

**NEW!**

# CUT-40Di/40MV



## Quick Specs



**Light Industrial Application:**  
Home workshop  
Metal fabrication workshops  
Light fabrication  
Repair and maintenance

**For These Materials :**  
Mild Steel  
Brass  
Stainless Steel  
Copper  
Aluminum

**Input Power:** 230V or 115/230V, 1-Phase  
**Amperage Range:** 25-40A  
**Rated Output at 40°C (104°F):**  
40A at 100V @60% Duty Cycle  
**Weight:** 12 kg

## HF or Non-HF arc ignition system, Powerful and portable.

The **CUT-40Di** is designed based on the full digital control system, specifically for the handyman or tradesman that requires high quality cutting performance at an affordable price. This single phase inverter based power source can easily and accurately cut through a range of materials including mild/stainless steel and aluminum. It is ideal for applications including car panels, light maintenance or fabrication and for use in the home workshop.

**Powerful with heavy duty cycle of 60% at 40A, the maximum output.**

**CUT-40Di:** Non-HF ignition with Trafimet S45 torch ensures the excellent cutting performance.

The **CUT-40Di** also could be ordered with PFC system.

The **CUT-40Di** Air plasma cutting system arrives ready to go for fast and precise cutting. It's designed based on the full digital control system, specifically for the handyman or tradesman that requires high quality cutting performance at an affordable price. The CUT-40Di plasma cutting systems are portable enough to carry to any jobsite. Hook up the compressed air, grab the torch and start cutting right away.

## Specialist Features

- **Pilot Arc for superior arc performance and easy start.**
- **HF or Non-HF Arc ignition:** reliable plasma arc initiation without high frequency.
- **Continuous Output Control:** focus the arc for different material thickness.
- **Rapid Arc Restrike:** fast cutting through gaps, even expanded metal.
- **Powerful with heavy duty: 40A @60%.**
- Recommended 10mm quality cut capacity (0.5 m/min, with optional torch).
- Light weight and super portable.
- Generator power supply friendly.
- Auto-reconnects for single phase 115/230V 50/60 Hz input allows the flexibility to work in the shop or take in the field where 230V may not be available.
- Weighs in at a mere 12 kg making it easy to carry around the shop or job site.

## Outstanding Quality:

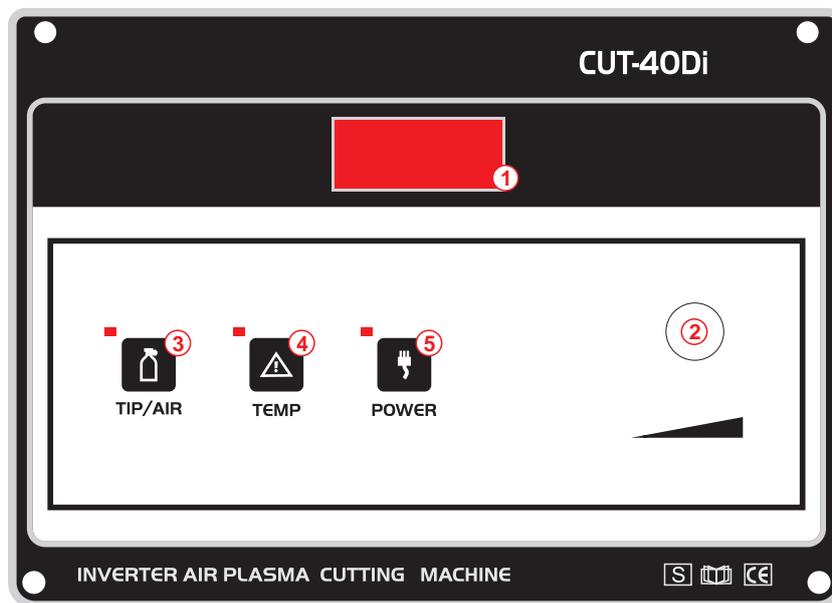
- Newly designed using the latest power electronic technology for improved reliability.
- CE Certified.
- One-Year Warranty on parts.



