

## Каталог аппаратов плазменной резки



# LGK-63/100/120/160/200/300/400 IGBT Inverter Air Plasma Cutting Machine

## Main Features

- Soft switch technology with stable cutting current
- High duty cycle for heavy industry use
- Cutting current up-slope technology to reduce loss of wearing parts
- Small volume and light weight which is easy to install on the table of CNC cutting machine
- Use compressed air as protection to save cost
- Accurate cutting current preset and stepless adjust
- Gas check function for easy adjust the air pressure
- Suitable for handhold and automate cut

## Product Application

- Suit manual and automated cut for carbon steel, alloy steel and nonferrous steel



## Main Technical Parameters

Item	Unit	Models						
		LGK-63IGBT	LGK-100IGBT	LGK-120IGBT	LGK-160IGBT	LGK-200IGBT	LGK-300IGBT	LGK-400IGBT
Input Power	V/Hz	3~380±15% 50/60						
Rated Input Capacity	KVA	9.5	17.8	22.4	32.2	38.8	70.1	94.1
Rated Input Current	A	14.5	27	34	49	71	100	143
Rated Output Current	A	63	100	120	160	200	300	400
Rated Output Voltage	V	106	120	128	144	160	200	200
Rated Open Circuit Voltage	V	300	300	300	315	315	380	380
Rated Duty Cycle	-	60% (40°C)		100% (40°C)				
Output Current Adjust Range	A	30~63	30~100	30~120	40~160	40~200	60~300	60~400
Arc Voltage Output Ratio	-	1:1/1:20/1:50/1:100						
Quality Cut Thickness(Carbon Steel)	mm	0.3~12	0.3~22	0.3~25	1~35	1~45	1~50	1~55
Handheld Severance Cut Thickness(Carbon Steel)	mm	25	40	45	55	65	80	90
Plasma Gas	-	Compressed Air						
Air Pressure	Mpa	0.3~0.5	0.4~0.6				0.45~0.6	
Torch Cooling Mode	-	Air Cooling			Air Cooling/Water Cooling			
Power Source Cooling Mode	-	Air Cooling						
Insulation Grade	-	F						
Ingress Protection	-	IP21S						
Dimension(LxWxH)	mm	585×280×485	695×320×580		800×380×610	800×380×810	890×430×900	930×430×900
Net Weight	Kg	26	51	52	73	82	140	144

# LGK-63/100MA Inverter Air Plasma Cutting Machine

## Main Features

- Soft switch technology with stable cutting current
- High duty cycle for heavy industry use
- Cutting current up-slope technology to reduce loss of wearing parts
- Use compressed air as protection to save cost
- Gas check function for easy adjust the air pressure
- Suitable for handhold cut

## Product Application

- Suit manual cut for carbon steel, alloy steel and nonferrous steel



## Main Technical Parameters

Item	Unit	Models	
		LGK-63MA	LGK-100MA
Input Power	V/Hz	3 ~ 380±15% 50/60	
Rated Input Capacity	KVA	9.3	15.8
Rated Input Current	A	14.5	24
Rated Open Circuit Voltage	V	265	300
Rated Duty Cycle	-	60% ( 40°C )	
Efficiency	-	93%	89%
Power Factor	-	0.76	0.85
Output Current Adjust Range	A	30~63	30~100
Quality Cut Thickness(Carbon Steel)	mm	15	25
Severance Cut Thickness(Carbon Steel)	mm	25	40
Arc Strike Mode	-	Contact	Non-Contact
Plasma Gas	-	Compressed Air	
Air Pressure	Mpa	0.3~0.5	0.4~0.6
Torch Cooling Mode	-	Air Cooling	
Power Source Cooling Mode	-	Air Cooling	
Insulation Grade	-	F	
Ingress Protection	-	IP21S	
Dimension ( LxWxH )	mm	530×280×485	
Net Weight	Kg	25	30

# LGK-120/200IGBT-B Inverter Plasma Gouging / Cutting Machine

## Main Features

- High rated duty cycle, specially for heavy industry use
- Wide adaptive capacity of voltage fluctuation
- Good dust-proof design, high reliability
- The gouging current can be precisely pre-set, stepless adjustable
- With air pressure detecting function, highly improve the torch consumable life
- With automatic protection function of over heating, lackvoltage and default phase
- The cutting capacity is as excellent as LGK-120/200IGBT

## Product Application

- It's mainly used for gouging carbon steel, stainless steel, aluminum and alloys
- Widely used in shipyard, pressure vessel and steel structure industries



## Main Technical Parameters

Item	Unit	LGK-120IGBT-B		LGK-200IGBT-B	
		Gouging	Cutting	Gouging	Cutting
Input Power	V/Hz	3~380±15% 50/60			
Rated Input Capacity	KVA	34.4	22.4	55	46.7
Rated Input Current	A	52.3	34	83.6	71
Rated Output Current	A	120		200	
Rated Output Voltage	V	200	128	200	160
Rated Open Circuit Voltage	V	380			
Rated Duty Cycle	-	100% ( 40°C )			
Output Current Adjust Range	A	30~120		40~200	
Arc Voltage Output Ratio	-	1:1/1:20/1:50/1:100			
Quality Cut Thickness (Carbon Steel)	mm	-	0.3~25	-	1~45
Severance Cut Thickness (Carbon Steel)	mm	-	45	-	65
Plasma Gas	-	Compressed Air			
Air Pressure	MPa	0.4~0.5	0.4~0.6	0.4~0.5	0.4~0.6
Torch Cooling Mode	-	Air Cooling		Water Cooling	
Power Source Cooling Mode	-	Air Cooling			
Insulation Grade	-	F			
Ingress Protection	-	IP21S			
Dimension ( L×W×H )	mm	675x320x605		800x380x810	
Net Weight	Kg	48		83	

