



**MASTERING CORE SCIENCE AND TECHNOLOGY
LEADING INTELLIGENCE OF THE INDUSTRY**



2019

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AND TECHNOLOGY
LEADING INTELLIGENCE
OF THE INDUSTRY**





COMPANY PROFILE

Benjamin Welding Machine is one of the famous technology-driven enterprise, which insist in technology inheritance and innovation, focuses on R&D, manufacturing, marketing and service of inverter welding, cutting equipment, automatic welding products, IGBT chip, IGBT driver chip, power module and digital inverter generator. The main products have been exported to over 70 countries throughout 5 continents.

The company owns the brand of **Benjamin**, which is divided into **Benjamin** : PROFESSIONAL and **Benjamin** : BASIC. It totally contains 5 series that have more than 100 models. The major products including full digital MIG, full digital MMA, full digital TIG, full digital plasma cutter, Multi-function precision submerged arc welder, 600V and 1200V small and medium power IGBT series, 600V IGBT driver series, 650V450A / 1200V450A smart IGBT power module, digital inverter generator and so on. Our products are widely used in various industries, such as steel structure, petroleum, shipping, chemical engineering, electric power, metallurgy, automobile, aviation, railway, building construction.

Since the company has established, we aim to manufacture high quality products, maintain towering reputation, and fully implement the ISO 9001:2008 quality management system. Our products have been authorized by many national and international certification systems, 3C, CE, EMC, and America/Canada CSA and so on. Our R&D teams have developed technical accumulation in the industry; they have been focused on the technical innovation of industrial segmentation for more than 10 years. Numbers of our new products have replaced the equipment that imported from other countries, contributing to meet the needs of national key projects. So far, we have obtained 60 valid national patents, including 5 invention patents, 25 utility model patents, 20 industrial design patents and 10 computer software copyright patents

Vision and mission

The company takes "Mastering core science and technology, Leading intelligence of the industry" as innovative concept, and "Chinese brand with world-class quality" as ultimate mission, offering customers the most cost effective and high-end products with superior service. Meanwhile, **Benjamin** will constantly promote the development of China welding industry, and committed to be the best solution provider of a whole in regards to china's leading welding and cutting industry.



PATENT CERTIFICATES

invention patents : 5






utility model patents:20

industrial design patents:25

computer software copyright patents :10



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POWER OF DIGITAL INNOVATION



MIG SERIES *Full Digital*

- MIG100/MIG120
- MIG200 Digital
- MIG215 Digital
- MIG250 /MIG315 Digital
- MIG350/MIG500 Integrated
- MIG350/MIG500 Separated
- MIG350/MIG500 Digital

Processes
Digital MIG

Product Number
MIG-100
MIG-120

Input Power
AC90-125V 1PH
AC160-270V 1PH

Rated Output
25%@100A Duty cycle
25%@120A Duty cycle

Output Range
30-100A Max OCV:56V
30-120A Max OCV:56V

Weight/Size(L*W*H)
(5.6kg)
(340*136*268mm)

Processes
Digital MIG, MMA, LIFT ARC

Product Number
MIG200

Input Power
AC160~270V 1PH

Rated Output
200A/17.2V/40% Duty cycle

Output Range
30-200A Max OCV:60V

Weight/Size(L*W*H)
8.0kg
500*340*405mm

KEY FEATURES

Push-pull forward topology invert project ,use IGBT IRGP4060DPBF switch frequency 50KHZ, inverter use original side peak current control mode ,constant power output, stable and reliable

- 110V/220V available ,metal design available
- New 3D style Plastic panel
- New constant power control
- 0.8 mm flux-cored wire special
- Wide voltage input:160V-270V 1PH
- Fan with auto-sleep function
- Over-heating protection
- Low power consumption for energy saving
- Small size ,more portable



KEY FEATURES

Adopt STM32 series MCU and UC3846 control, switch frequency 50HZ more stable and reliable

- Smart design with full digital control
- New 3D style Plastic panel
- Constant voltage control
- Fully digital waveform control technology, synergic adjustment and voltage can be fine-tuned
- Compatible 5kg 0.6-0.8mm solid core wire and 1kg 0.8 flux-cored wire in polarity conversion
- Wide voltage input:160V-270V 1PH
- Fan with auto-sleep function
- Over-heating protection
- Low power consumption for energy saving
- Small size ,more portable



Two Years Extended Warranty Available.



Two Years Extended Warranty Available.



KEY FEATURES

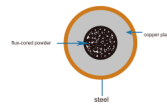
Full digital control



Constant power control



0.8 mm flux-cored wire special



Fan with auto-sleep function



KEY FEATURES

Full digital control



MIG200(metal)



Synergic adjustment control



Fan with auto-sleep function



5KG Solid core wire 1KG flux-cored wire



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|--------|-------|---------------|----------------------|-----------------|-----|------------|----------------|
| MIG100 | PMD02 | 90-125V | 30-100A | 25%@100A | 56V | 5.6kg | 340*136*268 mm |
| MIG120 | PMD01 | 160-270V | 30-120A | 25%@120A | 56V | 5.6kg | 340*136*268 mm |

SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|--------|-------|---------------|----------------------|-----------------------|-----|------------|---------------|
| MIG200 | PMD06 | 160-270V | 30-200A | 40%@200A 100%@126A | 60V | 8.0kg | 500*340*405mm |

MIG215 Digital

MIG250 / 315 Digital

Processes

Digital MIG, MMA, LIFT ARC

Product Number

MIG215

Input Power

AC160~270V 1PH

Rated Output

200A/17.2V/40% Duty cycle

Output Range

30-200A Max OCV:60V

Weight/Size(L*W*H)

11kg
635*390*475mm

Processes

Digital MIG, MMA

Product Number

MIG/MMA-250
MIG/MMA-315

Input Power

AC330~440V 3PH

Rated Output

250A/26.5V/60% Duty cycle
315A/29.5V/60% Duty cycle

Output Range

40-250A Max OCV:56V
40-315A Max OCV:56V

Weight/Size(L*W*H)

(32kg)
(700*640*310mm)

KEY FEATURES

Adopt STM32 series MCU and UC3846 control, switch frequency 50HZ more stable and reliable

- Smart design with full digital control
- New 3D style Plastic panel
- Constant voltage control
- Fully digital waveform control technology, synergic adjustment and voltage can be fine-tuned
- Compatible 5/15kg 0.6-0.8mm solid core wire and 1kg 0.8 flux-cored wire
- Built-in polarity conversion
- Wide voltage input: 160V-270V 1PH
- Fan with auto-sleep function
- Over-heating protection
- Low power consumption for energy saving
- Small size ,more portable



Two Years Extended Warranty Available.



KEY FEATURES

- Adopt DSP full-digital inverter control technology.
- With high-speed spot welding function, fast machine dynamic response, quick adjustment according to the wire extension of welding, which ensure the stability of arc output and suitable for welding thin plate(0.5mm)
- Little splash and suitable for full-scheme welding.
- Welding parameters can be saved, called, and used conveniently.
- Preset welding tasks and unified operation, built-in expert-level database system.
- Three anti-structure, unique independent air duct, anti-dust, anti-moisture, anti-corrosion, and durable.
- Over-heating /current, phase loss, over-voltage protection.
- Excellent welding performance



Two Years Extended Warranty Available.



KEY FEATURES

Full digital control



MIG215(metal)



Synergic adjustment control



Fan with auto-sleep function



15kg/20kg Solid core wire
1KG Flux-cored wire



KEY FEATURES

Friendly operation



Detached windshield



Built-in gas cylinder tray



Accessories



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|--------|-------|---------------|----------------------|-----------------------|-----|------------|---------------|
| MIG215 | PMD12 | 160-270V | 30-200A | 40%@200A 100%@126A | 60V | 11kg | 635*390*475mm |

SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|-------------|-------|---------------|----------------------|-----------------|-----|------------|--------------|
| MIG/MMA 250 | PMA05 | 330-440V | 40-250A | 60%@250A | 56V | 32kg | 700*640*310 |
| MIG/MMA 315 | PMA06 | 330-440V | 40-315A | 60%@315A | 56V | 32kg | 700*640*310 |

Processes

Digital MIG,MMA

Product Number

MIG250Y(metal)
MIG315Y(metal)

Input Power

AC330~440V 3PH

Rated Output

250A/26.5/ 60% Duty cycle
315A/29.5/ 60% Duty cycle

Output Range

50-250A MAX OCV:56V
50-315A MAX OCV:56V

Weight/Size(L*W*H)

35kg/970*430*740mm

Processes

MIG,MMA

Product Number

MIG-350
MIG 500

Input Power

AC330~440V 3PH

Rated Output

350A/31.5V/ 100% Duty cycle
500A/39.0V/ 100% Duty cycle

Output Range

50-350A Max OCV:70V
50-500A Max OCV:70V

Weight/Size(L*W*H)

45kg/18kg
700*640*310mm(power source)
661*261*464mm(wire feeder)

KEY FEATURES

- Adopt analog control technology
- With high-speed spot welding function, fast machine dynamic response, quick adjustment according to the wire extension of welding, which ensure the stability of arc output and suitable for welding thin plate(0.5mm)
- Little splash and suitable for full-scheme welding.
- Preset welding tasks and unified operation
- Three anti-structure, unique independent air duct, anti-dust, anti-moisture, anti-corrosion, and durable.
- Over-heating /current, phase loss, over-voltage protection.
- Excellent welding performance



Two Years Extended Warranty Available.



