

Product Catalogue

Version 2017



เครื่องเชื่อม **ฮั่วยวน** เชื่อมทางเจริญ

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HWAYUAN® HIGH LOAD

Good welder , Quality for factory

อีกแบบดีคุณภาพจากเครื่องเชื่อม **สิงโตคู่**

รับประกัน 2 ปี

SISC

Star Industrial Supply Chain Co.,Ltd.

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Company Introduction

บริษัท สตาร์ อินดัสเทรียล ชัพพลาย เซน จำกัด นำเข้าเครื่อง
เชื่อมประเภท DC Inverter; คุณภาพเพื่อโรงงาน “Good welder, quality for factory”;
TradeMark: “SISC”; Brand Name: “HUAYUAN”, “HIGH LOAD”; “LION STAR”
จากต่างประเทศ และเป็นผู้จัดจำหน่าย
เครื่องเชื่อม ตราฮัวยวน “HUAYUAN” รายเดียวในประเทศไทย

The company has complete research, production and quality control equipments. Through years' technical and running experience, company has successfully developed HUAYUAN WELDER brand MMA, TIG, MIG, SAW, Stud welding, Electrode slag welding, air plasma cutting, CNC cutting and other automatic welding equipments, nearly more than 30 series and 200 models. With an annual production about 100000 sets, now it is one of the largest welding and cutting equipment manufacturers in China.

The company has standardized with the ISO quality control certification, get the CCC, CE, UL, energy saving certification and several technical patents. It is one of the members of the drafting standard for GB 15579.1-2013 and GB/T 8118-2010 and gets many awards.

The company has established more than 90 sales networks in domestic industrial cities and has built long time cooperation partner in east and south Asia, America, Africa and European countries. The sales network has reaches all over the world.

Huayuan keeps the continuous innovation, stands on the leading edge of high technology and devotes efforts on better welding and cutting equipments for industrial application, creates more value to customer and the society.

Company Culture



Beijing Essen Fair



Customer Visiting



Staff Fire Training



Undergraduate Trainee



Staff Tour



Military Training Of Administrative Staffs

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LG-125/200HA (ROB)

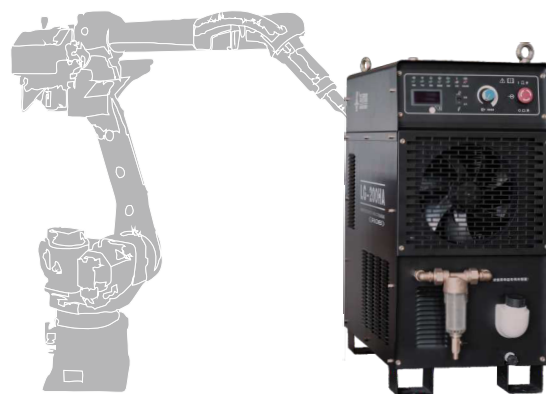
Robot Use Plasma Cutting Machine

Main features

- It's a professional model specially for robot use, air cooling/water cooling box built inside the machine, with smaller size and weight
- All the machine signals are totally isolated with the robot system, confirm the stable system communication and 0 signal disturb
- There is starting signal and arc striking successful-signal which required by robot system, makes the arc striking and cutting more stable
- There is current adjust signal, the cutting current can be accurately adjusted timely, get excellent cutting quality
- There is abnormal protecting signal, it alarms if the gas is abnormal
- The connectors for robot systems are separately designed, the THC connector is optional remained for different requires
- There is optional plasma torch and rotating torch holder, easy to get groove cutting and random-space-curve cutting

Product Application

- It is widely used for carbon steel, alloy steel, ferrous metal cutting
- It is widely used in metal cutting industries like advertisement, pressure vessel, water and electric power, chemical, aerospace, automotive, constructions and parts fabrication



Main Technical Parameters

| Item | Unit | Models | |
|--------------------------------------|------|-------------------|------------------------------------|
| | | LG-125HA (ROB) | LG-200HA (ROB) |
| Input Power | V/Hz | 3 ~ 380±15% 50/60 | |
| Rated input capacity | KVA | 24.1 | 55.3 |
| Rated input Current | A | 36.7 | 83.2 |
| Rated Output Current/Voltage | A/V | 125/130 | 200/200 |
| Rated Open Circuit Voltage | V | 320 | 360 |
| Rated Duty Cycle | - | 100% (40°C) | 100% (40°C) |
| Efficiency | - | 90% | 92% |
| Power Factor | - | 0.74 | 0.8 |
| Output Current Range | A | 30 ~ 125 | 40 ~ 200 |
| Output Ratio Of Arc Voltage Signal | - | 1:1 | |
| Arc Striking Mode | - | Non-contact | |
| Plasma Gas | - | Air | Air/N ₂ /O ₂ |
| Shielding Gas | - | Air | Air/N ₂ |
| Air Pressure | Mpa | 0.4 ~ 0.6 | 0.4 ~ 0.6 |
| Quality Cut Thickness (Carbon Steel) | mm | 25 (580mm/min) | 32 (500mm/min) |
| Insulation Grade | - | F | |
| Cooling Mode | - | Air cooling | |
| Ingress Protection | - | IP21S | |
| Dimension (L×W×H) | mm | 670×320×600 | 850×410×880 |
| Arc Ignition Controller Net Weight | Kg | 4.5 | 9.3 |
| Power Source Net Weight | Kg | 49 | 106 |

