

Fully Digital Controlled Plasma Cutting Machine

AIRCUT 60/100



01. The cutting performance is significantly improved by full digital control technology.

02. High-quality cutting results can be effortlessly achieved by using the unique cutting navigation function.

03. The new arrival cutting torch offers you high accuracy operation and long use life.



RATED SPECIFICATION

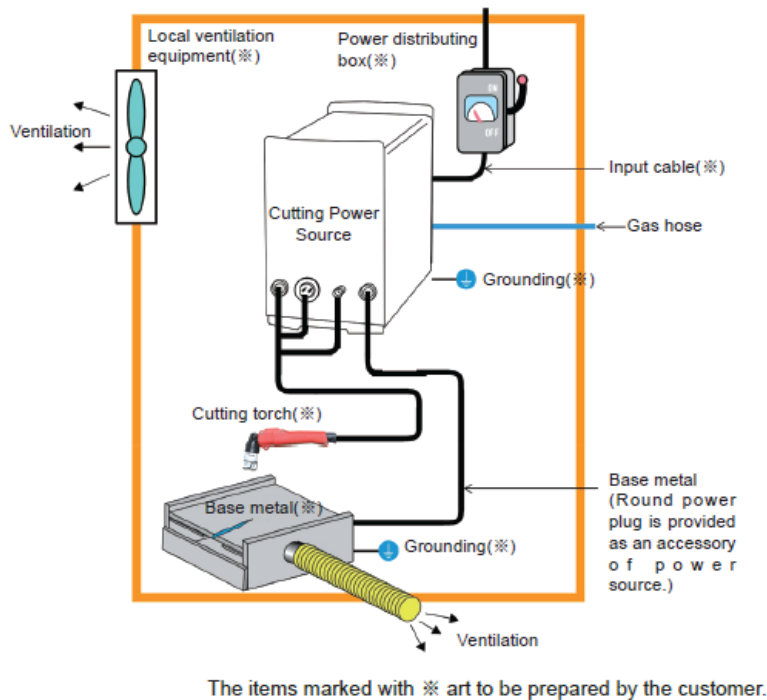
Type		AIRCUT 60	AIRCUT 100
Rated Input Voltage	V	AC380 (+-20%)	
No. of phases	-	3	
Rated Frequency	Hz	50/60	
Rated Input	kVA	9.81(Cutting)/11.32 (Gouging)	17.67(Cutting)/19.82(Gouging)
	kW	7.27 (Cutting)/8.48 (Gouging)	13.87(Cutting)/15.92 (Gouging)
Max. no-load voltage	V	295	300
Rated Output Current	A	60	100
Rated Output Voltage	V	104(Cutting)	120(Cutting)
		124(Gouging)	140(Gouging)
Rated duty cycle	%	100	60
Output current	A	15 ~ 60	15 ~ 100
Control Process	-	IGBT Inverter	
Power source cooling method	-	Forced cooling	
Enclosure protection class	-	IP21S	
Insulation grade	-	Main transformer 130°C(Reactor 180°C)	
Electromagnetic compatibility classification	-	A	
Dimension (W x D x H)	mm	290 X 606 X 559	
Weight	kg	43	48

*Note: The output ranges are tested on the conditions of residence load according to GB15579.1-2013.

POWER CAPACITY AND CONNECTING CABLES

Cutting Power Source		AIRCUT 60	AIRCUT 100
Input Power		AC 3 phase 380 V	
The power plant capacity	Grid power	Over 15 Kva	Over 25 kVA
	Generator	Over 11.32Kva Twice capacity	Over 19.82Kva Twice capacity
	Fuse	40 A	60 A
Input protection (Distributing Box)	Circuit breaker	60 A	
Electric Cable	Power input side	Over 6 mm ²	
	Power output side	Over 10 mm ²	Over 16 mm ²
	Ground	≥ The cross-section of the input cable	






Connection Diagram



Cutting Thickness

Thickness (mm)	60PF (mm)		60PF (mm)	
	Contact	Non - Contact	Contact	Non - Contact
Carbon Steel	12	36	12	40
Stainless Steel	12	35	12	40
Aluminum	10	20	10	30
Copper	5	8	6	10

