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WELDING AND CUTTING EQUIPMENTS

Super Welding & Cutting
By Wa-line

Wa-line Makes Quality

Why Choose Wa-line Products?

1

With 15 years' manufacturing experience, Wa-line is a leading manufacturer and exporter of welding and cutting equipments.

2

Wa-line provides complete solutions for welding & cutting. We produce over 100 different types of welding and cutting machines with 13 series, and export to over 20 countries, including Europe, America, South Asia...etc

3

Focusing on quality, reliability and reasonable pricing, we back our products with a prompt spare parts service and full technical support.

We do our welding and cutting equipments right from the beginning!

Wa-line MAKES
QUALITY

WELDING AND CUTTING EQUIPMENTS

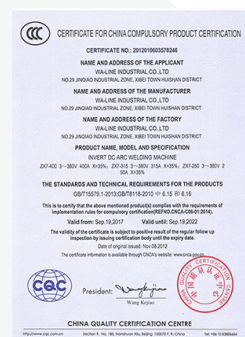
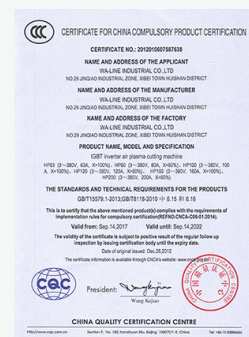
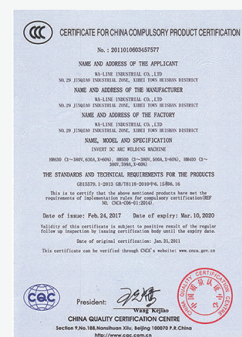
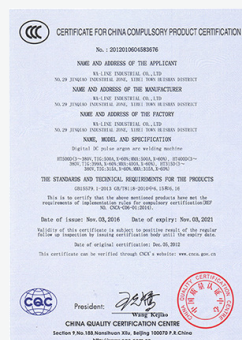
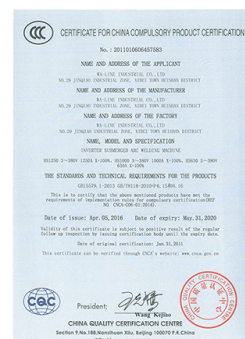
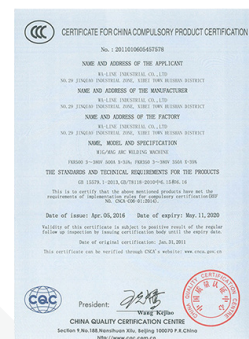
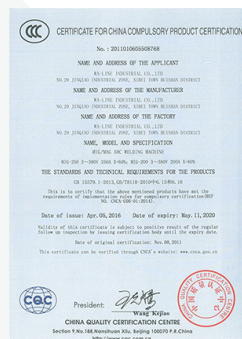
Wa-line controls every single step of production from raw material to final assembly.



QUALITY INSPECTION

COMPREHENSIVE ADVANTAGES

- ▶ High quality raw materials are used for every parts.
- ▶ Good IGBT module design
- ▶ User friendly operation panel
- ▶ We conduct 100% tests for all our products before delivery.
- ▶ All products having heavy duty capabilities, stable cum reliable performance, long life cycle.



Welding & Cutting



CONTENT

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► Welding Robot



IGBT Inverter CNC Air Plasma Cutting Machine



WCUT series having CNC and handheld functions.
 Voltage and colour can be supply as per your requirement

OUTLINE AND FUNCTION

Application scope

Stainless Steel

Alloy Steel

Cast Iron

Carbon Steel

Copper

Aluminum

Manganese

Titanium

Clad Plate

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Performance Features

Simple operation

- Step-less current adjustment with digital current display and precise current preset functions.
- Clear digital display panel for convenience cutting parameters adjustments.

Excellent performance

- Use advanced high frequency inverter technology soft switch, high efficient and light in weight.
- Reliable Super-power IGBT module switch circuit design.
- In some of the models, all the cutting parameters are able to preset, store, and be invoked easily.
- Wide grid voltage adaptability.
- Arc-striking current slow-up can effectively extend the service life of electrode and nozzle for the cutting gun.
- 100% arc-striking success rate, stable and stiff arc, smooth incision, excellent technological performance.
- Fast cutting speed, narrow and smooth incision, minimize deformation, saving on material.
- Unique internal dustproof design, greatly enhanced the machine reliability.
- Perfect gas and water pressures monitoring, overheating, over-voltage, under-voltage and phase loss protection.
- Normal cheap compressed air are used as cutting medium to reduce the operation costs.
- The machine possess all the CNC output signals required by the CNC control and is suitable for the automatic cutting.
- High sustainable duty cycle, able to operate continuously under the maximum current condition.