LG-65MA/125HA/200HA

Inverter Automated Plasma Cutting Machine

Main features

- Special design for CNC cutting machine, with small volume, light weight
- High tech HF control technology which is separate from the power source to reduce the HF interference
- Gas control separate from the power source: shorter gas circuit, more stable gas pressure with good cutting quality
- High duty cycle for heavy industry use
- Cutting current up-slope technology to reduce loss of wearing parts
- Gas check function for easy adjust the air pressure
- LG-65MA/125HA is with constant pilot arc strike function, which suitable for grid plate cutting
- LG-200HA with torch cooling system, which is with high-lift pump and high power radiator to reduce the loss of wearing parts

Product Application

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



Main Technical Parameters

| Item | Unit | Models | | |
|-------------------------------------|------|-------------------|------------------|------------------------------------|
| | | LG-65MA | LG-125HA | LG-200HA |
| Input Power | V/Hz | 3 ~ 380±15% 50/60 | | |
| Rated Input Capacity | KVA | 10 | 24.1 | 55.3 |
| Rated Input Current | A | 15.3 | 36.7 | 83.2 |
| Rated Output Current/Voltage | A/V | 65/106 | 125/130 | 200/200 |
| Rated Open Circuit Voltage | V | 300 | 320 | 360 |
| Rated Duty Cycle | - | 60% (40°C) | 100% (40°C) | 100% (40°C) |
| Efficiency | - | 87% | 90% | 92% |
| Power Factor | - | 0.79 | 0.74 | 0.8 |
| Rated Output Current Adjust Range | A | 30 ~ 65 | 30 ~ 125 | 40 ~ 200 |
| Arc Voltage Output Signal Ratio | - | 1:1 | | |
| Arc Strike Mode | - | Non-contact | | |
| Plasma Gas | - | Air | Air | Air/N ₂ /O ₂ |
| Shielding Air | - | - | - | Air/N ₂ |
| Air Pressure | Mpa | 0.3 ~ 0.6 | 0.4 ~ 0.6 | 0.4 ~ 0.6 |
| Quality Cut Thickness(Carbon Steel) | mm | 12(850mm/min) | 25 (580mm/min) | 32 (500mm/min) |
| Insulation Grade | - | F | | |
| Power Source Cooling Mode | - | Air Cooling | | |
| Ingress Protection | - | IP21S | | |
| Dimension(LxWxH) | mm | 585×280×485 | 670×320×600 | 850×410×880 |
| Arc Ignition Controller Net Weight | Kg | 2.5 | 4.5 | 9.3 |
| Power Source Net Weight | Kg | 24 | 53 | 106 |

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

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℃) | 100% (40℃) | | | | | |
| Output Current Adjust Range | A | 30~63 | 30~100 | 30~120 | 40~160 | 40~200 | 60~300 | 60~400 |
| Arc Voltage Output Signal 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 |
| 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 | 695x320x580 | | 800x380x610 | 800x380x810 | 890x430x900 | 930x430x900 |
| 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 |
| Max. 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 |

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% volumn ; 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℃) | | |
| | 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 | 1010x580x930 | | |
| | Net Weight | Kg | 52 | | |

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 |
| Tractor | Dimension (LxWxH) | mm | 780×665×1370 |
| | Net Weight | Kg | 606 |
| | 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-1

Automatic Tandem AC/DC Submerged Arc Welding Machine



Main features

- One set of ZD5 or ZD7 power source work with the ZDE-1250 power source can get two times higher efficiency compare with the single wire welding
- DC in front, AC follow to work simultaneously, or can be used separate
- Welding head can work with the gantry frame to get automatic welding

Product Application

- Suitable for stainless steel, carbon steel and its alloy



Main Technical Parameters

| Item | Unit | Model |
|--------------------------------------|--------|-------------------------------|
| | | Tandem Tractor |
| Suited Wire Diameter | mm | Ø3、Ø4、Ø5、Ø6 |
| Wire Feed Mode | - | Constant Speed/Variable Speed |
| 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 | 60 |
| Wheel Tread | mm | 350 |
| Wheel Base | mm | 350 |
| Distance Between Two Arc | mm | 30~70 |
| Angle Of Two Arc | - | 0°~15° |
| Flux Capacity | L | 10 |
| Dimension(LxWxH) | mm | 1100x660x970 |
| Net Weight (only tractor) | Kg | 90 |

NB-350/500HD (ROB)

Robot Use Gas Shielded Arc Welding Machine



Main features

- This model is specially designed for automatic robot use, with I/O communication interface
- This model can be accurately controlled by the robot software
- Some information such as machine standby, arc striking and welding wire sticking, can be real-time feedback to the robot for processing
- With starting point checking function, which confirms the uniformity of bulk welding products
- The wire-feeding system is small and light, highly reduce the load of robot arm
- There is a manual wire feeding knob, it makes easier to change welding wire
- Two programmable interfaces are reserved on the machine, for expanding some more special function