KEY FEATURES

- New industrial grade design with plastic panel
- Double Module IGBT full bridge invert technology
- Automatic compensating function
- Welding arc stable ,Little splash ,deep weld pool , and beautiful welding seam
- Independent ventilation design ,comprehensive protection: anti-dust, anti-moisture, anti-corrosion
- Over-heating /current, over-voltage and under-voltage protection
- Separated wire feeder, more convenient to operate by welder
- New trolley design, free combination



Two Years Extended Warranty Available.



KEY FEATURES

Friendly operation



Detached windshield



Built-in gas cylinder tray



Accessories



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40°C | OCV | Net Weight | Packing size |
|--------------|-------|---------------|----------------------|-----------------|-----|------------|---------------|
| MIG/MMA 250Y | PMD36 | 330-440V | 50-250A | 60% @250A | 56V | 35k'g | 970*430*740mm |
| MIG/MMA 315Y | PMD43 | 330-440V | 50-315A | 60% @315A | 56V | 35k'g | 970*430*740mm |

KEY FEATURES

Analog control



Independent ventilation design, 100% duty cycle



Double drive wire feeder



Trolley and tool box design



Accessories



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Wire speed | Wire diameter | Duty cycle 40°C | OCV | Net Weight | Packing size |
|---------|--------|---------------|-----------------------------|-------------|-----------------|-----------------|-----|------------|--------------------------------|
| MIG-350 | PMA 16 | 330-440V | MMA:20-350A MIG :50-350A | 2.5-21m/min | 0.8-1.0-1.2 | 100% @350A | 70V | 45kg/18kg | 700*640*310mm 661*261*464mm |
| MIG-500 | PMA17 | 330-440V | MMA:20-500A MIG :50-500A | 2.5-21m/min | 0.8-1.0-1.2-1.6 | 100% @500A | 70V | 45kg/18kg | 700*640*310mm 661*261*464mm |

MIG 350/500 Separated

MIG 350/500 Digital

Processes

MIG, MMA

Product Number

MIG-350
MIG-500

Input Power

AC330~440V 3PH

Rated Output

350A/31.5V/100% Duty cycle
500A/39.0V/100% Duty cycle

Output Range

50-350A Max OCV:70V
50-500A Max OCV:70V

Weight/Size(L*W*H)

42kg/18kg
683*334*566mm (Power source)
661*261*464mm (Wire feeder)

Processes

MIG, MMA

Product Number

MIG-350
MIG-500

Input Power

AC330~440V 3PH

Rated Output

350A/31.5V/ 60% Duty cycle
500A/39.0V/ 60% Duty cycle

Output Range

50-350A Max OCV:70V
50-500A Max OCV:70V

Weight/Size(L*W*H)

53kg / 700mm*300mm*550mm

KEY FEATURES

- New industrial grade design with plastic panel
- Double Module IGBT full bridge invert technology
- 100% duty cycle ,output cable can be lengthened 50M, automatic compensating function
- Welding arc stable ,Little splash ,deep weld pool , and beautiful welding seam
- Independent ventilation design ,comprehensive protection: anti-dust, anti-moisture, anti-corrosion
- Over-heating /current, over-voltage and under-voltage protection
- Separated wire feeder with digital meter to show voltage and current, more convenient to operate by welder
- New trolley design, free combination



Three Years Extended Warranty Available.



KEY FEATURES

- Adopt module IGBT full-bridge invert technology with invert frequency 20KHZ
- Digital control and fast error code feed-back.
- Fast machine dynamic response, quick adjustment according to the wire extension of welding, which ensure the stability of arc output, Little splash and suitable for full-scheme welding.
- Strong pulse arc-starting with high success rate.
- Reduced welder labor intensity by self-locking function during welding standard long welding seam.
- The wire feeder circuit with high-stable power supply and stable wire feeding
- Over-heating /current and phase loss protection



Two Years Extended Warranty Available.



KEY FEATURES

Analog control

Independent ventilation design, 100% duty cycle

Detached windshield

New trolley design free combination



KEY FEATURES

Analog control

Independent ventilation

Double drive wire feeder

Accessories



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Wire speed | Wire diameter | Duty cycle 40 C | OCV | Net Weight | Packing size |
|---------|-------|---------------|-----------------------------|-------------|-----------------|-----------------|-----|--------------|----------------------------|
| MIG-350 | PMA10 | 330-440V | MMA:20-350A MIG :50-350A | 2.5-21m/min | 0.8-1.0-1.2 | 100%@350A | 70V | 42kg 18kg | 683*334*566 661*261*464 |
| MIG-500 | PMA11 | 330-440V | MMA:20-500A MIG :50-500A | 2.5-21m/min | 0.8-1.0-1.2-1.6 | 100%@500A | 70V | 42kg 18kg | 683*334*566 661*261*464 |

SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Wire speed | Wire diameter | Duty cycle 40 C | OCV | Net Weight | Packing size |
|---------|-------|---------------|-----------------------------|-------------|-----------------|-----------------|-----|------------|---------------|
| MIG-350 | PMD45 | 330-440V | MMA:25-320A MIG :50-350A | 2.5-21m/min | 0.8-1.0-1.2 | 60%@350A | 70V | 53kg | 700*300*550mm |
| MIG-500 | PMD44 | 330-440V | MMA:25-450A MIG :50-500A | 2.5-21m/min | 0.8-1.0-1.2-1.6 | 60%@500A | 70V | 53kg | 700*300*550mm |

POWER OF DIGITAL INNOVATION



MIG SERIES *Full Digital Master series*

- Pulse MIG 200DP
- Pulse MIG 215DPP
- Pulse MIG 255DPP
- Pulse MIG 300DPP
- Speed MIG 400
- Speed MIG 500
- Master MIG 500DPP

Pulse MIG 200DP

Processes

Digital MIG, Pulse MIG, MMA, LIFT ARC

Product Number

Pulse MIG 200DP

Input Power

AC160-270V 1PH

Rated Output

180A/23V/40% Duty cycle

Output Range

30-180A Max OCV:54V

Weight/Size(L*W*H)

(8.0kg)
(442*182*345mm)

KEY FEATURES

- Smart design with full digital control
- Synergic adjustment control, friendly operation interface
- Multi-factions: MIG, Pulse MIG, MMA, Lift TIG
- Excellent Aluminum welding performance with Pulse MIG function
- Built-in polarity conversion
- Compatible 5kg 0.6-0.8mm solid wire and 0.8-1.0mm Aluminum wire
- Over-voltage and under-voltage protection
- Auto-detection of Over-heating and low voltage of IGBT drive which raise stability of power device
- Low power consumption for energy saving
- Small size, more portable



Two Years Extended Warranty Available.



KEY FEATURES

Synergic adjustment control



Metal wire feeder



5KG Solid core wire
1KG flux-cored wire



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|-----------------|-------|---------------|----------------------|-----------------|-----|------------|--------------|
| Pulse MIG 200DP | PMD24 | 160-270V | 30-180A | 40%@180A | 54V | 8.0kgs | 442*182*345 |

Pulse MIG 215DPP

Pulse MIG 255DPP

Processes

Digital MIG, Pulse MIG, MMA, LIFT ARC

Input Power

AC160~270V 1PH

Output Range

30-200A Max OCV:54V

Product Number

Pulse MIG 215DPP

Rated Output

200A/24.5V/30% Duty cycle

Weight/Size(L*W*H)

(11.0kg)
490*210*410mm

Processes

Digital MIG, Pulse MIG, MMA, Lift TIG

Input Power

AC330~440V 3PH

Output Range

40-230A mAx ocv:56V

Product Number

Pulse MIG 255DPP

Rated Output

230A/26.5V/30% Duty cycle

Weight/Size(L*W*H)

25kg
620*350*480mm

KEY FEATURES

- Smart design with full digital control
- Synergic adjustment control ,friendly operation interface
- Optional LCD screen display
- Multi-factions: MIG, Pulse MIG, MMA , Lift TIG
- Excellent Aluminum welding performance with Pulse MIG function
- Built-in polarity conversion
- Compatible 5kg 0.6-1.0mm solid wire and 0.8-1.2mm Aluminum wire
- Over-voltage and under-voltage protection
- Auto-detection of Over-heating and low voltage of IGBT drive which raise stability of power device
- Low power consumption for energy saving
- Small size ,more portable



KEY FEATURES

- Smart design with full digital control
- Synergic adjustment control ,friendly operation interface
- Optional LCD screen display
- Multi-factions: MIG, Pulse MIG, MMA , Lift TIG
- Excellent Aluminum welding performance with Pulse MIG function
- Built-in polarity conversion
- Optional Robot communication interface, it can work as stable power source of Robot
- Compatible 20kg 0.6-1.0mm solid wire and 0.8-1.2mm Aluminum wire
- Over-voltage and under-voltage protection
- Auto-detection of Over-heating and low voltage of IGBT drive which raise stability of power device
- Low power consumption for energy saving



Two Years Extended Warranty Available.



energy saving
Powertek Inverter Technology



Two Years Extended Warranty Available.



