

# Machine Features

## RAZOR CUT 45 CNC



### Latest IGBT Inverter Technology

Our state-of-the-art IGBT Inverter technology gives you get better performance, better efficiency, and better reliability, all with a significantly lighter power source than a transformer.

### HD Backlit Interface

This next generation interface panel is bright and easy to read in any environment.

### Power Factor Correction

PFC gives you maximum electrical efficiency. It automatically compensates for any voltage fluctuation, and PFC is also designed to be generator friendly.

### Perforated Cut Mode

Now you can cut perforated metal without having to restart the arc between gaps. Simply switch into perforated cutting mode and slice through perforated metal with ease.

### Pilot Arc Start

Pilot Arc Start lets you start the arc before contacting the workpiece. This gives you better control of the torch, especially on materials with uneven or curved surfaces.

### 2T/4T Trigger Modes

Designed for user preference and comfort, adjustable trigger modes allow you to either hold the trigger down throughout the cut, or use the trigger as a on/off switch by pulling to start and pulling to stop.

### Smart Fan

Smart Fan diminishes noise, saves power, helps reduce energy costs, and minimises the number of contaminants being pulled through the machine.

### Lightweight & Portable

Weighing just 10kg, the RAZOR CUT 45 is ready to go anywhere you need it.

### CNC Connectivity

With an easy-access CNC connection on the front panel, you can plug in a CNC torch and use it with a CNC table.

### Air Test

The Air Test feature lets you to test the air pressure before proceeding with cutting, to easily check you've set the optimal parameters.

### Optional Air Compressor Module

The new air compressor module is designed to perfectly fit the RAZOR CUT 45. This sleek and compact unit eliminates the need for a bulky external air compressor, perfect for workshops where space is a premium or as a CNC companion. Despite its small size, there is no compromise on performance, maintaining a clean cut of 16mm and a severance cut of 25mm.

# Machine Specifications

## 3.1 Technical Data

| Parameter               | Values                               |
|-------------------------|--------------------------------------|
| SKU                     | XA-RZCUT45CNC-K                      |
| Primary Input Voltage   | 240V Single Phase                    |
| Supply Plug             | 15A                                  |
| Rated Input Current (A) | 23                                   |
| No Load Voltage (V)     | 98                                   |
| Ieff (A)                | 15.0                                 |
| Air Flow Draw Off (cfm) | 6.7                                  |
| Air Flow Pressure (psi) | 75                                   |
| Current Range (A)       | 20-45                                |
| Machine Duty Cycle      | 25% @ 45A<br>60% @ 30A<br>100% @ 20A |
| Protection Class        | IP23S                                |
| Insulation Class        | H                                    |
| Dinse Connector         | 10/25                                |
| Standard                | AS/NZ60974-1                         |
| Warranty (Years)        | 5                                    |

## 3.2 Plasma Cut Thickness Rating

| Parameter                | Values |
|--------------------------|--------|
| Mild Steel Clean Cut     | 16mm   |
| Mild Steel Severance Cut | 25mm   |
| Aluminium Clean Cut      | 8mm    |
| Aluminium Severance Cut  | 10mm   |
| Stainless Clean Cut      | 8mm    |
| Stainless Severance Cut  | 10mm   |

## 3.3 Size & Weight

| Parameter  | Values        |
|------------|---------------|
| Dimensions | 546×169×341mm |
| Weight     | 10kg          |

## 3.4 Machine Features

| Parameter                   | Values                   |
|-----------------------------|--------------------------|
| Plasma Arc Start            | Pilot Arc                |
| CNC Connection              | Yes                      |
| Thermal Overload Protection | Over Temperature Warning |