# HYW-10B Liquid Filter Cooler

## Product Introduction

- HYW-10B is liquid filter cooler, specially designed for Huayuan LGK-HD and LGK-IGBT series plasma cutting machine
- It has strong cooling power with filter function, can communicate the signal with LGK series plasma cutting machine, if there is over-heating and low liquid level, the LGK plasma cutting machine will be forced to stop working, highly reduce the plasma torch spares consumption
- Only if work with this model cooler, the LGK series plasma cutting machine can work perfectly



## Main Technical Parameters

Item	Unit	Model
		HYW-10B
Input Power	V/Hz	1 ~ 220±10% 50/60
Rated Input Current	A	2.7
Input Input Capacity	KVA	0.6
Rated Cooling Power	KW	2.1
Rated Max Pressure	MPa	1.4
Liquid Tank Capacity	L	10
Cooling Mode	-	Air Cooling
Insulation Grade	-	IP21S
Dimension (L*W*H)	mm	750×450×665
Net Weight	Kg	50

# MZ-630/1000/1250IGBT Inverter Automatic Submerged Arc Welding Machine

## Main Features

- Weld penetration control technology
- Soft switch technology design with good welding performance
- 30% weight, 50% volume, 80% input capacity of the traditional machine
- High duty cycle design suitable for heavy industry
- CC/CV mode selection
- Welding current and voltage digital display
- Power source can be used for SAW, band strip welding, as well as MMA, Gouging and electrode slag welding

## Product Application

- Suitable for stainless steel, carbon steel and its alloy



## Main Technical Parameters

Item		Unit	Models		
			MZ-630IGBT	MZ-1000IGBT	MZ-1250IGBT
Power Source	Input Power	V/Hz	3 ~ 380±15% 50/60		
	Rated Input Capacity	KVA	33	53	66
	Rated Input Current	A	50	80	100
	Rated Output Current	A	630	1000	1250
	Rated Output Voltage	V	44		
	Rated Open Circuit Voltage	V	80	76	76
	Rated Duty Cycle	-	100% ( 40°C )		
	Efficiency	-	87%	94%	88%
	Power Factor	-	0.92	0.94	0.93
	Output Current Adjust Range	A	60~630	100~1000	100~1250
	Depth of Fusion Adjust	-	From Shallow to deep : DC, A, B, C, D ( A is the standard )		
	Cooling Mode	-	Air Cooling		
	Insulation Grade	-	F		
	Ingress Protection	-	IP21S		
Dimension ( LxWxH )	mm	676×335×625	795×410×835		
Net Weight	Kg	68	97	98	
Tractor	Suited Wire Diameter	mm	Ø2, Ø2.5, Ø3	Ø3, Ø4, Ø5	Ø3, Ø4, Ø5, Ø6
	Wire Feed Speed Adjust Range	cm/min	135~600	15~117	
	Welding Speed Adjust Range	cm/min	0~170		
	Welding Head Vertical Adjust Range	mm	93		
	Welding Head Horizontal Adjust Range	mm	±30		
	Crutch Vertical Adjust Range	mm	140		
	Wheel Tread	mm	300		
	Wheel Base	mm	350		
	Flux Capacity	L	10		
	Dimension ( LxWxH )	mm	1010x580x930		
Net Weight	Kg	52			

# MZ-1000/1250/1600 Thyristor Controlled Automatic Submerged Arc Welding Machine

## Main Features

- High duty cycle design, suitable for heavy industry
- High arc strike success
- PWM technology adjust the wire feed and tractor move speed, accurate control the speed
- Energy saving design, power source will be off if no arc strike within 30 min
- CC/CV mode selection
- Welding current and voltage digital display
- Power source can be used for SAW, strip cladding, as well as MMA, Gouging and electrode slag welding

## Product Application

- Suitable for stainless steel, carbon steel and its alloy



## Main Technical Parameters

Item	Unit	Models			
		MZ-1000	MZ-1250	MZ-1600	
Power Source	Input Power	V/Hz 3 ~ 380±10% 50/60			
	Rated Input Capacity	KVA	69	83	106
	Rated Welding Current	A	105	126	161
	Rated Output Current	A	1000	1250	1600
	Rated Output Voltage	V	44		
	Rated Open Circuit Voltage	V	75		
	Rated Duty Cycle	-	100% ( 40°C )	60% ( 40°C )	
	Output Current Adjust Range	A	100~1000	100~1250	200~1600
	Cooling Mode	-	Air Cooling		
	Insulation Grade	-	F		
	Ingress Protection	-	IP21S		
	Dimension ( LxWxH )	mm	950×650×810		
	Net Weight	Kg	370	370	390
Tractor	Suited Wire Diameter	mm	Ø3、Ø4、Ø5	Ø3、Ø4、Ø5、Ø6	Ø3、Ø4、Ø5、Ø6
	Wire Feed Speed Adjust Range	cm/min	15~117		
	Welding Speed Adjust Range	cm/min	0~170		
	Welding Head Vertical Adjust Range	mm	93		
	Welding Head Horizontal Adjust Range	mm	±30		
	Crutch Vertical Adjust Range	mm	140		
	Wheel Tread	mm	300		
	Wheel Base	mm	350		
	Flux Capacity	L	10		
	Dimension ( LxWxH )	mm	1010×580×930		
Net Weight	Kg	52			

# ZDE7-1200HD Inverter AC/DC Submerged Welding Power Source

## Product Introduction

ZDE7-1200HD is a digital controlled AC/DC submerged welding power source, has complete functions of submerged arc welding machines with advanced control technology, work well for different SAW welding process.