Product Application

- This kind of machine is widely used for high efficiency welding like carbon steel, low alloy steel, especially suitable for ship building, steel construction, cabin making, machinery, oil filed and automotive making



Main Technical Parameters

| Item | Unit | Models | |
|-----------------------------|-------|-------------------|----------------|
| | | NB-350HD(ROB) | NB-500HD (ROB) |
| Input Power | V/Hz | 3 ~ 380±15% 50/60 | |
| Rated Input Capacity | KVA | 18 | 24.7 |
| Rated Input Current | A | 27 | 38 |
| Rated Output Current | A | 350 | 500 |
| Rated Output Voltage | V | 31.5 | 39 |
| Rated Open Circuit Voltage | V | 74 | 82 |
| Rated Duty Cycle | - | 100% (40℃) | |
| Efficiency | - | 89% | |
| Power Factor | - | 0.75 | 0.9 |
| Output Current Adjust Range | A | 40 ~ 350 | 60 ~ 500 |
| Output Voltage Adjust Range | V | 14 ~ 40 | 16 ~ 50 |
| Wire Feeding Adjust Range | m/min | 1.3~20 | |
| 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 | 550×295×545 | 630×295×545 |
| Power Source Net Weight | Kg | 33 | 40 |

NB-350/500HP

Double Pulse Gas Shielded Arc Welding Machine



Main features

- Adopt double pulse controlling technology, get excellent welding performance without swinging
- Adopt floating DSP controlling, the welding process is previously controlled with stable welding
- Without any of welding spatter under double pulse technology
- Expert database built inside, the welding parameter can be automatically matched according to different wire diameter and materials
- High success rate of arc striking
- 10 groups of welding parameters can be stored
- Double wire driving system with more stable wire feeding speed
- Integrated type design, more portable and humanized for moving and operating
- Intelligent cooling fan, energy saving and longer service life

Product Application

- It is mainly used for pure aluminum, AL-MG, AL-SI material welding, etc.
- It is widely used in different industry of aviation, ship building, locomotive, pressure vessel, automobile and so on



Main Technical Parameters

| Item | Unit | Models | |
|-------------------------------|------|-----------------------------------|----------------|
| | | NB-350HP | NB-500HP |
| Rated Input Voltage | V/Hz | 3 ~ 380 ±15% 50/60 | |
| Rated Input Capacity | KVA | 18 | 24.7 |
| Rated Output Current | A | 350 | 500 |
| Rated Duty Cycle | - | 100% (40°C) | |
| Output Current Range | A | 40 ~ 350 | 60 ~ 500 |
| Output Voltage Range | V | 16.0 ~ 31.5 | 17 ~ 39 |
| Starting Current Adjust Range | A | 40 ~ 350 | 60 ~ 500 |
| Starting Voltage Adjust Range | V | 16.0 ~ 31.5 | 16.0 ~ 39.0 |
| Crater Current Adjust Range | A | 40 ~ 350 | 60 ~ 500 |
| Crater Voltage Adjust Range | V | 16.0 ~ 31.5 | 16.0 ~ 39.0 |
| Gas Checking Time | S | 1~60 | |
| Gas Pre-flow Time | S | 0.1~9.9 | |
| Gas Post-flow Time | S | 0.1~9.9 | |
| Suited Wire Material | - | Pure Aluminum, Al-Mg, Al-Si, etc. | |
| Suited Wire Diameter | mm | Ø0.8、Ø1.0、Ø1.2 | Ø1.0、Ø1.2、Ø1.6 |
| Ingress Protection | - | IP21S | |
| Dimension(L×W×H) | mm | 1100×670×1570 | 1100×670×1570 |
| Net Weight | Kg | 120 | 125 |

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℃) | | |
| 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 | 640x290x530 | 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 | | 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-250/315IGBT-T

Inverter Gas Shielded Arc Welding Machine

Main features

- Striking arc under high voltage and slow wire feeding, Smooth and stable arc striking with high success rate
- Adopting unique feedback control circuit of arc voltage and current, stable welding process, little spatter, strong adaptability of wire extension change, wide adjusting range for matching current and voltage, well-shape weld appearance
- Adopting high performance ball-eliminating circuit, high success rate at arc striking
- Automatic protection function of low input and over load
- All-in-one type, wire feeding system built inside , easy to operate and move

Product Application

- Widely used in the fields of automobile, steel furniture, filing cabinet, security door, guard railing, and building decoration,
- Suitable for all position welding on the mild carbon steel in thickness 0.8 ~ 6mm



Main Technical Parameters

| Item | Unit | Models | |
|---------------------------------|-------|-------------------|--------------|
| | | NB-250IGBT-T | NB-315IGBT-T |
| Input Power | V/Hz | 3 ~ 380±15% 50/60 | |
| Rated Input Capacity | KVA | 10 | 14 |
| Rated Input Current | A | 15.2 | 21.3 |
| Rated Output Current | A | 250 | 315 |
| Rated Output Voltage | V | 26.5 | 29.8 |
| Rated Open Circuit Voltage | V | 65 | |
| Rated Duty Cycle | - | 35% (40°C) | |
| Efficiency | - | 83% | 82% |
| Power Factor | - | 0.8 | 0.81 |
| Output Current Adjust Range | A | 60~250 | 60~315 |
| Output Voltage Adjust Range | V | 16.3~31 | |
| Wire Feeding Speed Adjust Range | m/min | 1.3~20 | |
| Suited Wire Diameter | mm | Ø0.8、Ø1.0 | |
| Cooling Mode | - | Air Cooling | |
| Insulation Grade | - | F | |
| Ingress Protection | - | IP21S | |
| Dimension(L×W×H) | mm | 640×300×595 | |
| Net Weight | Kg | 36 | 37 |