Parameter Table

Model		WCUT-63	WCUT-100	WCUT-130	WCUT-160	WCUT-200	WCUT-300	WCUT-400	WCUT-500
Name /Unit									
Supply Voltage / Frequency	V/Hz	3~380V±15% 50/60Hz							
Rated Input Capacity	KVA	11	18.5	24	32	45	83	111	139
Rated Input Current	A	14.5	24	36	43	68	127	169	211
Power Factor	-	0.88	0.9	0.9	0.9	0.91	0.91	0.91	0.91
Rated Output Current	A	63	100	125	160	200	300	400	500
Rated Output Voltage	V	105.2	120	132	144	160	200	200	200
Rated Duty Cycle	%	60/40℃	100/40℃						
Output No-load Voltage	V	308	310	310	320	340	340	340	340
Output Current Range	A	25~63	30~100	30~130	35~160	40~200	40~300	40~400	40~500
Quality Cutting Thickness (Steel)	mm	12	22	25	35	45	50	55	60
Max Cutting Thickness (Steel)	mm	25	40	45	55	70	90	100	110
Plasma Cutting Gas	-		Compressed air						
Gas Pressure Range	MPa	0.4-0.5	0.45-0.55				0.5-0.6		
Work Efficiency	%	85	90						
Insulation Class	-	F							
Shell Protective Class	-	IP21S							
Torch Cooling Mode	-	Air			Coolant /Air				
Arc Striking Method	-	High-Frequency Arc Striking							
Dimensions(L×W×H)	mm	580×295×480	670×325×595		720×350×625	825×350×735	850×405×860	970×430×890	970×430×890
Net Weight	Kg	28.5	54	55	58	75	115	140	145

Buying Guide

Model		WCUT-63	WCUT-100	WCUT-130	WCUT-160	WCUT-200	WCUT-300	WCUT-400	WCUT-500
Parameter									
Mild Steel	Quality Cutting (mm)	12	22	25	35	45	50	55	60
	Cut-off Ability (mm)	25	40	45	55	70	90	100	110
	Max. Piercing Thickness (mm)	10	20	22	28	30	35	45	50
Stainless Steel	Cut-off Ability (mm)	12	28	32	36	50	65	75	90
	Quality Puncture (mm)	8	18	20	22	25	30	35	40
Al	Cut-off Ability (mm)	12	35	40	50	60	65	80	90
	Quality Piercing (mm)	8	18	20	25	28	35	35	40

Standard Equipment

- 1 Cutting Torch
- 1 Ground Cable L=3m
- Pressure Regulator Is Installed On The Machine



IGBT Inverter Air Plasma Cutting Machine (Handheld Only)



OUTLINE AND FUNCTION

Application scope

- Stainless Steel

Alloy Steel

Cast Iron

Carbon Steel

Copper
- Aluminum

Manganese

Titanium

Clad Plate

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Performance Features

Simple operation

- Step-less current adjustment with digital current display and precise current preset functions.
- Clear digital display panel for convenience cutting parameters adjustments.

Excellent performance

- Use advanced high frequency inverter technology soft switch, high efficient and light in weight.
- Reliable Super-power IGBT module switch circuit design.
- In some of the models, all the cutting parameters are able to preset, store, and be invoked easily.
- Wide grid voltage adaptability.
- Arc-striking current slow-up can effectively extend the service life of electrode and nozzle for the cutting gun.
- 100% arc-striking success rate, stable and stiff arc, smooth incision, excellent technological performance.
- Fast cutting speed, narrow and smooth incision, minimize deformation, saving on material.
- Unique internal dustproof design, greatly enhanced the machine reliability.
- Perfect air and water pressure monitoring, overheating, over-voltage, under-voltage and phase loss protection.
- Normal cheap compressed air are used as cutting medium to reduce the operation costs.

Parameter Table

Model		WCUT-63S	WCUT-100S	WCUT-125S	WCUT-160S	WCUT-200S	WCUT-300S	WCUT-400S	WCUT-500S
Name /Unit									
Supply Voltage / Frequency	V/Hz	3~380V±15% 50/60Hz							
Rated Input Capacity	KVA	11	18.5	24	32	45	83	111	139
Rated Input Current	A	14.5	24	36	43	68	127	169	211
Power Factor	-	0.88	0.9	0.9	0.9	0.91	0.91	0.91	0.91
Rated Output Current	A	63	100	130	160	200	300	400	500
Rated Output Voltage	V	105.2	120	132	144	160	200	200	200
Rated Duty Cycle	%	60/40℃			100/40℃				
Output No-load Voltage	V	308	310	310	320	340	340	340	340
Output Current Range	A	25~63	30~100	30~125	35~160	40~200	40~300	40~400	40~500
Quality Cutting Thickness (Steel)	mm	12	22	25	35	45	50	55	60
Max Cutting Thickness (Steel)	mm	25	40	45	55	70	90	100	110
Plasma Cutting Gas	-	Compressed air							
Gas Pressure Range	MPa	0.4-0.5	0.45-0.55				0.5-0.6		
Work Efficiency	%	88				90			
Insulation Class	-	F							
Shell Protective Class	-	IP21S							
Torch Cooling Mode	-	Air			Coolant /Air				
Arc Striking Method	-	High-Frequency Arc Striking							
Dimensions(L×W×H)	mm	540×250×415	645×305×550	670×325×630	720×350×625	825×350×735	850×405×860	970×430×890	970×430×890
Net Weight	Kg	25	45	55	58	75	115	140	145

