



Easy Cutting

Cutting

Welding

PTA

Powder



80A	Recommend:<20mm Severance: 40mm
100A	Recommend:<25mm Severance: 50mm
120A	Recommend:<28mm Severance: 55mm

PLA-CUT 80e/100e/120e Economic Plasma Cutting Machine

80A/100A/120A Digital Controlled Air Plasma Cutting Machine



TAIWAN PLASMA CORP.

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

Digital Controlled Air Plasma Cutting Machine

Plasma Benefit against 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 can cut most all the conductive material.

■ Better Cutting Quality:

reduce or even eliminate secondary process (Grinding) after plasma cutting. Safer

■ Safe Environment:

Only apply compressed air for plasma cutting. No dangerous gas is involved.

■ Easy operation:

Connect to power, gas supply and consumables everyone can achieve good cutting quality, no special expert is required.

Advantage of PLA-CUT e series

■ Faster cutting Speed:

9mm Mild Steel quality cut achieves 2,000 mm/min at 100A cutting current.

■ 100 % Duty Cycle (1Hr @40°):

CNC machine interface is available as standard. Support CNC or other automated equipment for continuous operation.

■ Digital Readout:

current setting, display & error code easily visible in dark workshops environment.

■ Complete Protection:

over temperature, low gas pressure, input voltage, over current, ignition failure. Highly reliable design.

■ Safer Operation:

There is no potential to assistant tip during the cutting process which makes a safer operation.

■ Best Cooling Effect:

100% of compressed air is flowing through both inner and outer tips, which extends usage life of the torch.

■ Flexible Power Source:

Just change the torch & its consumables. You can switch between manual, robotic, gouging & CNC cutting application.

■ Gouging Capability:

Good for mechanised gouging for weld preparation & unwanted material removal.

■ Dual tip and Single tip modes are available for selection:

- Dual tip: provides faster cutting speed, better capacity, also assistance tip can protect spatter from workpiece to extend inner tip's life.
- Single tip: less consumable combination, reduce the consumables co.

Specification

Spec	Model	PLA-CUT 80e	PLA-CUT 100e	PLA-CUT 120e
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~320Vdc		
Duty Cycle (@40°C)		100%	100%	100%
Power Supply Unit Size		520*360*670mm		630*370*720mm
Power Supply Unit Weight		65 Kg	67 Kg	96 Kg
Plasma Gas		Compressed Air		
Input Gas Pressure		5.0~6.0 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 is value is based on the ambient temperature less than 40°C.

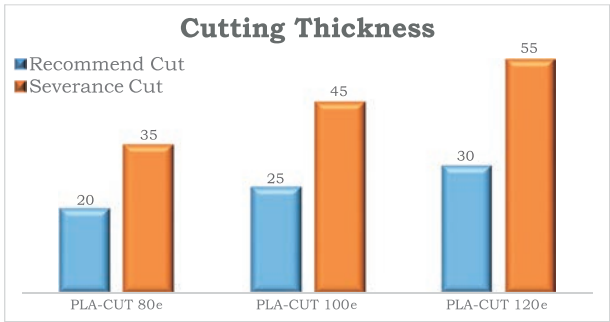
2.Products are manufactured according to the latest technology; we reserve all right for the products improvement without further notice.

3.Different input voltage can be supplied on request.

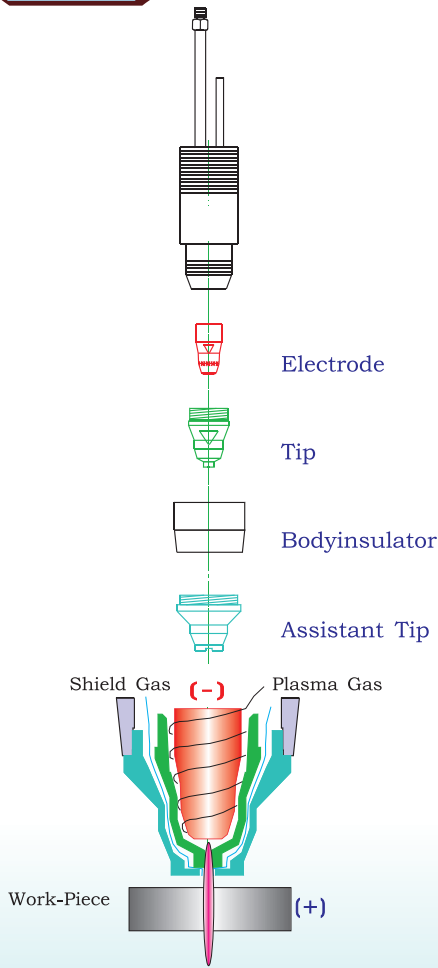
Cutting Application

Cutting Capacity

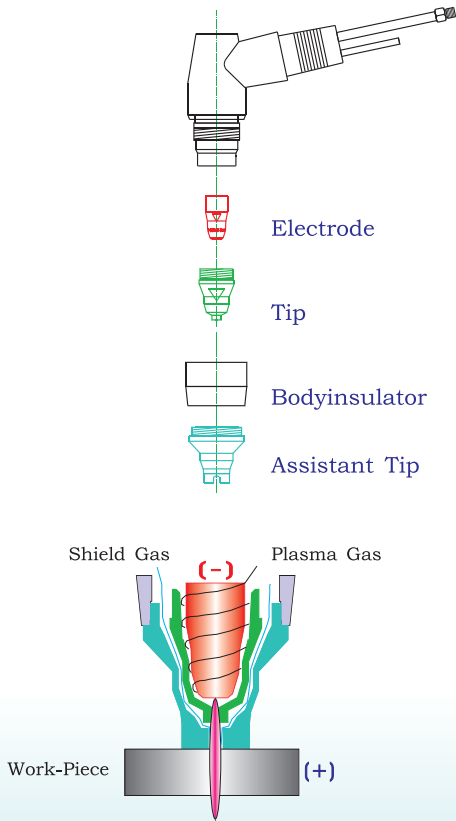
Cutting Capacity			
	PLA-CUT 80e	PLA-CUT 100e	PLA-CUT 120e
Recommend Cut	20	25	28
Severance Cut	40	50	55



