# INDUSTRIAL HEAVY DUTY DIGITAL WELDER

**DigiCon** Inside



## **TECHNICAL SPECIFICATIONS**

#### **Input Specifications**

Input Supply: 330 - 500VAC, 3Ph, 50/60Hz

Input @ 400A / 36V: 17.8KVA / 22.7HP, 25A@415V Input @ 310A / 32V: 12.5KVA / 15.8HP, 17.3A@415V Input @ 250A / 30V: 9.3KVA / 11.8HP, 13A@415V

Cooler power consumption: 0.4HP (Peak)

### **Mechanical Specifications**

(Power source with wheels)

Dimensions (LxWxH): 650x345x600mm

Weight: 49.5KG

(Power source + cooling unit + trolley)
Dimenstions (LxWxH): 1090x450x1050mm

Weight: 95.8KG

### **Output Specifications**

Output Current Range: 10A to 400A Duty Cycle @ 60%: 400A / 36V Duty Cycle @ 100%: 310A / 32V

Open Circuit Voltage (OCV): 75V - 95V DC

**Cooling unit:** 

Tank Capacity: 50Litre

Cooling type: Forced Air on Radiator

Heat Exchange: Radiator with copper tubing

Flow switch contact: Normally open

(Close when coolant flow)

#### **TIG Cycle Parameters**

Preflow Gas time: 0-25secs
Postflow Gas time: 0-25secs
Initial Amps: 10A-400A
Final Amps: 10A-400A
Upslope time: 0-25secs
Downslope time: 0-25secs
Peak Current: 10A-400A
Base Current: 10A-400A

Pulse Fequency: 0 to 50 Hz

Peak time: 10%-90%

### **Protection Features**

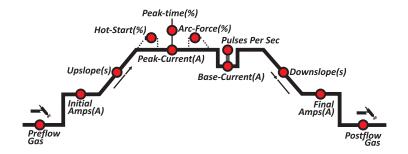
OT - Over Temperature (when internal temperature more than 70°C)

SP - Phase loss protection (when any phase is not present)

UV/OV - Input supply protection (when supply is <330V or >500VAC)

OC - Over Current (when over current flows through IGBT)

FL - External Fault (for connecting PLC/Torch cooling unit fault signal)

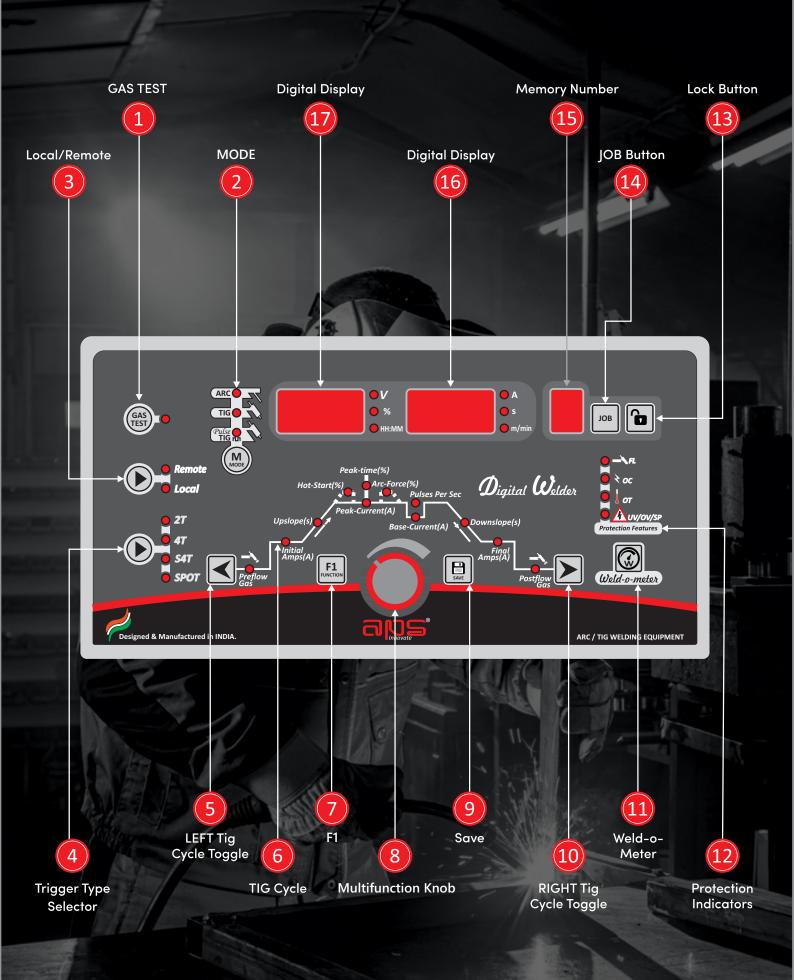


A Complete TIG Cycle with all parameters adjustable precisely using a single knob. All thanks to our "DigiCon Technology". Every parameter being set is visible on the display to the user making the interface very simple and user friendly.