Buying Guide

Model		WCUT-63S	WCUT-100S	WCUT-125S	WCUT-160S	WCUT-200S	WCUT-300S	WCUT-400S
Parameter								
Mild Steel	Quality Cutting (mm)	12	22	25	35	45	50	55
	Cut-off Ability (mm)	25	40	45	55	70	90	100
	Max. Piercing Thickness (mm)	10	20	22	28	30	35	45
Stainless Steel	Cut-off Ability (mm)	12	28	32	36	50	65	75
	Quality Puncture (mm)	8	18	20	22	25	30	35
Al	Cut-off Ability (mm)	12	28	40	50	60	65	80
	Quality Piercing (mm)	8	18	20	25	28	35	35

Standard Equipment

- 1 Cutting Torch
- 1 Ground Cable L=3m
- Pressure Regulator Is Installed On The Machine



Double Torch Air Plasma Cutting Machine



OUTLINE AND FUNCTION

Application scope

- Stainless Steel

Alloy Steel

Foundry Iron

Carbon Steel

Copper
- Aluminum

Manganese

Titanium

Clad Plate

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Performance Features

- The machine is equipped with both the air-cool and the water-cool guns, the selection of torch can be done by the press of one button.
- Reliable Super-power IGBT module switch circuit design.
- 100% arc-striking success rate, stable and stiff arc, smooth incision, excellent technological performance.
- The machine possess all the CNC output signals required by the CNC control and is suitable for the automatic cutting.
- High sustainable duty cycle, able to operate continuously under the maximum current condition.

Standard Equipment

- 1 Cutting Torch

• 1 Ground Cable L=3m

• Pressure Regulator Is Installed On The Machine

Parameter Table

Model		WDCUT-200	WDCUT-300	WDCUT-400
Name /Unit				
Supply Voltage / Frequency	V/Hz	3~380V±15% 50/60Hz		
Rated Input Capacity	KVA	45	83	111
Rated Input Current	A	68	127	169
Rated Output Current	A	200	300	400
Rated Output Voltage	V	160	200	200
Rated Duty Cycle	%	100/40℃		
Output No-load Voltage	V	340		
Output Current Range	A	40~200	40~300	40~400
Quality Cutting Thickness (Steel)	mm	45	50	55
Max Cutting Thickness (Steel)	mm	70	90	100
Plasma Cutting Gas	-	Compressed air		
Gas Pressure Range	MPa	0.45-0.55	0.5-0.6	
Work Efficiency	%	91		
Insulation Class	-	F		
Shell Protective Class	-	IP21S		
Torch Cooling Mode	-	Air/Coolant		
Arc Striking Method	-	High-Frequency Arc Striking		
Dimensions(L×W×H)	mm	825×350×735	850×405×860	970×430×890
Net Weight	Kg	75	115	140

Buying Guide

Model		WDCUT-200	WDCUT-300	WDCUT-400
Parameter				
Mild Steel	Quality Cutting (mm)	45	50	55
	Cut-off Ability (mm)	70	90	100
	Max. Piercing Thickness (mm)	30	35	45
Stainless Steel	Cut-off Ability (mm)	50	65	75
	Quality Puncture (mm)	25	30	35
Al	Cut-off Ability (mm)	60	65	80
	Quality Piercing (mm)	28	35	35



IGBT Inverter Air Plasma Cutting Machine With External HF Box



OUTLINE AND FUNCTION

Application scope

- Stainless Steel

Alloy Steel

Cast Iron

Carbon Steel

Copper
- Aluminum

Manganese

Titanium

Clad Plate

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Performance Features

- The HF box and the power source are separated to reduce the dust and extend the service lifecycle.
- Step-less current adjustment with digital current display and precise current preset functions.
- Reliable Super-power IGBT module switch circuit design.
- 100% arc-striking success rate, stable and stiff arc, smooth incision, excellent technological performance.
- The machine possess all the CNC output signals required by the CNC control and is suitable for the automatic cutting.
- High sustainable duty cycle, able to operate continuously under the maximum current condition.

Standard Equipment

- 1 Cutting torch Torch Cable=1.8m

• 1 HF box

• 2 Pcs Of 12m Hose

• 1 Pcs of 12m 3-Cored Cable
- 1 Ground Cable L=3m

• 1 Pcs Of 12m Connection Cable

• 2 Pcs of 12m Trachea

• 1 Pcs of 12m 7-Cored Cable
- Pressure Regulator Is Installed On The Machine

Parameter Table

Model		WCUT-130Pro	WCUT-200Pro	WCUT-400Pro
Name /Unit				
Supply Voltage / Frequency	V/Hz	3~380V±15% 50/60Hz		
Rated Input Capacity	KVA	27	45	111
Rated Input Current	A	41	68	169
Work Efficiency	-	0.91		
Rated Output Current	A	132	200	400
Rated Output Voltage	V	150	200	200
Rated Duty Cycle	%	100/40℃		
Output No-load Voltage	V	310	365	365
Output Current Range	A	30~130	40~200	40~400
Quality Cutting Thickness (Steel)	mm	25	45	55
Max Cutting Thickness (Steel)	mm	45	70	100
Plasma Cutting Gas	-	Compressed air		
Gas Pressure Range	MPa	0.45-0.55	0.5-0.6	
Work Efficiency	%	90		
Insulation Class	-	F		
Shell Protective Class	-	IP21S		
Torch Cooling Mode	-	Air	Air/Coolant	
Arc Striking Method	-	External HF Box High-Frequency Arc Striking		
Dimensions(L×W×H)	mm	690×360×750	825×350×735	985×445×920
Net Weight	Kg	65	75	130

