll kit (2 roll driven) 0,6-0,8 mm solid wire	KP10344-0.8
Drive roll kit (2 roll driven) 0,8-1 mm solid wire	KP10344-1.0
<b>Drive roll kit (2 roll driven) 1,2 mm solid wire</b>	<b>KP10344-1.2</b>
Drive roll kit (2 roll driven) 1.2-1,6 mm solid wire	KP10344-1.6
Drive roll kit (2 roll driven) 1,0-1,6 mm cored wire	KP10344-1.6C
Drive roll kit (2 roll driven) 1,0-1,2 mm aluminum wire	KP10344-1.2A
Drive roll kit (2 roll driven) 1,2-1,6 mm aluminum wire	KP10344-1.6A
2-idle roll kit for KP10344 - configuration 2-roll driven	K10362-1
<b>4 motor driven rolls</b>	
<b>Necessary additional kit for KP10345</b>	
2-pinion kit for KP10345, configuration 4 roll driven	K10363-1
<b>MISCELLANEOUS</b>	
Euroconnector adaptor for Innershield torch	K10343
Remote control box for LF40 with cable	K10353-2



**Note :**

To better fit the market requests and to rationalize a maximum the price book, production and stock availability the following items exists but will only be made on order.

K10355-1W – PW345C Water Cooled without Push-pull connection kit  
K10358-1A – PW345C Air Cooled with push-pull connection kit

Please contact LE France order desk for price and delay.