## Technical specifications

Item No	CUT-40Di	CUT-40i MV
Rated Input Voltage	1PH ~ 230V ±15%	1PH ~ 115/230V ±15%
Max. Load Power Capacity	6.0KVA	6.0KVA
Rated Duty Cycle(40°C, 105°F)	60%@40A	60%@40A
	100%@25A	100%@25A
Rated Output Current	25-40A	25-40A
Rated Output Voltage	96V	96V
Power Factor	0.80	0.80
Efficiency	80%	80%
Required Air Pressure	0.3~0.5MPa	0.3~0.5MPa
Quality Cutting Capacity (Hand-held)	8mm	8mm
Max Cutting Capacity (Hand-held)	16mm	16mm
Dimension (LxWxH)	410X185X310mm	410X185X310mm
Weight (KG)	12KG	12KG

## General View of Control Panel



### Control Panel Parameter Values

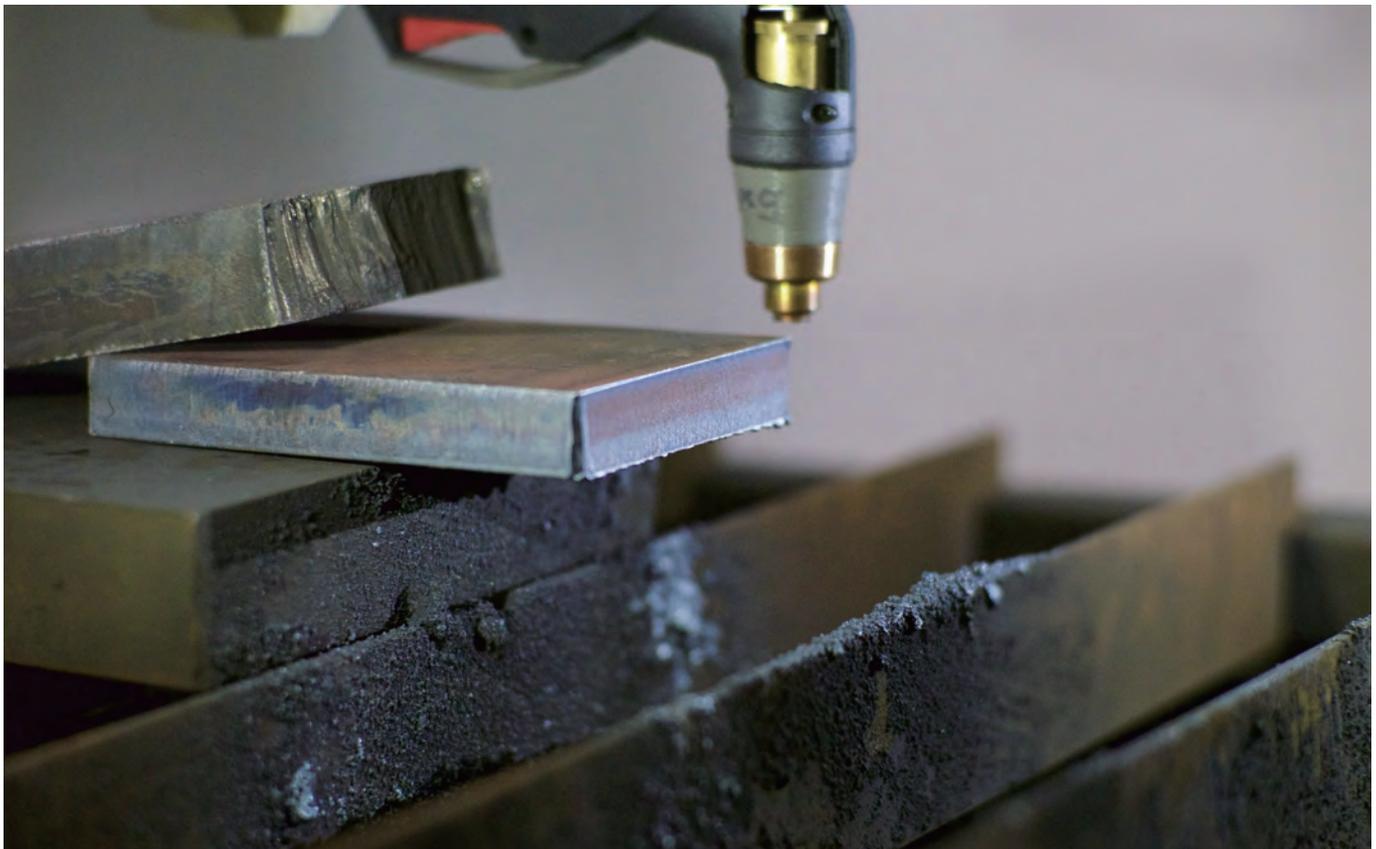
1. Ammeter/Voltmeter Display  
2. Encoder Control