Buying Guide

Model		WCUT-130Pro	WCUT-200Pro	WCUT-400Pro
Parameter				
Mild Steel	Quality Cutting (mm)	25	45	55
	Cut-off Ability (mm)	45	70	100
	Max. Piercing Thickness (mm)	22	30	45
Stainless Steel	Cut-off Ability (mm)	32	50	75
	Quality Puncture (mm)	20	25	35
Al	Cut-off Ability (mm)	40	60	80
	Quality Piercing (mm)	20	28	35



IGBT Inverter Gas Shielded Welding Machine



OUTLINE AND FUNCTION

■ **Function:** CO2/MAG Gas Shielded Welding,Hand Welding

■ **Application scope**

- Carbon Steel
- Stainless Steel
- Copper
- >>>

■ **Performance Features**

Simple operation

- Digital preset display, current and voltage are able to adjust separately and continuously in a wide range.
- Locking function reduces the worker from holding onto the handheld controller for too long

Excellent performance

- Use reliable IGBT inverter soft switch technology, high efficient and save energy.
- With the electronic reaction regulator, the welding process is stable. Less splash, with deep molten pool and flawless weld forming.
- Intelligent regulation of arcing de-ball function, excellent arc-striking ability.
- Can be equipped with a variety of automatic welding equipment and fulfill the demands of different welding process requirements.
- Wide grid voltage adaptability.
- The current source has multi-feature and multi-function. Produce excellent result on hand welding; NB7-630 can be used as an arc air gouging machine.

■ **Parameter Table**

Model		WMIG-270	WMIG-350	WMIG-500	WMIG-630
Name /Unit					
Supply Voltage / Frequency	V/Hz	3~380V±15% 50/60Hz			
Rated Input Capacity	KVA	9	18	29	38
Rated Input Current	A	14	24	40	54
Power Factor	-	0.87	0.91	0.93	0.93
Rated Duty Cycle	%	60/40℃			
Output Current Range	A	40~270	50~350	60~500	60~630
Output Voltage Range	V	12~30	12~40	15~50	15~50
Output No-load Voltage	V	56	63	84	84
Work Efficiency	%	81	86	88	88
Insulation Class	-	F			
Protection Class	-	IP21S			
Welding Stick	mm	φ0.8~φ1.0	φ0.8~φ1.2	φ1.0~φ1.6	φ1.0~φ1.6
Dimensions(L×W×H)	mm	460×245×415	550×290×490	660×335×560	660×335×560
Net Weight	Kg	18	34	44	48

■ **Buying Guide**

Base Metal	Welding Type	Wire Diameter(mm)	Current Range(A)	Applicable Model
Carbon Steel Stainless Steel Low-Alloy Steel	CO2/MAG	0.8/1.0/1.2	40-250	WMIG-270
	CO2/MAG	0.8/1.0/1.2	50-350	WMIG-350
	CO2/MAG	1.0/1.2/1.6	80-500	WMIG-500
	CO2/MAG	1.0/1.2/1.6	100-630	WMIG-630

Standard Equipment

- 1 CO2 Welding Torch
 • 1 Ground Cable L=3m
 • 1 Wire Feeder
 • 1 Control Cable L=5m
- 1 Welding Cable L=5m
 • 1 CO2 Decrement Gauge
 • 1 Allen Wrench



IGBT Inverter Gas Shielded Welding Machine



OUTLINE AND FUNCTION

■ **Function:** CO₂,MAG gas shielded welder

■ **Application scope**

- Welding In Carbon Steel

Stainless Steel

Copper

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■ **Performance Features**

Simple operation

- The machine can display the digit preset. Current and voltage can be switched respectively and continuously in a wide range.
- Lock function of the machine frees welders from long-time working.

Excellent performance

- Wide grid voltage adaptability, excellent arc-striking ability.
- Intelligent regulation of arcing de-ball function.
- With IGBT inverter soft switch technology, the machine is efficient, energy-saving and reliable.
- With electronic reactor regulation, the welding process is stable. Less splash, with deep molten pool and beautiful weld forming.
- The machine can be equipped with varieties of automatic welding equipment, meeting the demands of different process requirements.
- The current source is designed in multi-feature and multi-function. Hand welding of the machine performs especially well.
- NB7-630 can serve as an arc air gouging machine.

■ **Parameter Table**

Model		WMIGC-350	WMIGC-500	WMIGC-630
Name /Unit				
Supply Voltage / Frequency	V/Hz	3~380V±15% 50/60Hz		
Rated Input Capacity	KVA	18	27	38
Rated Input Current	A	24	41	54
Rated Duty Cycle	%	100/40°C		
Output Current Range	A	50~350	60~500	60~630
Output Voltage Range	V	12~40	15~45	15~45
Output No-load Voltage	V	63	84	84
Work Efficiency	%	86	91	91
Insulation Class	-	F		
Protection Class	-	IP21S		
Welding Stick	mm	φ0.8~φ1.2	φ1.0~φ1.6	φ1.0~φ1.6
Dimensions(L×W×H)	mm	550×290×490	660×335×560	660×335×560
Net Weight	Kg	34	46	48

