

New generation multi-
function ACDC welder
Of TIG315PACDC(E202)



SHENZHEN JASIC TECHNOLOGY CO.,LTD

Function

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Stock Code: 300193

- Water tank available
- Reminder of tungsten and current
- Torch automatic recognition
- Remote control
- Good consistency
- High reliability
- Digital control
- CE
- Suit for various acid/basic electrode
- Intelligent fan
- Auto-storage
- Advanced arc strike
- Small volume
- Light weight
- Hot start
- Arc force
- Anti stick
- VRD



Features

1. Excellent multi-function welder
2. Brand-new digital control system
3. High reliability
4. Harmonious human-machine interaction interface
5. Impeccable automatic protection function
6. Great automatic recording function
7. Powerful storage/invoking function
8. Intelligent fan
9. Water tank available

Excellent multi-function welder

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TIG315PACDC multi-function welder is a kind of machine which contain AC TIG (square wave, triangular wave and sine wave are optional), AC pulse TIG, DC TIG, DC pulse TIG, AC-DC hybrid TIG, MMA(DC, AC), and spot TIG (DC, AC) etc.

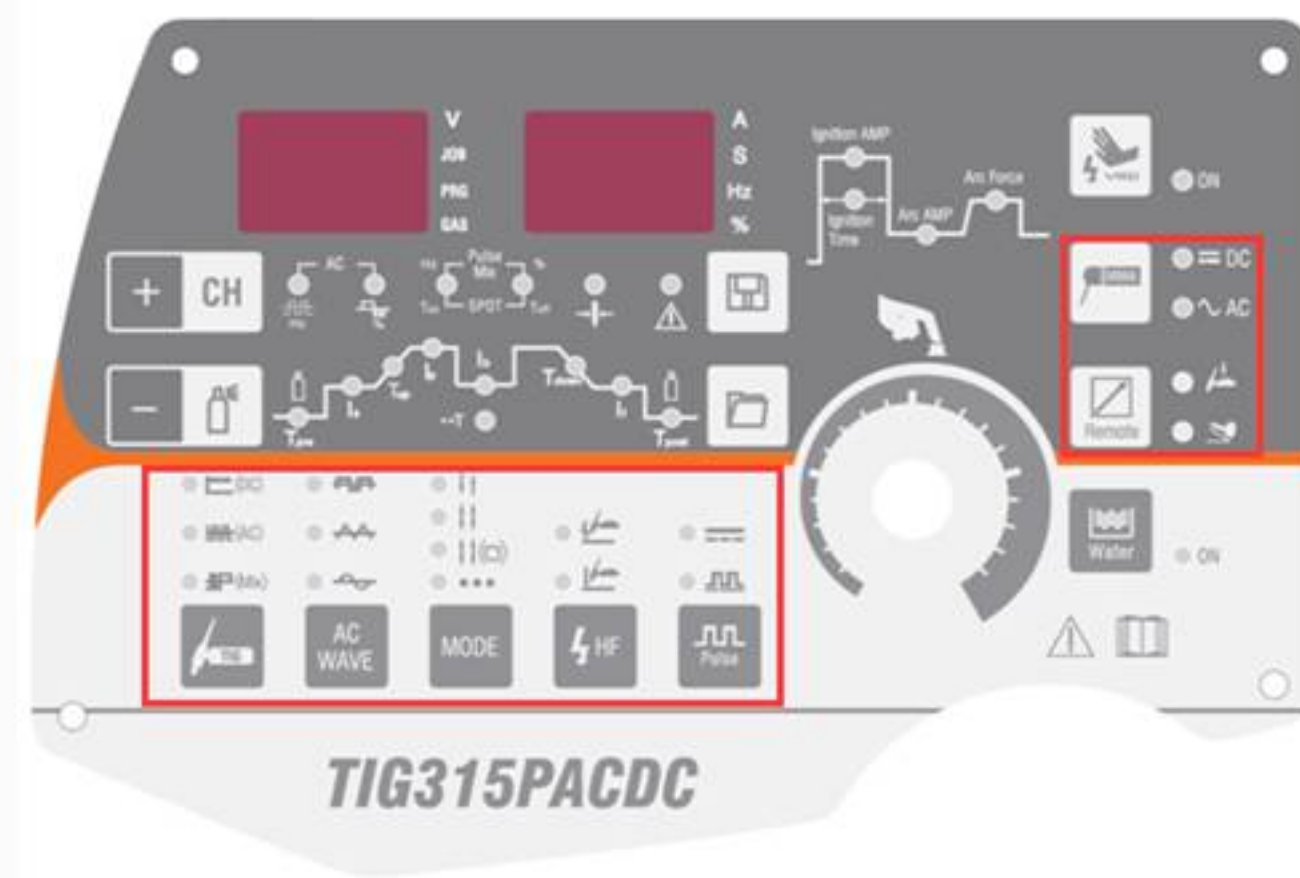
Besides, the torch control mode, foot pedal and remote torch are optional.