NB-250/315LA

Inverter Gas Shielded Arc Welding Machine



Main features

- Striking arc under high voltage and slow wire feed. Smooth and stable arc striking with high success rate
- Adopting unique feedback control circuit of arc voltage and current, stable welding process, little spatter, strong adaptability of wire extension change, wide adjusting range for matching current and voltage, well-shape weld appearance
- Adopting high performance ball-eliminating circuit, the diameter of ball on wire end almost the same as wire diameter, high success rate at arc striking
- Arc crater can be filled automatically after welding, which improves the welding quality
- Adopt PWM inverter technology, which have HF and dynamic response speed

Product Application

- Widely used in the fields of automobile, steel furniture, filing cabinet, security door, guard railing, and building decoration,
- Suitable for all position welding on the mild carbon steel in thickness 0.8 ~ 6mm



Main Technical Parameters

| Item | Unit | Models | |
|---------------------------------|-------|-------------------|----------|
| | | NB-250LA | NB-315LA |
| Input Power | V/Hz | 3 ~ 380±15% 50/60 | |
| Rated Input Capacity | KVA | 10 | 14 |
| Rated Input Current | A | 15 | 21 |
| Rated Output Current | A | 250 | 315 |
| Rated Output Voltage | V | 26.5 | 29.8 |
| Rated Open Circuit Voltage | V | 68 | |
| Rated Duty Cycle | - | 35% (40°C) | |
| Efficiency | - | 83% | 82% |
| Power Factor | - | 0.8 | 0.81 |
| Output Current Adjust Range | A | 60~250 | 60~315 |
| Output Voltage Adjust Range | m/min | 1.3~20 | |
| Wire Feeding Speed Adjust Range | V | 16.3~31 | |
| Suited Wire Diameter | mm | Ø0.8、Ø1.0 | |
| Cooling Mode | - | Air cooling | |
| Insulation Grade | - | F | |
| Ingress Protection | - | IP21S | |
| Dimension(L×W×H) | mm | 530×280×485 | |
| Net Weight | Kg | 22 | 24 |

WSE-315MD/500HD

Inverter AC/DC Pulse Argon Arc Welding Machine



Main features

- Digital control technology
- Wide range of AC frequency and AC wave balance adjust
- HF arc strike
- Parameter preset, storage and selection function for TIG and MMA
- Voltage abnormal, overload/cooling water abnormal protection
- Reserved remote control connector, which the welding parameters can be controlled and managed by the computer
- WSE-315MD with reserved pedal controller connector , WSE-500HD with parallel connector

Product Application

- Suitable for carbon steel, stainless steel, aluminum and its alloy, copper and its alloy, heat resistant steel, titanium alloy, magnesium alloy, albronz, etc.



Main Technical Parameters

| Item | | Unit | Models | |
|--------------------------------------|----|------|-------------------|--------------|
| | | | WSE-315MD | WSE-500HD |
| Input Power | | V/Hz | 3 ~ 380±15% 50/60 | |
| Rated Input Capacity | | KVA | 17.5 | 21.5 |
| Rated Input Current | | A | 20 | 36 |
| Rated Output Current | | A | 315 | 500 |
| Rated Output Voltage | | V | 22.6 | 30 |
| Rated Duty Cycle | | - | 35% (40°C) | 60% (40°C) |
| Efficiency | | - | 68% | 72% |
| Power Factor | | - | 0.81 | 0.84 |
| Hot Start Current Adjust Range | AC | A | 20 ~ 315 | 20 ~ 500 |
| | DC | A | 10 ~ 315 | 10 ~ 500 |
| Welding Current Adjust Range | AC | A | 20 ~ 315 | 20 ~ 500 |
| | DC | A | 10 ~ 315 | 10 ~ 500 |
| Pulse Current Adjust Range | AC | A | 20 ~ 315 | 20 ~ 500 |
| | DC | A | 10 ~ 315 | 10 ~ 500 |
| Background Current Adjust Range | AC | A | 20 ~ 315 | 20 ~ 500 |
| | DC | A | 10 ~ 315 | 10 ~ 500 |
| Crater Current Adjust Range | AC | A | 20 ~ 315 | 20 ~ 500 |
| | DC | A | 10 ~ 315 | 10 ~ 500 |
| 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 | | - | 10% ~ 50% | |
| Current Up-slope Time Adjust Range | | S | 0~10 | |
| Current Down-slope Time Adjust Range | | S | 0~15 | |
| Gas Pre Flow Time Adjust Range | | S | 0~5 | |
| Gas Post Flow Time Adjust Range | | S | 0~20 | |
| Dimension (LxWxH) | | mm | 705×350×650 | 725×385×785 |
| Net Weight | | Kg | 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 | KVA | 11.3 | | 14.7 |
| | MMA | KVA | 14.7 | | 19.5 |
| Rated Input Current | TIG | A | 17 | | 22 |
| | MMA | A | 22 | | 30 |
| Rated Output Voltage | TIG | V | 22.6 | | 26 |
| | MMA | V | 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 | A | 0 ~ 120 | | |
| Arc Force Current Range | MMA | A | 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
- Equip two welding gun