■ **Buying Guide**

Base Metal	Welding Type	Wire Diameter(mm)	Current Range(A)	Applicable Model
Carbon Steel	CO ₂ /MAG	0.8/1.0/1.2	50-350	WMIGC-350
Stainless Steel	CO ₂ /MAG	1.0/1.2/1.6	80-500	WMIGC-500
Low-Alloy Steel	CO ₂ /MAG	1.0/1.2/1.6	100-630	WMIGC-630

Standard Equipment

- 1 CO₂ Welding Torch

 • 1 Welding Cable L=5m

• 1 Ground Cable L=3m

 • 1 CO₂ Decrement Gauge

• 1 Wire Feeder

 • 1 Allen Wrench

• 1 Control Cable L=5m



IGBT Inverter Gas Shielded Welding Machine



■ **Function:** CO2/MAG Gas Shielded Welding, Hand Welding

- Application scope

Carbon Steel

Stainless Steel

Copper

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■ Performance Features

Simple operation

- Digital preset display, current and voltage are able to adjust separately and continuously in a wide range.

Excellent performance

- Use reliable IGBT inverter soft switch technology, high efficient and save energy.
- With the electronic reaction regulator, the welding process is stable. Less splash, with deep molten pool and flawless weld forming.
- Strike arc in constant flow. Intelligent regulation of arcing de-ball function, excellent arc-striking ability.
- Can be equipped with a variety of automatic welding equipment and fulfill the demands of different welding process requirements.
- Wide grid voltage adaptability.

- Parameter Table

Model		WMIGC-350F		WMIGC-500F	
Name /Unit					
Supply Voltage / Frequency	V/Hz	3~380V±15% 50/60Hz			
Rated Input Capacity	KVA	18		29	
Rated Input Current	A	24		40	
Rated Duty Cycle	%	60/40℃			
Output Current Range	A	50~350		60~500	
Output Voltage Range	V	12~40		15~50	
Output No-load Voltage	V	63		84	
Work Efficiency	%	86		88	
Insulation Class	-	F			
Protection Class	-	IP21S			
Welding Stick	mm	φ0.8~φ1.2		φ1.0~φ1.6	
Dimensions(L×W×H)	mm	550×290×490		560×295×530	
Net Weight	Kg	28		38	

- **Buying Guide**

Base Metal	Welding Type	Wire Diameter(mm)	Current Range(A)	Applicable Model
Carbon Steel	CO2/MAG	0.8/1.0/1.2	50-350	WMIGC-350F
Stainless Steel	CO2/MAG	1.0/1.2/1.6	50-350	WMIGC-500F
Low-Alloy Steel				

Standard Equipment

- 1 CO2 Welding Torch
- 1 Ground Cable L=3m
- 1 Wire Feeder
- 1 Control Cable L=5m
- 1 Welding Cable L=5m
- 1 CO2 Decrement Gauge
- 1 Allen Wrench

IGBT Modular Inverter DC Arc Welding Machine



OUTLINE AND FUNCTION

■ **Function:** Hand Welding

■ **Application scope**

Welding In Carbon Steel

Stainless Steel

Cast Iron

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■ **Performance Features**

- Use advanced high frequency inverter technology and Super-power IGBT module switch circuit design.
- Wide grid voltage adaptability.
- The welding, arc striking and the thrust current can be adjusted respectively.
Suitable to use in conjunction with all kinds of acid and basic welding rods.
- Step-less current adjustments, welding rods of different diameters can be used.
- Model having a current rating of 500A and above, can be used for arc air gouging.
- Perfect and automatic over-voltage, under-voltage, over-current and over-load protection functions.
- High-efficiency, energy-saving, compact size, light weight, low noise, convenient for high area operation.
- Easy arc-striking, stable arc, less splash, flawless weld forming.

■ **Parameter Table**

Model		WARC-400	WARC-500	WARC-630
Name /Unit				
Supply Voltage / Frequency	V/Hz	3~380V±15% 50/60Hz		
Rated Input Capacity	KVA	20	29	38
Rated Input Current	A	27	40	54
Power Factor	-	0.91	0.91	0.93
Output No-load Voltage	V	76	84	84
Rated Duty Cycle	%	60/40℃		
Current Range	A	20~400	20~500	20~630
Electrode Diameter	mm	≤φ6	≤φ8	≤φ8
Work Efficiency	%	85		88
Insulation Class	-	F		
Protection Class	-	IP21S		
Cooling Mode	-	Air		
Dimensions(L×W×H)	mm	570×290×485	595×305×515	660×335×560
Net Weight	Kg	30	38	43

■ **Buying Guide**

Base Metal	Thickness(mm)	Electrode Diameter	Current Range(A)	Applicable Model
Carbon Steel	2.0-20.0	2.5/3.2/4.0/5.0/6.0	20-400	WARC-400
Stainless Steel	2.0-25.0	2.5/3.2/4.0/5.0/6.0	20-500	WARC-500
Low-Alloy Steel	2.0-30.0	2.5/3.2/4.0/5.0/6.0	20-630	WARC-630