energy saving
Powertek Inverter Technology



KEY FEATURES

Synergic adjustment control

LCD Screen display

LCD Screen display

5KG Solid core wire
1KG flux-cored wire



KEY FEATURES

Synergic adjustment control

LCD Screen display

LCD Screen display

Robot communication interface



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|------------------|-------|---------------|----------------------|-----------------|-----|------------|---------------|
| Pulse MIG 215DPP | PMD14 | 160-270V | 30-200A | 30%@200A | 54V | 11.0kg | 490*210*410mm |

SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|------------------|-------|---------------|----------------------|-----------------|-----|------------|---------------|
| Pulse MIG 255DPP | PMD22 | 330-440V | 40-230A | 30%@230A | 56V | 25kg | 620*350*480mm |

Pulse MIG 300DPP

Speed MIG 400 Digital

Processes

Digital MIG, Pulse MIG, MMA

Product Number

Pulse MIG 300DPP

Input Power

AC330~440V 3PH

Rated Output

MIG 300A/28.0V/100% Duty cycle
MMA 300A/31.2V/100% Duty cycle

Output Range

MIG 40-300A Max OCV:80V
MMA 40-300A Max OCV:80V

Weight/Size(L*W*H)
(35kg)
(700*640*310mm)

Processes

Digital MIG, Pulse MIG, MMA

Product Number

Speed MIG 400

Input Power

AC330~440V 3PH

Rated Output

400A/34.0V/100% Duty cycle

Output Range

MIG:50-400A

Weight/Size(L*W*H)

106.8kg / 1200*650*1080mm

KEY FEATURES

- New industrial grade design with plastic panel
- Multi-fuctions: MIG, MIG Pulse, MMA, Lift TIG
- New LCD display, friendly operation interface favorable man-machine Conversation
- DSP Full digital control, with synergic adjusting function can preset welding parameters
- Adopt double single tube IGBT full bridge invert technology
- Excellent welding performance of thin plate of Aluminum
- Wide voltage input: 330-440VAC 3PH
- Can make double voltage 220/380V3PH
- Parameter program storage and invoking function
- Record welding process continuously, easy to control quality and make record
- Independent ventilation design, comprehensive protection: anti-dust, anti-moisture, anti-corrosion
- Over-heating /current, over-voltage and under-voltage protection
- Built-in gas cylinder tray, widely use in industry manufacture
- Low power consumption for energy saving



Two Years Extended Warranty Available.



KEY FEATURES

Synergic adjustment control

Nixie tube

New LCD display

Built-in gas cylinder and big wheel, optional tool box



KEY FEATURES

- The welding speed of PT Speed MIG400 increase 50% and weld with small spatter compare with normal MIG welding, thus it can improve production efficiency greatly.
- Multi-fuctions: MIG, Pulse MIG, double Pulse MIG, and advanced high speed MIG
- Advanced welding processes, large melting depth rate, good forming ability
- DSP Full digital control with synergic adjustment, wide adjustment range of current and voltage
- Adopt double Module IGBT full bridge invert technology
- Built-in expert-level database system
- Parameter program storage and invoking function
- Powerful network function, realize centralized monitoring, centralized control, software upgrade and remote diagnosis
- Realize automatic welding by connecting with robot and dedicated devices
- 100% duty cycle, output cable can be lengthened 50M, automatic compensating function
- Independent ventilation design, comprehensive protection: anti-dust, anti-moisture, anti-corrosion
- Over-heating /current, over-voltage and under-voltage protection
- Separated digital wire feeder to show all the parameters, more convenient to operate by welder
- New trolley design, free combination



Three Years Extended Warranty Available.



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Wire speed | Wire diameter | Duty cycle 40 C | OCV | Net Weight | Packing size |
|------------------|-------|---------------|----------------------|-------------|---------------|-----------------|-----|------------|----------------|
| Pulse MIG 300DPP | PMD18 | 330-440V | 40-300A | 2.5-21m/min | 0.8/1.0/1.2 | 100%@300A | 80V | 35kg | 700*640*310 mm |

SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Wire speed | Wire diameter | Duty cycle 40 C | OCV | Net Weight | Packing size |
|---------------|-------|---------------|----------------------------|-------------|---------------|-----------------|------|------------|-----------------|
| Speed MIG 400 | PMD46 | 330-440V | MIG:50-400A MMA:30-400A | 2.5-30m/min | 0.8/1.0/1.2 | 100%@400A | 108V | 106.8kg | 1200*650*1080mm |

Speed MIG 500

Speed MIG 500

Processes

Digital MIG, Pulse MIG
Double Pulse MIG, MMA

Product Number

Speed MIG 500

Input Power

AC330-440V 3PH

Rated Output

500A/39.0V/100% Duty cycle

Output Range

50-500A Max OCV:108V

Weight/Size(L*W*H)

98kg
1110*606*1460mm

KEY FEATURES

- The welding speed of PT Speed MIG500 increase 50% and weld with small spatter compare with normal MIG welding, thus it can improve production efficiency greatly.
- Multi-functions: MIG, Pulse MIG ,double Pulse MIG ,and advanced high speed MIG
- Advanced welding processes, large melting depth rate, good forming ability
- DSP Full digital control with synergic adjustment, wide adjustment range of current and voltage
- Adopt double Module IGBT full bridge invert technology
- Built-in expert-level database system
- Parameter program storage and invoking function
- Powerful network function, realize centralized monitoring ,centralized control ,software upgrade and remote diagnosis
- Realize automatic welding by connecting with robot and dedicated devices
- 100% duty cycle ,output cable can be lengthened 50M ,automatic compensating function
- Independent ventilation design ,comprehensive protection: anti-dust, anti-moisture, anti-corrosion
- Over-heating /current, over-voltage and under-voltage protection
- Separated digital wire feeder to show all the parameters , more convenient to operate by welder
- New trolley design, free combination

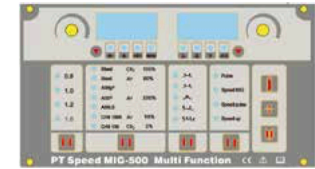


Three Years Extended Warranty Available.



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Wire speed | Wire diameter | Duty cycle | OCV | Net Weight | Packing size |
|---------------|-------|---------------|-----------------------------|-------------|-----------------|-------------------|------|------------|---------------|
| Speed MIG 500 | PMD11 | 330-440V | MMA:30-500A MIG :50-500A | 2.5-30m/min | 0.8/1.0/1.2/1.6 | 100%@500A 40 C | 108V | 98kg | 1110*606*1460 |

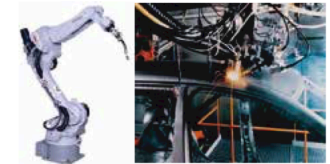


New industrial grade design with unique plastic panel , Synergic adjustment, easy to operate

Friendly operation interface ,it can be used by normal person without good welding technology, at the same time, voltage can be fine-tuned ,use more friendly

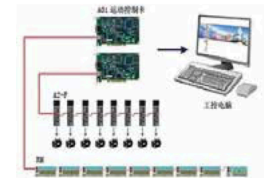
Realize automatic welding by connecting with robot and dedicated devices

Connecting with robot is trend of future development, can widely use for vehicles, ship building, steel structure industry etc. it can Improve work efficiency greatly, it has communication interface of robot ,can connect with robot perfectly .



Realize automatic welding by connecting with robot and dedicated devices

Adopt advanced network technology, realize the dispatching center remotely following and monitor of welding process ,or upgrade the software version as customers requirement , reduce maintenance costs and improve work efficiency



Built-in expert-level database system

Can storage 10 sets of expert-level welding program , it is convenient to operate for welder and save time to re-set the welding parameters. The parameter program can be stored and invoked freely.



Independent ventilation design, 100% duty cycle

Trip-proof :anti-dust, anti-moisture, anti-corrosion,the seal Independent ventilation can make the welder to work in harsh environment and 100% duty cycle .

Because of soft switch technology , consumption of switchtube becomes much lower, and the efficiency of whole machine is very high.



Patent protection

Detached windshield & auto-sleep fan

New designed detached windshield, it is very convenient for repairing of after sales service, the fan can be taken out very easily, at the same time, it can prevent water, dust and iron filings enter into inside of machine.

The fan has auto-sleep function because of Solid state relay ,the machine will be lower power consumption and longer life.



Processes

Digital MIG, Pulse MIG
Double Pulse MIG, MMA

Product Number

Master MIG 500DPP

Input Power

AC330~440V 3PH

Rated Output

500A/39.0V/100% Duty cycle

Output Range

50-500A Max OCV:108V

Weight/Size(L*W*H)

98kg
1110*606*1460mm

KEY FEATURES

- New industrial grade design with plastic panel
- Multi-fuctions:MIG, MIG Pulse ,Double Pulse MIG MMA ,Lift ARC
- DSP Full digital control ,with synergic adjusting function ,can preset welding parameters, it is easy to operate
- Adopt double Module IGBT full bridge invert technology
- Specially use for thin plate of Aluminum
- Built-in expert-level database system
- Parameter program storage and invoking function
- Powerful network function, realize centralized monitoring ,centralized control ,software upgrade and remote diagnosis
- Realize automatic welding by connecting with robot and dedicated devices
- Record welding process continuously, easy to control quality and make record
- 100% duty cycle ,output cable can be lengthened 50M ,automatic compensating function
- Independent ventilation design ,comprehensive protection: anti-dust anti-moisture, anti-corrosion
- Over-heating /current, over-voltage and under-voltage protection
- Welding arc stable ,Little splash ,deep weld pool , and beautiful welding seam
- Separated digital wire feeder to show all the parameters , more convenient to operate by welder
- New trolley design, free combination



Three Years Extended Warranty Available.

