

IMPORTANT:

For EMC series plasma cutting machine, GREATECH is looking for national or regional agents or distributors, any interests, please contact us. GREATECH fully protects the market, for countries or areas where there are already agents or distributors, you will be appreciated to contact them for our EMC products and services.



常州格莱蒂珂焊接技术有限公司  
CHANGZHOU GREATECH CO., LTD.

Address: #718, Yutiandasha, Hutang Town,  
Changzhou, China. 213161

Tel: +86-519-8119 5880/5881/5882

Fax: +86-519-8119 5882/5880

Email: info@greatchcn.com

Sole Agent or Distributor:



CHANGZHOU  
GREATECH CO., LTD.

# PLASMA POWER SOURCE

for CNC & Robot Cutting



Changzhou Greatech Co. Ltd. focuses on welding & cutting technology. EMC series of plasma cutting power sources are developed for CNC and robot application and aim at heavy industry and high quality market. HC series of torches are special designed for better, stable and reliable cutting. EMC and HC together can assist you to achieve excellent plasma cutting experience.

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## EMC-100

EMC-100 is high quality air cooling plasma power source for CNC cutting which has high pierce capability and can achieve high verticality. EMC-100 adopts the full-bridge soft-switching technology, current can be adjustable between 35A-100A steplessly, it can make cutting operation more controllable. It is heavy duty, 100% duty circle, and it has built in multi protections for over current, over voltage, over air-pressure, over temperature etc, allows you to work 24 hours continuously.



### Technical Parameters

Input Voltage	V	3x380(50Hz/60Hz) +/- 10%
Input Power	KVA	16
Cutting Current	A	35-100
Duty Circle	-	100A/100%
Cutting Thickness	mm	According to Material.
Pierce Thickness	mm	16
Quality Cutting	mm	20
Max. Cutting	mm	38
Working Gas	-	Air
Gas Volume	L/min	200
Working Gas Pressure	MPa	0.4
Cooling Method	-	Air
Weight of Machine	kg	45
Size of Machine	cm	60x31x56

The Plasma torch HCI003 is developed by us special for CNC cutting. With our HCI003, it can achieve better cutting quality, makes cutting more stable, more productivity. The torch pierces more easily and fast, the verticality improves, and the cutting capability upgrades.



Cutting Torch Body  
HCI003

### HCI003 part name and code

Cutting Method	Current(A)	Electrode	Nozzle	Protective Cap	Gas Tube	Copper Sleeve
Straight Cutting	35-60	I31010	I32106	I33210	I34010	I35013
	65-100		I32110			

# EMC-130

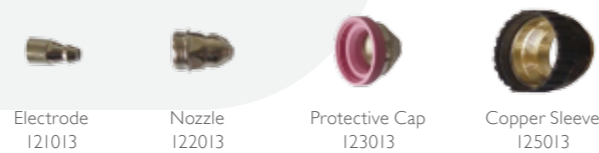
EMC-130 is high quality air cooling plasma power source for CNC cutting which has high pierce capability and can achieve high verticality. EMC-130 adopts the full-bridge soft-switching technology, current can be adjustable between 35A-130A steplessly, it can make cutting operation more controllable. It is heavy duty, 100% duty circle, and it has built in multi protections for over current, over voltage, over air-pressure, over temperature etc, allows you to work 24 hours continuously.



### Technical Parameters

Input Voltage	V	3x380(50Hz/60Hz) +/- 10%
Input Power	KVA	22
Cutting Current	A	35-130
Duty Circle	-	130A/100%
Cutting Thickness	mm	According to Material.
Pierce Thikcnss	mm	20
Quality Cutting	mm	30
Max. Cutting	mm	45
Working Gas	-	Air
Gas Volume	L/min	200
Working Gas Pressure	MPa	0.45
Cooling Method	-	Air
Weight of Machine	kg	60
Size of Machine	cm	76x35x63

The plasma torch HC1201 is developed by us special for CNC cutting. With our HC1201, it can achieve better cutting quality, makes cutting more stable, more productivity. The torch pierces more easily and fast, the verticality improves, and the cutting capability upgrades.