## Main Features

- Polarity and parameters can be set on the panel, four different welding process is available
- The AC square wave controlling technology is adopted, with high success rate of the arc starting, more stable arc
- Three AC output parameters of frequency, wave shape balance and DC bias can be separately adjust

## Product Application

- It's mainly used on single wire, tandem wire and triple wires submerged arc welding process
- Compare with traditional SAW welding power source, this model has faster welding speed, higher weld quality and efficiency
- It is widely used in steel structure building, bridge, shipyard and boilers, etc



## Main Technical Parameters

Item	Unit	Model
		ZDE7-1200HD
Input Power	V/Hz	3~380±10% 50
Rated Input Capacity	KVA	63.8
Rated Input Current	A	104
Rated Output Current	A	1200
Rated Output Voltage	V	44
Rated AC Output Current/Voltage Range	-	100A/20V ~ 1200A/44V
Rated Open Circuit Voltage	V	92
Rated Duty Cycle	-	100% ( 40°C )
Efficiency	-	78%
Power Factor	-	0.91
Wave Shape Balance	%	25 ~ 75
DC Bias	%	25 ~ 75
Cooling Mode	-	Air Cooling
Insulation Grade	-	F
Ingress Protection	-	IP21S
Dimension (L*W*H)	mm	930x470x1250
Net Weight	Kg	180



# MZE-1250 Automatic AC/DC Submerged Arc Welding Machine

## Main Features

- Power source can be used for AC single wire, DC single wire, strip cladding as well as Tandem SAW or multi-wire welding
- Welding Current DECP/DCEN ratio adjustable, deposition efficiency is 1.5 times higher than DC SAW
- High duty cycle design suitable for heavy industry
- Remote control/local control selection
- Welding Current/welding voltage digital display

## Product Application

- Suitable for stainless steel, carbon steel and its alloy



## Main Technical Parameters

Item		Unit	Model	
			MZE-1250	
Power Source	Input power	V/Hz	3~380±10% 50	
	Rated Input Capacity	KVA	125	
	Rated Input Current	A	190	
	Rated Output Current	A	1250	
	Rated Output Voltage	V	44	
	Rated Open Circuit Voltage	V	AC80, DC85	
	Rated Duty Cycle	AC	-	100% ( 40°C )
		DC	-	60% ( 40°C )
	Output Current Adjust Range	A	250~1250	
	AC Frequency	Hz	10	
	DCEP/DCEN Ratio Adjust Range	-	36%、50%、64%	
	Cooling Mode	-	Air Cooling	
	Insulation Grade	-	F	
	Ingress Protection	-	IP21S	
Dimension ( LxWxH )	mm	780×665×1370		
Net Weight	Kg	606		
Tractor	Suited Wire Diameter	mm	Ø3、Ø4、Ø5、Ø6	
	Wire Feed Speed Adjust Range	cm/min	15~117	
	Welding Speed Adjust Range	cm/min	0~170	
	Welding Head Vertical Adjust Range	mm	93	
	Welding Head Horizontal Adjust Range	mm	±30	
	Crutch Vertical Adjust Range	mm	140	
	Wheel Tread	mm	300	
	Wheel Base	mm	350	
	Flux Capacity	L	10	
	Dimension ( LxWxH )	mm	1010x580x930	
	Net Weight	Kg	52	

# MZS-3 Automatic Tandem AC/DC Submerged Arc Welding Machine

## Main Features

- One set of ZD5 or ZD7 power source work with the ZDE7-1200HD or ZDE-1250 can get two times higher efficiency compare with the single wire welding
- Two working mode: Single DC wire welding or Tandem AC/DC welding (DC in front, AC follow)
- Welding head can work with the gantry frame to get automatic welding process

## Product Application

- Suitable for stainless steel, carbon steel and it's alloy



## Main Technical Parameters (Trolley)

Item	Unit	Parameters
Suited Wire Diameter	mm	Ø2, Ø2.5, Ø3, Ø4, Ø5, Ø6
Wire Feeding mode	-	CC/CV
Wire Feeding Speed Adjust Range	cm/min	30~300
Welding Speed Adjust Range	cm/min	0~140
Welding Head Vertical Adjust Range	mm	100
Welding Head Horizontal Adjust Range	mm	±30
Crutch Vertical Adjust Range	mm	100
Wheel Thread	mm	342
Wheel Base	mm	300
Distance Between Two Arc	mm	25~80
Angle Of Two Arc	-	0°~25°
Flux Capacity	L	6x2
Dimension (L*W*H)	mm	1100x850x940
Net Weight	Kg	71

# NB-350/500/630HD Inverter Gas Shielded Arc Welding Machine

## Main Features

- High duty cycle design, suitable for heavy industry use
- Digital control and soft switch technology with good reliability
- Advanced adaptive control system, the arc characteristic can be matched with the wire type and wire diameter automatically.
- Accurate preset the welding parameters and control the welding performance
- The power devices and connectors dealt by anti-dust, anti-humid and anti-salty measurements
- Double drive, four roller wire feeder to get wire feed more stable wire feed
- Welding parameters preset, storage and selection function
- Reserved remote control connector, which the welding parameters can be controlled and managed by the computer
- With over voltage/lack voltage/ lack phase/overheat automatic protection function
- NB-630HD suitable for carbon gouging

## Product Application

- Suitable for low carbon steel and its alloy, aluminum and its alloy, copper and its alloy, stainless steel, etc.



