Industrial Air Plasma Arc Cutting Machine

YAHONG TECHNOLOGY CO.,LTD





2010



Company Profile

YAHONG TECHNOLOGY CO.,LTD was established in 2010, Engaged in plasma cutting machine production for overseas export.

We focused on providing CNC Plasma and flame cutting machine, plasma power ,handheld fiber laser welding machine and so on. From here, you will be happy to get qualified machines and satisfying services. As a professional OEM company, our target is to turn your idea into a reality.

We are a young team with power, passion and dream. Your trust, suggestion, and satisfaction are our strong power. Anytime, we will meet your requirements with our professional knowledge.

2021



We hope to know you, no matter where you are.
We eager to help you, no matter what you need.
Service is just a start, Satisfaction is endless!
Believe us and choose YAHONG, that will be the best decision you made!

Certificates













Advantages:

- 1. The product is researched and developed with Northwestern Polytechnical University as the technical background, and has strong technical support. "Fine Plasma" is the focus of future technology sharing. The cutting gun adopts aerodynamic design.
- 2. Each model of product has a 2-year test and experiment process. The life of the product components is better than that of other domestic manufacturers, and the service life is 50% higher than that of similar products. The core components such as IGBT are imported components. With the same parameters, cutting torch, and cutting light cross-section, similar domestic products have better results. The circuit schematic diagram of the product learns the German plasma circuit wiring technology, so that the stability of the product is unprecedentedly guaranteed.
- 3. The overall arcing/electrophoresis signal of the machine has little interference to other electronic devices, and users can use it with confidence. Our company also has a zero-interference plasma machine for users to choose.
- 4. Life monitoring of cutting torch consumable parts to prevent the torch from burning due to electrode burnout.
- 5. Gas pressure and coolant flow display, detection, alarm, control.

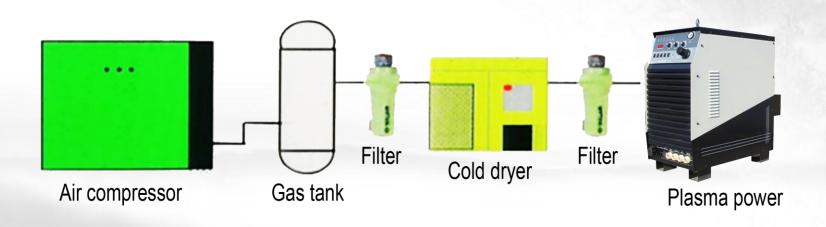
- 6. Independent setting of advance air supply, delayed air-off time and current ramp-up time.
- 7. Automatic protection for overheating and undervoltage.
- 8. Use smart fans to reduce dust accumulation in the machine.
- 9. Plasma water stop valve device to prevent the replacement of the electrode to spray water.
- 10. Optional: Mesh material cutting function, suitable for cutting various types of mesh workpieces.
- 11. Optional: Plasma cutting steel scribing function, steel surface (graphics, numbers, coding).
- 12. Optional: corner current control unit.

Application:

Mainly used for cutting various metal materials such as carbon steel, stainless steel, aluminum, and non-ferrous metals.

Widely used in the installation of industrial power stations, boilers and pressure vessels, metallurgy, petrochemical, aerospace, shipbuilding, engineering machinery, steel structure manufacturing and other industries that involve metal cutting

Schematic diagram of plasma external equipment connection



Electrode detection controller (torch guard) anti-burn torch protection

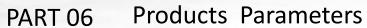






Instructions:

- 1. When using for the first time, please replace with a new electrode, and turn off the (detection switch), perform normal cutting, observe the value of (parameter display), this value will be set as the "new electrode setting value".
- 2. After stopping cutting, press (select key) to set the "new electrode setting value".
- 3. Next press (Select key) to set the "Electrode Consumption Depth". The value ranges from 2 to 7. There will be a certain gap according to the brand of torch. The larger the value set, the deeper the electrode consumption.
- 4. Press (Select key) again to set the "sensitivity". The approximate range is 2 to 8. The larger the setting, the lower the sensitivity.
- 5. Press (Select key) again to reset to the boot interface.
- 6. Finally, turn on the (detection switch) to start normal operation.







