



**INDUSTRIAL  
HEAVY DUTY  
GTAW WELDER**

**GENESIS 400HD TIG**

ARC/Stick/SMAW Welding  
GTAW/TIG Welding  
& Gouging



**GENESIS 400HD TIG**



# TECHNICAL SPECIFICATION

## 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

## 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

## 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).

# FUNCTIONAL FEATURES

**ARC Force** for smooth and crisp welds.

**Hot Start** Helps in rusted and dirty welds.

**Preflow/Postflow Gas Time** ensuring weld quality and complete gas coverage.

**Upslope/Downslope** for smooth current transitions.

**Gas Test** for testing Gas flow rate prior to welding.

**Weld-O-Meter** for measuring welding arc hours and ensuring welder productivity.

**FL Protection** external / cooling unit fault.

**2T/4T** trigger settings for welder comfort during long seams.

# OTHER FEATURES

**Fan-On-Demand** feature reduces power consumption and dust ingress.

**VRD Safety** reduces Open Circuit Voltage to ensure welder safety.

**Remote** Feature for controlling welding current using a hand held remote or foot pedal.

**IP65 Panel** parts dust and water protected front panel switches & buttons.

**IP23 Rated** chassis suitable for outdoor as well as indoor use.

**Steel Body** for long life and rugged usage.

**Terminals** Lug type heavy duty rated.

## Mechanical Specifications

Dimensions (LxWxH): 650X345X600mm  
( Power source with wheels )  
Weight: 49.5kg

Dimensions (LxWxH): 1090X400X1050mm  
( Power source + cooling unit + trolley )  
Weight: 95.8kg

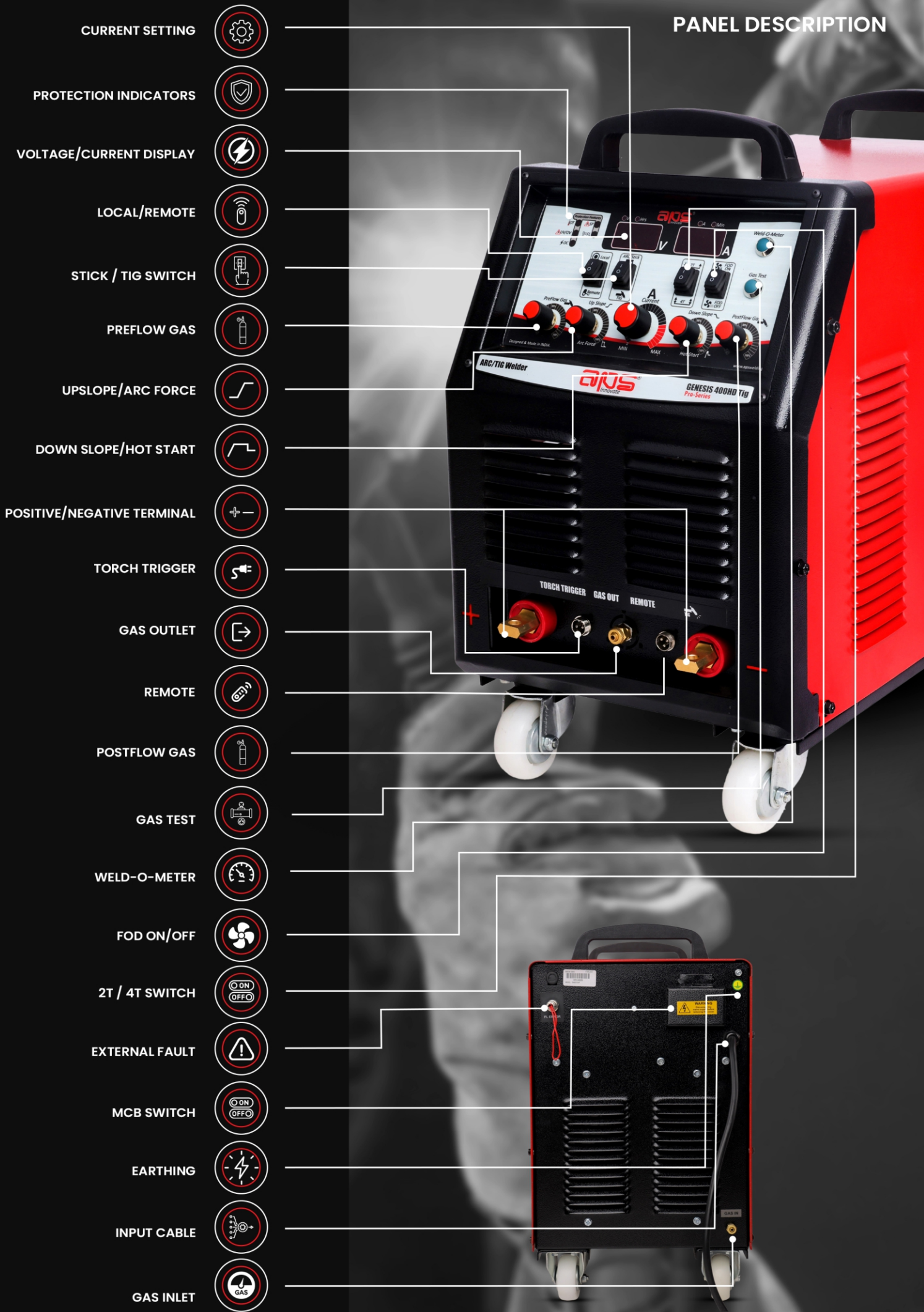
## Functional Specifications

Preflow Gas Time: 0-10secs  
Postflow Gas Time: 0-10secs  
Upslope Time: 0-10secs  
Downslope Time: 0-10secs  
Arc Force: 0-100%  
Hot Start: 0-100%



It's 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.

# PANEL DESCRIPTION





A) Genesis 400HDTig power source with wheels

Order Code: APS-G400HDTIG



B) Genesis 400HDTig power source with Cooling Unit Trolley

Order Code: APS-G400HDTIG-WC50

Order Code: APS-G400HDTIG-WC50FS

## ACCESSORIES AND PACKAGES



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

Order Code: AEH400A3M50SQ

2) Electrode Holder 400A with 3 meter 35sqmm cable

Order Code: AEH400A3M35SQ



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

Order Code: AEC400A3M50SQ

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

Order Code: AEH400A3M35SQ



5) TIG Welding Torch Water/Liquid Cooled 400Amp

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

6) TIG Welding Torch Gas Cooled 200Amp

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

7) TIG Welding Torch Gas Cooled 300Amp

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



8) Argon Regulator Single Stage Double guage

Order Code: AREGSSDG-ARG

9) Gas Flow Meter

Order Code: AGASFLOWMTR



10) TIG Torch Cooling unit WC50 - with Cast Iron Pump

Order Code: APS-WC50

11) 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 :



# ADVANCED POWER SOURCES<sup>®</sup> LIMITED

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