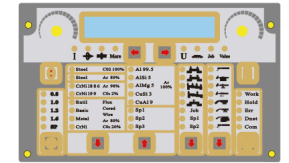


SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Wire speed | Wire diameter | Duty cycle 40 C | OCV | Net Weight | Packing size |
|-------------------|-------|---------------|-----------------------------|-------------|-----------------|-----------------|------|------------|---------------|
| Master MIG 500DPP | PMD08 | 330-440V | MMA:30-500A MIG :50-500A | 2.5-21m/min | 0.8/1.0/1.2/1.6 | 100%@500A | 108V | 98kg | 1110*606*1460 |

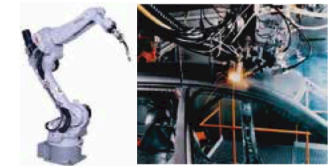
New industrial grade design with unique plastic panel , Synergic adjustment, easy to operate

Friendly operation interface ,it can be used by normal person without good welding technology, at the same time, voltage can be fine-tuned ,use more friendly



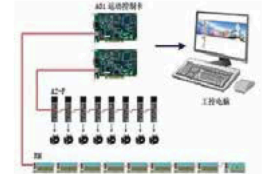
Realize automatic welding by connecting with robot and dedicated devices

Connecting with robot is trend of future development, can widely use for vehicles, ship building, steel structure industry etc. it can Improve work efficiency greatly, it has communication interface of robot ,can connect with robot perfectly .



Realize automatic welding by connecting with robot and dedicated devices

Adopt advanced network technology, realize the dispatching center remotely following and monitor of welding process ,or upgrade the software version as customers requirement , reduce maintenance costs and improve work efficiency



Built-in expert-level database system

Can storage 10 sets of expert-level welding program , it is convenient to operate for welder and save time to re-set the welding parameters. The parameter program can be stored and invoked freely.



Independent ventilation design, 100% duty cycle

Trip-proof :anti-dust, anti-moisture, anti-corrosion,the seal Independent ventilation can make the welder to work in harsh environment and 100% duty cycle .

Because of soft switch technology , consumption of switchtube becomes much lower, and the efficiency of whole machine is very high ,



Patent protection

Detached windshield & auto-sleep fan

New designed detached windshield, it is very convenient for repairing of after sales service, the fan can be taken out very easily, at the same time, it can prevent water, dust and iron filings enter into inside of machine.

The fan has auto-sleep function because of Solid state relay ,the machine will be lower power consumption and longer life.



POWER OF DIGITAL INNOVATION



TIG SERIES *Full Digital*

- TIG160P/TIG 200P Digital
- TIG200PAC/DC
- TIG315PAC/DC
- TIG 250/TIG 300
- TIG400P / 500P ACDC

TIG160P/TIG200P Digital

Processes

TIG,Pulse TIG,MMA

Product Number

TIG160P Digital
TIG200P Digital

Input Power

160V-270V 1PH

Rated Output

TIG160A/16.4V/ 60% Duty Cycle
TIG200A/18.0V/ 60% Duty Cycle

Output Range

5-160A Max OCV:60V
5-200A Max OCV:60V

Weight/Size(L*W*H)

10kg
320*140*270mm

KEY FEATURES

- Smart design with full digital control
- 110V/220V available for TIG200P
- New 3D style plastic panel
- STM 32 MCU digital control full bridge technology
- Multi-Process:TIG,Pulse TIG,MMA
- Welding parameters can be stored and invoked, use friendly
- Simple interface, easy to use, favorable man-machine conversation
- Wide voltage input:160V-270V 1PH
- Over-heating/over-current protection
- Adopt IGBT full bridge invert technology .
- Isolation circuit for TIG troch switch ,reduce electromagnetic interference
- Low power consumption for energy saving
- Small size, more portable

APPLICATIONS

- Structural fabrication
- Construction
- Can be used for hardware,fence, windows ,metal sheet welding



KEY FEATURES

PWM current mode control

Smart design &full digital controll

Welding parameters program

Accessories



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|---------|---------|---------------|----------------------------|-----------------|-----|------------|--------------|
| TIG160P | PTD0302 | 150-270V | TIG: 5-160A MMA:10-160A | 60%@160A | 56V | 10kg | 417*136*268 |
| TIG200P | PTD0303 | 150-270V | TIG: 5-200A MMA:10-200A | 60%@200A | 56V | 10kg | 417*136*268 |

Processes

TIG, MMA

Product Number

TIG200P AC/DC
TIG315P AC/DC

Input Power

160V-270V 1PH
330V-440V 3PH

Rated Output

TIG200A/18V/40% Duty Cycle
TIG300A/22.6V/40% Duty Cycle

Output Range

5-200A Max OCV:60V
5-300A Max OCV:60V

Weight/Size(L*W*H)

13.3kg/17kg
480*210*390mm

Processes

TIG, MMA

Product Number

TIG 250
TIG 300

Input Power

330V-440V 3PH

Rated Output

TIG250A/20.0V/40% Duty cycle
TIG300A/22.0V/40% Duty cycle

Output Range

15-250A Max OCV:56V
15-300A Max OCV:56V

Weight/Size(L*W*H)

18kg
486*213*370mm

KEY FEATURES

- 110V/220V available for TIG200P AC/DC
- Smart design with full digital control
- PWM current control
- STM 32 MCU digital control full bridge technology
- Multi-Process:TIG,Pulse TIG,MMA,AC square wave
- Welding parameters can be stored and invoked, use friendly
- Simple interface, easy to use, favorable man-machine conversation
- Multi-waveform output includes AC square wave
- Zero-crossing current control
- Minimum current for TIG is 5Amps
- Foot pedal control can be available
- Over-heating/over-current protection
- Isolation circuit for TIG torch switch ,reduce electromagnetic interference
- Low power consumption for energy saving

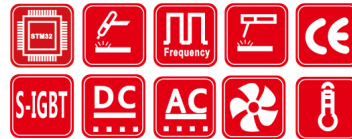


KEY FEATURES

- PWM current control
- Multi-Process:TIG MMA
- 2T/4T function
- Over-heating/over-current protection
- Adopt MOSFET invert technology ,mature and stabilization
- Isolation circuit for TIG torch switch ,reduce electromagnetic interference
- Low power consumption for energy saving
- Small size ,more portable



Two Years Extended Warranty Available.



Two Years Extended Warranty Available.



KEY FEATURES

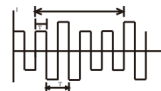
Smart design & full digital control



Optional normal panel



AC square wave



Welding parameters program



KEY FEATURES

Analog control



PWM current mode control



Accessories



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|---------------|-------|---------------|---------------------------|-----------------|-----|------------|--------------|
| TIG200P AC DC | PTD06 | 150-270V | TIG:5-200A MMA:10-160A | 40% @200A | 60V | 13.3kg | 480*210*390 |
| TIG315P AC DC | PTD07 | 330-440V | TIG:5-300A MMA:10-250A | 40% @300A | 60V | 17.0kg | 480*210*390 |

PRODUCTS SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|--------|-------|---------------|----------------------------|-----------------|-----|------------|---------------|
| TIG250 | PTA04 | 330-440V | TIG:15-250A MMA:15-220A | 40% @250A | 56V | 18kg | 486*213*370mm |
| TIG300 | PTA05 | 330-440V | TIG:15-300A MMA:15-220A | 40% @300A | 56V | 18kg | 486*213*370mm |

Processes

TIG, MMA

Input Power

330V-440V 3PH

Output Range

5-400A Max OCV:80V
5-500A Max OCV:80V

Product Number

TIG400P AC/DC
TIG500P AC/DC

Rated Output

TIG400A/26V/100% Duty Cycle
TIG500A/30V/100% Duty Cycle

Weight/Size(L*W*H)

35kg/45kg
720*350*600mm



KEY FEATURES

- New industrial grade design with plastic panel
- Double Module IGBT full bridge invert technology
- DSP Full digital control with synergic adjusting function friendly interface, easy to use, favorable man-machine conversation
- Multi-Process:TIG,Pulse TIG, MMA ,AC square wave
- 100% duty cycle
- Welding parameters can be stored and invoked, use friendly
- Multi-waveform output includes AC square wave
- Zero-crossing current control
- Minimum current for TIG is 5Amps
- Foot pedal control can be available
- Independent ventilation design , comprehensive protection: anti-dust, anti-moisture, anti-corrosion
- Over-heating /current, over-voltage and under-voltage protection
- Isolation circuit for TIG torch switch ,reduce electromagnetic interference
- Low power consumption for energy saving



Full digital control, simple interface, easy to use, favorable man-machine conversation

Multi-functions ,Multi-waveform output includes AC square wave

Adopt double Module IGBT full bridge invert technology

Adopt Infineon module IGBT , full bridge PWM invert technology small size ,light weight, low consumption



Independent ventilation design, 100% duty cycle

Trip-proof :anti-dust, anti-moisture, anti-corrosion, the seal Independent ventilation can make the welder to work in harsh environment and 100% duty cycle .

Because of soft switch technology , consumption of switch tube becomes much lower, and the efficiency of whole machine is very high



Patent protection

Detached windshield & auto-sleep fan

New designed detached windshield, it is very convenient for repairing of after sales service, the fan can be taken out very easily, at the same time, it can prevent water, dust and iron filings enter into inside of machine.

