

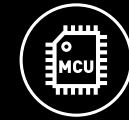


## TIG 320/400/500 DC PULSE

Range marks a significant advancement in welding technology by offering MCU control system, large LCD display, superior performance, high duty cycle, efficiency, and versatility in a compact and user-friendly package. This range is suitable for professional welding purpose, highly quality welding job and heavy duty industry.

Precise Settings/2T,4T/Fan on demand/Lift Tig/Pulsed Tig/AC Tig/DC Tig/Foot remote control/Hand remote control make TIG 320/400/500 DC PULSE popular choices among welders looking for efficiency, portability, and enhanced welding performance in various applications.

## Machine Features



### Precise Settings

LCD display offers more precise control over welding parameters such as amperage and arc characteristics, allowing for better adaptation to different materials and thicknesses.



### Lift Tig

Allows welders to perform both stick(SMAW) welding and TIG(G-TAW) welding using the same machine.



### Pulsed Tig

It allows for controlled cycles of higher peak current and lower background current. This results in less overall heat input into the workpiece compared to continuous current TIG welding. As a result, it helps minimize distortion, improved control, better fusion, reduced spatter and enhanced welding speed.



### 2T/4T

Both 2T and 4T modes improve welding efficiency by automating aspects of the welding process, reducing the need for manual intervention and streamlining workflow.



### Foot remote control

It can improve the comfort and ergonomics of the welding process. Welders can maintain a stable and comfortable position while adjusting welding parameters with their foot, reducing fatigue and enhancing overall welding performance.



