

# PLA-CUT 80P 100P 120P

## Digital Controlled Air Plasma Cutting Machine

Idea for Compact CNC Cutting Machine

High Cutting Speed

High Safety

High Duty Cycle

Low Operation Cost

Low Interference

Low Power Consumption

Gauge Function

Digital Controlled



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TAIWAN PLASMA CORP.

<http://www.plasma.com.tw>

# Digital Controlled Air Plasma Cutting Machine

## PLASMA Benefit VS Flame Cutting:

**Much Higher Productivity:** 3~5 times higher cutting speed, no pre-heat is required to cut conductive material. Piercing can be done in 1 second. (Piercing capacity depends on the plasma power supply unit.)

**Wider Material flexibility:** PLASMA is able to cut most all of the conductive material.

**Better Cutting Quality:** reduce or even eliminate second process after plasma cutting.

**Safer environment:** can only apply compressed air for plasma cutting. No dangerous gas is involved.

**Easier operation:** connect to power, gas supply and consumables everyone can achieve good cutting quality, no special expert is required.

## Advantage of PLA-CUT Series.

✓ Higher Cutting Speed: 9mm Mild Steel quality cut achieves 2000mm/min at 100A cutting current.

- High Duty Cycle: 100% duty cycle (@40°C up to 1 Hour). PLA-CUT 100P comes with CNC interface which is able to cooperate with CNC system or other automatic equipment.

✓ Better Consumable Life: while cutting thick plate, the inner tip is completely protected and its usage is also greatly increased.

- Safer Operation: there is no potential to assistant tips during cutting process, also there is no dangerous gas involved.
- The machine is operated with 40% of power saving and less noise compare to conventional machine.
- The machine is covered under a complete protection, which includes the trouble detections for gas pressure, temperature of machine, input voltage, over current, and ignition failure.

✓ Designed with the gouging function.

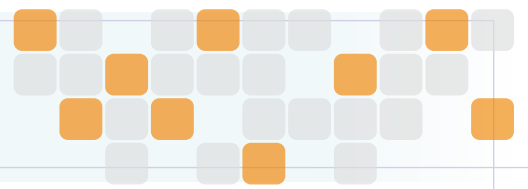
## Specification

Spec	Model	PLA-CUT 80P	PLA-CUT 100P	PLA-CUT 120P
Input Voltage		220Vac, 3P, 60Hz // 380Vac/415Vac, 3P 50/60Hz		
Max. Output Current		80A	100A	120A
Input Power		16.5 KVA	18 KVA	24 KVA
Open Circuit Voltage		310Vdc~340Vdc		
Duty Cycle (@40°C)		100% 1 Hr		
Power Supply Unit Size		52*36*67 cm	52*36*67 cm	63*37*72 cm
Power Supply Unit Weight		65 Kg	67 Kg	78 Kg
Plasma Gas		Compressed Air		
Input Gas Pressure		5.5~6.0 Bar		
Ignition Method		HF		
Torch Cooling Method		Forced Air		
Max. Recommend Cutting Thickness		<20mm	<25mm	<28mm
Severance Cut		40mm	50mm	55mm

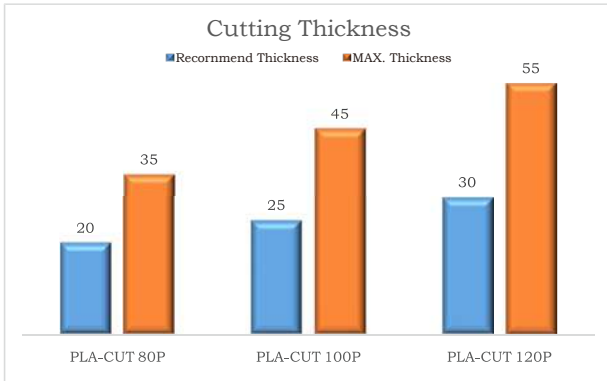
### Remark :

1. Duty cycle value is based on the ambient temperature less than 40°C @ full loading.
2. Our products are manufactured according to the least technology, we reserve all right for products improvement without further notice.
3. Different input voltage can be supplied on request.
4. Cut capacity value is based on Mild Steel and TPC's cutting height controller (AVC).