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-1600/2500

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 | Models | |
|-----------------------------|-----------------|-------|----------------|----------|
| | | | RSR-1600 | RSR-2500 |
| Input Power | | V/Hz | 1 ~ 220±10% 50 | |
| Rated Storage Energy | | J | 1600 | 2500 |
| Power Capacity | | VA | ≤ 750 | ≤ 1000 |
| Output Voltage Adjust Range | | V | 60~190 | |
| Suitable Stud Diameter | Steel | mm | Ø4~Ø8 | Ø4~Ø10 |
| | Copper/Aluminum | mm | Ø3~Ø6 | Ø3~Ø8 |
| Welding Efficiency | | n/min | 12~6 | 12~5 |
| Cooling Mode | | - | Air cooling | |
| Insulation Grade | | - | F | |
| Ingress Protection | | - | IP21S | |
| Dimension(L×W×H) | | mm | 490×260×405 | |
| Net Weight | | Kg | 32 | 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, under-voltage 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 | Model | |
|--------------------------------|------|--------------------|---------------|
| | | 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 |

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 |

Main features

- Adopting special inverter welding power source, with smaller size and weight, lower energy consumption and stable welding performance
- Use 1.6mm welding wire, the welding deposition rate up to 140g/min, the weld is finish one time, the welding efficiency is very high
- The welding torch can be automatically lifted according to set parameters, easy to operate
- The welding wire is the only padding material of the weld, the cost is low
- The welding head with complete adjusting functions, easy to adjust and locate the welding point
- This machine is usually hanged on a gantry type frame to compose a welding system

Product Application

- It's mainly used on welding T-shape and butt vertical weld seam of low carbon steel, low alloy steel, and medium carbon steel
- Widely used on steel structure, bridges and boiler, etc.



Main Technical Parameters

| Item | Unit | Model |
|------------------------------------|--------|-------------------------------|
| | | HS-A1 |
| Rated Output Current | A | 1000 |
| Rated Output Voltage | V | 44 |
| Rated Duty Cycle | - | 100% (40°C) |
| Welding Current Range | A | 200~1000 |
| Welding Voltage Range | V | 28~44 |
| Wire Feeding Range | m/min | 0~20 |
| Torch Vertical Adjust Range | mm | 0~160 |
| Torch Back-Forth Adjust Range | mm | 0~70 |
| Torch Left-Right Adjust Range | mm | 0~70 |
| Lifting Head Rotation Angle | - | 180° |
| Torch Lifting Speed | mm/min | 0~260 |
| Torch Back-Forth Slit Adjust Range | - | ±5° |
| Torch Left-Right Slit Adjust Range | - | ±5° |
| Suitable Welding Torch Length | mm | 1000、1200、1400、1600、1800、2000 |
| Suitable Wire Diameter | mm | Ø1.6 |
| Welding Plate Thickness | mm | 16~100 |
| Max. Welding Seam Length | mm | 1500 |

Main features

- Nearly 100% arc striking success rate
- Light weight and easy moving, suitable for welding works on kinds of hard positions
- Well-distributed heating and slowly cooling speed, makes little welding stress
- The welding seam on a vertical position, get excellent welding quality
- Very suitable for medium/thick plate welding
- No groove required on work-piece, one-time welding with good quality shape, which highly improves the efficiency
- Digital display of the welding current / voltage helps stable welding works

Product Application

- It's mainly used in low carbon steel, low alloy steel and medium carbon steel materials medium / thick plate, for the T-shape welding, big section/curve/cylinder structure welding, etc.
- It's widely used in steel structure, bridges, etc.



Main Technical Parameters

| Item | Unit | Model |
|-----------------------------------|--------|--|
| | | HR-2 |
| Rated Welding Current | A | 1250 |
| Rated Welding Voltage | V | 44 |
| Wire Feeding Mode | - | Constant Speed |
| Wire Feeding Speed Adjust | cm/min | 135 ~ 600 |
| Suited Wire Diameter | mm | Ø2.0、Ø2.5、Ø3.2 |
| Suited Consumable Nozzle Diameter | mm | Ø8~Ø14 |
| Welding Head Vertical Adjust | mm | 93 |
| Crutch Vertical Adjust | mm | 140 |
| Welding Head Horizontal Adjust | mm | ± 30 |
| Welding Head Tilt Angle | - | 30° |
| Welding Head Elevation Angle | - | ± 15° |
| Welding Head Swing Angle | - | ± 90° |
| Consumable Nozzle Adjust Angle | - | ± 5° |
| Suited Welding Power Source | - | ZD5、ZD7 Series DC Welding Power Source |
| Dimension (L×W×H) | - | 1010×580×790 |
| Net Weight of Welding Tractor | Kg | 50 |