Standard Equipment

- 2 Quick Plugs

• 1 Electrode Holder

• 1 Ground Cable L=3m

• 1 High-Strength Rubber Cable



IGBT Inverter DC Arc Welding Machine

■ Parameter Table

Model		WARC-216	WARC-315	WARC-400
Name /Unit				
Supply Voltage / Frequency	V/Hz	1~220V±20% 50/60Hz	3~380V±15% 50/60Hz	
Rated Input Capacity	KVA	6.8	12	14
Rated Input Current	A	31	16	18
Power Factor	-	0.73	0.86	0.86
No-load Voltage	V	62	72	
Rated Duty Cycle	%	60/40℃		
Current Range	A	15~160	20~315	20~400
Electrode Diameter	mm	≤φ3.2	≤φ5	≤φ6
Work Efficiency	%	85	82	
Insulation Class	-	F		
Protection Class	-	IP21S		
Dimensions(L×W×H)	mm	300×130×230	410×210×370	
Net Weight	Kg	4.3	15	16

OUTLINE AND FUNCTION

■ Function: Hand Welding

■ Application scope

- Carbon Steel
- Stainless Steel
- Cast Iron
- >>>

■ Performance Features

- Use advanced high frequency inverter technology and Super-power IGBT module switch circuit design.
- Wide grid voltage adaptability.
- Internal automatic arc striking function, the thrust current can be adjusted respectively.
Suitable to use in conjunction with all kinds of acid and basic welding rods.
- Step-less current adjustment, welding rods of different diameters can be used.
- Perfect and automatic over-voltage, under-voltage, over-current and over-load protection functions.
- High-efficiency, energy-saving, compact size, light weight, low noise, convenient for high area operation.
- Easy arc-striking, stable arc, less splash, flawless weld forming.

■ Buying Guide

Base Metal	Thickness(mm)	Electrode Diameter (mm)	Current Range(A)	Applicable Model
Carbon Steel	2.0-6.0	2.5/3.2	15-200	WARC-216
Stainless Steel	2.0-12.0	2.5/3.2/4.0/5.0	20-315	WARC-315
Low-Alloy Steel	2.0-20.0	2.5/3.2/4.0/5.0/6.0	20-400	WARC-400

Standard Equipment

- 2 Quick Plugs
- 1 Electrode Holder
- 1 Ground Cable L=3m
- 1 High-Strength Rubber Cable



IGBT Modular Inverter DC Arc Welding Machine



OUTLINE AND FUNCTION

■ **Function:** Hand Welding

■ **Application scope**

- Carbon Steel

Stainless Steel

Cast Iron

>>>

■ **Performance Features**

- Use advanced high frequency inverter technology and Super-power IGBT module switch circuit design.
- The welding, arc striking and the thrust current can be adjusted respectively.
Suitable to use in conjunction with all kinds of acid and basic welding rods.
- Step-less current adjustment, welding rods of different diameters can be used.
Model having a current rating of 500A and above, can be used for arc air gouging.
- Perfect and automatic over-voltage, under-voltage, over-current and over-load protection functions.
- Easy arc-striking, stable arc, less splash, flawless weld forming.

■ **Parameter Table**

Model		WARC-400C	WARC-500C
Name /Unit			
Supply Voltage / Frequency	V/Hz	3~380V±15% 50/60Hz	
Rated Input Capacity	KVA	14	17
Rated Input Current	A	21	25
Rated Duty Cycle	%	60/40℃	
Output Current Range	A	40~310	40~360
Output No-load Voltage	V	70	70
Insulation Class	-	F	
Protection Class	-	IP21S	
Cooling Mode	-	Air	
Welding Stick	mm	≤φ5	≤φ5
Dimensions(L×W×H)	mm	490×235×420	490×235×420
Net Weight	Kg	30	38

■ **Buying Guide**

Base Metal	Thickness	Electrode Diameter (mm)	Current Range (A)	Applicable Model
Carbon Steel, Stainless Steel , Low-Alloy Steel	2.0-20	2.5/3.2/4.0/5.0/6.0	40-310	WARC-400C
	2.0-25	2.5/3.2/4.0/5.0/6.0	40-360	WARC-500C

Standard Equipment

- 2 Quick Plugs

• 1 Electrode Holder

• 1 Ground Cable L=3m

• 1 High-Strength Rubber Cable



IGBT Modular Inverter DC Arc Welding Machine



■ **Function:** Hand Welding

- Application scope

Carbon Steel

Stainless Steel

Cast Iron

>>>

■ Performance Features

- Advanced IGBT high frequency inverter soft switch technology, the welder can start working in a short time
- Automatic single phase power input selection. The machine will detect and switch between the 220V and the 380V power supply automatically as according to the power supply condition.
- Internal automatic arc striking function, Step-less thrust current adjustment.
Suitable to use in conjunction with all kinds of acid and basic welding rods.
- Perfect and automatic over-voltage, under-voltage, over-current and over-load protection functions.
- Easy arc-striking, stable arc, less splash, flawless weld forming.