Revolutionary square wave, triangular wave and sine wave.

Square wave: polarity changing quickly, high arc stability, good dynamic characteristics, strong ability to clean oxide film. Widely used to weld al-mg alloy .

Triangular wave: reducing heating input, welding bead forming fast, less welding deformation, suitable for thin plate.

Sine wave : low arc noise, and softer.



Brand-new digital control system

Adopting international advanced MCU digital control technology. Core function is achieved by software which can be upgraded according to the requirements and easy maintenance.

Advantages of digital control mode:

1. Good consistency, stable property;
2. High control accuracy;
3. Fast dynamic response;
4. Expert database ,easily achieved high quality welding.



- **Metallic Dust Test**

Key components are sealed with gules.
No malfunction after which testing
parameter is 20-25Kg/h under
conductive metallic dust room for 90
minutes.



High reliability

- **Long term loading test**

AC400V \pm 15% input voltage, no malfunction occurs after continuous working 24 hours with rated maximum output in 40 $^{\circ}$ C testing room.



High reliability

- **Vibration Test**

No structure damage and components drop when charged machine vibrating for 8 hours from 5Hz to 150Hz. The strongest vibration is 8 times gravitational acceleration during the test. The welder can operate normally after this test.



High reliability

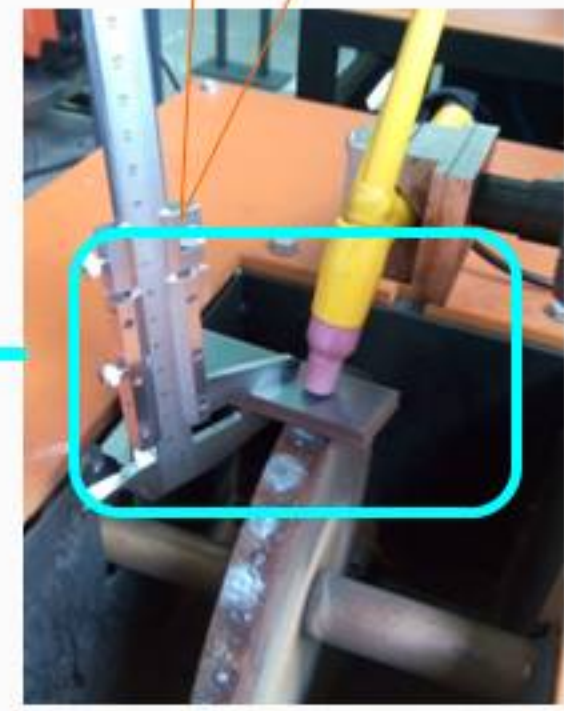
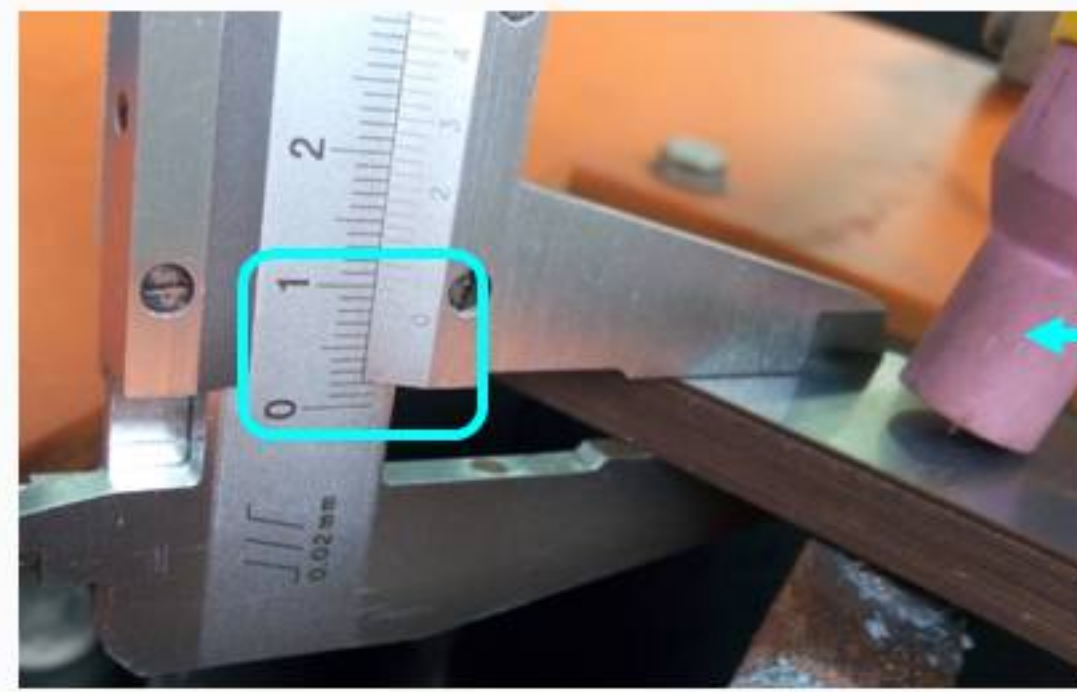
- Arc Ignition test