Main features

- Use world famous frequency converter, with wide speed adjusting range and high precision, parameters can be preset and recalled
- The boom and column is box-structure designed, compact structure with good rigidity
- Counterweight-design inside column which ensures the stable and smooth lifting
- The multi-protection of mechanic set and electric set ensures the safety of operator and equipment
- Optional devices: electric rotation device, walking trolley, retractable boom, etc.
- Manipulation interface: humanization, simple and convenient

Product Application



Main Technical Parameters

| <div>Model</div> <div>Parameter</div> | 2×2 | 3×3 | 4×4 | 5×5 | 6×6 | 7×7 | 8×8 |
|---------------------------------------|---|------|-------|------|-------------|------|------|
| Boom Lifting Range | 2m | 3m | 4m | 5m | 6m | 7m | 8m |
| Boom Vertical Travel Speed | 80-800mm/min(Speed step-less adjusted by converter, digital display) | | | | | | |
| Boom Horizontal Travel Range | 2m | 3m | 4m | 5m | 6m | 7m | 8m |
| Boom Horizontal Travel Speed | 150-2500mm/min (Speed step-less adjusted by converter, digital display) | | | | | | |
| Trolley Travel Speed | 150-2000mm/min (Speed step-less adjusted by converter, digital display) | | | | | | |
| Column Rotating Speed | 0.03-0.75rpm (Speed step-less adjusted by converter, digital display/manual rotation) | | | | | | |
| Max. Loading Of Boom | 100kg | | 200kg | | 400kg/600kg | | |
| Max. Stretching Of Boom | 2950 | 3950 | 5100 | 6100 | 7250 | 8300 | 9300 |
| Min. Stretching Of Boom | 950 | | 1100 | | 1250 | 1300 | |
| Trolley Gauge | 1430 | | 1730 | | 2000 | 2500 | |
| Input Power | 3-380V±10% , 50Hz/60Hz | | | | | | |

Automation Optional Welding Process



MZ9 Single power / wire submerged arc welding



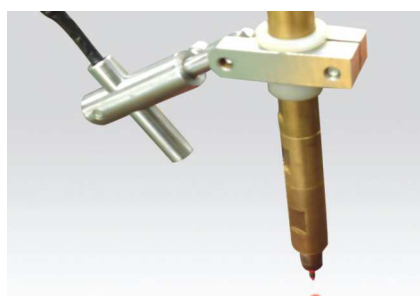
MZ9-S High efficiency submerged arc welding



MU9 Strip cladding submerged arc welding



NZ9 Gas shielded weld machine



Weld seam laser indicator



TV Monitoring system



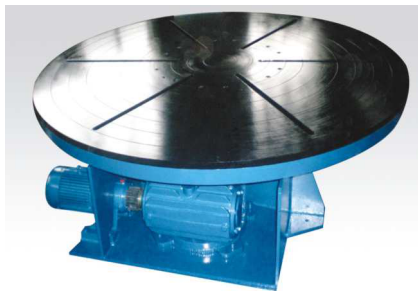
Weld seam tracker

Main features

- Finish machining work table to protect the welding spatter, with long service life
- Use world famous brand frequency converter, which has wide speed adjusting range and high precision, the parameters can be preset and recorded
- Multi protection on mechanism and electric parts, ensures the safety and stability
- There are some position lines and T-shape slugs, makes the easier location
- Reliable stability of the complete set, easy to move and install

Product Application

- The welding positioner is mainly used to rotate the workpiece of axle, plate, cylinder and ball shape, to get the ideal welding speed and position. It usually work with welding manipulator, welding machines to compose a automatic welding center. It can be also used on manual welding, assembly or painting of some complex structure work-piece



Main Technical Parameters

| Model Parameter | Unit | HB-5 | HB-10 | HB-20 | HB-30 | HB-50 | HB-100 |
|---------------------------|-------|-------------------|------------|-------|----------|-------|------------|
| Rated Loading Capacity | T | 0.5 | 1 | 2 | 3 | 5 | 10 |
| Working Table Diameter | mm | 800 | 1200 | | 1400 | 1600 | 1800 |
| Rotating Speed | r/min | 0.14-1.4 | 0.054-0.54 | | 0.05-0.5 | | 0.038-0.38 |
| Tilting Speed | r/min | 0.6 | 0.39 | | 0.33 | | 0.26 |
| Tilting Angle | - | 0-120° | | | | | |
| Max. Centrobaric Distance | mm | 200 | 250 | | 300 | | 400 |
| Max. Eccentricity | mm | 150 | 200 | | | | 250 |
| Dimension | mm | 800 | 955 | 1120 | 1215 | 1520 | 1875 |
| | mm | 1000 | 1500 | 1800 | 1900 | 2200 | 2600 |
| | mm | 820 | 1020 | 1250 | 1400 | 1510 | 1880 |
| Input Capacity | KW | 0.43 | 1 | 1.3 | 2.05 | 4.1 | 8 |
| Input Power | V/Hz | 3-380±10% , 50/60 | | | | | |