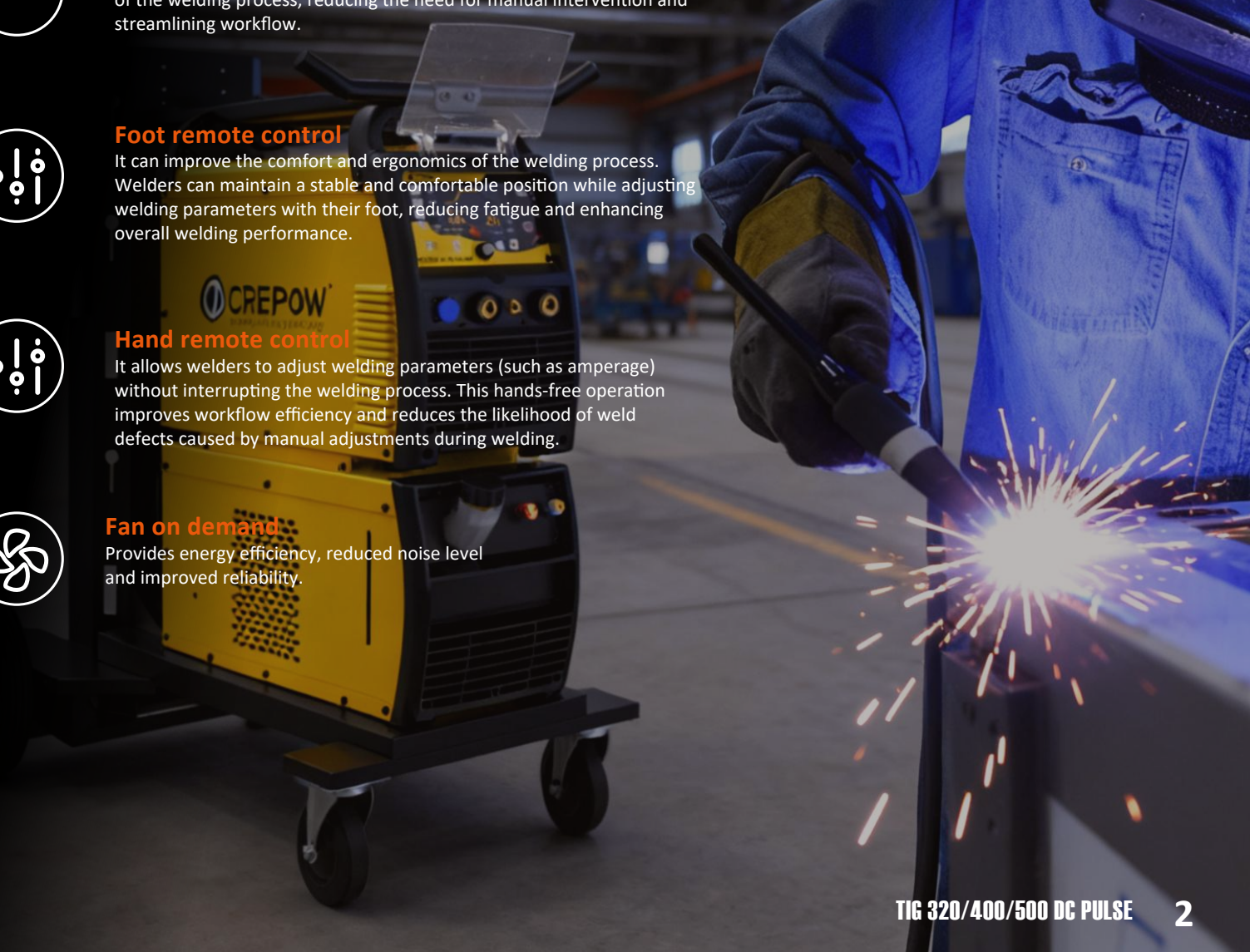
### Hand remote control

It allows welders to adjust welding parameters (such as amperage) without interrupting the welding process. This hands-free operation improves workflow efficiency and reduces the likelihood of weld defects caused by manual adjustments during welding.



### Fan on demand

Provides energy efficiency, reduced noise level and improved reliability.



# Machine details:

## TIG Single Regulator

### Gas Hose

Durable gas hose with gas fittings



### Welding cable and electrode holder

Welding cables are flexible, highly quality insulation and heavy-duty cables designed to carry the electric current from the power source to the electrode holder and ultimately to the workpiece. High insulation, jaw mechanism and heat resistance ensure efficient welding operation and electrode performance. Cable section can be selected from 6mm<sup>2</sup> to 120mm<sup>2</sup>.

Color of PVC jacket can be customized. Electrode holder types can be customized.



### Four Wheels Trolley

Rocky design includes four wheels, two universal wheels at the front and two large wheels at the rear. Cylinder carrier makes power source, water cooler and cylinder in one set for easy maneuverability for easy maneuverability.



### TIG 18-Torch

TIG 18 torch uses water circulated through a cooling jacket around the torch to absorb and dissipate heat. This method provides more effective cooling, allowing the torch to handle higher power levels without overheating. Ideal for heavy-duty welding tasks, including high-amperage applications and extended welding periods. It is suitable for welding thicker materials and for tasks requiring prolonged use.



### TIG 18/26-Torch

TIG 18/26 torch is larger and more robust. It usually has a larger handle and nozzle, designed for heavier-duty welding tasks. It is often used in industries like construction and heavy fabrication where larger welds and more robust equipment are required.



### Earth cable and earth clamp

Earth cable and earth clamp play critical roles in electrical safety by providing reliable grounding connections to protect personnel, equipment and facilities from electrical hazards and ensure proper functioning of electrical and welding system. Cable section can be selected from 6mm<sup>2</sup> to 120mm<sup>2</sup>. Color of PVC jacket can be customized. Earth clamp types can be customized.



### Water Cooler

Durable designs include high cooling capacity, water pressure sensor. It is easy to install, operate and maintain. Water tank capacity is 7L. Power supply is coming for power source.



### Wireless Hand Remote Control

It communicates wirelessly with 2.4G. Rechargeable lithium battery to support extended use during shifts. It enhances operational efficiency, safety and flexibility across various industrial. It can be equipped with all TIG models with LCD display version.



### Wireless Foot Control

It communicates wirelessly with 2.4G. Rechargeable lithium battery to support extended use during shifts. Comfortable pedal design makes ease of use. Durable material to ensure longevity and reliability. The max. remote control distance can be up to 20m.



### Foot Remote Control

Foot remote control can withstand rugged industrial environments. It is constructed from durable metal, it provides hands-free operation and precision control.

## Reliability



275Volts tested in production



Moisture proof  
Salt Spray proof  
Corrosion proof



Over heat protection



Over voltage protection



Over current protection

# Machine function

- Three phases
- Direct current
- Constant current
- LCD Display
- Moisture proof  
Salt Spray proof  
Corrosion proof
- Generator Friendly
- 275Volts tested in production
- MCU Control System



