

Available Through: Pro Line Systems International Inc.

Web Site: <http://prolinesystems.net>

305-793-9503

# ULTRACUT 40E

**Portable Inverter Air Plasma Cutter**

High frequency 220V (50/60Hz) volt Inverter with variable output control. Maximum 40A output at 60% duty cycle.

Cuts stainless steel, copper, iron and aluminium up to 1/2 inch (13mm) thick. Servers cut 5/8 inch thick (16mm)

Metal plates with different thickness can be curve-cut into any shape.

“Easy touch” smooth start.

Air regulator with water separator for longer tip life included.

Fan assisted air-cooling with temperature overload protection.

Comes with “Back Up Pack” of tips and nozzles.

Compact cabinet  
15x 6x 12in (371x 155x 295mm).

Lightweight  
(only 18lbs, 8kg).

Fully compliant with:  
EMC directive 73/23/EEC and 89/336/EEC.  
European Standard: EN/IEC60974-1

Cutting Torch



Ground Clamp



**AMH**<sup>®</sup>



No. Model: 28.PCA40

**State of the art technology at your finger tips**

# ULTRACUT 40E

## Plasma Cutting Process

Plasma cutting is a process that is used to cut steel and other metals of different thicknesses (or sometimes other materials) using a plasma torch. In this process, compressed air is blown at high speed out of a nozzle; at the same time an electrical arc is formed through that gas from the nozzle to the surface being cut, turning some of that gas to plasma. The plasma is sufficiently hot to melt the metal being cut and moves sufficiently fast to blow molten metal away from the cut.

The HF Contact type uses a high-frequency, high-voltage spark to ionise the air through the torch head and initiate an arc. These require the torch to be in contact with the job material when starting.

Plasma is an effective means of cutting thin and thick materials alike. Since plasma cutters produce a very hot and very localized "cone" to cut with, they are extremely useful for cutting sheet metal in curved or angled shapes.



The Ultracut 40E include an air filter regulator who not only provides a clean and dry air, but also ensure the steady pressure of the air source.

**Specifications:**

Rating flow: 550 L/min  
 Applicable pressure range: 0 ~ 1,0 Mpa  
 Applicable temperature: 0 ~ 60°C

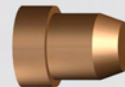
### Technical information

Input voltage.....	220V AC ± 10%
Input frequency.....	50Hz /60Hz
Input capacitance.....	6 KVA
No-load voltage.....	230V
Current range.....	20-40A
Output voltage.....	96V
Rated duty cycle.....	60%
Efficiency.....	85
Power factor.....	0.93
Insulation class.....	B
Protection class.....	IP23
Arc starting.....	Contact arc starting (pilot arc)
Air flow.....	0.17 m <sup>3</sup> /min
Max. cutting thickness.....	12mm
Weight.....	8kg (18lbs)
Size (Lx Wx H).....	371x 155x 295mm (15x 6x 12in)

### Accessories



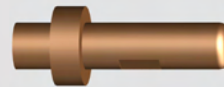
**Spare ceramic cup (diffuser)**  
 (Reference: 19.707.00.02E)



**Spare cooper tip**  
 (Reference: 05.707.00.04E)



**Spare ceramic ring**  
 (Reference: 19.707.00.04E)



**Spare electrode**  
 (Reference: 04.707.00.04E)



Cutting gun cable assembly, ground clamp cable assembly, filter regulator & reinforced hose included.

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