# **CUT-100HD/130HD**

**Industrial Application:** 

Repair and maintenance

Home workshops

Metal workshops

Light fabrication



#### 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.

For These materials:

Processes: Plasma cutting

Mild Steel

Stainless Steel

Brass

Copper

Aluminum

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

Quick

**Specs** 

CE

- 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.





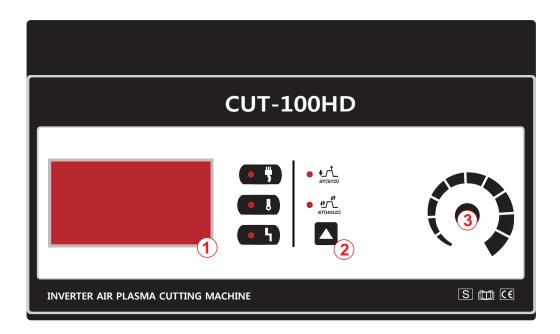
1

## **Technical specifications**

tem No	CUT-100HD	CUT-130HD
Rated Input Voltage	3PH ~ 400V ±15%	3PH ~ 400V ±15%
Max. Load Power Capacity	20.5KVA	30.6KVA
Rated Output Current	30-100A	30-130A
Rated Output Voltage	140V	160V
Rated Open-circuit Voltage	350V	350V
Rated Duty Cycle (40°C, 105°F)	100% @100A	100% 130A
Power Factor	0.8	0.8
Efficiency	85%	85%
Required Air Pressure	0.4~0.6MPa	0.4~0.6MPa
Quality Cutting Capacity (Hand-held)	20mm	30mm
Max Cutting Capacity (Hand-held)	50mm	60mm
Pierce Capacity (with mechanical THC)	25mm	30mm
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)

2T(STD) 4T(HOLD) 3.Encoder Control



## Steel Cutting Capability (Thickness to scale.)

#### CUT-100HD

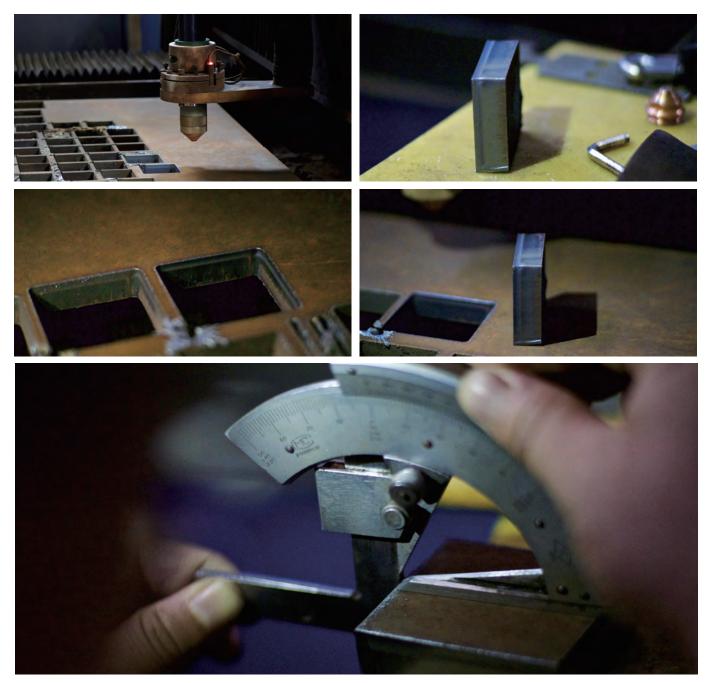
Capacity	Thickness
	Cutting
Quality Cutting Capacity (Hand-held)	20mm
Max Cutting Capacity (Hand-held)	50mm
Pierce Capacity (with mechanical THC)	18mm

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

#### CUT-130HD

Capacity	Thickness	
	Cutting	
Quality Cutting Capacity (Hand-held)	30mm	
Max Cutting Capacity (Hand-held)	60mm	
Pierce Capacity (with mechanical THC)	22mm	
*Discussion of the free based balance and the second strength in the balance based of the		

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



Video:https://youtu.be/79WB9SiYzUY



#### **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: STM-120 Current : 40-120 Amps Duty Cycle: 120 Amps 60% Gas: Air/N2 Gas Pressure: 72-87 PSI (5.0-6.0 bar) Gas Flow: 630 SCFH (295 lpm) Pilot : Electrode to Tip (18-22A) Ignition: Without HF Cooling: gas cooling



PLASMA torch: FineCUT-160A Current: 50-160A Duty Cycle: 160A @100% Gas: Air/N2 Gas Pressure: 4.5-5.0 bar Gas Flow: 300L/min Max Pierce: 25mm Ignition: HF Cooling: Water-cooling



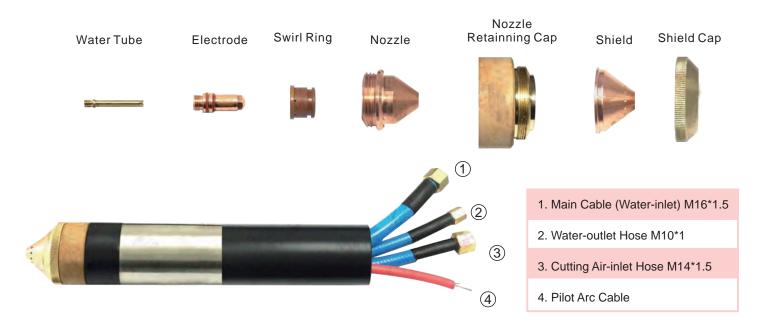
Water Coolng Unit: WC-200 Operating Voltage: 230V 50/60Hz Rated Power: 260W Cooling Power: 1.5KW (1L/MIN) Maximum Pressure: 0.3MPA/60Hz Recimmended Cooling Liquid: 20%-40% ethanol/water Tank Volume: 6.5L



## PLASMA torch: STM-120



## **PLASMA torch: Fine-160A**





5