

CUT-100HD



Quick Specs



Industrial Application:

Home workshops
Metal workshops
Light fabrication
Repair and maintenance

For These materials:

Mild Steel
Brass
Stainless Steel
Copper
Aluminum
Processes: Plasma cutting

Input Power: 400V, 3-Phase

Amperage Range:

100HD: 20-100A

Rated Output at 40°C (104°F):

100HD: 100A at 130V @60% Duty Cycle

Weight: 45KG

The heavy duty plasma cutting power source

The **CUT-100HD** plasma is the largest air cooled manual system in the range. Selected with built-in CNC port it is a perfect plasma cutting power source for CNC cutting system.

The heavy duty inverter system with a duty cycle of 60% in a 40°C ambient with 100AMP output, is specifically designed for a high level applications requiring superior endurance and cutting performance,

HF or Non-HF pilot arc start system can be easily switched.

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:** 80A @60%, 100A@60%.
- Recommended 20mm quality cut capacity (0.5 m/min, with optional torch).
- **2T(STD)/4T(HOLD) control mode**
- **Generator power supply friendly.**



Outstanding Quality:

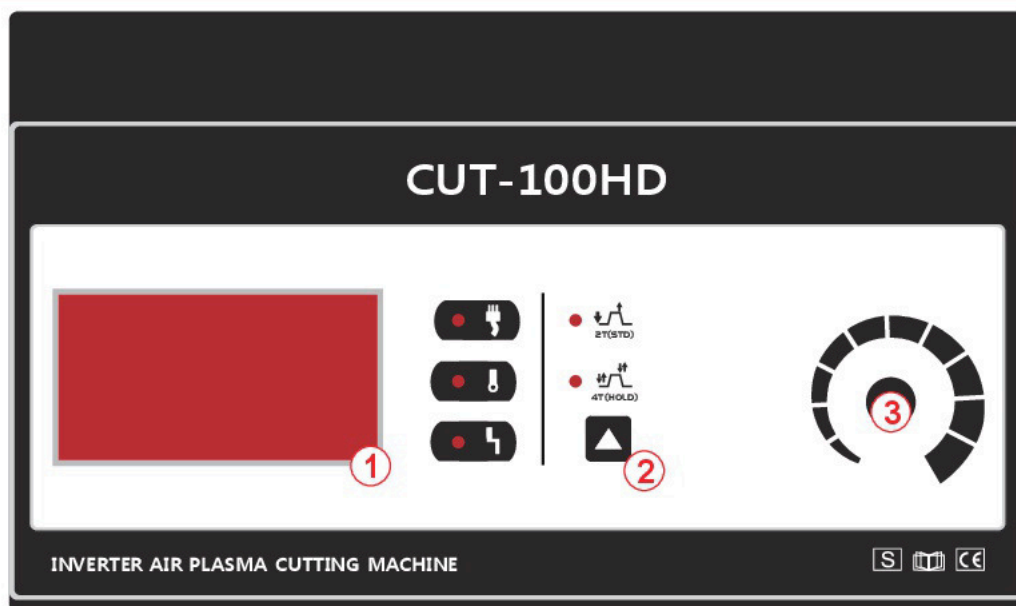
- Newly designed using the latest power electronic technology for improved reliability.
- CE Certified.
- One-Year Warranty on parts.

Technical specifications

Item No	CUT-100HD
Rated Input Voltage	3PH ~ 400V ±15%
Max. Load Power Capacity	17.99KVA
Rated Duty Cycle(40°C) 60%	100A/130V
100%	80A/120V
Welding Current/Voltage Range	20A/90V~100A/130V
Open Circuit Voltage	425V
Power Factor	0.85
Efficiency	85%
Required Air Pressure	0.3~0.5MPa
Gas Pro-flow/Retard Time	Preset
Cut Angle	3°
*Pierce	16mm
Quality Cutting Thickness(500mm/min)	30mm
Severance Cutting Thickness(125mm/min)	50mm
Dimension (LxWxH)	680X310X650mm
Weight (KG)	45KG

*Pierce rating for handheld use or with automatic torch height control

General View of Control Panel



Control Panel Parameter Values

1.Ammeter/Voltmeter Display

2.Mode 2T(STD)
4T(HOLD)