Front view



Side view

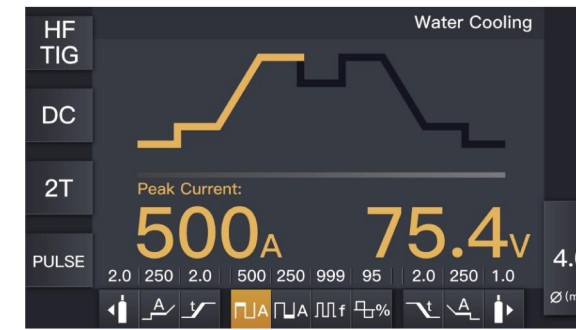


Rear view

## Control Panel

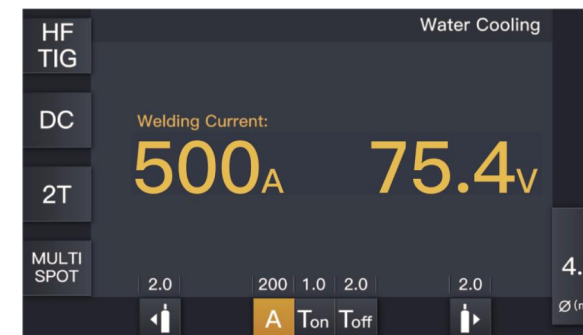
## Features

- 5 " LCD display for all welding settings display.
- Welding mode button for selections of HF TIG, Lift TIG, Stick. Exchange button for 2T/4T.
- Exchange button for Pulse and Non Pulse.
- SAVE JOB button for saving or open welding settings.
- -L: In HF TIG/ Lift TIG, press it to select Pre-gas time, Pre current and Up slope time; In Spot welding mode, press it to select Pre-gas time; In JOB program, press it to load the parameter settings for the select number.
- -R: In HF TIG/ Lift TIG, press it to select Down slope time, Post current and Post-gas time; In Spot welding mode, press it to select Post-gas time; In JOB program, press it to delete the parameter settings for the select number.
- Setting buttons: Press it to select Languages/ Units/ Information/ Factory reset setting.
- Tungsten diameter: Press it to select tungsten diameter, Press R functional button to confirm.
- Cooling mode selecting button: Press it to select Air cooling or Water cooling.



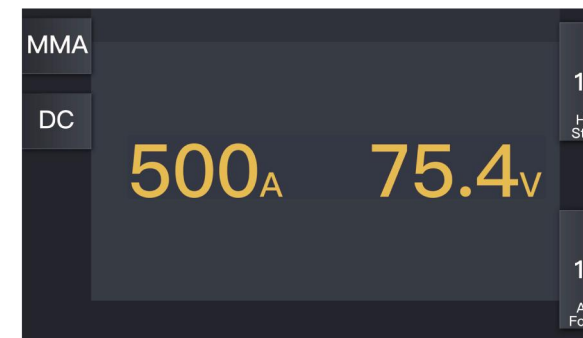
The control pad for DC TIG Multi Spot mode ( constant welding automatically)

Welding data setting includes 2T/4T, welding current, welding voltage, pre gas, post gas, welding time, inter-mittence time, tungsten diameter ( air cooling or water cooling)



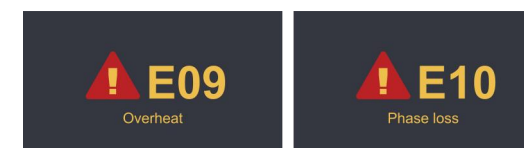
The control pad for DC TIG model

Welding data setting includes 2T/4T, welding current, welding voltage, pre gas, upslope current, upslope time, down slop time, down slop current, tungsten diameter, cooling type ( air cooling or water cooling)



The control pad for Stick mode

Welding data setting includes welding current, weld-ing voltage, AC Stick, DC stick, hot start and arc force.

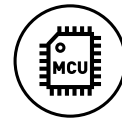


Error codes displayed on LCD screens can vary widely depending on the machine you are referring to. It indicates specific issues or malfunctions that the device has detected.



### Pulsed Tig

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### Precise Settings

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## Machine parameters:

Model	TIG320 DC PULSE		TIG400 DC PULSE		TIG500 DC PULSE	
Input voltage	3-400V 50-60Hz		3-400V 50-60Hz		3-400V 50-60Hz	
Process	TIG	MMA	TIG	MMA	TIG	MMA
Effective current(A)	14.3	18.9	18.7	24.6	25.9	32.5
Rated input current(A)	18.4	24.4	24.1	31.8	33.4	42
Rated input power(KW)	7.4	9.8	16.7	22.1	23.2	29.1
Duty cycle 40°C 10min	60% 320A 100% 250A		60% 400A 100% 310A		60% 500A 100% 390A	
Welding current(A)	5-320	10-320	10-400		10-500	
No load voltage(V)	72.7		74		78	
Efficiency			85%			
Power factor	0.68				0.8	
Insulation class			F			
Protection class			IP21S			
Dimensions(mm)			640*245*450			
Net weight(kg)	30.1		32		32	



### AC Tig

It offers cleaning action, weld penetration, material compatibility, heat control, electrode longevity, weld appearance, and suitability for thin materials. It is suitable for welding a wide range of materials, including aluminum, magnesium, titanium, etc. This makes AC TIG welding versatile in various industries, such as aerospace, automotive, and marine applications.



### DC Tig

It offers ease of use, versatility, excellent weld quality, precise penetration control, cost-effectiveness, suitability for thin materials, it can be used to weld a wide range of metals, including stainless steel, carbon steel, nickel alloys, copper, and titanium. It is a preferred choice for a wide range of welding applications in industries such as aerospace, automotive, manufacturing, and construction.

