

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: 30-100A/130HD: 30-130A

Rated Output at 40°C (104°F):

100HD: 100A@100% Duty Cycle

130HD: 130A@100% 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 100% 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: 100A@100%, 130A@100%.**
- Recommended 20mm quality cut capacity (0.5 m/min, with optional torch).
- **2T(STD)/4T(HOLD) control mode**
- **Generator power supply friendly.**



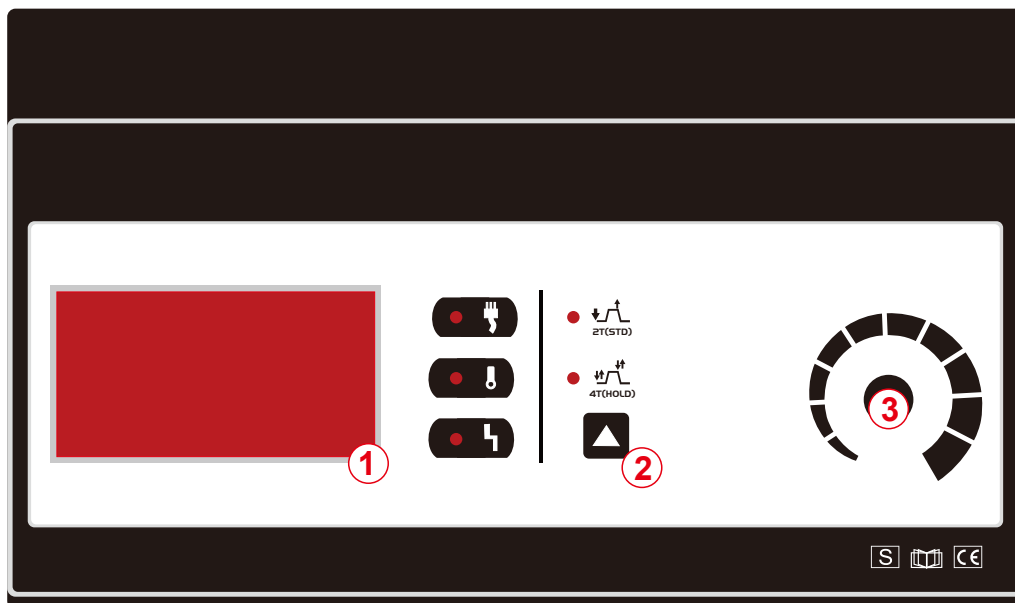
Outstanding Quality:

- 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
Input voltages ($\pm 15\%$)	340-460V, 3-PH, 50-60Hz	340-460V, 3-PH, 50-60Hz
Max Input current	340/460V, 60/44A	340/460V, 90/66A
Output current	30-100A	30-130A
Rated output voltage	160V	170V
Duty cycle @ 40° C (104° F)	100%@100A	100% @130A
Open circuit voltage (OCV)	350V	350V
Dimensions	680x310x650mm	680x310x650mm
Weight	45kg	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	85%	85%
Max. Load Power Capacity	20.5KVA	30.6KVA
Certifications	CE, RoHS	CE, RoHS
Warranty	Power supply: 3-year Torch: 1-year	Power supply: 3-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-100HD

Mild Steel Cut Capacity	
Production Pierce	18mm
Maximum Cutting Capacity (Hand-held)	50mm

Stainless Steel Cut Capacity	
Production Pierce	12mm
Maximum Cutting Capacity (Hand-held)	33mm

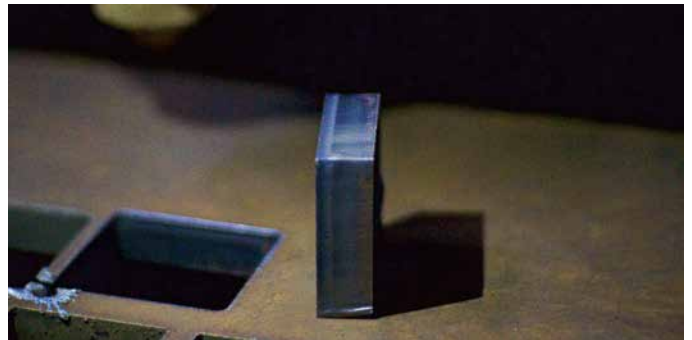
Aluminum Cut Capacity	
Production Pierce	12mm
Maximum Cutting Capacity (Hand-held)	33mm

CUT-130HD

Mild Steel Cut Capacity	
Production Pierce	22mm
Maximum Cutting Capacity (Hand-held)	60mm

Stainless Steel Cut Capacity	
Production Pierce	14mm
Maximum Cutting Capacity (Hand-held)	40mm

Aluminum Cut Capacity	
Production Pierce	14mm
Maximum Cutting Capacity (Hand-held)	40mm



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

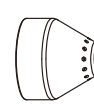
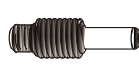
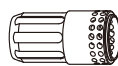
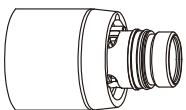
Rugged and reliable

- 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

PLASMA torch: Powermax 105



Swirl ring

Electrode

Nozzle

Retaining cap

Shield