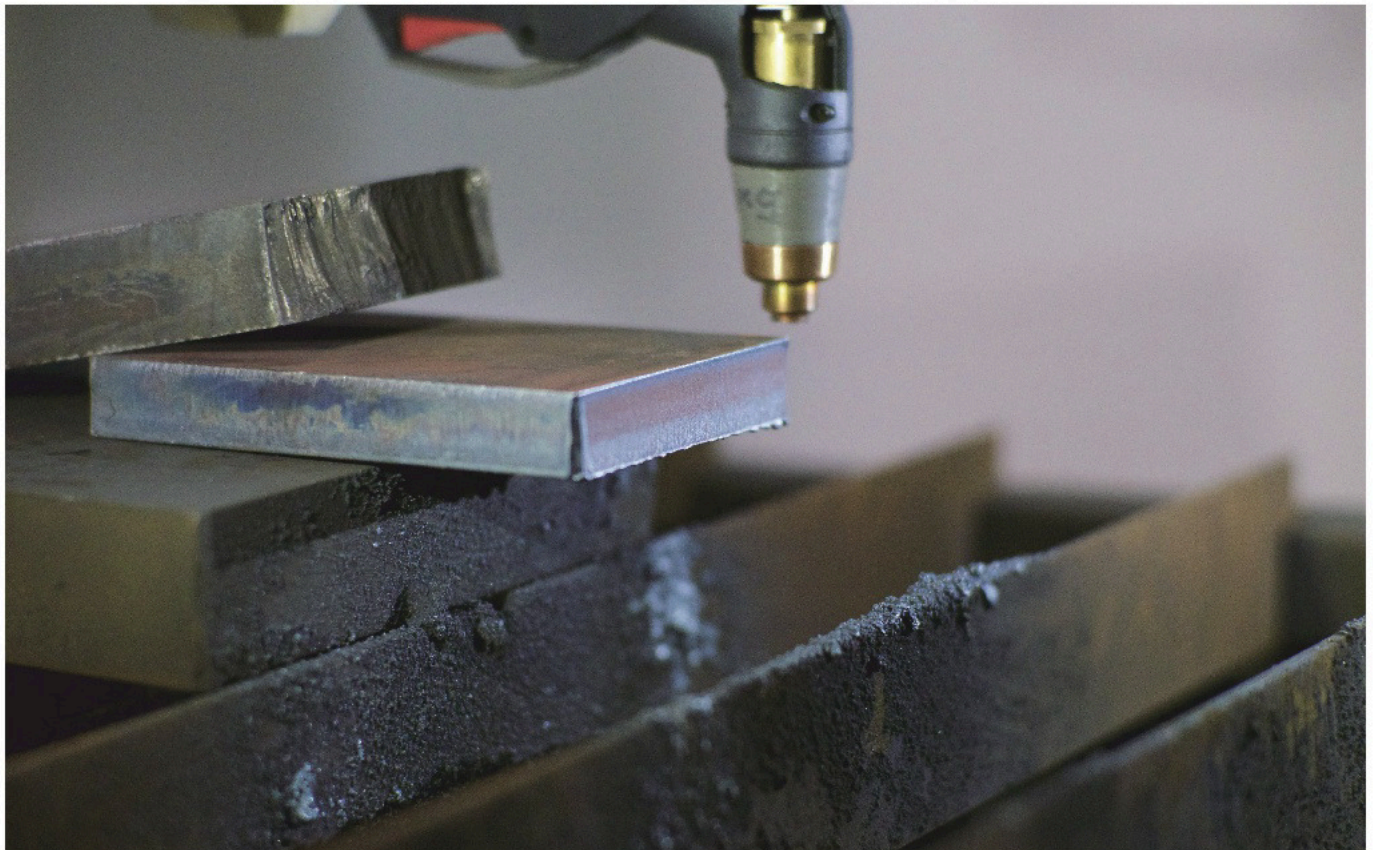
3.Encoder Control

Steel Cutting Capability (Thickness to scale.)

Capacity	Thickness
Quality Cutting Thickness(1000mm/min)	Cutting 20mm
Maximum Cutting Capacity	50mm
Pierce*	16mm(HF) / 18mm(Non-HF)

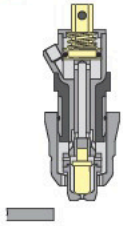
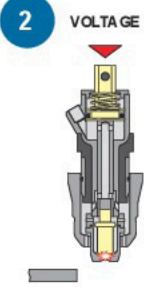
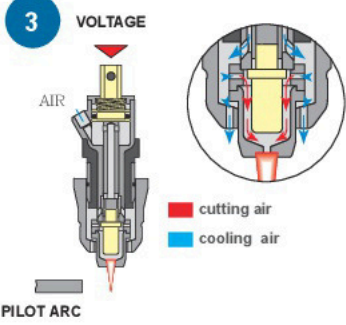
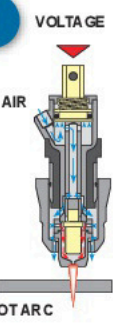
*Pierce rating for handheld use or with automatic torch height control

CUT PERFORMANCE



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: Trafimet A101

Voltage class: M
Standard Length: 6M
Air consumption: 180 l/min
Air pressure: 5 bar
Duty Cycle 60%: 100A
Duty Cycle 100%: 75A
Ignition: HF



PLASMA torch: Trafimet S105

Voltage class: M
Standard Length: 6M
Air consumption: 180 l/min
Air pressure: 5 bar
Duty Cycle 60%: 100A
Duty Cycle 100%: 70A
Ignition: Without HF

For Optional accessories



PLASMA torch: Trafimet A 141P

Voltage class: M
Standard Length: 6M
Air consumption: 210 l/min
Air pressure: 5 bar
Duty Cycle 60%: 140A
Duty Cycle 100%: 100A
Ignition: HF



PLASMA torch: Trafimet S 105P

Voltage class: M
Standard Length: 6M
Air consumption: 180 l/min
Air pressure: 5 bar
Duty Cycle 60%: 100A
Duty Cycle 100%: 70A
Ignition: Without HF