Its no secret that power components like IGBTs, Diodes and Rectifiers need to be operated reliably in harsh environments. That's why APS takes extra measures in designing its products, by isolating these components completely with steel compartments, we ensure their reliability when operating in extreme environments.



## **Front Panel Description**



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- 1. GAS TEST: Check and set the gas flow rate without welding. This has an auto shut of after 10 sec.
- 2. MODE: Toggle button to select welding process of ARC, TIG, Pulse-TIG.
- 3. Local/Remote: Toggle button to select Amp control using Panel or Remote.
- 4. Trigger Type Selector: Toggle button for select 2T, 4T, S4T, Spot mode of torch trigger operation.
- 5. LEFT Tig cycle Toggle: Tig cycle parameter toggle to the left.
- 6. TIG Cycle: Tig cycle with adjustable parameter indicator.
- 7. F1: Funtion button to set, remote selection, spot timer and automation functions.
- 8. Multifunction Knob: Encoder to set parameters.
- 9. Save: Save button to return to save parameter.
- 10. RIGHT Tig cycle Toggle: Tig cycle parameter toggle to the right.
- 11. Weld-o-meter: Used for checking actual welding hours. Track welder productivity.
- 12. Protection Indicators: Fault/Protection indicators.
- 13. Lock Button: Lock button to Lock an unlock the Panel using a 3 digit digital password.
- 14. JOB Button: 10 programmable memories to store welding parameter for ready reference and usage.
- 15. Memory Number: Memory number indication to select the storage location.
- 16. Digital Display: Digital display to show Current (A), Time (s) and speed (m/min).
- 17. Digital Display: Digital display to show VItage (V), Percentage (%), Weld-o-meter time (HH:MM).

An Ergonomic digital front panel enhances ease of operator and ensures a fatigue free operation for hours together. An easy to understand operating panel helps the welder to learn quickly and adapt to the machine. Gone are the days when the welder has to adjust and tune himself according to the machine, the APOLLO series makes sure that the welder is able to quickly set the machine and concentrate his core job "WELDING". APOLLO has also ensured welder comfort by the 4T, S4T and Spot trigger control.





Gas cylinder trolley with EASY-LOAD system has a special tilting base for loading cylinder by a single person, without any assistance. No lifting required, just TILT and PUSH.

>> Weld-O-Meter

Record welding arc timer and view it on display. Ensure productivity.

>> Torch Coolant protection

Flow switch indication to protect TIG Torch from damaging due to lack of coolant flow.

Storage Programs

Upto 10 Storage programs for easy recalling of parameters.

Ergonomic Trolley

Gas cylinder trolley with EASY-LOAD system Complete welding setup in one trolley for easy mobility.

>> IN-Built HF Unit

High frequency non touch start feature

Spot / Tack Timer

Set timer for Tacks and ensure even looking tacks.

>> IP-23 Rated All Steel Enclosure

Suitable for outdoor and tough industrial environments.

VRD for welder safety

Reduces Open Circuit Voltage to ensure welder safety.

>> Fan -On-Demand

FOD reduces power consumption and dust ingress.

>> Foot-Pedal / Remote

Improves welder ease by giving complete control
Option to select Peak Current or Base Current via remote.

Heavy Output Terminals

Lug type / Euro heavy duty rated terminals.

















1) Apollo 400 Digital Pulse Tig Power Source



Order Code: APS-A400



2) Apollo 400 Digital Pulse Tig Power Source



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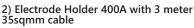
#### **ACCESSORIES AND PACKAGES**



1) Electrode Holder 400A with 3 meter 50sgmm cable



Order Code: AEH400A3M50SQ



P Order Code: AEH400A3M355Q



3) Earthing Clamp 400A with 3 meter 50sqmm cable



4) Earthing Clamp 400A with 3 meter 35sqmm cable



Crder Code: AEC400A3M355Q



5) TIG Welding Torch Water/Liquid Cooled 400Amp

Order Code: AWC4004M (4mtr) / AWC4008M (8mtr)

6) TIG Welding Torch Gas Cooled



Order Code: AGC2004M (4mtr) / AGC2008M (8mtr)

7) TIG Welding Torch Gas Cooled



Order Code: AGC3004M (4mtr) / AGC3008M (8mtr)

8) TIG Welding Torch Water/Liquid Cooled 400Amp



Order Code: AWP18-4M(4mtr)/AWP18-8M (8mtr)

9) TIG Welding Torch Gas Cooled



Order Code: AWP26-4M(4mtr)/AWP26-8M (8mtr)



10) Argon Regulator Single Stage Double Guage



11) Gas Flow Meter



Order Code: AREGSSDG-ARG



Order Code: AGASFLOWMTR



12) TIG Torch Cooling unit WC50FS Stainless steel Pump, Inbuilt Flow-Switch with indication and Fault output for TIG torch protection



Order Code: APS-WC50FS

**AUTHORISED DEALER:** 









