CREPOW®
Welding & Cutting Technology

TIG 250-1/250-3 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 250-1/250-3 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

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 26-Torch

TIG26 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.

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 6mm2 to 120mm2.
Color of PVC jacket can be customized.
Electrode holder types can be customized.

Reliability

275Volts tested in production

Moisture proof
Salt Spray proof
Corrosion proof

Over heat protection

Over voltage protection

Over current protection

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 6mm2 to 120mm2.
Color of PVC jacket can be customized.
Earth clamp types can be customized.

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.

Machine function

- 1 Phase — Single phase
- 3 Phase — Three phases
- DC — Direct current
- CC — Constant current
- LCD Display — LCD Display
- VRD Safe — Voltage Reduction Device
- PROTE 275 — 275Volts tested in production
- MCU — MCU Control System
- 3 PROOF — Moisture proof, Salt Spray proof, Corrosion proof
- Generator Friendly

Front view

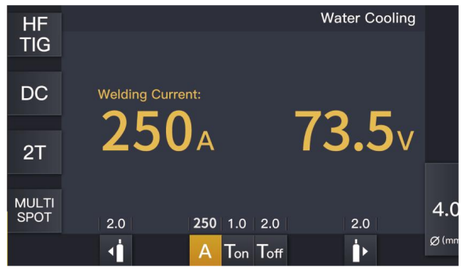
Side view

Rear view

Control Panel

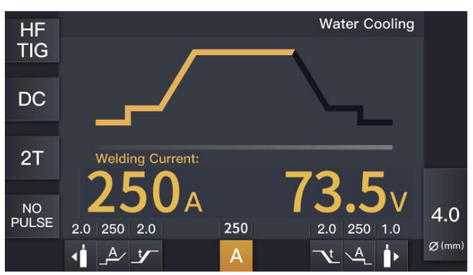
Features

- 3.5 " 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.



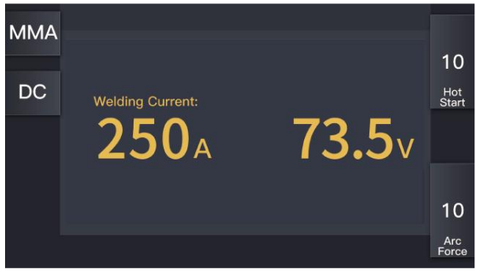
The control pad for DC TIG Multi Spot mode (constant welding automatically)

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



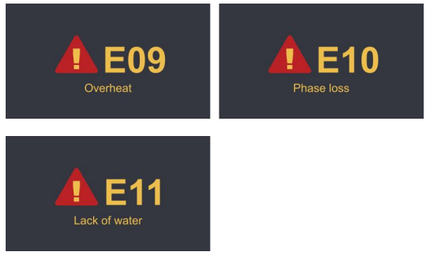
The control pad for DC TIG model

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, welding 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

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.

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.

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.

Machine parameters:

Model	TIG250-1 DC PULSE		TIG250-3 DC PULSE	
Input voltage	1-220V 50-60Hz		3-400V 50-60Hz	
Process	TIG	MMA	TIG	MMA
Effective current(A)	31	43.8	9.9	14.1
Rated input current(A)	40	56.5	12.8	18.2
Rated input power(KW)	9.2	13	8.9	12.6
Duty cycle 40℃ 10min	60% 250A 100% 195A		60% 250A 100% 195A	
Welding current(A)	10-250		10-200	5-200
No load voltage(V)	78.5		73.5	
Efficiency	85%			
Power factor	0.68			
Insulation class	F			
Protection class	IP21S			
Dimensions(mm)	457*189*350			
Net weight(kg)	10		10.5	