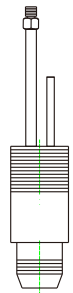
# Cutting Application



## Cutting Speed



## Torch



Electrode



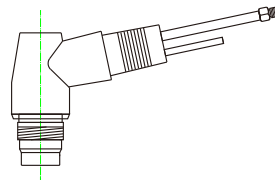
Tip



Bodyinsulator



Assistant Tip



Electrode



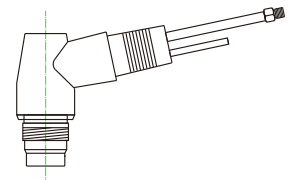
Tip



Bodyinsulator



Assistant Tip



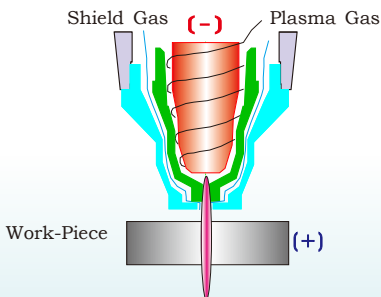
Electrode



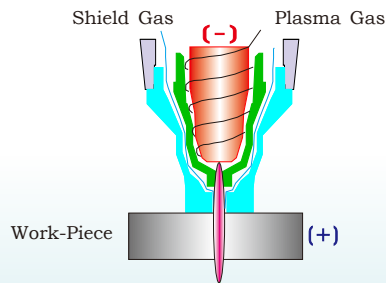
Tip



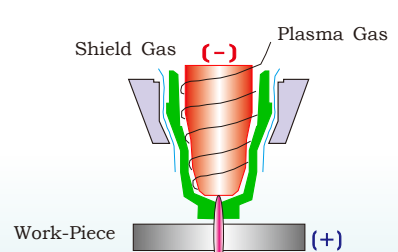
Shield Cap



Auto Cut (Double Tip)



Double Tip

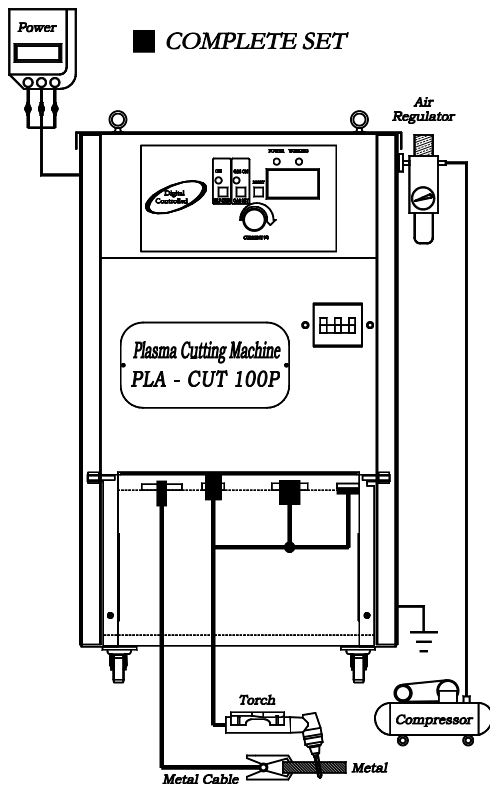


Single Tip



# Digital Controlled Air Plasma Cutting Machine

## Connection Drawing

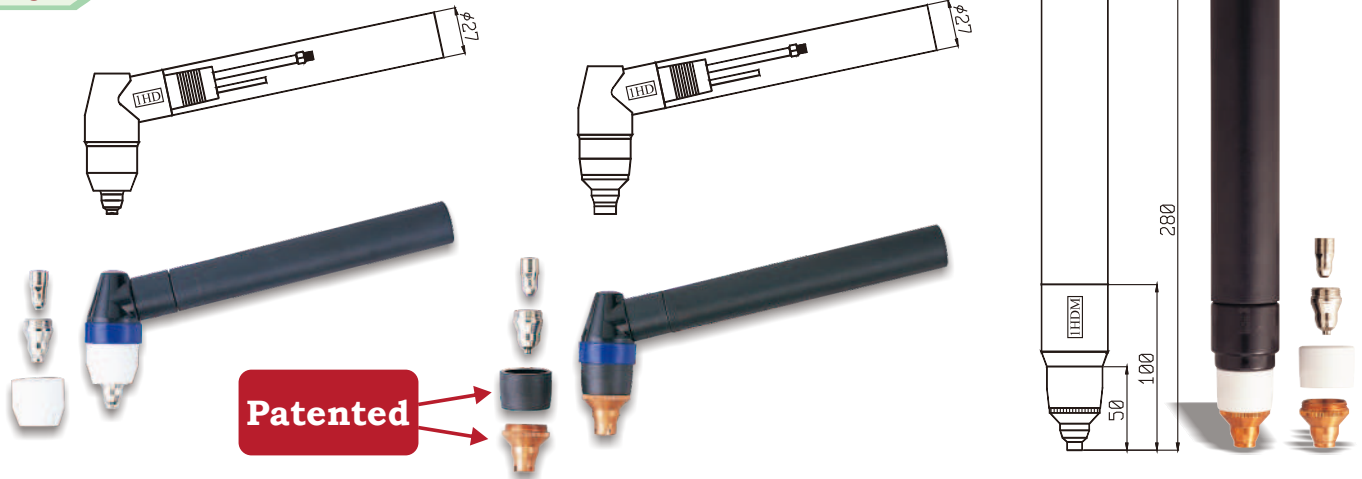


### Complete Set

#### Standard Attachment

Description	Qty
Manual Cutting Torch(8M)	1set
Metal Cable with Clamp	3M
Air Regulator	1pc
Electrode	5pcs
Tip	5pcs
Shielding Cap	1pc
Assistance Tip	2pcs

## Torch



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