# 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: 20-100A/130H: 20-130A
**Rated Output at 40°C (104°F):**
100H: 100A at 130V @60% Duty Cycle
130H: 130A at 145V @60% Duty Cycle
**Weight:** 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.

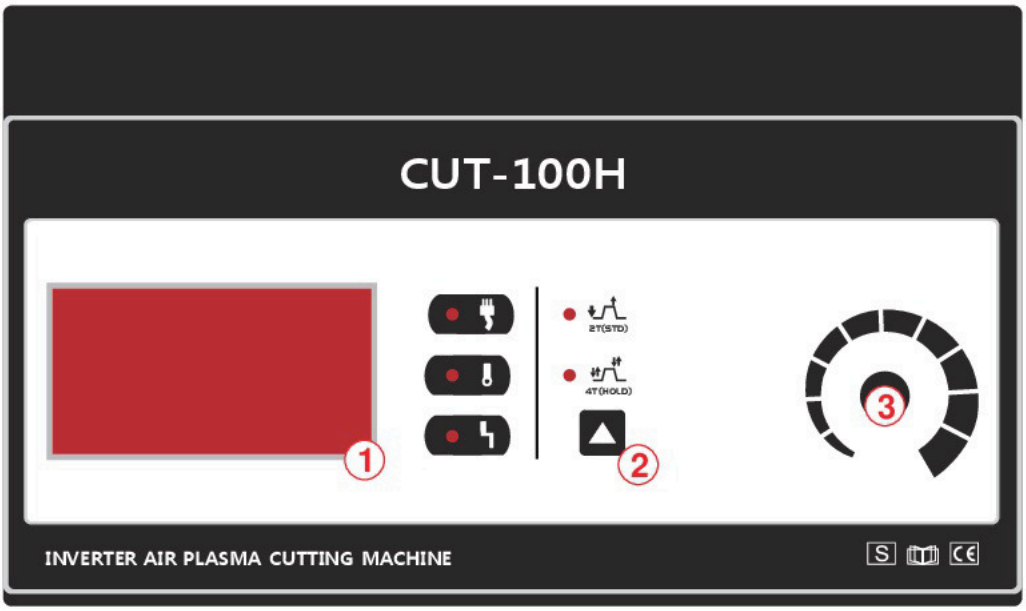
3 Phase CC

# Technical specifications

| Item No | CUT-100H | CUT-130H |
|---|---|---|
| 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-100H