The fan has auto-sleep function because of Solid state relay ,the machine will be lower power consumption and longer life.



Patent protection

New trolley design, free combination

The power source , water cooler , tool box and trolley can combine freely, the customer can order separately part or whole set according to the different applications



Two Years Extended Warranty Available.



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|---------------|-------|---------------|---------------------------|-----------------|-----|------------|--------------|
| TIG400P AC DC | PTD08 | 330-440V | TIG:5-400A MMA:20-400A | 100%@400A | 80V | 35kg | 720*350*600 |
| TIG500P AC DC | PTD09 | 330-440V | TIG:5-500A MMA:20-500A | 100%@500A | 80V | 45kg | 720*350*600 |

RECOMMENDED ACCESSORIES



WP-18 water cooling torch



KDP-50 25MM +300A earth clamp



Gloves



Auto darkening helmet

POWER OF DIGITAL INNOVATION



ARC SERIES

- ARC 160/ARC 200 Digital
- ARC 120T/140T/160T/200T
- ARC 140/ARC 160
- ARC 200/ARC 250
- ARC 315S/ARC 400S
- ARC 400S Cel
- ARC 400S
- ARC 400
- ARC 400/ARC 500 Plastic
- ARC 400/ARC 500

ARC 160/ARC 200 Digital

Processes
Digital MMA, LIFT TIG

Product Number
ARC160 Digital
ARC200 Digital

Input Power
160V-270V 1PH

Rated Output
160A/26.4V/40% Duty cycle
180A/28.0V/40% Duty cycle

Output Range

10-160A Max OCV:65V
10-180A Max OCV:70V

Weight/Size(L*W*H)
4.3kg/4.8kg
317*136*268mm

KEY FEATURES

- Smart design with full digital control
- New 3D style plastic panel
- New constant power control
- Multi Process MMA/Lift TIG
- VRD switch
- Adjustable hot start arc force anti stick
- Wide voltage input :150V-270V 1PH
- Can change voltage into 110V 1PH
- All round protection :over-heating protection
over-current protection over/under voltage protection
- Low power consumption for energy saving
- Small size ,more portable

APPLICATIONS

- Structural fabrication
- Construction
- Can be used for hardware, fence, windows , metal sheet welding



Two Years Extended Warranty Available.



KEY FEATURES

Smart design & full digital control



Full digital control



Accessories



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|--------|-------|---------------|----------------------|-----------------------|-----|------------|--------------|
| ARC160 | PAD01 | 160-270V | 10-160A | 40%@160A 100%@101A | 65V | 4.3kg | 317*136*268 |
| ARC200 | PAD03 | 160-270V | 10-180A | 40%@180A 100%@155A | 70V | 4.8kg | 317*136*268 |

ARC 120T/140T/160T/200T

ARC 140/ARC 160

Processes
MMA

Product Number

ARC-120T, ARC-140T
ARC-160T, ARC-200T

Input Power
160V-270V 1PH

Rated Output

125A/24.8V/40% Duty cycle
140A/25.6V/40% Duty cycle
160A/26.4V/40% Duty cycle
180A/28.0V/40% Duty cycle

Output Range

20-120A Max OCV: 65V
20-140A Max OCV: 65V
20-160A Max OCV: 65V
20-180A Max OCV: 65V

Weight/Size(L*W*H)

3.2/3.6/3.6/4.0kg
300*120*260mm

Processes
MMA

Product Number

ARC-140
ARC-160

Input Power
160V-270V 1PH

Rated Output

140A/25.6V/60% Duty cycle
160A/26.4V/60% Duty cycle

Output Range
20-140A Max OCV:60V
20-160A Max OCV:60V

Weight/Size(L*W*H)

3.2kg/3.6kg
430*330*165mm

KEY FEATURES

- Smart design with digital meter
- New 3D style plastic shield
- Inside hot start ,arc force ,anti-stick
- Wide voltage input:160V-270V 1PH
- Over-heating/over-current protection
- Low power consumption for energy saving
- Small size ,more portable

APPLICATIONS

- Structural fabrication
- Construction
- Can be used for hardware,fence, windows ,metal sheet welding



KEY FEATURES

- 110V/220V available
- New 3D style Plastic panel
- PWM current control
- Multi-Process: MMA/Lift TIG
- Wide voltage input 160V-270V
- All round protection :over-heating protection
over-current protection
over/under voltage protection
- Low power consumption for energy saving
- Small size ,more portable

APPLICATIONS

- Structural fabrication
- Construction
- Can be used for hardware,fence, windows ,metal sheet welding



One Year Extended Warranty Available.



Two Years Extended Warranty Available.



KEY FEATURES

Friendly operation interface

Hot start& Anti-sticking

Accessories



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40°C | OCV | Net Weight | Packing size |
|---------|---------|---------------|----------------------|-----------------|-----|------------|--------------|
| ARC120T | PAA1602 | 160-270V | 20-125A | 40%@125A | 65V | 3.2kg | 300*120*260 |
| ARC140T | PAA1604 | 160-270V | 20-140A | 40%@140A | 65V | 3.6kg | 300*120*260 |
| ARC160T | PAA1603 | 160-270V | 20-160A | 40%@160A | 65V | 3.6kg | 300*120*260 |
| ARC200T | PAA1601 | 160-270V | 20-180A | 40%@180A | 65V | 4.0kg | 300*120*260 |

KEY FEATURES

PWM current mode control

Inside structure

Hot start& Anti-sticking

Accessories



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40°C | OCV | Net Weight | Packing size |
|---------|---------|---------------|----------------------|-----------------|-----|------------|--------------|
| ARC-140 | PAA26 | 160-270V | 20-140A | 60% @140A | 60V | 3.0kg | 430*330*165 |
| ARC-160 | PAA2606 | 160-270V | 20-160A | 60% @160A | 60V | 3.6kg | 430*330*165 |

ARC 200/ARC 250

ARC315S

Processes

MMA ,LIFT TIG

Product Number

ARC-200
ARC-250

Input Power

160V-270V 1 PH

Rated Output

180A/28.0V/60% Duty cycle
230A/29.2V/60% Duty cycle

Output Range

20-180 A Max OCV:60V
20-230A Max OCV:80V

Weight/Size(L*W*H)

6kg/8.4kg
430*330*165mm

Processes

MMA

Product Number

ARC 315S

Input Power

AC220/380V ±15% 3PH

Rated Output

220V:200A/100% Duty cycle
380V:300A/40% Duty cycle

Output Range

220V:20-200A Max OCV:65V
380V:20-280A Max OCV:65V

Weight/Size(L*W*H)

14 5kg /486*213*370mm

KEY FEATURES

- 110V/220V available for ARC200
- New 3D style Plastic panel
- PWM current control
- Arc force adjustable
- Multi-Process: MMA/Lift TIG
- Wide voltage input 160V-270V
- All round protection :over-heating protection
over-current protection
over/under voltage protection
- Low power consumption for energy saving
- Small size ,more portable

APPLICATIONS

- Structural fabrication
- Construction
- Can be used for hardware,fence, windows ,metal sheet welding



KEY FEATURES

- New industrial grade design
- Adopt single tube IGBT
- Can preset welding current
- Double voltage 220/380 ±15%
- Independent ventilation design ,comprehensive protection: anti-dust, anti-moisture, anti-corrosion
- Over-heating /current, over-voltage and under-voltage protection
- EMC design
- Strong power output, can weld $\Phi 4.0$ easily
- Adaptive control system of generator, which can stand voltage fluctuation
- Welding arc stable ,Little splash ,deep weld pool , and beautiful welding seam



Two Years Extended Warranty Available.



energy saving
Powertek Inverter Technology



Two Years Extended Warranty Available.

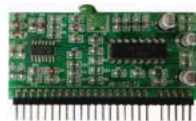


energy saving
Powertek Inverter Technology

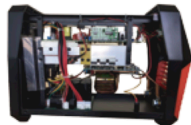


KEY FEATURES

PWM current mode control



Inside structure



Hot start& Anti-sticking



Accessories

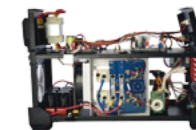


KEY FEATURES

Generator



Inside structure



Independent ventilation design



Accessories



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|---------|---------|---------------|----------------------|-----------------|-----|------------|--------------|
| ARC-200 | PAA2607 | 160-270V | 20-180A | 60%@180A | 60V | 6.0kg | 430*330*165 |
| ARC250 | PAA27 | 160-270V | 20-230A | 60%@230A | 80V | 8.4kg | 430*330*165 |

SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Arc force current | Rod diameter | Duty cycle 40 C | OCV | Net Weight | Packing size |
|----------|-------|--------------------|------------------------------|-------------------|--------------|-----------------------|-----|------------|---------------|
| ARC 315S | PAA23 | 220V/380V ±15% 3PH | 220V:20-190A 380V:20-230A | 0-100A | 2.5-4.0 | 220V:100% 380V:40% | 75V | 22kg | 486*213*370mm |

ARC 400S

ARC 400S Cel

Processes

MMA

Product Number

ARC-400S

Input Power

AC220/380V ±15% 3PH

Rated Output

220V:200A/30V/60% Duty cycle
380V:300A/35V/40% Duty cycle

Output Range

220V:20-200A Max OCV:75V
380V:20-300A Max OCV:75V

Weight/Size(L*W*H)

16kg
486*213*370mm

Processes

MMA

Product Number

ARC 400S Cel

Input Power

330V-440V 3PH

Rated Output

250A/32.5V/60% Duty cycle

Output Range

25-250A Max OCV:90V

Weight/Size(L*W*H)

18kg
486*213*370mm

KEY FEATURES

- New industrial grade design
- Adopt double module IGBT
- Can preset welding current
- Double voltage 220/380 ±15%
- Independent ventilation design ,comprehensive protection: anti-dust, anti-moisture, anti-corrosion
- Over-heating /current, over-voltage and under-voltage protection
- EMC design
- Strong power output, can weld Φ5.0 easily
- Adaptive control system of generator, which can stand voltage fluctuation
- Welding arc stable ,Little splash ,deep weld pool , and beautiful welding seam



KEY FEATURES

- Smart design with full digital control
- New 3D style Plastic panel
- PWM current control
- Special for cellulose electrode
- Max current for cellulose welding 280A, OCV above 90V
- High duty cycle 100% @25°C
- Arc force adjustable
- High ability in resisting power grid voltage wave and power grid compensation
- All round protection :over-heating protection
over-current protection
over/under voltage protection
- Low power consumption for energy saving
- Small size ,more portable



Two Years Extended Warranty Available.