## Main Technical Parameters

Item	Unit	Models		
		NB-350HD	NB-500HD	NB-630HD
Input Power	V/Hz	3 ~ 380±15% 50/60		
Rated Input Capacity	KVA	18	24.7	36.2
Rated Input Current	A	27	38	55
Rated Output Current	A	350	500	630
Rated Output Voltage	V	31.5	39	44
Rated Open Circuit Voltage	V	74	82	80
Rated Duty Cycle	-	100% ( 40°C )		
Efficiency	-	89%		
Power Factor	-	0.75	0.9	
Output Current Adjust Range	A	40 ~ 350	60 ~ 500	60 ~ 630
Output Voltage Adjust Range	V	14 ~ 40	16 ~ 50	16 ~ 50
Wire Feed Speed Adjust Range	m/min	1.3 ~ 20		
Suited Wire Diameter	mm	Ø0.8, Ø1.0, Ø1.2	Ø1.0, Ø1.2, Ø1.6	Ø1.0, Ø1.2, Ø1.6
Cooling Mode	-	Air Cooling		
Insulation Grade	-	F		
Ingress Protection	-	IP21S		
Dimension ( LxWxH)	mm	550×295×545	630×295×545	690×320×570
Net Weight	Kg	32	39	54

# NB-350/500/630IGBT Inverter Gas Shielded Arc Welding Machine

## Main Features

- Soft switch technology
- With stick welding function
- 100% duty cycle design for heavy industry use
- With high voltage and slow wire feed arc strike technology
- Good F.T.T ball eliminating function
- Accurate arc voltage and current feedback control circuit
- Crater filling when welding finish to improve weld appearance quality.
- With wire diameter, check gas selection function
- Crater current, crater voltage and arc characteristic separate adjust function
- Overload/lack voltage automatic protection function
- NB-630IGBT suitable for carbon gouging

## Product Application

- Suitable for low carbon steel and its alloy, aluminum and its alloy, copper and its alloy, stainless steel, etc.



## Main Technical Parameters

Item	Unit	Models		
		NB-350IGBT	NB-500IGBT	NB-630IGBT
Input Power	V/Hz	3 ~ 380±15% 50/60		
Rated input Capacity	KVA	16.5	26.3	36.2
Rated Input Current	A	25	40	55
Rated Output Current	A	350	500	630
Rated Output Voltage	V	31.5	39	44
Rated Open Circuit Voltage	V	74	80	
Rated Duty Cycle	-	100% ( 40°C )		
Output Current Adjust Range	A	60~350	60~500	60~630
Output Voltage Adjust Range	V	16~40	16~50	16~50
Wire Feed Speed Adjust Range	m/min	1.3~20		
Suited Wire Diameter	mm	Ø0.8、Ø1.0、Ø1.2	Ø1.0、Ø1.2、Ø1.6	
Cooling Mode	-	Air Cooling		
Insulation Grade	-	F		
Ingress Protection	-	IP21S		
Dimension(LxWxH)	mm	570×290×530	640×290×530	690×320×570
Net Weight	Kg	32	39	54

# NB-350/500IGBT Pro Inverter Gas Shielded Arc Welding Machine

## Main Features

- A digital controlled welding machine, adopting inverter soft switch technology
- The control board parts are adopted advanced sheet-contact process, with high stability and low failure rate
- The latest technology IGBT modules and rectifier diodes are used on the machine, with good reliability
- Accurate arc voltage and current feedback control circuit, the welding processes is stable with little spatter and good performance
- With crater filling function when welding finish to improve the crater welding seam quality
- Adopting PWM inverter technology, frequency reaches 20KHz, the machine is with fast reaction
- With automatic protection function of over-heating, over pressure, lack pressure and default phase
- Lighter weight, smaller size and more user-friendly design, easy to operate

## Product Application

- It is widely used for all steel welding, especially suitable for heavy industries like construction, bridge construction, automobile, ship building and machinery, etc.



## Main Technical Parameters

Item	Unit	Models		
		NB-350IGBT Pro	NB-500IGBT Pro	
Input Power	V/Hz	3 ~ 380±15% 50 / 60		
Rated Input Capacity	MIG/MAG	KVA	17.4	23.8
	MMA	KVA	17.8	24.4
Rated Input Current	MIG/MAG	A	27	36
	MMA	A	27	37
Rated Output Current	A	350	500	
Rated Output Voltage	V	31.5	39	
Rated Open Circuit Voltage	V	69	83	
Rated Duty Cycle	-	60% ( 40°C )		
Efficiency	MIG/MAG	-	88%	89%
	MMA	-	89%	89%
Power Factor	MIG/MAG	-	0.72	0.92
	MMA	-	0.75	0.92
Output Current Adjust Range	MIG/MAG	A	40 ~ 350	60 ~ 500
	MMA	A	60 ~ 350	60 ~ 500
Output Voltage Adjust Range	MIG/MAG	V	14 ~ 40	16 ~ 50
Starting Current Adjust Range	A	40 ~ 350	60 ~ 500	
Starting Voltage Adjust Range	V	16 ~ 31.5	16 ~ 39	
Crater Current Adjust Range	A	40 ~ 350	60 ~ 500	
Crater Voltage Adjust Range	V	16 ~ 31.5	16 ~ 39	
Wire Feeding Speed	m/min	1 ~ 22		
Suitable Wire Diameter	mm	Ø0.8, Ø1.0, Ø1.2	Ø1.0, Ø1.2, Ø1.6	
Cooling Mode	-	Air Cooling		
Insulation Grade	-	F		
Ingress Protection	-	IP21S		
Dimension (L×W×H)	mm	520×295×550	560×295×550	
Power Source Net Weight	Kg	28	32	