3. Gas supply problem  
4. Over heat/Over loading  
5. Power LED

## CUTTING CAPACITY

Capacity	Thickness
	Cutting
Quality Cutting Capacity (Hand-held)	8mm
Max Cutting Capacity (Hand-held)	16mm

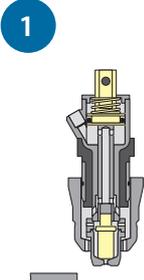
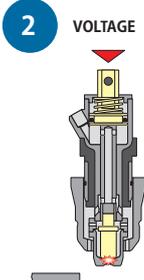
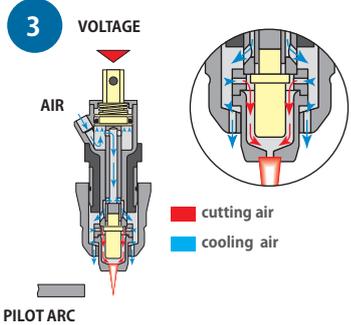
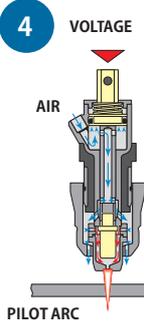
## CUT PERFORMANCE



Video: <https://www.youtube.com/watch?v=zAxVfWPAdb0>

# Non-HF Arc Ignition system

torches with pilot arc cut in without high frequency.

			
<p>Torch off.</p>	<p>By pressing the trigger the torch will be fed by the current thus causing a temporary short circuit between electrode and tip.</p>	<p>The air then pushes up the small piston, thus creating, between the electrode and the tip, the distance needed to strike the pilot arc.</p>	<p>By positioning the torch on the part to be cut, the plasma arc will strike.</p>

Less electromagnetic disturbance, with consequent absence of problems for any electronic, radio, television, telephone and computer systems in the vicinity of the cutting positions.  
 Less electric stress on the torch - and on the respective connecting cables - due to the absence of the high voltage necessary for striking the arc  
 Greater simplicity in comparison with other torches (without high frequency) on the market, with a consequent decrease of the risks of jamming in the mechanical pneumatic movement for striking the arc. Subject to wear (electrode, tips, nozzles, diffusers etc.), thanks to the better cooling of the torch obtained by reducing the insulating thicknesses (without endangering the safety parameters)



## Accessories

### For Standard accessories



**PLASMA torch: HTM50-CB**  
 Current: 50 Amp  
 Duty Cycle: 60%  
 Gas: AIR  
 Gas Pressure: 4.5-5.0 Bar  
 Gas Flow: 120 LPM  
 Ignition: HF  
 Post Flow: 50 sec.recommended  
 Standard Length: 6M



**Earth clamp**

### For Optional accessories



**PLASMA torch: Trafimet S45**  
 Voltage class: M  
 Standard Length: 6M  
 Air consumption: 115 l/min  
 Air pressure: 5 bar  
 Duty Cycle 60%: 40A  
 Air pressure switch:  $\geq 3.5$  bar  
 Ignition: Without HF



**PLASMA torch: PT40**  
 Current: 40 Amp  
 Duty Cycle: 60%  
 Gas: AIR/N2  
 Gas Pressure: 4.5-5.0 Bar  
 Gas Flow: 100 LPM  
 Ignition: Without HF  
 Post Flow: 35 sec.recommended  
 Standard Length: 6M