

CUT-100HD/130HD



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/130HD: 20-130A

Rated Output at 40°C (104°F):

100HD: 100A at 130V @60% Duty Cycle
130HD: 130A at 145V @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.

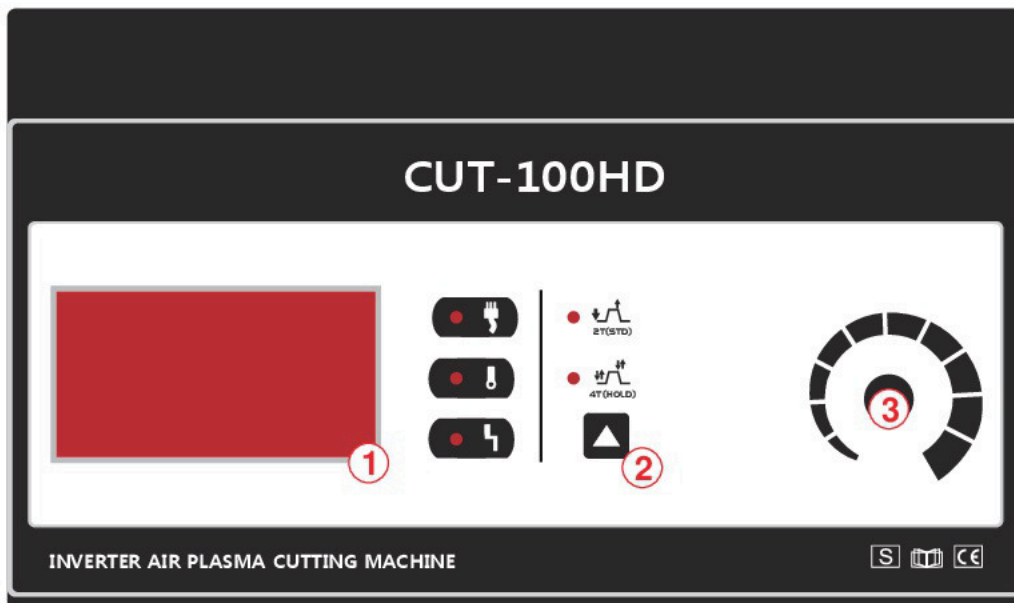


Technical specifications

Item No	CUT-100HD	CUT-130HD
Rated Input Voltage	3PH ~ 400V ±15%	3PH ~ 400V ±15%
Max. Load Power Capacity	17.99KVA	26.09KVA
Rated Duty Cycle(40°C) 60%	100A/130V	130A/145V
100%	80A/120V	100A/130V
Welding Current/Voltage Range	20A/90V~100A/130V	20A/90V~130A/145V
Open Circuit Voltage	390V	390V
Power Factor	0.85	0.85
Efficiency	85%	85%
Required Air Pressure	0.3~0.5MPa	0.3~0.5MPa
Gas Pro-flow/Retard Time	Preset	Preset
Cut Angle	3°	3°
*Pierce	16mm	18mm
Quality Cutting Thickness(500mm/min)	30mm	36mm
Severance Cutting Thickness(125mm/min)	50mm	57mm
Dimension (LxWxH)	680X310X650mm	680X310X650mm
Weight (KG)	45KG	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.)

CUT-100HD

Capacity	Thickness	Cut speed
	Cutting	
Recommended	20mm(CNC)	1350mm/min
	30mm	500mm/min
	40mm	250mm/min
Severance (hand cutting)	50mm	125mm/min
Pierce*	16mm(HF) / 18mm(Non-HF)	

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

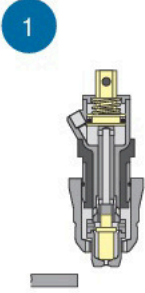
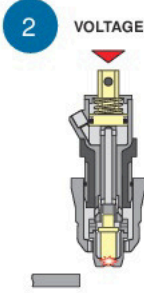
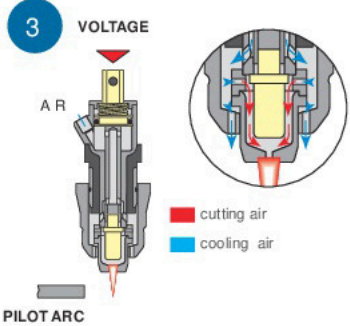
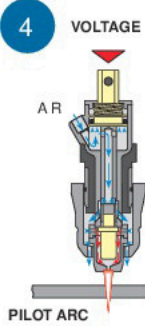
CUT-130HD

Capacity	Thickness	Cut speed
	Cutting	
Recommended	22mm(CNC)	1350mm/min
	36mm	500mm/min
	42mm	250mm/min
	57mm	125mm/min
Severance (hand cutting)	57mm	125mm/min
Pierce*	18mm	

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

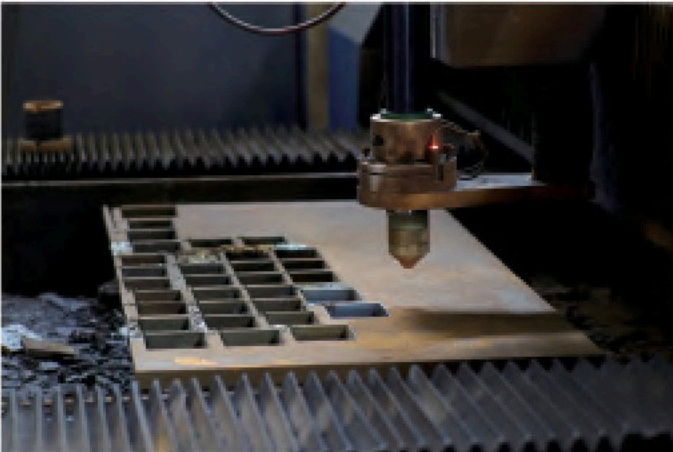
Non-HF Arc Ignition system

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)



Maximum productivity

- Finish jobs faster with cut speeds three times greater than oxyfuel on 12 mm mild steel.
- Spend less time on grinding and edge preparation due to superior cut quality.

Easy-to-use with versatile design

- Powerful design provides exceptional portability for a 30mm rated cutting system.
- HF type or Non-HF type available:
Starts without high-frequency so it will not interfere with or damage controls or computers.
- Pilot Arc makes it easy to use – even for first time operators.

Low operating costs

- Reduce costs with long consumable life and more uptime

Rugged and reliable

- TOPWELL Certified reliability ensures performance in the most demanding environment.
- Powercool design cools internal components more effectively for long system life and improved uptime.



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

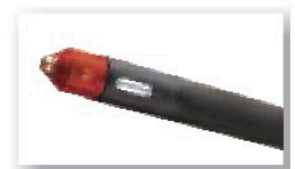


PLASMA torch: Trafimet S105
Voltage class: M
Standard Length: 6M
Air consumption: 180 l/min
Air pressure: 5 bar
Duty Cycle 60%: 100A
Duty Cycle 100%: 70A
Ignition: Without HF

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