- Parameter Table

Model		WARC-315S		WARC-400S	
Name /Unit					
Supply Voltage / Frequency	V/Hz	1~220V/380V±20% 50/60Hz			
Rated Input Capacity	KVA	12		13	
Rated Input Current	A	46		51	
Rated Duty Cycle	%	60/40℃			
Output Current Range	A	15~315		15~400	
Output No-load Voltage	V	70		70	
Insulation Class	-	F			
Protection Class	-	IP21S			
Electrode Diameter	mm	≤φ5		≤φ6	
Dimensions(L×W×H)	mm	470×210×370		470×210×370	
Net Weight	Kg	12.5		13	

- **Buying Guide**

Base Metal	Thickness	Electrode Diameter (mm)	Current Range (A)	Applicable Model
Carbon Steel	2.0-12	2.5/3.2/4.0/5.0	20-315	WARC-315S
Stainless Steel	2.0-25	2.5/3.2/4.0/5.0/6.0	20-400	WARC-400S
Low-Alloy Steel				

Standard Equipment

- 2 Quick Plugs
- 1 Electrode Holder
- 1 Ground Cable L=3m
- 1 High-Strength Rubber Cable



IGBT Modular Inverter DC TIG Welding Machine



OUTLINE AND FUNCTION

Function: Argon Arc Welding,Pulse Argon Arc Welding,Hand Welding

Application scope

- Carbon Steel
- Stainless Steel
- Cast Iron
- Copper
- >>>

Performance Features

- Use advanced high frequency inverter technology and Super-power IGBT module switch circuit design. Wide grid voltage adaptability.
- Clear digital display panel for convenience welding parameters adjustments.
- Welding parameters are able to be stored automatically and be invoked easily.
- Excellent Performance for hand welding, the thrust and the arc current can be adjusted respectively, suitable to use in conjunction with all kinds of acid and basic welding rods.
- Step-less current adjustments, welding rods of different diameters can be used.
- Perfect and automatic over-voltage, under-voltage, over-current and over-load protection functions.
- High-efficiency, energy-saving, compact size, light weight, low noise, convenience for high area operation.
- 100% arc-striking success rate, stable arc, less splash, flawless weld forming.
- Unique internal dustproof design, greatly enhanced the machine reliability.

Parameter Table

Model		WTIG-250		WTIG-315		WTIG-400		WTIG-500	
Name /Unit									
Supply Voltage / Frequency	V/Hz	3~380V±15% 50/60Hz							
Rated Input Capacity	KVA	13	16	20	29				
Rated Input Current	A	17	21	27	40				
Power Factor	-	0.87	0.87	0.91	0.91				
Output No-load Voltage	V	58	76	76	84				
Rated Duty Cycle	%	60/40℃							
Current Range	A	20~250	20~315	20~400	20~500				
Electrode Diameter	mm	≤φ5	≤φ5	≤φ6	≤φ8				
Work Efficiency	%	85			88				
Insulation Class	-	F							
Protection Class	-	IP21S							
Cooling Mode	-	Air							
Dimensions(L×W×H)	mm	445×215×425	495×250×415	570×290×485	595×305×515				
Net Weight	Kg	18	22	31	39				

Buying Guide

Base Metal	Welding Type	Thickness (mm)	Current Range	Applicable Model	Welding Type	Thickness (mm)	Current Range(A)	Applicable Model
Carbon Steel Stainless Steel Low-Alloy Steel	Hand Welding	2.0-12	20-250	WTIG-250	Argon Arc Welding	0.5-12	20-250	WTIG-250
		2.0-16	20-315	WTIG-315		0.5-16	20-315	WTIG-315
		2.0-20	20-400	WTIG-400		0.5-20	20-400	WTIG-400
		2.0-25	20-500	WTIG-500		0.5-25	20-500	WTIG-500

Standard Equipment

- 1 TIG torch
- 1 Ground Cable L=3m
- 2 Quick Plugs
- 1 Argon gas meter



IGBT Inverter Automatic Submerged Arc Welding Machine



OUTLINE AND FUNCTION

Function: Automatic Submerged Arc Welding, Electro-slag Welding, Carbon Arc Air Gouging And Hand Welding

Application scope

Welding Carbon Steel Alloy Steel >>>

Performance Features

Simple operation

- The machine can display digit preset and switch current, voltage and welding speed continuously in a wide range.
- Clear digital panel makes it easier to adjust cutting parameters.
- Parameter storage function, welding parameters are automatically saved and easy to call.

Excellent performance

- With advanced soft switch high frequency inverter technology, the machine is efficient and light.
- Good welding performance, beautiful weld forming.
- The machine can set arc-striking parameters and it has intelligent regulation of arcing de-ball function and excellent arc-striking ability.
- Optional wire diameter, wire material and arc characteristic; welding current and voltage can be switched continuously; wide application.
- The machine can be equipped with varieties of automatic welding equipment, meeting the demands of different process requirements.
- Wide grid voltage adaptability.
- Power source of the machine is designed in multi-feature and multi-function.

Gantry Layout

- 1 Controller
- 1 Pcs of Control Cable L=8m
- 1 Pcs of 3-Cored Motor Wire L=8m
- 1 Machine Head