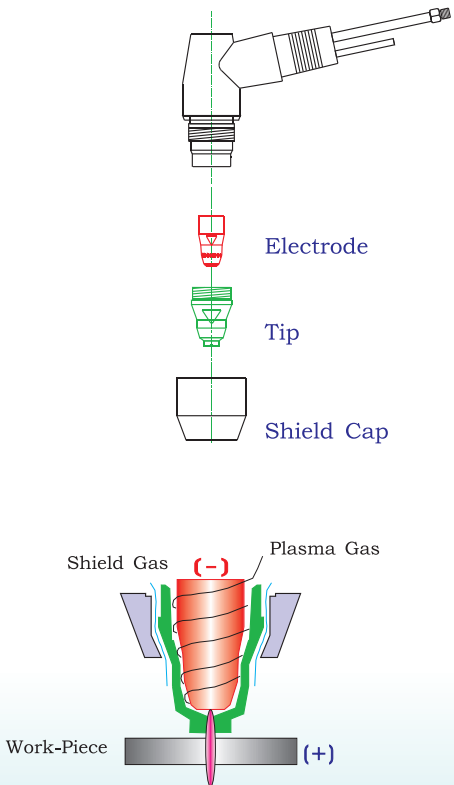
Torch



Auto Cut (Double Tip)



Double Tip



Single Tip



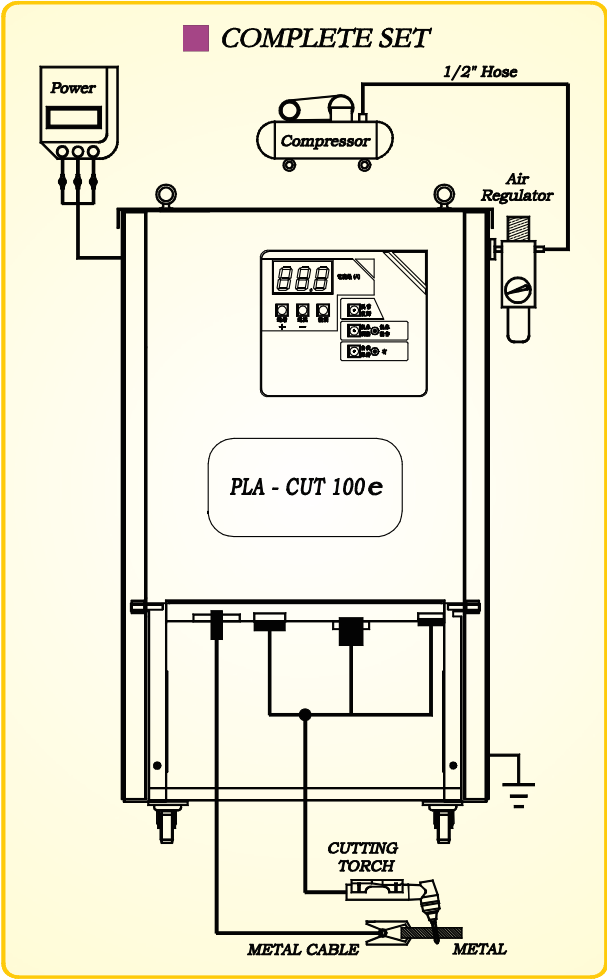
Cutting Speed

Cutting Speed					
Thickness (mm)	6	9	12	16	20
PLA-CUT 100e (mm/min)	3600	2000	1600	1100	650
Flame (mm/min)	700	650	590	550	510



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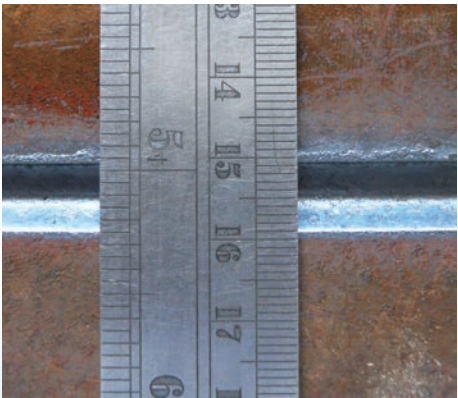
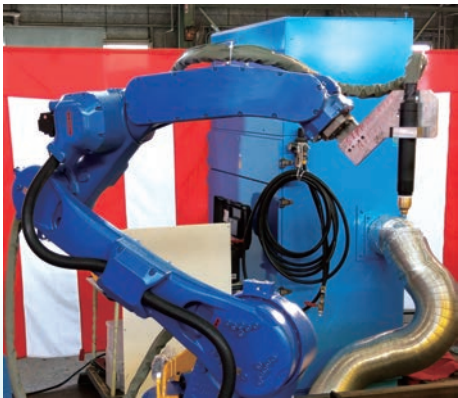
Connection Drawing



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



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