Two Years Extended Warranty Available.



KEY FEATURES

Module IGBT



Generator



Independent ventilation design



Accessories



KEY FEATURES

PWM current mode control



Friendly control panel



Down welding process of cellulose electrode



Accessories



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Arc force current | Rod diameter | Duty cycle 40 C | OCV | Net Weight | Packing size |
|----------|-------|--------------------|------------------------------|-------------------|--------------|-----------------------|-----|------------|---------------|
| ARC-400S | PAA18 | 220V/380V ±15% 3PH | 220V:20-200A 380V:20-300A | 0-100A | 2.5-5.0 | 220V:100% 380V:40% | 75V | 16kg | 486*213*370mm |

SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Net Weight | Packing size |
|--------------|-------|---------------|----------------------|-----------------|-----|------------|---------------|
| ARC 400S Cel | PAA25 | 330-440V | 25-250A | 60% @25.0A | 90V | 18kg | 486*213*370mm |

ARC 400

ARC 400/500 Plastic

Processes
MMA

Product Number
ARC 400

Input Power
330-440V

Rated Output
350A/35V/40% Duty cycle

Output Range
25-350A Max OCV:80V

Weight/Size(L*W*H)
28kg
486*213*370mm

Processes
MMA

Product Number
ARC 400
ARC 500

Input Power
AC330-440V 3PH

Rated Output
400A/36V/100% Duty cycle
500A/40V/100% Duty cycle

Output Range
20-400A Max OCV:80V
20-500A Max OCV:80V

Weight/Size(L*W*H)
25kg/27kg
720*350*600mm

KEY FEATURES

- New industrial grade design
- Adopt double module IGBT
- Can preset welding current
- Independent ventilation design ,comprehensive protection: anti-dust, anti-moisture, anti-corrosion
- Over-heating/current,over/under voltage protection
- EMC design
- Strong power output, can weld Φ5.0 easily
- Adaptive control system of generator, which can stand voltage fluctuation
- Welding arc stable, little splash, deep weld pool, and beautiful welding seam



KEY FEATURES

- New industrial grade design with plastic panel friendly operation interface
- Adopt double Module IGBT soft switch full bridge invert frequency 20KHZ
- Can preset welding current
- Independent ventilation design ,comprehensive protection: anti-dust, anti-moisture, anti-corrosion
- Over-heating /current, over-voltage and under-voltage protection
- 100% duty cycle ,output cable can be lengthened 50M, automatic compensating function
- Welding arc stable ,Little splash ,deep weld pool , and beautiful welding seam



Two Years Extended Warranty Available.



Three Years Extended Warranty Available.



KEY FEATURES

Module IGBT



Generator



Independent ventilation design



Accessories



KEY FEATURES

Friendly operation interface



Infineon Module IGBT



Detached windshield & auto-sleep fan



Patent protection

Independent ventilation design, 100% duty cycle



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Arc force current | Rod diameter | Duty cycle 40 C | OCV | Net Weight | Packing size |
|---------|-------|---------------|----------------------|-------------------|--------------|-----------------|-----|------------|---------------|
| ARC 400 | PAA24 | 330-440V | 25-350A | 0-100A | 2.5-5.0 | 40%@350A | 75V | 28kg | 486*213*370mm |

SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Arc force current | Rod diameter | Duty cycle 40 C | OCV | Net Weight | Packing size |
|--------|-------|---------------|----------------------|-------------------|--------------|-----------------|-----|------------|--------------|
| ARC400 | PAA19 | 330-440V | MMA:20-400A | 0-100A | 2.5-5.0 | 100%@400A | 75V | 35kg | 720*350*600 |
| ARC500 | PAA20 | 330-440V | MMA:20-500A | 0-100A | 2.5-5.0 | 100%@500A | 70V | 40kg | 720*350*600 |

Processes

MMA

Product Number

ARC 400
ARC 500

Input Power

AC330~440V 3PH

Rated Output

400A/36V/60% Dutycycle
500A/40V/60% Dutycycle

Output Range

20-400A Max OCV:80V
20-500A Max OCV:80V

Weight/Size(L*W*H)

53kg/700*300*550mm

KEY FEATURES

- Adopt advanced module IGBT full-bridge invert technology and power-factor correction technology with invert frequency 20KHZ
- Arc-force current adjustment function and self-adaptation system, deep weld pool, beautiful welding seam and high welding quality
- 60% duty cycle
- Output cable can be lengthened 50M with stable current
- Voltage compensation function, strong anti-grid fluctuations.
- Suitable for various electrode such as acid electrode, basic electrode, stainless steel electrode, cast-iron electrode, heat-resistant steel electrode, etc., which can weld carbon steel, cast iron, stainless steel, alloy steel and so on.



Three Years Extended Warranty Available.



KEY FEATURES

Friendly operation interface



Infineon Module IGBT



Detached windshield & auto-sleep fan



Patent protection

Independent ventilation design, 100% duty cycle



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Arc force current | Rod diameter | Duty cycle | OCV | Net Weight | Packing size |
|--------|-------|---------------|----------------------|-------------------|--------------|------------|-----|------------|---------------|
| ARC400 | PMA19 | 330-440V | MMA:20-400A | 0-100A | 2.5-5.0 | 60%@400A | 75V | 53kg | 700*300*550mm |
| ARC500 | PMA20 | 330-440V | MMA:20-500A | 0-100A | 2.5-5.0 | 60%@500A | 70V | 53kg | 700*300*550mm |

POWER OF DIGITAL INNOVATION



CUT SERIES

- CUT45N
- CUT70N
- CUT50
- CUT100
- CUT70H
- CUT100H
- CUT160

CUT45N

CUT70N

Processes

CUT

Product Number

CUT-45N

Input Power

160V-270V 1PH

Rated Output

CUT: 45A/132.0V/ 40%Duty cycle

Output Range

20-45A Max OCV: 275V

Weight/Size(L*W*H)

9.5kg
430*330*165mm

Processes

CUT

Product Number

CUT-70N

Input Power

AC 330-440V 3PH

Rated Output

CUT65A/140V/40% Duty Cycle

Output Range

20-65A Max OCV:275V

Weight/Size(L*W*H)

22kg
480*210*390mm

KEY FEATURES

- Smart design with new plastic panel
- Wide voltage input: 160V-270V
- Customized PFC, the input voltage can be AC96-270V
- Non-HF arc strike
- Digital meter display, can preset the cutting current
- Adaptive control system of 4-8KW generator
- The length of cutting torch can be 50M
- Can connect with plasma gouging to work as gouging using
- Build-in CNC control connector
- Max cutting thickness is 25mm, quality cutting thickness is 15mm
- Unique inside structure with super cooling system
- Stable cutting current with excellent cutting performance



Two Years Extended Warranty Available.



energy saving
Powertek Inverter Technology



KEY FEATURES

- Smart design with new plastic panel
- Wide voltage input: 330V-440V
- Customized PFC
- Non-HF arc strike
- Digital meter display, can preset the cutting current
- The length of cutting torch can be 50M
- Can connect with plasma gouging to work as gouging using
- Build-in CNC control connector
- Max cutting thickness is 30mm, quality cutting thickness 20mm
- Unique inside structure with super cooling system
- Stable cutting current with excellent cutting performance



Two Years Extended Warranty Available.