Specifications	YH-105A	YH-120A	YH-160A	YH-200A	YH-300A	YH-400A
standards of power supply	300~380v/50Hz ±10% 220v 3phase/50hz	300~380v/50Hz ±10%	300~380v/50Hz ±10%	300~380v/50Hz ±10%	300~380v/50Hz ±10%	300~380v/50Hz ±10%
Input power	18.4KVA	22.4KVA	32.2KVA	38 KVA	72KVA	95 KVA
Rated output current	105A	120A	160A	200A	300A	400A
Rated output voltage	123V	128V	140V	150V	170V	190V
Rated load durability	100%	100%	100%	100%	100%	100%
No-load voltage	300VDC	300VDC	315VDC	315VDC	380VDC	380VDC
Current regulation range	30~105A	30~120A	30~160A	40~200A	40~300A	40~400A
Input copper core wire cross- sectional area (mm²)	≥6²	≥6²	≥16²	≥16²	≥25²	≥35²
Fuse (A)	60	60	80	125	150	200
Switching capacity	60	63	80	125	150	200
Mass perforation thickness (Carbon steel)	0.3~16mm	0.3~18mm	0.3~20mm	0.3~25mm	0.3~35mm	0.3~45mm
Maximum perforation thickness (Carbon steel)	16mm	18mm	20mm	25mm	35mm	45mm
Use plasma gas	Compressed air	Compressed air	Compressed air	Compressed air	Compressed air	Compressed air
Working plasma gas pressure	0.4~0.6MPa	0.4~0.6MPa	0.4~0.6MPa	0.4~0.6MPa	0.4~0.6MPa	0.4~0.6MPa
Torch cooling method	Air cooling	Air cooling	Water cooling	Water cooling	Water cooling	Water cooling
Arc ignition method		N	on-contact ignition (Hig	h frequency arc ignitio	n)	
Insulation class		F (Grade)				
Shell protection level		IP21S				
Net weight	44kg	44kg	74kg	78kg	125kg	129 kg
Packing weight	47kg(Carton)	47kg(Carton)	89kg (Carton)	97kg(Carton)	145kg(Carton)	149kg((Carton)
Dimensions (mm) Long*Wide*High	680*340*585	680*340*585	785*385*770	785*385*770	890*430*875	890*430*875
Packing size(mm) Long*Wide*High	725*350*700	725*350*700	855*460*880	855*460*1000	1000*470*1100	1000*470*1100





Specifications	YH-60A	YH-60A	YH-200AH	MAX-105A	MAX-125A	MAX-151A
standards of power supply	300~380v/50Hz ±10%	200~220v/50Hz ±10%	300~380v/50Hz ±10%	300~380v/50Hz ±10%	300~380v/50Hz ±10%	300~380v/50Hz ±10%
Input power	11KVA	11KVA	46.5 KVA	18.4KVA	22.4KVA	32.2KVA
Rated output current	60A	60A	200A	105A	120A	151A
Rated output voltage	105.2V	105.2V	150V	123V	128V	138V
Rated load durability	100%	100%	100%	100%	100%	100%
No-load voltage	308VDC	200VDC	315VDC	300VDC	300VDC	315VDC
Current regulation range	30~60A	30~60A	40~200A	30~105A	30~120A	30~151A
Input copper core wire cross- sectional area (mm²)	≥6²	≥6²	≥16²	≥6²	≥6²	≥16²
Fuse (A)	40	60	125	60	60	80
Switching capacity	40	60	125	60	63	80
Mass perforation thickness (Carbon steel)	0.3~10mm	0.3~10mm	0.3~25mm	0.3~16mm	0.3~18mm	0.3~20mm
Maximum perforation thickness (Carbon steel)	12mm	12mm	25mm	16mm	18mm	20mm
Use plasma gas	Compressed air	Compressed air	Air/ Oxygen	Compressed air	Compressed air	Compressed air
Working plasma gas pressure	0.4~0.6MPa	0.4~0.6MPa	0.4~0.6MPa	0.4~0.6MPa	0.4~0.6MPa	0.4~0.6MPa
Torch cooling method	Air cooling	Air cooling	Water cooling	Air cooling	Air cooling	Air cooling
Arc ignition method	Non-contact ignition	on (High frequency are	c ignition)	Non-contact ign	ition (low frequency ar	c ignition)
Insulation class	F (Grade)					
Shell protection level	IP21S					
Net weight	27kg	27kg	109 kg	49kg	49kg	74kg
Packing weight	30kg(Carton)	30kg(Carton)	129kg(Carton)	51kg(Carton)	51kg(Carton)	89kg(Carton)
Dimensions (mm) Long*Wide*High	590*260*480	590*260*480	785*385*770	680*340*585	680*340*585	785*385*770
Packing size(mm) Long*Wide*High	615*300*500	615*300*500	1000*470*1100	725*350*700	725*350*700	855*460*880