Parameter

Model			WSAW-630	WSAW-1000	WSAW-1250
Parameter	Unit				
Power source	Voltage/frequency	V/Hz	3~380V±15% 50/60Hz		
	Rated Input Capacity	KVA	37	57	75
	Rated Input Current	A	52	80	105
	Power Factor	-	0.93		
	Work Efficiency	%	88		
	No-load Voltage	v	81	84	
	Rated Duty Cycle	%	100/40℃		
	Voltage range	V	14-50		
	Current Range	A	60-630	100-1000	100-1250
	Insulation class	-	F		
	Protection Class	-	IP21S		
	Cooling Mode		Air		
	Dimensions (L×W×H)	mm	660×335×630	810×405×805	
	Net Weight	Kg	56	89	92
Tractor	Wire Diameter	mm	φ1.6/φ2.5/φ3	φ3/φ4/φ5	φ3/φ4/φ5/φ6
	Wire Feeding Speed	cm/min	0~150		
	Welding Speed	cm/min	40~250		
	Vertical Adjustment Distance of Head	mm	95		
	Beam Lifting Adjustment Distance	mm	120		
	Horizontal Adjustment Distance of Head	mm	±30		
	Tread	mm	300		
	Wheelbase	mm	350		
	Flux Capacity	L	10		
	Dimensions(L×W×H)	mm	1030×510×930		
	Weight	Kg	65		

Standard Equipment

- 1 Tractor
- 2 Pcs of Ground Wire
- 1 Pcs of Control Cable
- 2 Pcs of Rail L=1m
- 1 Controller
- 2 Pcs of Welding Cable L=15m

Hand-held Continuous Fiber Laser Welding Machine



- Characteristics

- The welding spot energy distribution is even, has the best spot which the welding characteristic needs;
- Suitable for spot welding of various complex welds or devices;
- It can realize butt welding, stack welding, seal welding, seam welding and so on;
- With 24 hours continuous working ability, the machine performance is stable;
- Suitable for welding material below 2mm;
- The operation mode of hand-held welding torch can realize arbitrary welding of workpiece;
- Beautiful welding seam, no welding scar, no discoloration, no need for subsequent polishing.
- The welding is firm, and the welding strength reaches or even exceeds the base metal itself.
- No consumable welding, no wire filling, power on.
- Simple and easy to learn, no master.

- Suitable welding materials

Carbon Steel

Stainless Steel

Zinc

Copper

Aluminum

Chromium

Niobium

Gold

Silver

>>>

- Application fields

Kitchen Appliances

Advertising

Hardware Products

Automotive Accessories

Craft Gifts

>>>

- Technical parameter:

ITEM	PARAMETER	
Model	HLW-F1000	HLW-F1500
Machine Structure	Cabinet integration	Cabinet integration
Laser Type	Fiber laser	Fiber laser
Laser Power	1000W	1500W
Laser Wavelength	1080 nm	1080 nm
Fiber Length	15m	15m
Working Mode	Continuous/modulation	Continuous/modulation
Laser Cooling Type	Water cooling	Water cooling
Indicator System	Red ray	Red ray
Laser Output Focal Length	100mm	100mm
Working Voltage	1-220 V,50Hz	1-220 V,50Hz
Frequency	Max 50kHz	Max 50kHz
Machine Power	≤7Kw	≤8Kw
Gas Connector	Argon gas connector	Argon gas connector
Power Demand	1-220V, 50Hz, 32A	1-220V, 50Hz, 40A
Welding Machine Speed Range	0~120 mm/s	0~120 mm/s
Working Environment Temperature Range	15~35 °C	15~35 °C
Working Environment Humidity Range	< 70%RH	< 70%RH
Welding Thickness	0.5-2mm	0.5-3mm
Welding Seam Width	1-6mm	1-6mm
Machine Dimension (L×W×H)	900x700x1200mm	900x700x1200mm
Machine Weight	120kg	125kg

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WELDING ROBOT
WRobot1400/6

High Performance Arc Welding Robot



WELDING ROBOT

■ High performance arc welding robot workstation features

【The movement is flexible.】

Built-in joints, right angles, tools, workpieces, four coordinate systems, can be set to any coordinate system, convenient for users.

【The storage capacity is large. 】

Point motion and trajectory motion control model, the program can have 9999 statements and memorize 160,000 points.

【Intelligent welding database. 】

The system has a built-in welding expert database and automatically intelligently parameters combines.

【Wide range of applications.】

Suitable for welding various metals such as aluminum, aluminum alloy, carbon steel, alloy steel, stainless steel, copper and titanium.

■ Robot technical parameter

Robot model	WRobot1400/6		Robot model	WRobot1400/6				
Application range	Arc Welding		Max motion speed of each joint	J5	197.5°/S			
Installation method	Vertical ground installation			J6	247.2°/S			
Freedom of movement	6		Allowable bending distance N.m	J4	9.8N.m			
Max load	6KGS			J5	9.8N.m			
Max working radius	1400mm			J6	4N.m			
Repeat positioning accuracy	0.05mm		Allowable inertia Kg.m ²	J4	0.3Kg.m ²			
Max motion range of each joint	J1	±160°		J5	0.3Kg.m ²			
	J2	±110° -70°		J6	0.05Kg.m ²			
	J3	±65° -120°	Robot weight	185KG				
	J4	±150°	Working environment	Temperature	0°C-45°C			
	J5	±105° -110°		Temperature	20%-80%			
	J6	±320°		Others	<div>► Keep away from corrosive gases or liquids or explosive gases; ► Keep away from water, oil, dust; ► Keep away from vibration sources, magnetic fields, high frequency signal sources;</div>			
Max motion speed of each joint	J1	201.9°/S					Power capacity	6kVA(Robot)+24kVA(Power source)
	J2	198.3°/S						
	J3	198.3°/S						
	J4	296.2°/S						

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KEEP RUNNING