Electrode & Cutting Nozzle

Short	Short cutting nozzle		UNT01110/UNT01310/ UNT01512/UNT06626
	Short electrode		UNT02033
Long	Long cutting nozzle		UNT01114/UNT01313/ UNT01513
	Long electrode		UNT0204
Gouging Nozzle			UNT02502 (for use with electrode UNT02033)

The cutting and piercing capacities for carbon steel

Model	Set cutting current	Recommended cutting thickness	Recommended piercing thickness (No-contact)
AIRCUT60	60A (Max.)	≤12mm	≤12mm
AIRCUT100	100A (Max.)	≤25mm	≤16mm

Safety Precautions: Before using any cutting product, always read the manual to ensure correct use.




FULLY DIGITAL CONTROLLED PLASMA CUTTING MACHINE

The cutting performance is further geared up: high arc start successful rate, fast cutting speed, high vertical and fine smoothness of cut surface, less slag adhering on the surface, and small deformation even for the thin plate.

AIR PLASMA ARC GOUGING

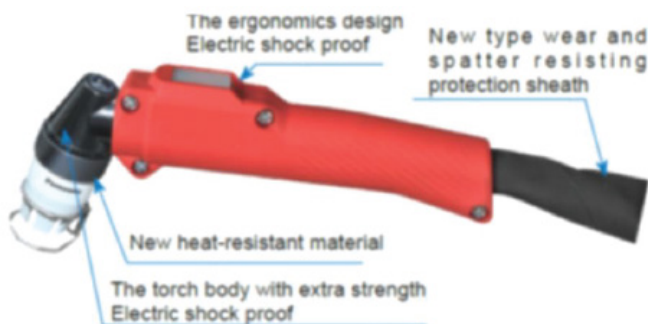
01. Compared with conventional arc air gouging, the noise level reduces over 10 dB and consumables fill can be saved.

02. Air plasma arc gouging can be easily realized by replacing the cutting nozzle with gouging nozzle.

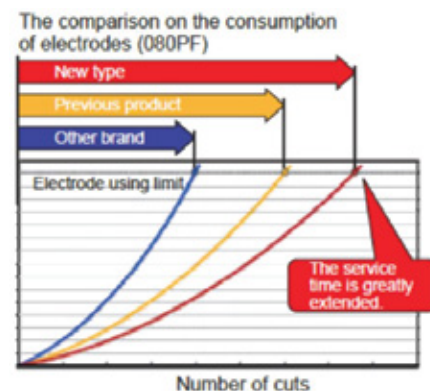
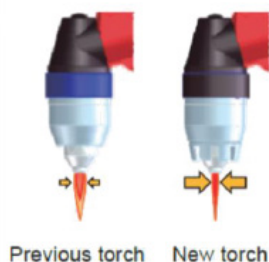
	Results	Width (mm)	Depth (mm)
Carbon Steel		10.4	5.3
Aluminium		9.0	4.4
Stainless steel		9.4	4.7

THE LONG-LASTING PLASMA ARC-CUTTING TORCH

01. Enhanced operability and durability



02. Higher precision cutting tip with prolonged life span



03. Equipped with Torch Protection Function. The output current of the machine can be limited within the rated cutting current specified on the panel

EASY-TO-OPERATE "CUTTING NAVIGATION FUNCTION"

The professional cutting parameter setting function makes more convenient, professional and personalized operations possible.



The optimal cutting conditions can be set with ease

The cutting navigation can be started by just pushing a button!

- 1) Material Selection Turn the dial to pick up material (Carbon steel/SUS/Aluminium)
- 2) Thickness Selection
- 3) Manual/Auto Selection

AIR PRESSURE MONITORING FUNCTION EQUIPPED



Digital control panel

- 1) Digital display for easy fine adjustment

The self-draining air filter is provided

- 2) Air pressure can be monitored when air pressure exceeds the recommended range, the machine prompts a warning message which the operator can control.