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Powertek Inverter Technology



KEY FEATURES

Friendly operation



Generator



Arc pressure meter



Central adaptor (optional)



Accessories



KEY FEATURES

Friendly operation



Arc pressure meter



Central adaptor (optional)



Accessories



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | Cutting thickness | OCV | Net Weight | Packing size |
|---------|-------|---------------|----------------------|--------------------|--------------------------|------|------------|---------------|
| CUT-45N | PLD02 | 160-270V | 20-45A | 40%@45A | Max:15mm Quality:10mm | 275V | 9.5kg | 430*330*165mm |

SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Cutting thickness | Net Weight | Packing size |
|---------|-------|---------------|----------------------|--------------------|------|--------------------------|------------|---------------|
| CUT-70N | PLD01 | 330-440V 3PH | 20-65A | 40%@65A | 275A | Max:30mm Quality:20mm | 22kg | 430*330*165mm |

CUT 50

CUT100

Processes
CUT

Input Power
160V-270V 1PH

Output Range
20-45A Max OCV:240V

Processes
CUT

Input Power
AC 330-440V 3PH

Output Range
20- 95A Max OCV:310V

Product Number
CUT 50

Rated Output
CUT45A/98.0V/40%Duty cycle

Weight/Size(L*W*H)
9.5kg
430*330*165mm

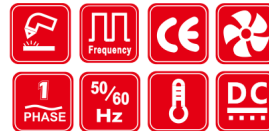
Product Number
CUT-100

Rated Output
CUT95A/120V/40% Duty Cycle

Weight/Size(L*W*H)
22kg
480*210*390mm

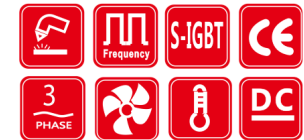
KEY FEATURES

- Smart design with plastic panel
- PWM current mode control
- Post-gas can be adjustable
- Build in air pressure on the front panel
- Wide voltage input:160V-270V 1PH
- Non-contact HF arc starting with pilot arc
- Digital meter display, can preset the cutting current
- Over-heating/over-current protection
- Isolation circuit for cutting torch switch, reduce electromagnetic interference
- Low power consumption for energy saving
- Small size ,more portable



KEY FEATURES

- Smart design
- IGBT full bridge technology
- Non-contact HF arc starting with pilot arc
- Wide voltage input:330V-440V 3PH
- Unique control mode of big and small arc
- Unique inverter construction inside
- Post-gas can be adjustable
- 2T/4T and gas detection
- Over-heating/over-current protection
- Isolation circuit for cutting torch switch, reduce electromagnetic interference
- Low power consumption for energy saving



KEY FEATURES

Friendly operation

Arc pressure meter

Central adaptor (optional)

Accessories



KEY FEATURES

Friendly operation

Unique control mode of big and small arc

Passive PFC

Central adaptor (optional)

Accessories



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | Cutting thickness | OCV | Net Weight | Packing size |
|-------|-------|---------------|----------------------|-----------------|--------------------------|------|------------|---------------|
| CUT50 | PLA02 | 160-270V | 20-45A | 40%@45A | Max:15mm Quality:10mm | 240V | 9.5kg | 430*330*165mm |

SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Cutting thickness | Net Weight | Packing size |
|--------|-------|---------------|----------------------|-----------------|------|--------------------------|------------|---------------|
| CUT100 | PLA04 | 330-440V 3PH | 20-95A | 40%@95A | 240V | Max:40mm Quality:25mm | 22kg | 430*330*165mm |

CUT70H/CUT100H

CUT-160

Processes

CUT

Product Number

CUT 70H
CUT 100H

Input Power

AC 330-440V 3PH

Rated Output

CUT:65A/40% Dutycycle
CUT:95A/40%Dutycycle

Output Range

20-65A Max OCV:290V
20-95A Max OCV:320V

Weight/Size(L*W*H)

30kg / 555*325*450mm
33.5kg / 745*400*600mm

Processes

CUT

Product Number

CUT-160

Input Power

AC 330-440V 3PH

Rated Output

CUT160A/144V/100% Duty Cycle

Output Range

20-160A Max OCV:350V

Weight/Size(L*W*H)

45kg
720*350*600mm

KEY FEATURES

- Smart design
- IGBT full bridge technology
- Non-contact HF arc starting with pilot arc
- Wide voltage input:330V-440V 3PH
- Unique control mode of big and small arc
- Unique inverter construction inside
- Post-gas can be adjustable
- 2T/4T and gas detection
- Over-heating/over-current protection
- Isolation circuit for cutting torch switch, reduce electromagnet interference
- Low power consumption for energy saving



Two Years Extended Warranty Available.



KEY FEATURES

- New industrial grade design with plastic panel friendly operation interface
- Double Module IGBT soft switch full bridge invert technology
- MCU digital PWM control
- Non-contact high-frequency arc striking
- Can preset cutting current
- Built-in CNC standard connector
- Build in central adaptor
- Post-gas can be adjustable
- 2T/4T and gas detection
- Independent ventilation design, comprehensive protection: anti-dust, anti-moisture, anti-corrosion
- Over-heating /current, over-voltage and under-voltage protection
- Isolation circuit for cutting torch switch, reduce electromagnetic interference
- Low power consumption for energy saving

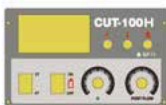


Two Years Extended Warranty Available.



KEY FEATURES

Friendly operation



Unique control mode of big and small arc



Passive PFC



Central adaptor (optional)



Accessories



KEY FEATURES

Friendly operation



Unique control mode of big and small arc



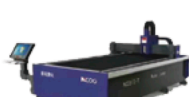
Independent ventilation design, 100% duty cycle



Detached windshield & auto-sleep fan



CNC



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Cutting thickness | Net Weight | Packing size |
|----------|-------|---------------|----------------------|--------------------|------|---------------------------|------------|---------------|
| CUT 70H | PLA12 | 330-440V 3PH | 20-65A | 40%@70A | 290V | Max: 25mm Quality:20mm | 30kg | 555*325*450mm |
| CUT 100H | PLA10 | 330-440V 3PH | 20-95A | 40%@100A | 320V | Max: 40mm Quality:32mm | 33.5kg | 745*400*600mm |

SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Duty cycle 40 C | OCV | Cutting thickness | Net Weight | Packing size |
|--------|-------|---------------|----------------------|--------------------|------|--------------------------|------------|---------------|
| CUT160 | PLA11 | 330-440V 3PH | 20-160A | 100%@160A | 350V | Max:60mm Quality:45mm | 45kg | 720*350*600mm |

Processes

Submerged arc, MMA, Gouging

Product Number

MZ1000
MZ1250

Input Power

AC330~440V 3PH

Rated Output

1000A/70V/100% Duty cycle
1250A/82.5V/100% Duty cycle

Output Range

250-1000A Max OCV:100V
250-1250A Max OCV:100V
Weight/Size(L*W*H)
100kg
960*500*790mm

Processes

Submerged arc, MMA, Gouging

Product Number

CC/CV-1000

Input Power

AC330~440V 3PH

Rated Output

1000A/50V/100% Duty cycle

Output Range

CC mode:100-1000A
CV mode:10-50V

Weight/Size(L*W*H)

120kg
740*440*946mm

KEY FEATURES

- Adopt module IGBT full bridge invert technology
- Multi-function: Submerged arc, MMA, Gouging
- Can preset welding current /voltage, and speed of tractor
- The tractor walks steadily, can be used in multi-operating-cases
- High Duty cycle 100%
- Independent ventilation design ,comprehensive protection: anti-dust, anti-moisture, anti-corrosion
- Over-heating /current, over-voltage and under-voltage protection



KEY FEATURES

- CC/CV mode, with arc voltage sensing technology
- 1000A@100% duty cycle, maximum output capacity is 1500A
- Reduced heat affected zone, minimized distortion and increased mechanical properties
- Overloading, overcurrent, loss of phase and short circuit protection ensures long-lasting performance
- Line voltage compensation maintains weld consistency, even with line voltage changes of ±15%
- Precise output characteristics
- Modular parallel to enhance reliability
- User-friendly operation panel



Two Years Extended Warranty Available.



energy saving
Powerful Inverter Technology



Two Years Extended Warranty Available.



energy saving
Powerful Inverter Technology



SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Wire diameter | Duty cycle 40 C | OCV | Net Weight | Packing size |
|---------|-------|---------------|----------------------|---------------|--------------------|-----|------------|--------------|
| MZ-1000 | PSA02 | 330-440V | 250-1000A | 3.2~6.0 | 100%@1000A | 100 | 102kg | 960*500*790 |
| MZ-1250 | PSA01 | 330-440V | 250-1250A | 3.2~6.0 | 100%@1250A | 100 | 102kg | 960*500*790 |

SPECIFICATIONS

| Model | Code | Input voltage | Output current range | Wire diameter | Duty cycle 40 C | OCV | Net Weight | Packing size |
|------------|-------|---------------|---|---------------|--------------------|------|------------|--------------|
| CC/CV-1000 | PSA04 | 330-440V | CC mode: 100-1000A CV mode: 10-50V | 1.2~6.0 | 100% @1000A | 100V | 120kg | 740*440*946 |



MIG/MAG

MIG/MAG TORCH

**FAVOURABLE PRICE
QUALITY GUARANTEE**



PLASMA

PLASMA CUTTING TORCH


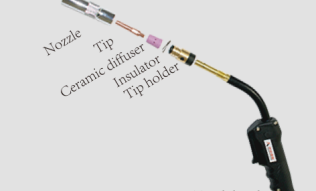




**FAVOURABLE PRICE
QUALITY GUARANTEE**




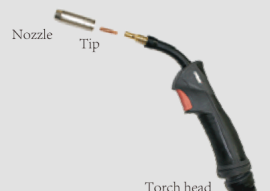




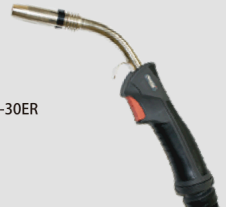



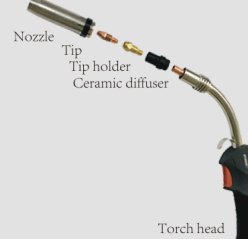




MIG /MAG Torch—European Type

| | | |
|---|--|--|
| <p>MB15 60%@180A CO2 60%@150A MIX</p>  | <p>Nozzle Tip Torch head</p>  |  |
| <p>MB24 60%@250A CO2 60%@220A MIX</p>  | <p>Nozzle Tip Tip holder Ceramic diffuser Torch head</p>  |  |
| <p>MB36 60%@340A CO2 60%@320A MIX</p>  | <p>Nozzle Tip Tip holder Ceramic diffuser Torch head</p>  |  |