# NB-350/500MK Inverter Gas Shield Arc Welding Machine

## Main Features

- User friendly interface, easier parameters set and operation
- Arc characteristic is adjustable, suit for more different welding condition
- Base current and voltage can be separately set, get easier welding operation
- With gas checking function, easy to set the gas flow
- With protection function of over heating and lackvoltage, get more stable operation
- Higher distance of the output terminals, more suitable for site working condition

## Product Application

- Suitable for carbon steel industries which use CO<sub>2</sub> /MAG welding process, specially used in building, bridge steel structure, project machinery, etc



## Main Technical Parameters

Item	Unit	Models	
		NB-350MK	NB-500MK
Input Power	V/Hz	3 ~ 380±15% 50/60	
Rated Input Capacity	kVA	17.4	23.8
Rated Input Current	A	26.5	36.2
Rated Output Current	A	350	500
Rated Output Voltage	V	31.5	39
Rated Open Circuit Voltage	V	69	83
Rated Duty Cycle	-	60% (40°C)	
Efficiency	-	87%	89%
Power Factor	-	0.73	0.92
Output Current Adjust Range	A	40 ~ 350	60 ~ 500
Output Voltage Adjust Range	V	14 ~ 40	14 ~ 50
Wire Feeding Speed Adjust Range	m/min	1 ~ 22	
Suited Wire Diameter	mm	Ø0.8、Ø1.0、Ø1.2	Ø1.0、Ø1.2、Ø1.6
Cooling Mode	-	Air Cooling	
Insulation Grade	-	F	
Ingress Protection	-	IP21S	
Dimension (L*W*H)	mm	520×295×550	560×295×570
Net Weight	Kg	28	32

# NB-250LB/315LB/250LT/315LT Inverter Gas Shield Arc Welding Machine

## Main Features

- Fast arc striking, low welding spatter, rapid wire feeding response and excellent spot welding performance
- Adopting SMT circuit and soft switch technology
- Unique design of arc voltage / current feedback control circuit, with very stable welding performance
- With ball-eliminating function, the wire feeding speed can reach m/min
- The arc characteristic is adjustable from “soft” to “hard” for different welding skill
- Model NB-250/315LB, the welding current and voltage can be adjusted on the wire feeder, easy to operate
- Model NB-250/315LT, the wire feeder is inside built the machine, with wheels and optional gas cylinder frame, easy to operate
- With automatic over-heating function



\* Gas cylinder bracket is optional

## Product Application

- Suitable for the solid wire  $\Phi 0.8$  and  $\Phi 1.0$ , used for the welding of low carbon steel, medium carbon steel and alloy carbon steel;
- It's widely used in the industry of motors, motorcycles, furniture and so on.



## Main Technical Parameters

Item	Unit	Models			
		NB-250LB	NB-315LB	NB-250LT	NB-315LT
Input Power	V / Hz	3 ~ 380±15% 50 / 60			
Rated Input Capacity	KVA	10.5	13.2	10.5	13.2
Rated Input Current	A	16	20	16	20
Rated Output Current	A	250	315	250	315
Rated Input voltage	V	26.5	29.8	26.5	29.8
Rated Open Circuit Voltage	V	68		66	
Rated Duty Cycle	-	35% ( 40°C )			
Efficiency	-	85%	86%	85%	86%
Power Factor	-	0.74	0.85	0.74	0.75
Output Voltage Adjust Range	V	15 ~ 32			
Wire Feeding Speed Adjust Range	m/min	1.5 ~ 28			
Suited Wire Diameter	mm	Ø0.8, Ø1.0			
Cooling Mode	-	Air Cooling			
Insulation Grade	-	F			
Ingress Protection	-	IP21S			
Dimension (L*W*H)	mm	520×260×495		640×300×645	
Net Weight	Kg	20	21	38	39

# NZ-IV Automatic Gas Shielded Welding Tractor

## Main Features

- Adopting single chip(MCU) control, step motor drive, the torch swing parameters are accurate
- With four roller drive motor to get stable wire feed
- Welding current, welding voltage and welding speed is easy to adjust
- Swing speed, swing angle, stop time, crater time parameter separately adjust
- Digital display
- Parameter storage and selection function

## Product Application

- Work with the MIG welding power source for mid and thick plate and corner welding
- Widely used on steel structure, ship building, pressure vessel, pipe industries and so on



## Main Technical Parameters

Item	Unit	Model
		NZ-IV
Input Power	V/Hz	1 ~ 380V±15% 50/60
Suited Wire Diameter	mm	Ø1.0, Ø1.2, Ø1.6
Wire Feed Mode	-	Constant Speed Wire Feed
WireFeed Speed Adjust Range	m/min	1~18
Welding Speed Adjust Range	cm/min	0~230
Torch Vertical Adjust Range	mm	100
Torch Horizontal Adjust Range	mm	100
Torch Back-Forth Slit Angle	-	±45°
Torch Left-Right Slit Angle	-	±55°
Swing Speed	-	0~360 rad/min
Swing Angle	-	0°~10°
Left Stop Time Adjust Range	S	0~5.0
Mid Stop Time Adjust Range	S	0~5.0
Right Stop Time Adjust Range	S	0~5.0
Arc Crater Time Adjust Range	S	0.0~5.0
Channel Selection	-	With Nine Sets Parameter Channel
Power Source Selection	-	NB-IGBT, NB-HD Series
Wheel Tread	mm	300
Wheel Base	mm	350
Dimension(LxWxH)	mm	720x670x1100
Net Weight	Kg	38