| 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) | |

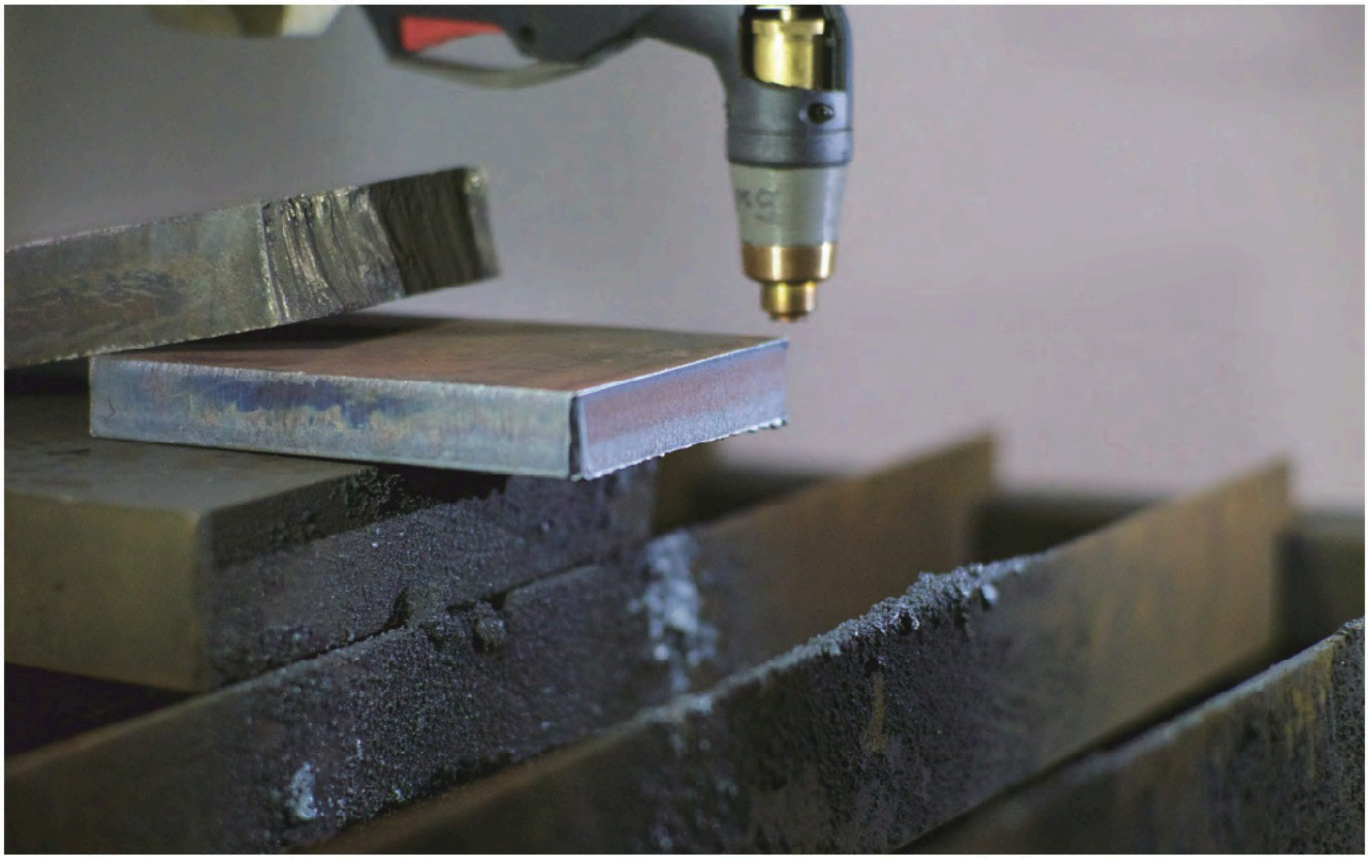
*Pierce rating for handheld use or with automatic torch height control

## CUT-130H

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

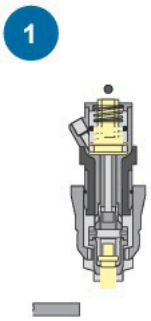
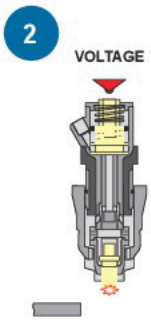
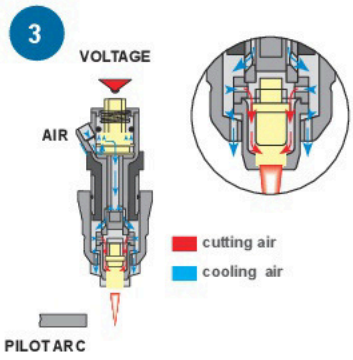
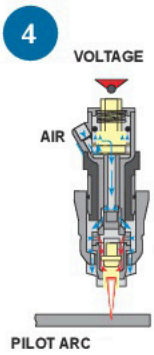
*Pierce rating for handheld use or with automatic torch height control

# CUT PERFORMANCE



# Non-HF Arc Ignition system

**torches with pilot arc cut in without high frequency.**

| | | | |
|---|---|---|---|
|  |  |  |  |
| Torch off. | By pressing the trigger the torch will be fed by the current thus causing a temporary short circuit betweenelectrode and tip. | The air then pushes up the small piston, thuscreating, between the electrode and the tip, the distance needed to strike the pilot arc. | By positioning the torch on the part to be cut, theplasma arc will strike. |

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)

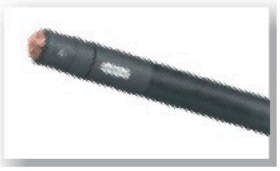
# Accessories

*For Standard accessories*

**PLASMA torch: Trafimet A101**
Voltage class: M
Standard Length: 6M
Air consumptiom: 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 consumptiom: 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 consumptiom: 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 consumptiom: 180 l/min
Air pressure: 5 bar
Duty Cycle 60%: 100A
Duty Cycle 100%: 70A
Ignition: Without HF