Cutting Torch Body  
HC1201

### HC1201 part name and code

Cutting Method	Current (A)	Electrode	Nozzle	Protective Cap	Copper Sleeve
Straight Cutting	35-60	121013	122006	123013	125013
	65-100		122010		
	105-130		122013		

# EMC-200

EMC-200 is high quality water cooling plasma power source for CNC cutting which has high pierce capability and can achieve high verticality. EMC-200 adopts the full-bridge soft-switching technology, current can be adjustable between 40A-200A steplessly, it can make cutting operation more controllable. It is heavy duty, 100% duty circle, and it has built in multi protections for over current, over voltage, over air-pressure, over temperature etc, allows you to work 24 hours continuously.



### Technical Parameters

Input Voltage	V	3x380(50Hz/60Hz) +/-10%
Input Power	KVA	40
Cutting Current	A	40-200
Duty Circle	-	200A/100%
Cutting Thickness	mm	According to Material.
Pierce Thikcnss	mm	25
Quality Cutting	mm	45
Max. Cutting	mm	55
Working Gas	-	Air/N2
Gas Volume	L/min	150
Working Gas Pressure	MPa	0.5
Cooling Method	-	Water
Weight of Machine	kg	90
Size of Machine	cm	69x37x81

The water cooling plasma torch HC2003 is developed by us special for CNC cutting. With our HC2003, it can achieve better cutting quality, makes cutting more stable, more productivity. The torch pierces more easily and fast, the verticality improves, and the cutting capability upgrades.



Cutting Torch Body  
HC2003

### HC2003 part name and code

Cutting Method	Cutting Torch	Current (A)	Electrode	Nozzle	Protective Cap	Water Tube	Copper Sleeve	Diffuser
Dry Cutting	HC2003	40-100	231020	232010	233020	234020	235020	236020
		110-150		232015				
		160-200		232020				

# EMC-260

EMC-260 is high quality water cooling plasma power source for CNC cutting which has high pierce capability and can achieve high verticality. EMC-260 adopts the full-bridge soft-switching technology, current can be adjustable between 45A-260A steplessly, it can make cutting operation more controllable. It is heavy duty, 100% duty circle, and it has built in multi protections for over current, over voltage, over air-pressure, over temperature etc, allows you to work 24 hours continuously.



### Technical Parameters

Input Voltage	V	3x380(50Hz) +/-10%
Input Power	KVA	55
Cutting Current	A	260
Duty Circle	-	100%
Cutting Thickness	mm	28
Pierce Thickness	mm	28
Quality Cutting	mm	40
Max. Cutting	mm	50
Working Gas	-	Air/N2
Gas Volume	L/min	150
Working Gas Pressure	MPa	0.5
Cooling Method	-	Water
Weight of Machine	kg	95
Size of Machine	cm	83x38x83

The water cooling plasma torch HC260 is developed by us special for CNC cutting. With our HC260, it can achieve better cutting quality, makes cutting more stable, more productivity. The torch pierces more easily and fast, the verticality improves, and the cutting capability upgrades.



Cutting Torch Body  
HC260

### HC260 part name and code

Cutting Method	Current (A)	Electrode	Nozzle	Protective Cap	Water Tube	Copper Sleeve	Gas Diffuser	Torch Body
Dry Cutting	45—150	261026	262015	263026	264026	265026	236020	HC260
	160—200		262020					
	210—260		262026					

# EMC-300

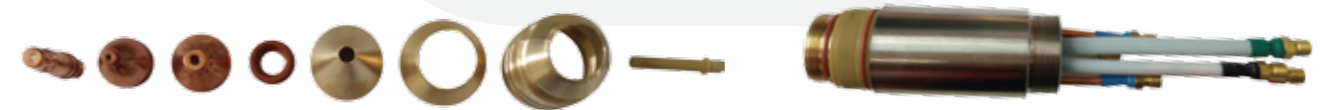
EMC-300 is high quality water cooling plasma power sources for CNC cutting which have high pierce capability and can achieve high verticality. It adopts the full-bridge soft-switching technology, current can be adjustable between 70A-300A steplessly, it can make cutting operation more controllable. It is heavy duty, 100% duty circle, and built in multi protections for over current, over voltage, over air-pressure, over temperature etc, allows you to work 24 hours continuously.