# WSE-315LD/315MD/500HD Inverter AC/DC Pulsed Argon Arc Welding Machine

## Main Features

- Digital control technology
- With complete required characteristics of DC TIG welding and AC TIG welding
- All the parameters of TIG and MMA can be preset, saved and selected
- Optional 2 steps/4 steps/special 4 steps functions
- With gas checking function, easy for argon gas flow adjust
- With complete protection function of lackvoltage, default phase, over heating and water cooling abnormal
- WSE-315LD/315MD with reserved pedal controller connector, WSE-500HD with parallel connector

## Product Application

- Suitable for carbon steel, stainless steel, aluminum and it's alloy, copper and it's alloy, heat resistant steel, titanium alloy, magnesium alloy, etc



## Main Technical Parameters

Item	Unit	Models			
		WSE-315LD	WSE-315MD	WSE-500HD	
Input Power	V/Hz	3 ~ 380+15% 50 / 60			
Rated Input Capacity	KVA	14.5	13.8	25	
Rated Input Current	A	22	21	38	
Rated Output Current	A	315	315	500	
Rated Output Voltage	V	22.6	22.6	30	
Rated Open Circuit Voltage	V	70	72	72	
Rated Duty Cycle	-	25%	35%	60%	
Efficiency	-	72%	68%	72%	
Power Factor	-	0.69	0.81	0.84	
Hot Start Current Adjust Range	AC	A	20 ~ 315	20 ~ 315	20 ~ 500
	DC	A	10 ~ 220	10 ~ 250	10 ~ 350
Welding Current Adjust Range	AC	A	20 ~ 315	20 ~ 315	20 ~ 500
	DC	A	10 ~ 220	10 ~ 250	10 ~ 350
Pulse Current Adjust Range	AC	A	20 ~ 315	20 ~ 315	20 ~ 500
	DC	A	10 ~ 220	10 ~ 250	10 ~ 350
Background Current Adjust Range	AC	A	20 ~ 315	20 ~ 315	20 ~ 500
	DC	A	10 ~ 220	10 ~ 250	10 ~ 350
Crater Current Adjust Range	AC	A	20 ~ 315	20 ~ 315	20 ~ 500
	DC	A	10 ~ 220	10 ~ 250	10 ~ 350
Pulse Frequency Adjust Range	Hz	0.2 ~ 99.9			
Pulse Duty Cycle Adjust Range	%	10% ~ 90%			
AC Frequency Adjust Range	Hz	20 ~ 200			
AC Wave Balance Adjust Range	-	-40 ~ 40			
Current Up-slope Time Adjust Range	S	0 ~ 10			
Current Down-slope Time Adjust Range	S	0 ~ 10			
Gas Pre Flow Time Adjust Range	S	0 ~ 10			
Gas Post Flow Time Adjust Range	S	0 ~ 20			
Dimension ( LxWxH )	mm	635×290×555	705×350×650	725×385×785	
Net Weight	Kg	38	52	70	

# WS(M)-400/500HD Inverter(Pulse) Argon Arc Welding Machine

## Main Features

- High rated duty cycle which is very suitable for heavy industry use
- With complete protecting and indicating function
- Digital control to get accurate welding parameter
- With 20 channels of parameter storage and selection
- Accurate welding parameter preset function
- With excellent stick welding function
- WSM Series with pulse function, which makes good strength of arc
- Remote network management is available

## Product Application

- Suitable for welding stainless steel, pipelines, boilers some others metals
- It is widely used in electric power construction, chemical construction, oil field construction and heavy industry which requires frequent moving in bad environment



## Main Technical Parameters

Item	Unit	Models			
		WS(M)-400HD		WS(M)-500HD	
		TIG	MMA	TIG	MMA
Inout Power	V/Hz	3 ~ 380±15% 50/60			
Rated Input Capacity	KVA	15.1	21.1	22.4	27.8
Rated Input Current	A	23	32	34	42
Rated Output Current	A	400	400	500	500
Rated Output Voltage	V	26	36	30	40
Rated Open Circuit Voltage	V	75	75	81	81
Power Factor	-	0.84	0.82	0.81	0.84
Efficiency	-	83.1%	85.9%	83.9%	86.3%
Rated Duty Cycle	-	60% ( 40°C )			
Hot Start Current Range	A	-	0~120	-	0~120
Arc Force Current Range	A	-	0~120	-	0~120
Current Up Slope Time	S	0~10	-	0~10	-
Current Down Slope Time	S	0~10	-	0~10	-
Gas Pre-flow Time	S	0~5	-	0~5	-
Gas Post-flow Time	S	0~20	-	0~20	-
Arc Striking Current Range	A	5~400	-	5~500	-
Output Current Range	A	5~400	5~400	5~500	5~500
Crater Current Range	A	5~400	-	5~500	-
Pulse Peak Current Range	A	5~400	-	5~500	-
Pulse Background Current Range	Hz	0.2~99.9	-	0.2~99.9	-
Pulse Frequency Range	-	5~95%	-	5~95%	-
Cooling Mode	-	Air Cooling			
Insulation Grade	-	F			
Ingress Protection	-	IP21S			
Dimension (L×W×H)	mm	570×295×555		640×295×555	
Power Source Net Weight	Kg	35		41	