Plasma Power YH-400A + Refrigerating machine 1.5 HP

Model		YH-400A		
Cutting ability (Stainless steel)		High quality cutting	40mm (Cutting thickness)	
			40mm (Cutting thickness)	
		Maximum cutting	45mm(Cutting thickness)	
Cutting ability (carbon	steel)	High quality cutting	45mm (Cutting thickness)	
		Perforation cutting	45mm (Cutting thickness)	
		Maximum cutting	50mm(Cutting thickness)	
Cutting current		•	30A~400A	
Load persistence rate	!		100% (ambient temperature 40°)	
Cutting parameters(S	tainless steel) actual meas	surement	35mm (Cutting thickness) , 1000mm/min (Cutting speed)	
Cutting parameters(ca	arbon steel)) actual measu	35mm(Cutting thickness), 1200mm/min(Cutting speed)		
	Power supply		3~380V	
technical parameter	Rated power		95 KVA	
	No-load voltage		380V	
	Host weight		129 kg	
	Shape size		Long*Wide*High 890*430*875mm	
Product certification			3C CE	
Plasma gas			Air (no oil, no water) is recommended to connect as shown on the right	
Water chiller 1.5P (compressor refrigeration, constant temperature control)			Fine cutting torch 400A diameter 50mm 7 m cable	
Ground: ≥ 50 2 Power	cord: ≥ 35 ²		Equipped stop valve	
Packing size (wooder	case) Length * Width * H	eight	1000*470*1100mm	







Plasma Power YH-300A + Water Chiller

Model			YH-300A
Cutting ability (Stainless steel)		High quality cutting	30mm (Cutting thickness)
		Perforation cutting	30mm (Cutting thickness)
		Maximum cutting	40mm(Cutting thickness)
Cutting ability (carbon	steel)	High quality cutting	35mm (Cutting thickness)
		Perforation cutting	35mm (Cutting thickness)
		Maximum cutting	40mm(Cutting thickness)
Cutting current			30A~300A
Load persistence rate			100% (ambient temperature 40°)
Cutting parameters(S	tainless steel) actual r	measurement	30mm(Cutting thickness), 1000mm/min(Cutting speed)
Cutting parameters(ca	Cutting parameters(carbon steel)) actual measurement		30mm(Cutting thickness), 1200mm/min(Cutting speed)
	Power supply		3~380V
technical parameter	Rated power No-load voltage		72 KVA
			380V
	Host weight		125kg
	Shape size		Long*Wide*High 890*430*875mm
Product certification	•		3C CE
Plasma gas			Air (no oil, no water) is recommended to connect as shown on the right
Intelligent water chiller (Italian FOT water pump 160m head)			Fine cutting torch 300A diameter 50mm 7 m cable
Ground: ≥ 50 2 Power	cord: ≥ 25 ²		Equipped stop valve
Packing size (wooden	case) Length * Widt	h * Height	1000*470*1100mm





20L water cooler Head 160 m Italian FOT water pump 35KG Dimensions: 515*355*470

(mm)

Packing size: 720*380*520

(mm)





