

CUT-100H/130H



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:

100H: 30-100A/130H: 30-130A

Rated Output at 40°C (104°F):

100H: 100A@60% Duty Cycle

130H: 130A@60% Duty Cycle

Weight: 100H: 42kg/ 130H: 45kg

The heavy duty plasma cutting power source

The **CUT-100H** 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:

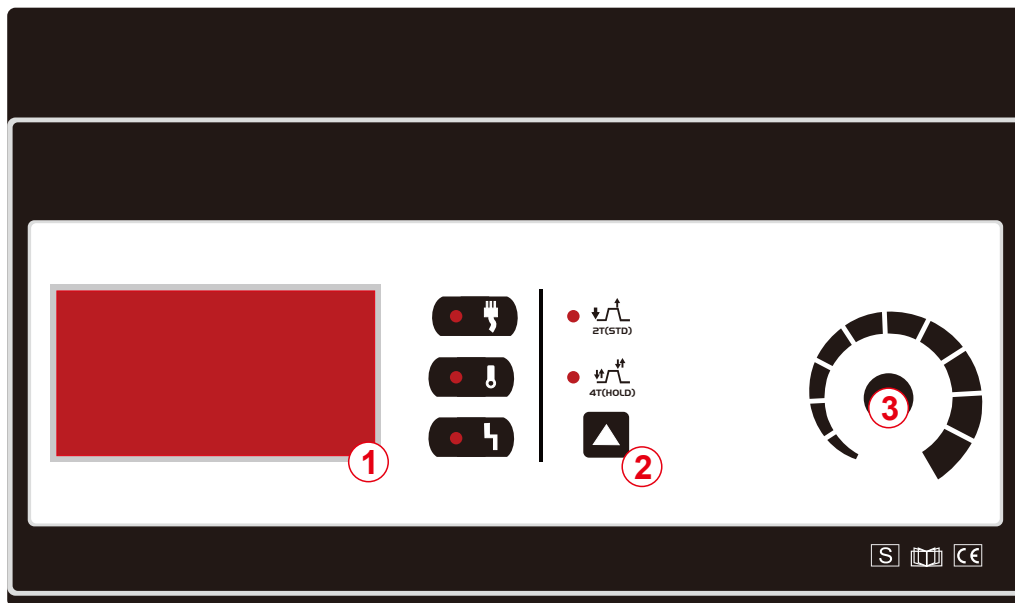
- Newly designed using the latest power electronic technology for improved reliability.
- CE Certified.
- One-Year Warranty on parts.



Technical specifications

Item No	CUT-100H	CUT-130H
Input voltages (±15%)	340-460V, 3-PH, 50-60Hz	340-460V, 3-PH, 50-60Hz
Max Input current	340/460V, 52/38A	340/460V, 76/56A
Output current	30-100A	30-130A
Rated output voltage	160V	170V
Duty cycle @ 40° C (104° F)	60% @100A	60% @130A
	100% @80A	100% @100A
Open circuit voltage (OCV)	350V	350V
Dimensions	680x310x650mm	680x310x650mm
Weight	42kg	45kg
Gas supply	Air (clean, dry and oil-free)	Air (clean, dry and oil-free)
Recommended gas inlet flow rate/pressure	0.4-0.6Mpa	0.4-0.6Mpa
Power supply type	Inverter-IGBT	Inverter-IGBT
Electrical efficiency	80%	80%
Max. Load Power Capacity	17.8KVA	26.1KVA
Certifications	CE, RoHS	CE, RoHS
Warranty	Power supply: 3-year	Power supply: 3-year
	Torch: 1-year	Torch: 1-year

General View of Control Panel



Control Panel Parameter Values

1.Ammeter/Voltmeter Display

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

3.Encoder Control

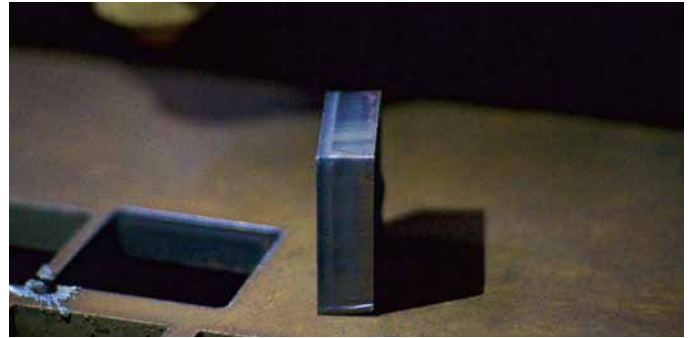
Steel Cutting Capability (Thickness to scale.)

CUT-100H

Capacity	Thickness
	Cutting
Quality Cutting Capacity (Hand-held)	20mm
Max Cutting Capacity (Hand-held)	45mm

CUT-130H

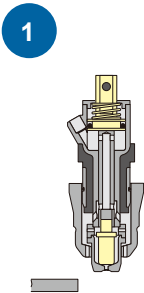
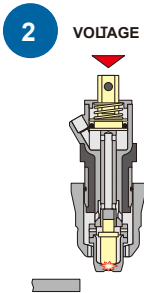
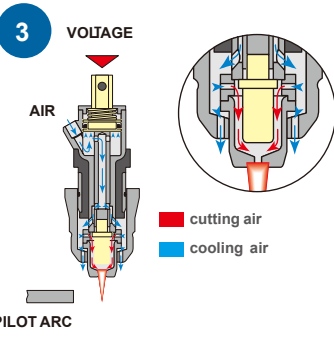
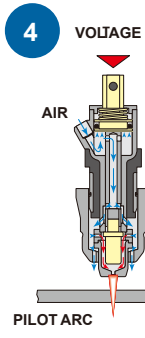
Capacity	Thickness
	Cutting
Quality Cutting Capacity (Hand-held)	30mm
Max Cutting Capacity (Hand-held)	60mm



Video: https://www.youtube.com/watch?v=wstpzUt_ELM

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 Hand



PLASMA torch: Trafimet A101

Current: 30-100A
Duty Cycle: 60%
Gas: Air
Gas Pressure: 4.5-5.0 bar
Gas Flow: 180L/min
Ignition: HF



PLASMA torch: Trafimet S151

Current: 150A
Duty Cycle: 60%
Gas: Air/N₂
Gas Pressure: 4.6-5.0 bar
Gas Flow: 230L/min
Ignition: Without HF

For CNC



PLASMA torch: Powermax 105

Current: 30-105A
Duty Cycle: 105A @ 80%
Recommended gas inlet flow rate/pressure:
Cutting: 217 l/min @ 5.9 bar
Gouging: 227 l/min @ 4.8 bar