### Technical Parameters

Input Voltage	V	3x380(50Hz) +/-10%
Input Power	KVA	68
Cutting Current	A	300
Duty Circle	-	100%
Cutting Thickness	mm	30
Pierce Thickness	mm	30
Quality Cutting	mm	50
Max. Cutting	mm	60
Working Gas	-	Air/N2
Gas Volume	L/min	150
Working Gas Pressure	MPa	0.4
Cooling Method	-	Water
Weight of Machine	kg	130
Size of Machine	cm	83x47x90

The water cooling plasma torch HC6002 is developed by us special for CNC cutting. With our HC6002, they can achieve better cutting quality, makes cutting more stable, more productivity. The torch pierces more easily and fast, the verticality improves, and the cutting capability upgrades.



Electrode 621040 Nozzle 622030 Protective Cap 623040 Diffuser 626040 Copper Cap 627060 Shield Cup 628060 Copper Sleeve 625060 Water Tube 624060  
Cutting Torch Body  
HC6002

### HC6002 part name and code

Cutting Method	Current (A)	Electrode	Nozzle	Protective Cap	Water Tube	Copper Sleeve	Gas Diffuser	Copper Cap	Shield Cup
Dry Cutting	70—200 200—300	621040	622020 622030	623040	624060	625060	626040	627060	628060

# EMC-400

EMC400 is high quality water cooling plasma power sources for CNC cutting which have high pierce capability and can achieve high verticality. It adopts the full-bridge soft-switching technology, current can be adjustable between 70A-400A steplessly, it can make cutting operation more controllable. It is heavy duty, 100% duty circle, and built in multi protections for over current, over voltage, over air-pressure, over temperature etc, allows you to work 24 hours continuously.



### Technical Parameters

Input Voltage	V	3x380(50Hz) +/- 10%
Input Power	KVA	90
Cutting Current	A	400
Duty Circle	-	100%
Cutting Thickness	mm	35
Pierce Thickness	mm	35
Quality Cutting	mm	60
Max. Cutting	mm	70
Working Gas	-	Air/N2
Gas Volume	L/min	150
Working Gas Pressure	MPa	0.4
Cooling Method	-	Water
Weight of Machine	kg	150
Size of Machine	cm	83x47x90

The water cooling plasma torch HC6002 is developed by us special for CNC cutting. With our HC6002, they can achieve better cutting quality, makes cutting more stable, more productivity. The torch pierces more easily and fast, the verticality improves, and the cutting capability upgrades.



Electrode 621040 Nozzle 622040 Protective Cap 623040 Diffuser 627060 Copper Cap 628060 Shield Cup 628060 Copper Sleeve 625060 Water Tube 624060

Cutting Torch Body HC6002

### HC6002 part name and code

Cutting Method	Current (A)	Electrode	Nozzle	Protective Cap	Water Tube	Copper Sleeve	Gas Diffuser	Copper Cap	Shield Cup
Dry Cutting	70—200	621040	622020	623040	624060	625060	626040	627060	628060
	200—300		622030						
	300—400		622040						

# EMC-200M

EMC-200M is upgraded based on EMC-200, and it is specially designed for water mist plasma cutting. With water mist plasma cutting, the cutting smoke and noise can be obviously reduced, the cutting quality can be dramatically improved and the working parts color will not be changed after cutting, this is especially good for high quality cutting job of stainless steel, aluminum materials etc.



### Technical Parameters

Input Voltage	V	3x380(50Hz/60Hz) +/-10%
Input Power	KVA	47
Cutting Current	A	35-200
Duty Circle	-	200A/100%
Cutting Thickness	mm	According to Material.
Pierce Thickness	mm	20
Quality Cutting	mm	35
Max. Cutting	mm	40
Working Gas	-	Air/N2
Gas Volume	L/min	150
Working Gas Pressure	MPa	0.5
Cooling Method	-	Water
Weight of Machine	kg	90
Size of Machine	cm	69x37x81

Plasma torch HC260 is developed both for normal dry cutting and water mist cutting models. It can be used to assemble for EMC-200M to achieve high quality water mist cutting job.