Water Pipe

Floctrodo

Swirl ring Nozzle

Big retaining cap shield cap small retaing cap

Plasma Power YH-200A + Water Chiller

Model			YH-200A
Cutting ability (Stainless steel)		High quality cutting	22mm (Cutting thickness)
		Perforation cutting	22mm (Cutting thickness)
		Maximum cutting	25mm(Cutting thickness)
Cutting ability (carbon	steel)	High quality cutting	25mm (Cutting thickness)
		Perforation cutting	25mm (Cutting thickness)
		Maximum cutting	30mm(Cutting thickness)
Cutting current		•	30A~200A
Load persistence rate			100% (ambient temperature 40°)
Cutting parameters(Stainless steel) actual measurement			25mm(Cutting thickness), 1000mm/min(Cutting speed)
Cutting parameters(ca	arbon steel)) actual mea	surement	25mm(Cutting thickness), 1200mm/min(Cutting speed)
	Power supply		3~380V
technical parameter	Rated power No-load voltage		38 KVA
			380V
	Host weight		74kg
	Shape size		Long*Wide*High 785*385*770mm
Product certification	· ·		3C CE
Plasma gas			Air (no oil, no water) is recommended to connect as shown on the right
Intelligent chiller 20L head 40m			water cutting torch
Ground: ≥35 ² Power cord: ≥16 ²			Equipped stop valve
Packing size (wooden	case) Length * Width *	Height	1000*470*1100mm





20L water cooler Head 40 mDimensions: 515*355*440 (mm)

Packing size: 720*380*520 (mm)

35KG



Plasma Power YH-160A + Water Chiller

Model			YH-160A
Cutting ability (Stainless steel)		High quality cutting	20mm (Cutting thickness)
		Perforation cutting	20mm (Cutting thickness)
		Maximum cutting	22mm(Cutting thickness)
Cutting ability (carbor	steel)	High quality cutting	22mm (Cutting thickness)
		Perforation cutting	22mm (Cutting thickness)
		Maximum cutting	25mm(Cutting thickness)
Cutting current		•	30A~160A
Load persistence rate)		100% (ambient temperature 40°)
Cutting parameters(S	tainless steel) actu	al measurement	20mm(Cutting thickness), 1000mm/min(Cutting speed)
Cutting parameters(carbon steel)) actual measurement		20mm(Cutting thickness), 1200mm/min(Cutting speed)	
	Power supply		3~380V
technical parameter	Rated power		32.2KVA
	No-load voltage		380V
	Host weight		110KG
	Shape size		Long*Wide*High 785*385*770mm
Product certification	•		3C CE
Plasma gas			Air (no oil, no water) is recommended to connect as shown on the right
Intelligent chiller 20L	head 40m		water cutting torch
Ground: ≥35 ² Power	cord: ≥16 ²		Equipped stop valve
Packing size (wooder	case) Length * W	/idth * Height	980*450*970mm





20L water cooler Head 40 m

Central Water Pipe

Dimensions: 515*355*440 (mm)
Packing size: 720*380*520 (mm)

35KG



Electrode

Plasma Power YH-120A

Model			YH-120A
Cutting ability (Stainless steel)		High quality cutting	18mm (Cutting thickness)
		Perforation cutting	18mm (Cutting thickness)
		Maximum cutting	20mm(Cutting thickness)
Cutting ability (carbon	steel)	High quality cutting	18mm (Cutting thickness)
		Perforation cutting	18mm (Cutting thickness)
		Maximum cutting	20mm(Cutting thickness)
Cutting current		<u> </u>	30A~120A
Load persistence rate)		100% (ambient temperature 40°)
Cutting parameters(S	tainless steel) ad	ctual measurement	20mm(Cutting thickness), 1000mm/min(Cutting speed)
Cutting parameters(ca	arbon steel)) acti	ual measurement	20mm(Cutting thickness), 1100mm/min (Cutting speed)
	Power supply		3~380V,50/60HZ
technical parameter	Rated power		21.9KW
	No-load voltag	ре	300V
	Host weight		44KG
	Shape size		Long*Wide*High 590*260*480mm
Product certification	!		3C CE
Plasma gas			Air (no oil, no water) is recommended to connect as shown on the right
Ground: ≥6 ²			Air cooling Torch with 7m cable
Packing size (wooder	n case) Length *	Width * Height	725*350*700mm