# WS(M)-315/400IGBT Pro Inverter (Pulse) Argon Arc Welding Machine

## Main Features

- A digital controlled welding machine, adopting inverter soft switch technology
- The latest technology IGBT modules and rectifier diodes are used on the machine, with good reliability
- With excellent MMA welding function, the hot start current and arc force current can be adjusted separately
- Accurate welding control, with excellent arc striking
- Lighter weight, smaller size and more user-friendly design, easy to operate
- With automatic protection function of over-heating, over pressure, lack pressure and default phase
- All the welding parameters can be preset, stored and called out, with 2 steps and 4 steps function selection

## Product Application

- It's mainly used for welding carbon steel, stainless steel, copper and its alloy, heat resistant steel, titanium alloy, etc
- It is widely used in electric power construction, chemical construction, oil field construction and heavy industry which requires frequent moving in bad environment



## Main Technical Parameters

Item	Unit	Models			
		WS-315IGBT Pro	WSM-315IGBT Pro	WS-400IGBT Pro	WSM-400IGBT Pro
Input Power	V/Hz	3 ~ 380±15% 50 / 60			
Rated Input Capacity	TIG	11.3			14.7
	MMA	14.7			19.5
Rated Input Current	TIG	17			22
	MMA	22			30
Rated Output Voltage	TIG	22.6			26
	MMA	32.6			36
Rated Open Circuit Voltage	V	64			73
Rated Duty Cycle	-	35% ( 40°C )			
Efficiency	TIG	81%			89%
	MMA	86%			91%
Power Factor	TIG	0.77			0.79
	MMA	0.81			0.81
Hot Start Current Range	MMA		0 ~ 120		
Arc Force Current Range	MMA		0 ~ 120		
Gas Pre-flow Time	S		0 ~ 5		
Gas Post-flow Time	S		0 ~ 20		
Current Up-slope Time Range	S		0 ~ 10		
Current Down-slope Time Range	S		0 ~ 10		
Arc Striking Current Range	A	5 ~ 315			5 ~ 400
Output Current Range	A	5 ~ 315			5 ~ 400
Crater Current Range	A	5 ~ 315			5 ~ 400
Pulse Peak Current Range	A	/	5 ~ 315	/	5 ~ 400
Pulse Background Current Range	A	/	5 ~ 315	/	5 ~ 400
Pulse Frequency Range	Hz	/	0.2 ~ 99.9	/	0.2 ~ 99.9
Pulse Duty Ratio Range	-	/	10% ~ 90%	/	10% ~ 90%
Cooling Mode	-	Air Cooling			
Insulation Grade	-	F			
Ingress Protection	-	IP21S			
Dimension (L×W×H)	mm	520×260×495			
Power Source Net Weight	Kg	23			26

# RSN-1600/2500/3150HD Inverter Drawn Arc Stud Welding Machine

## Main Features

- Digital control, soft switch technology, light weight and small volume, easy for move
- Welding current/welding time digital control, accurate to control the weld heating
- Welding gun testing function to check the welding gun work before welding
- Auto/Manual selection function, which suitable for multi-layer penetration welding
- With stick welding function
- Digital display for welding current and time
- With remote control connector which can be controlled by computer

## Product Application

- Suitable for carbon steel and stainless steel stud welding



## Main Technical Parameters

Item	Unit	Models		
		RSN-1600HD	RSN-2500HD	RSN-3150HD
Input Power	V/Hz	3 ~ 380±15% 50/60		
Rated Input Capacity	KVA	73.5	107	145
Rated Input Power	KW	69	94	126
Rated Input Current	A	112	162.5	220
Rated Input Voltage	V	32		
Efficiency	-	74%	80%	82%
Power Factor	-	0.94	0.88	0.94
Welding Current Adjust Range	A	160~1600	250~2500	315~3150
Welding Time Adjust Range	S	0.01~9.99		
Suited Stud Diameter	mm	Ø6~Ø19	Ø6~Ø25	Ø6~Ø30
Suited Stud Length	mm	≤400		
Welding Productivity	pcs/min	16~25		
Cooling Mode	-	Air Cooling		
Insulation Grade	-	F		
Ingress Protection	-	IP21S		
Dimension(LxWxH)	mm	680×335×625	780×390×800	780×390×800
Net Weight	Kg	50	105	107

# RSR-2500 Condenser Discharge Stud Welding Machine

## Main Features

- Low power capacity, short welding time and small heat deformation, very suitable for stud welding on thin plate
- Adopt current-limiting charging technology, which highly reduces the impact of the power network
- The charging voltage of condenser is stable, with good uniformity of storage energy
- Use top quality elements, with small size and light weight, easy to move
- Digital display, with protection function of over charging

## Product Application

- It's mainly used for welding small studs of carbon steel/alloy, stainless steel, copper/alloy, aluminum/alloy



## Main Technical Parameters

Item	Unit	Model	
		RSR-2500	
Input Power	V/Hz	1 ~ 220±10% 50/60	
Rated Storage Energy	J	2500	
Power Capacity	VA	≤1000	
Output Voltage Adjust Range	V	60~190	
Suitable Stud Diameter	Steel	mm	Ø4~Ø10
	Copper/Aluminum	mm	Ø3~Ø8
Welding Efficiency	n/min	12~5	
Cooling Mode	-	Air Cooling	
Insulation Grade	-	F	
Ingress Protection	-	IP21S	
Dimension(L×W×H)	mm	490×260×405	
Net Weight	Kg	36	

# ZX7-400/500/630HD Inverter DC Arc Welding Machine

## Main Features

- High duty cycle design, suitable for heavy industry use
- Digital control and soft switch technology with good reliability
- Particular anti-electric shock protection function
- Digital display
- With welding current, arc force and hot start current preset, storage and selection function
- Reserved remote control connector, which the welding parameters can be controlled and managed by the computer
- With over voltage/lack voltage/ lack phase/overheat automatic protection function
- ZX7-630HD suitable for carbon gouging