Electrode 261026 Nozzle 262126 Gas Diffuser 236020 Protective Cap 263126 Copper Sleeve 265026 Water Tube 264026



Cutting Torch Body HC260

### HC260 part name and code

Cutting Method	Current (A)	Electrode	Nozzle	Protective Cap	Water Tube	Copper Sleeve	Gas Diffuser	Cutting Torch Body
Water Mist Cutting	100-150	261026	262115	263126	264026	265026	236020	HC260
	160—200		262120					

EMC-400  
CHANGZHOU GREATECH CO., LTD.

EMC-200M  
CHANGZHOU GREATECH CO., LTD.

# EMC-260M

EMC260M is upgraded based on EMC-260, and it is specially designed for water mist plasma cutting. With water mist plasma cutting, the cutting smoke and noise can be obviously reduced, the cutting quality can be dramatically improved and the working parts color will not be changed after cutting, this is especially good for high quality cutting job of stainless steel, aluminum materials etc.



### Technical Parameters

Input Voltage	V	3x380(50Hz/60Hz) +/-10%
Input Power	KVA	60
Cutting Current	A	260
Duty Circle	-	100%
Cutting Thickness	mm	23
Pierce Thickness	mm	23
Quality Cutting	mm	30
Max. Cutting	mm	40
Working Gas	-	Air/N2
Gas Volume	L/min	150
Working Gas Pressure	MPa	0.5
Cooling Method	-	Water
Weight of Machine	kg	95
Size of Machine	cm	83x38x83

Plasma torch HC260 is developed both for normal dry cutting and water mist cutting models. It can be used to assemble for EMC-200M and EMC-260M to achieve high quality water mist cutting job.



### HC260 part name and code

Cutting Method	Current (A)	Electrode	Nozzle	Protective Cap	Water Tube	Copper Sleeve	Gas Diffuser	Cutting Torch Body
Water Mist Cutting	45—100	261026	262110	263126	264026	265026	236020	HC260
	110—150		262115					
	160—200		262120					
	210—260		262126					

# EMC-300M/400M

EMC-300M and EMC400M are upgraded based on EMC-300 and EMC-400, and they are specially designed for water mist plasma cutting. With water mist plasma cutting, the cutting smoke and noise can be obviously reduced, the cutting quality can be dramatically improved and the working parts color will not be changed after cutting, this is especially good for high quality cutting job of stainless steel, aluminum materials etc.



### Technical Parameters

Item	Unit	EMC-300M	EMC-400M
Input Voltage	V	3x380(50Hz) +/- 10%	3x380(50Hz) +/- 10%
Input Power	KVA	72	95
Cutting Current	A	300	400
Duty Circle	-	100%	100%
Cutting Thickness	mm	25	28
Pierce Thickness	mm	25	28
Quality Cutting	mm	35	40
Max. Cutting	mm	40	45
Working Gas	-	Air/N2	Air/N2
Gas Volume	L/min	150	150
Working Gas Pressure	MPa	0.4	0.4
Cooling Method	-	Water	Water
Weight of Machine	kg	130	150
Size of Machine	cm	83x47x90	83x47x90

Plasma torch HC6002 is developed both for normal dry cutting and water mist cutting models. It can be used to assemble for EMC-300M and EMC-400M to achieve high quality water mist cutting job.



### HC6002 part name and code

Cutting Method	Current (A)	Electrode	Nozzle	Protective Cap	Water Tube	Copper Sleeve	Gas Diffuser	Copper Cap	Shield Cup
Water Mist Cutting	70—200	621040	622020	623140	624060	625060	626040	627060	628060
	200—300		622030						
	300—400		622040						

EMC-260M  
CHANGZHOU GREATECH CO., LTD.

EMC-300M/400M  
CHANGZHOU GREATECH CO., LTD.