Plasma Power YH-105A

Model			YH-105A
Cutting ability (Stainless steel)		High quality cutting	16mm (Cutting thickness)
		Perforation cutting	16mm (Cutting thickness)
		Maximum cutting	18mm(Cutting thickness)
Cutting ability (carbon	steel)	High quality cutting	16mm (Cutting thickness)
		Perforation cutting	16mm (Cutting thickness)
		Maximum cutting	18mm(Cutting thickness)
Cutting current		· ·	30A~105A
Load persistence rate			100% (ambient temperature 40°)
Cutting parameters(S	tainless steel)	actual measurement	18mm(Cutting thickness), 1000mm/min(Cutting speed)
Cutting parameters(carbon steel)) actual measurement		ctual measurement	18mm(Cutting thickness), 1100mm/min(Cutting speed)
	Power supp	ly	3~380V, 50/60HZ (220v 3phase can be customized)
technical parameter	Rated power	er	18.4KW18
	No-load voltage		300V
	Host weight		49KG
	Shape size		Long*Wide*High 590*260*480mm
Product certification			3C CE
Plasma gas			Air (no oil, no water) is recommended to connect as shown on the right
Ground: ≥6 ²			Air cooling torch with 7m cable
Packing size (wooden	case) Length	n * Width * Height	725*350*700mm







Plasma Power YH-60A

Model			YH-60A
Cutting ability (Stainless steel)		High quality cutting	8mm (Cutting thickness)
		Perforation cutting	8mm (Cutting thickness)
		Maximum cutting	10mm(Cutting thickness)
Cutting ability (carbor	n steel)	High quality cutting	12mm (Cutting thickness)
		Perforation cutting	12mm (Cutting thickness)
		Maximum cutting	14mm(Cutting thickness)
Cutting current		•	30A~60A
Load persistence rate	9		100% (ambient temperature 40°)
Cutting parameters(S	Stainless stee	el) actual measurement	8mm(Cutting thickness), 900mm/minC
Cutting parameters(c	arbon steel)) actual measurement	10mm(Cutting thickness), 1200mm/min(Cutting thickness)
	Power su	pply	3~380V,
technical parameter	Rated po	wer	11KVA
	No-load voltage		380V 3phase / 220V (Single-phase power supply or 220v 3phase) Three supply voltage options
	Host weig	ıht	27KG
	Shape siz	ze	Long*Wide*High 590*260*480mm
Product certification			3C CE
Plasma gas			Air (no oil, no water) is recommended to connect as shown on the right
Ground: ≥6 ²			Air cooling torch with 7m cable
Packing size (wooder	n case) Len	gth * Width * Height	615*300*500mm







Plasma Power MAX-151A(low frequency arc ignition)

Model			MAX-151A	
Cutting ability (Stainless steel)		High quality cutting	20mm (Cutting thickness)	
			20mm (Cutting thickness)	
		Maximum cutting	22mm(Cutting thickness)	
Cutting ability (carbon	steel)	High quality cutting	22mm (Cutting thickness)	
		Perforation cutting	22mm (Cutting thickness)	
		Maximum cutting	25mm(Cutting thickness)	
Cutting current			30A~151A	
Load persistence rate)		100% (ambient temperature 40°)	
Cutting parameters(S	tainless steel)	actual measurement	20mm(Cutting thickness), 1000mm/min(Cutting speed)	
Cutting parameters(ca	Cutting parameters(carbon steel)) actual measurement		20mm((Cutting thickness),, 1100mm/min(Cutting speed)	
	Power supply		3~380V,50/60HZ	
technical parameter	Rated power	er	21.9KW	
	No-load vo	Itage	300V	
	Host weigh	t	49KG	
	Shape size		Long*Wide*High 590*260*480mm	
Product certification	Product certification		3C CE	
Plasma gas	Plasma gas		Air (no oil, no water) is recommended to connect as shown on the right	
Ground: ≥6 ²			125A torch with 7m cable	
Packing size (wooder	case) Lengt	h * Width * Height	725*350*700mm	

Plasma uses lowfrequency arc ignition, no electromagnetic wave release, no electromagnetic interference, suitable for any CNC cutting machine







Plasma Power MAX-125A(low frequency arc ignition)