When using 8m welding torch(The distance between tungsten and workpiece is 8mm), cold state arc ignition success rate is 99%; Under -10°C circumstance(The distance between tungsten and workpeice is 4mm), arc ignition success rate is 99%.

数据监控				
	1#机	2#机	3#机	4#机
引弧次数	0	120000	91	25
成功引弧	0	119857	69	11
引弧成功率	0%	99%	75%	44%
运行状态	运行停止	运行停止	运行停止	运行停止

Successful arc ignition rate 99%

Tungsten needle and workpiece distance is 8mm



High reliability

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- **Water Spray Test**

No malfunction when multidirectional spraying water to charged welder.



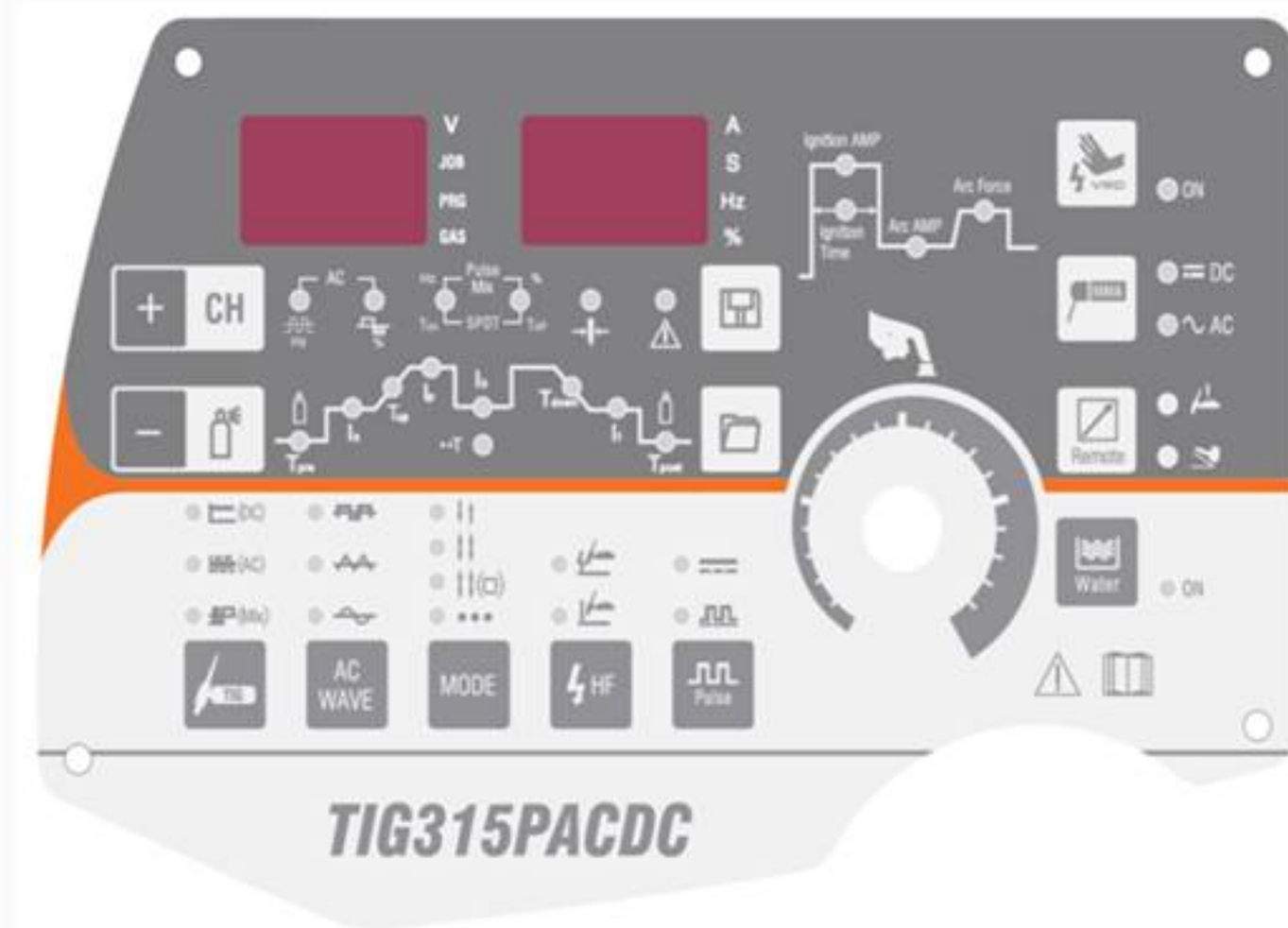
Harmonious human-machine interaction interface