MIG /MAG Torch—Asian Type

| | | |
|--|--|--|
| <p>QTB350 60%@350A</p>  | <p>Nozzle Tip Ceramic diffuser Insulator Tip holder Torch head</p>  |  |
| <p>QTB500 60%@500A</p>  | <p>Nozzle Tip Ceramic diffuser Insulator Tip holder Torch head</p>  |  |

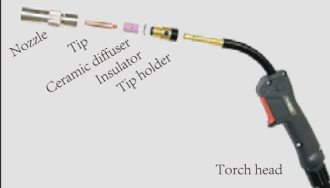
MIG Torch—Parker (Uniarc)

| | | |
|---|--|---|
| <p>DGB1500-30ER</p>  | <p>Nozzle Tip Torch head</p>  |  |
| <p>DGB2400-30ER</p>  | <p>Nozzle Tip Tip holder Ceramic diffuser Torch head</p>  |  |
| <p>SGB2400-30ER</p>  | <p>Nozzle Tip Tip holder Ceramic diffuser Torch head</p>  |  |
| <p>SGB3600-30ER</p>  | <p>Nozzle Tip Tip holder Ceramic diffuser Torch head</p>  |  |
| <p>SGB5000-30ER</p>  | <p>Nozzle Tip Ceramic diffuser Tip holder Torch head</p>  |  |

MIG /MAG Torch—Parker



CPA350C-30ER

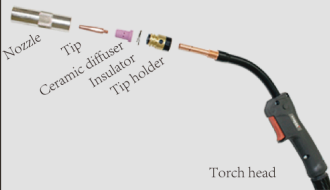


Nozzle
Tip
Ceramic diffuser
Insulator
Tip holder

Torch head



CPA500C-30ER



Nozzle
Tip
Ceramic diffuser
Insulator
Tip holder

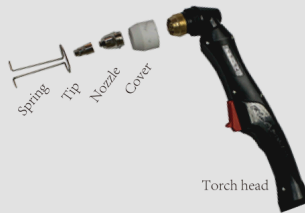
Torch head



CUT Torch—YNWS



A60



Spring
Tip
Nozzle
Cover

Torch head



P80



Guide wheel
Tip
Nozzle
Cover

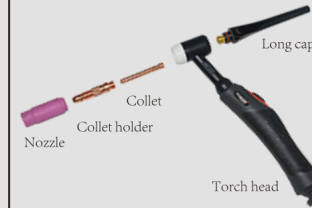
Torch head



TIG Torch—Parker



DGT17



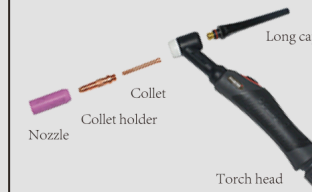
Nozzle
Collet
Collet holder

Long cap

Torch head



DGT26



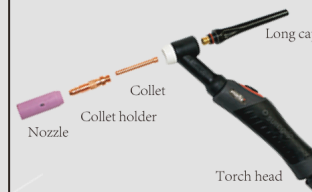
Nozzle
Collet
Collet holder

Long cap

Torch head



SGT18-S1-12



Nozzle
Collet
Collet holder

Long cap

Torch head



SGT26-S1-12



Nozzle
Collet
Collet holder

Long cap

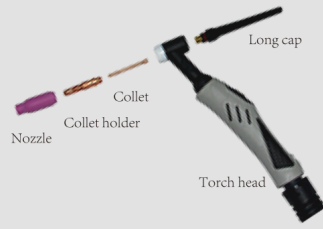
Torch head



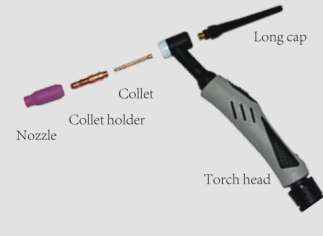
TIG Torch—Welding



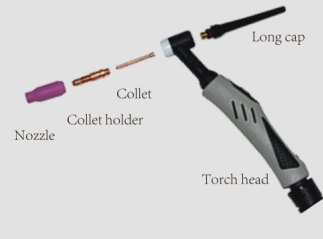
WP17



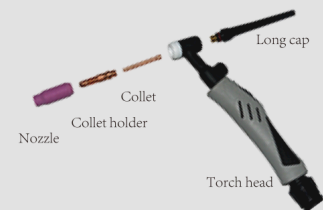
WP18



WP26

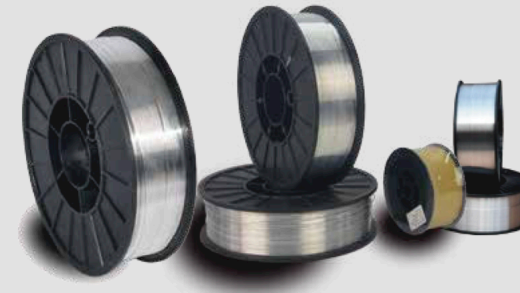


WP17-V



MIG WIRE

Flux Cored Wire (Carbon Steel Self-shielded FCW)



FRN-YT71T-GS

(AWS A5_20 E71T-GS\GB/T10045 E501T-GS\JIS Z3313 YFW-S50GB\EN ISO 17632-B T49 Z TG-1NS)

Self-shielded flux cored wire for single pass applications in all positions. Arc is smooth and soft, good welding performance, full slag covering and easy slag removal.

Uses: FRN-YT71T-GS is suitable for welding of mild on bridge, oil production platform, petroleum pipeline and its daber.

Typical Chemical Composition of weld metal (%)

| C | Mn | Si | P | S | Al | Shielded Gas |
|------|------|------|-------|-------|------|--------------|
| 0.09 | 0.88 | 0.34 | 0.012 | 0.009 | 1.32 | None |

Typical Mechanical Properties of Deposited Metal(None Gas Shielded)

| Yield Strength Rel(Mpa) | Tensile Strength Rel(Mpa) | Elongation δ(%) | Impact test | |
|-------------------------|---------------------------|-----------------|------------------|----------------------|
| | | | Temperature (°C) | Impact energy KV2(J) |
| - | 540 | - | - | - |

Reference Current (DC+)

| Wire Diameter(mm) | Φ | | |
|-------------------|-------------------------|--------------------|--------------|
| | Φ1.2 | Φ1.6 | Φ2.0 |
| Current Range(A) | FHFF 80-220 V 80-180 | 160-280 120-220 | 180-300 - |

Packing terms

| Diameter | 0.8mm | 0.9mm | 1.0mm | 1.2mm | 1.6mm |
|---------------------------|-------|-------|-------|-------|-------|
| Plastic spool 1kg D100mm | √ | √ | √ | √ | √ |
| Plastic spool 5kg D200mm | √ | √ | √ | √ | √ |
| Plastic spool 15kg D270mm | √ | √ | √ | √ | √ |

FRN-YT71T-11

(AWS E71T-11\GB E501T-11\JIS Z3313 YFW-S50GB\EN ISO 17632-B T49 ZT11-1NA)

FRN-YT71T-11 is a self-shielded flux cored wire for single and multi-pass applications in all positions. Arc is smooth and soft, good welding performance, full slag covering and easy slag removal.

Typical Chemical Composition of weld metal (%)

| C | Mn | Si | P | S | Al | Shielded Gas |
|------|------|------|-------|-------|------|--------------|
| 0.08 | 0.60 | 0.14 | 0.012 | 0.009 | 1.22 | None |

Typical Mechanical Properties of Deposited Metal(None Gas Shielded)

| Yield Strength Rel(Mpa) | Tensile Strength Rel(Mpa) | Elongation δ(%) | Impact test | |
|-------------------------|---------------------------|-----------------|------------------|----------------------|
| | | | Temperature (°C) | Impact energy KV2(J) |
| 480 | 530 | 23 | - | - |

Reference Current (DC-)

| Wire Diameter(mm) | Φ | | |
|-------------------|-------------------------|--------------------|--------------|
| | Φ1.2 | Φ1.6 | Φ2.0 |
| Current Range(A) | FHFF 80-220 V 80-180 | 160-280 120-220 | 180-300 - |

Packing terms

| Diameter | 1.2mm | 1.6mm | 2.0mm |
|---------------------------|-------|-------|-------|
| Plastic spool 1kg D100mm | √ | √ | √ |
| Plastic spool 5kg D200mm | √ | √ | √ |
| Plastic spool 15kg D270mm | √ | √ | √ |

ACCESSORIES



Foot Control

Used in some models of TIG
and AC/DC TIG range



Plastic tool box



Three-tier welding cart

Three tiers, 150lbs loading capability welding cart



Hammer&Brush



Earth Clamp

200A/300A/500A



Electrode Holder

200A/300A/500A