Model			MAX-125A	
Cutting ability (Stainless steel)		High quality cutting	18mm (Cutting thickness)	
		Perforation cutting	18mm (Cutting thickness)	
		Maximum cutting	20mm(Cutting thickness)	
Cutting ability (carbon	steel)	High quality cutting	18mm (Cutting thickness)	
		Perforation cutting	18mm (Cutting thickness)	
		Maximum cutting	20mm(Cutting thickness)	
Cutting current			30A~125A	
Load persistence rate			100% (ambient temperature 40°)	
Cutting parameters(S	tainless steel)	actual measurement	20mm(Cutting thickness), 1000mm/min(Cutting speed)	
Cutting parameters(ca	arbon steel)) a	ctual measurement	20mm((Cutting thickness),, 1100mm/min(Cutting speed)	
	Power supply		3~380V,50/60HZ	
technical parameter	Rated power	r	21.9KW	
	No-load voltage		300V	
	Host weight		49KG	
	Shape size		Long*Wide*High 590*260*480mm	
Product certification	Product certification		3C CE	
Plasma gas			Air (no oil, no water) is recommended to connect as shown on the right	
Ground: ≥6 ²			125A torch with 7m cable	
Packing size (wooden	case) Length	n * Width * Height	725*350*700mm	

Plasma uses lowfrequency arc ignition, no electromagnetic wave release, no electromagnetic interference, suitable for any CNC cutting machine









Plasma Power MAX-105A(low frequency arc ignition)

Model			MAX-105A
Cutting ability (Stainle	ess steel)	High quality cutting	16mm (Cutting thickness)
			16mm (Cutting thickness)
		Maximum cutting	18mm(Cutting thickness)
Cutting ability (carbor	n steel)	High quality cutting	16mm (Cutting thickness)
		Perforation cutting	16mm (Cutting thickness)
		Maximum cutting	18mm(Cutting thickness)
Cutting current		l .	30A~105A
Load persistence rate	9		100% (ambient temperature 40°)
Cutting parameters(S	tainless steel)	actual measurement	18mm(Cutting thickness), 1000mm/min(Cutting speed)
Cutting parameters(c	Cutting parameters(carbon steel)) actual measurement		18mm(Cutting thickness), 1100mm/min(Cutting speed)
	Power supp	oly	3~380V,50/60HZ
technical parameter	Rated power	er	18.4KW
	No-load voltage		300V
	Host weight	t	49KG
	Shape size		Long*Wide*High 590*260*480mm
Product certification			3C CE
Plasma gas			Air (no oil, no water) is recommended to connect as shown on the right
Ground: ≥6 ²			105A Torch with 7m cable
Packing size (wooder	n case) Lengt	h * Width * Height	725*350*700mm

Plasma uses lowfrequency arc ignition, no electromagnetic wave release, no electromagnetic interference, suitable for any CNC cutting machine







Plasma Power YH-200AH(Pro) Built-in chiller / dual air source

Model			YH-200AH(pro)
Cutting ability (Stainless steel)		High quality cutting	22mm (Cutting thickness)
		Perforation cutting	22mm (Cutting thickness)
		Maximum cutting	25mm(Cutting thickness)
Cutting ability (carbon steel)		High quality cutting	25mm (Cutting thickness)
		Perforation cutting	25mm (Cutting thickness)
		Maximum cutting	30mm(Cutting thickness)
Cutting current			30A~200A
Load persistence rate			100% (ambient temperature 40°)
Cutting parameters(Stainless steel) actual measurement			Cutting thicknessCutting speed
Cutting parameters(carbon steel)) actual measurement			25mm(Uttingthickness), 1200mm/min(Cutting speed)
technical parameter	Power supply		3~380V,
	Rated power		38 KVA
	No-load voltage		380V
	Host weight		150KG
	Shape size		Long*Wide*High 785*385*770mm
Product certification			3C CE
Plasma gas			Air (no oil, no water) is recommended to connect as shown on the right
Mounting dimensions of host base			As shown on the right
Intelligent water chiller (Italian FOT water pump 160m head)			Fine cutting torch 200pro diameter 50mm 1.8 m cable
Ground: ≥35 ² Power cord: ≥16 ²			Equipped stop valve
Packing size (wooden case) Length * Width * Height			1000*470*1100mm



Split type and builtin water tank design, to avoid bad water circulation caused by too long torch cable, resulting in reduced cutting ability and torch burning.





PART 07 Our Service

- 1. Provide quality products to customers instantly.
- 2. Provide OEM service. If the quantity is large, the appearance of the product can be customized according to the customer's needs, and only provided to the customer, not displayed on our website.
- 3. Do promotional activities from time to time to assist customers in opening up the market.

Thank you so much.

YAHONG TECHNOLOGY CO.,LTD

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