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Using internationally accepted graphical language interface, the main human-machine interaction interface is simple, intuitive and easy to understand.

Besides, the operation panel layout is convenient for various user to operate.



Impeccable automatic protection function

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The welder has perfect protection function, and the display meter will show error code E-1/2/3/4 when OH/OC/OV/UV occurs.



Great automatic recording function →

The welder can count the data such as cumulative number of start-ups, cumulative start-up time, cumulative welding time, cumulative TIG welding time, cumulative MMA welding time, cumulative number of alarm, overheating, under voltage and over voltage. All the data will be Stored in FLASH memory for long-term and provide the basis for maintenance.

Powerful storage/invoking function →

Machine has multi-channel parameter storage function that can store 50 groups of data parameters and can be invoked any time. Parameters are automatically saved when the power is off, and the state before shutting down is restored when the power is turned on again.

Intelligent fan

Function: Energy saving and noise reduction ,decreasing the dust into welder and prolonging the lifetime of intelligent fan .

Water tank available

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When the output current exceed 200A, the water tank must be turned on, or else the torch is easily damaged. The welder control its ON/OFF intelligently according the current, and it will auto-off without current exceed 5 minutes .



Specification

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Item	Unit	Parameters	Item	Unit	Parameters
Power Voltage	VAC	AC400V ± 15% 50HZ	Basis current	A	6-315
Rated input current	A	19.5@TIG 21.0@MMA	Pulse duty cycle	%	5-95
Power capacity	KVA	9.0@TIG 10.0@MMA	Pre-gas time	S	0.5-10
Output current	A	6-315 (TIG)	Post-gas time	S	0.5-15
		10-270(MMA)	Up-slop time	S	0-15
Arc force current	A	0-100	Down-slop time	S	0-15
Hot start current	A	0-80	Hot start time	S	0.01-1.5
OCV	V	65	Remote		Yes
VRD	V	12.5	Arc strike mode		HF/Contact
Rated operating voltage	V	22.6@TIG 30.8@MMA	Efficiency	%	80
AC output frequency	Hz	50-200	Duty cycle	%	TIG: 315@30% MMA: 270@30%
AC balance	%	20-60	Power factor		0.7
AC-DC output frequency	Hz	1.0-20	Insulation class		F
AC-DC duty cycle	%	5-95	Protection class		IP21S
Pulse frequency	DC	0.5~200	Dimensions	mm	566.0 x 223.5 x 405
	AC	0.5~20	Weight	Kg	25.5

Welding performance →

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Butt joint 2.0mm
Square wave TIGP
Peak current: 155A
Basic current: 51A
AC balance: 35%
AC frequency: 70Hz
Pulse frequency: 1.7Hz
Pulse width: 40%



Welding performance

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Fillet weld 3.0mm
sine wave TIG
Current: 80A
AC balance: 40%
AC frequency: 80Hz



Welding performance →

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**Butt joint 1mm
triangular wave TIG
Current: 55A
AC balance: 35%
AC frequency: 90Hz**



Welding performance →

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Butt joint 2.0mm
square wave MixTIG
Current:95A
AC balance:35%
AC frequency:70Hz
Mix frequency:2.0Hz
DC duty cycle:20%



A photograph of a large industrial facility, possibly a refinery or chemical plant, with a complex network of pipes, scaffolding, and structures. The image is overlaid with a dark blue gradient. The text 'THANK YOU' is centered in a white, bold, italicized serif font.

THANK YOU