Main features

- The tilt angle of wheels are self-adjusted as per the diameter change of work-piece
- Steel & Rubber combined wheels, with strong overload capacity and heavy driving capacity
- Advanced reducer system configuration, compact structure, high transmission accuracy and efficiency, reliable self-fixing & locking
- Use world famous frequency converter, which has good reliability, strong output characteristics and stable rotating speed
- Use whole destressing annealing technology, makes the high strength and toughness of structure, ensures the long service life
- There are interfaces on machine, makes it convenient to work with welding manipulator

Optional Functions

- Walking devices, remote control devices and anti-creep devices are available



Main Technical Parameters

| Parameters Models | Linear Speed | Suited Work-piece Diameter | Motor Power | Turning Rolls size & Structure | |
|----------------------|--------------|----------------------------|-------------|--------------------------------|-------------------|
| | mm/min | mm | KW | | |
| ZT-5E | 100-1000 | 500-3300 | 2×0.25 | Φ250×110 | Full Polyurethane |
| ZT-10E | | 500-3300 | 2×0.37 | Φ250×110 | Full Polyurethane |
| ZT-20E | | 500-4000 | 2×0.55 | Φ300×130 | Full Polyurethane |
| ZT-30E | | 500-4500 | 2×0.75 | Φ300×150 | Full Polyurethane |
| ZT-40E | | 500-4500 | 2×0.75 | Φ300×170 | Full Polyurethane |
| ZT-60E | | 900-5200 | 2×1.1 | Φ350×200 | Full Polyurethane |
| ZT-80E | | 900-5500 | 2×1.5 | Φ400×200 | Full Polyurethane |
| ZT-100E | | 900-5500 | 2×1.5 | Φ450×200 | Full Polyurethane |

Main features

- There are reserved screw holes to adjust the center distance, which makes it work with different size work-piece
- Advanced reducer system configuration, compact structure, high transmission accuracy and efficiency, reliable self-fixing & locking
- Use world famous frequency converter, which has good reliability, strong output characteristics and stable rotating speed
- Use whole destressing annealing technology, makes the high strength and toughness of structure, ensures the long service life
- There are linkage interfaces on machine, makes it convenient to work with welding manipulator

Optional Functions

- Walking devices, remote control devices and anti-creep devices are available



Main Technical Parameters

| Parameters Models | Linear Speed mm/min | Suited work-piece Diameter mm | Motor Power KW | Turning Rolls Size (mm) | Structure (mm) | Turning Rolls Structure |
|----------------------|------------------------|-------------------------------------|----------------------|---------------------------------|---------------------|----------------------------|
| KT-3C | 100-1000 | 150-2800 | 1×0.37 | Φ250×100 | 100 | Steel & Rubber Wheel |
| KT-5C | | 150-2800 | 2×0.25 | Φ250×100 | 100 | Steel & Rubber Wheel |
| KT-10C | | 300-3200 | 2×0.37 | Φ300×150 | 112 | Steel & Rubber Wheel |
| KT-20C | | 300-3600 | 2×0.55 | Φ350×170 | 120 | Steel & Rubber Wheel |
| KT-30C | | 300-4500 | 2×0.75 | Φ400×200 | 120 | Steel & Rubber Wheel |
| KT-40B | | 300-4500 | 2×1.1 | Φ400×200 | 120 | Steel & Rubber Wheel |
| KT-60A | | 300-4500 | 2×1.1 | Φ450×200 | 120 | Steel & Rubber Wheel |
| KT-80D | | 800-5500 | 2×1.5 | Φ500×180 (All Steel Wheel) | | |
| KT-100J | | 800-5500 | 2×2.2 | Φ500×200 (All Steel Wheel) | | |
| KT-150 | | 1000-5500 | 2×2.2 | Φ500×220 (All Steel Wheel) | | |
| KT-200 | | 1000-6000 | 2×3 | Φ600×220 (All Steel Wheel) | | |
| KT-300 | | 1000-6000 | 2×5.5 | Φ680×240 (All Steel Wheel) | | |
| KT-400 | | 1000-6000 | 2×5.5 | Φ680×250 (All Steel Wheel) | | |
| KT-600 | | 1000-7000 | 2×7.5 | Φ800×300 (All Steel Wheel) | | |

Brief Introduction

Gantry type CNC cutting machine is one of the most popular fabrication cutting equipment. Connecting with the computer, it cuts any shape of workpiece, with highly improves the cutting quality and efficiency, enlarge the usage of raw material and cutting quality stability, it also reduces the labor costs.

Main features

- It is double booms structure, special designing enhances the stable structure
- The boom is made from structure parts, which machining with once processing, ensures the strong strength and high precision after long time use
- The driving system adopts fluctuating driving construction design, which is a patent technology from Huayuan
- The structure parts use whole destressing annealing technology, makes the high strength and toughness of structure, ensures the long service life
- All elements are carefully chosen from international famous brands, ensures the stability



