



UltraCut®
40E

BLACKHAWK

State of the art technology at your finger tips

Portable Inverter Air Plasma Cutter

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

Cuts stainless steel, copper, iron and aluminum
up to 1/2 inch (13mm) thick.
Severe 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 a back up pack
of tips and nozzles

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

Lightweight
(only 18lbs / 8kg)

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



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 ionize 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 ensures 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



Accessories and Specifications

Accessories



- Spare ceramic nozzle (diffuser): 197070002E



- Spare copper cutting tip: 057070004E



- Spare ceramic insulator ring: 197070004E



- Spare electrode: 047070004E



- Cutting gun cable assembly, ground clamp cable assembly, filter regulator and reinforced hose included

Equipment Specifications

- | | |
|-----------------------------|------------------------------------|
| • Input voltage | 220V AC \pm 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 ³ /min |
| • Maximum cutting thickness | 13mm |
| • Weight | 18lbs (8kg) |
| • Size (L x W x H) | 15" x 6" x 12" (371 x 155 x 295mm) |

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