## Product Application

- Suitable for low carbon steel, mild carbon steel, alloy steel and stainless steel



## Main Technical Parameters

Item	Unit	Models		
		ZX7-400HD	ZX7-500HD	ZX7-630HD
Input Power	V/Hz	3 ~ 380±15% 50/60		
Rated Open Circuit Voltage	V	83.5		
Rated Input Capacity	KVA	16.5	25.1	34.5
Rated Input Current	A	25	38.2	52
Rated Duty Cycle	-	60% ( 40°C )		
Efficiency	-	86%	87%	89.00%
Power Factor	-	0.89	0.91	0.92
Output Current Adjust Range	A	10 ~ 400	10 ~ 500	10 ~ 630
Arc Force Current Adjust Range	A	0 ~ 120		
Hot Start Current Adjust Range	A	0 ~ 120		
Suited Electrode Diameter	mm	≤Φ6		
Cooling Mode	-	Air Cooling		
Insulation Grade	-	F		
Ingress Protection	-	IP21S		
Dimension(LxWxH)	mm	570×290×540	630×290×540	630×290×540
Net Weight	Kg	38	42	43

# ZX7-400IGBT Pro / ZX7-400MB Pro Inverter DC Arc Welding Machine

## Main Features

- Adopts soft switch technology, world famous brand components
- Use the latest technology IGBT module, reliable and durable
- Current presetting function, high efficiency and energy-saving
- Dispensing technology is used on the control board, with very low failure rate of the PCB
- Automatic compensation function of input voltage fluctuating
- Protection function of over-voltage, lackvoltage and overheat
- Good dynamic characteristic, stable arc, nice weld appearance, low spatter
- ZX7-400MB Pro is an ideal replacement of traditional AC welding machine

## Product Application

- It's mainly used to weld kinds of low carbon steel, medium carbon steel, alloy steel and the stainless steel; Use both acid electrode and basic electrode
- It's widely used in industrial equipment installation, electric construction, oil construction, mechanical parts manufacturing, and pressure vessel fabrication and so on



## Main Technical Parameters

Item	Unit	Models	
		ZX7-400IGBT Pro	ZX7-400MB Pro
Input Power	V/Hz	3 ~ 380V±15% 50/60	
Input Capacity	KVA	19.7	14.5
Rated Input Current	A	30	22
Rated Open Circuit Voltage	V	81	64
Rated Duty Cycle	-	35% ( 40°C )	
Efficiency	-	87%	
Power Factor	-	0.88	
Output Current Adjust Range	A	20 ~ 400	20 ~ 330
Arc Force Current Adjust Range	A	0 ~ 150	
Hot Start Current Adjust Range	A	0 ~ 120	
Suited Electrode diameter	mm	≤Φ6	≤Φ5
Cooling Mode	-	Air Cooling	
Insulation Grade	-	F	
Ingress Protection	-	IP21S	
Dimension (L×W×H)	mm	520×260×495	425×260×495
Net Weight	Kg	23	18

# ZX7-250LS Inverter DC Arc Welding Machine

## Main Features

- Double voltage of AC220V and AC380V auto-adaptation, easy to use in different site
- Automatic voltage compensation suit for voltage fluctuation;
- Automatic protect function for low input voltage and overload
- Good characteristic and stable arc with little spatter and good performance
- Suitable for kinds of acid electrode and basic electrode
- Automatic protection function on over-heating
- Portable size and light weight, easy to move and operate

## Product Application

- Main used for welding low carbon steel, medium carbon steel alloy steel and stainless steel



## Main Technical Parameters

Item	Unit	Model	
		ZX7-250LS	
Input Power	V/Hz	1~220±15% 50/60	1~380±15% 50/60
Rated Input Capacity	KVA	11.2	12.2
Rated Input Current	A	51	32
Rated Open Circuit Voltage	V	79	68
Rated Duty Cycle	-	25% ( 40°C )	
Efficiency	-	83%	85%
Power Factor	-	0.8	0.73
Output Current Adjust Range	A	20~250	
Suited Electrode Diameter	mm	≤Ø4	
Cooling Mode	-	Air Cooling	
Insulation Grade	-	F	
Ingress Protection	-	IP21S	
Dimension (L*W*H)	mm	460×250×420	
Net Weight	Kg	14	



# ZX7-1000HD Inverter Air Gouging Machine

## Main Features

- Big power with strong output current, specially design for carbon air gouging
- 100% rated duty cycle, suited for working in heavy industry
- Digital control with soft switch inverter technology, equip with international first-class brand key components, very good reliability
- Intelligent fan is used to reduce the dust
- With anti-electric shock function
- Parameters can be preset, saved, and selected, easy to operate
- With automatic protection function of lackvoltage, default phase and over heating
- With Excellent MMA function



## Product Application

- It is mainly used in welding rooting, making groove, removing the welding flaws, on different materials of carbon steel, low carbon steel, stainless steel, cast iron, aluminum alloy and so on.

## Main Technical Parameters

Item	Unit	Model
		ZX7-1000HD
Input Power	V/Hz	3 ~ 380±15% / 50/60
Rated Input Capacity	KVA	58.6
Rated Input Current	A	89
Rated Welding Current	A	1000
Rated Welding Voltage	V	54
Open Circuit Voltage	V	100
Rated Duty Cycle	-	100%
Welding Current Adjust Range	A	40 ~ 1000
Insulation Grade	-	F
Dimension (L*W*H)	mm	795×410×835
Net Weight	Kg	89



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