Main Technical Parameters

| Model Parameter | 2500mm | 3150mm | 4000mm | 5000mm | 6300mm | 7000mm | 8000mm | 10000mm |
|-------------------------------|--|--------|--------|----------------|--------|--------|--------|---------|
| Driving Mode | Single Driving (Flame Cutting) | | | Double Driving | | | | |
| | Double Driving (Plasma Cutting) | | | | | | | |
| Effective Cutting Width (mm) | Span Length-400mm (With single moving part) | | | | | | | |
| Track length (mm) | According to customer required length | | | | | | | |
| Effective Cutting Length (mm) | Standard: Track length-2M. With electric cleaning device: Track length-2.5M. | | | | | | | |
| No-load Travelling Speed | Single Driving : 0-6000mm/min | | | - | - | - | - | - |
| | Double Driving : 0-12000mm/min | | | | | | | |
| Cutting Speed | Flame Cutting : 50-750mm/min | | | | | | | |
| | Plasma Cutting : 50-6000mm/min | | | | | | | |
| Cutting Thickness | Flame Cutting : 6 ~ 150mm | | | | | | | |
| | Plasma Cutting : Refer to different plasma power source | | | | | | | |
| Input Power | 3 ~ 380V±10% , 50Hz±1% | | | | | | | |
| Torch up-down Distance | 200mm | | | | | | | |
| Standard | ISO9013-2002 | | | | | | | |

Automation

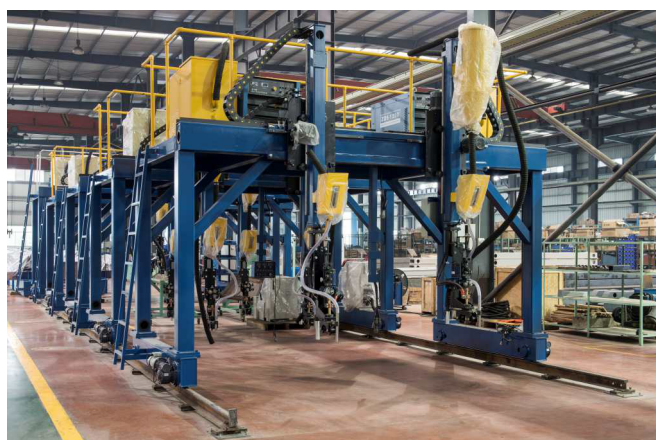
Gantry Type Submerged Welding Machine

Brief Introduction

Gantry type welding machine is widely used in automatic welding of H-beam steel, box girder, crane beam and so on, it welds two welding seams or more at the same time. The operation is easy and production efficiency is high, reduces the labor cost much.

Main features

- The walking of the gantry frame is controlled by frequency converter, driven by AC motor, step-less speed adjustment
- Reliable mechanical weld tracking system
- High precision of AC frequency converter
- High efficiency of flux feeding-recovering system
- Different welding process can be chosen: SAW, MIG, MAG, CO₂, etc.
- Different welding head can be chosen, adapt different quantity of welding torch

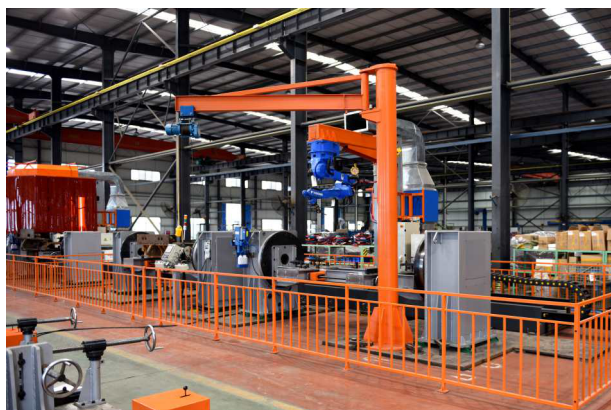


Main Technical Parameters

| Structure | Gantry Type |
|--------------------------------|--|
| Welding Speed | 250~1700mm/min (Refer to different welding process) |
| Welding process | SAW,MIG,MAG,CO ₂ |
| Welding Technology | SAW, TANDEN SAW, MIG,MAG,CO ₂ |
| Optional Function | Flux feeding-recovering system, welding swing device, water cooling system, etc. |
| Recommend Welding Power Source | ZD5,ZD7,ZDE and NB series of HUAYUAN |

Automation

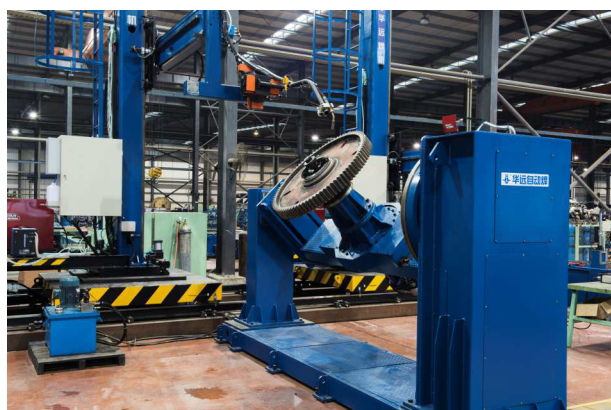
Robotics Welding & Cutting / Customized Machine



Robot Welding System



Robot Cutting System



Automatic Girth Welding Equipment



Automatic Longitudinal Seam Welding Equipment



Surface Welding Equipment



Customized Welding Machine



Experience Area



Experiment Site



40°C Constant Temperature Test



High And Low Temperature Test



Vibration Test



Salt Mist Test



Rain & Water Drop Test



Lifting & Dropping & inclining test



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