



for Welding Excellence

Consistency in quality & service 30 Years

INVA TIG AC-DC DIGITAL PULSE SERIES

INVA TIG 300 AC-DC / INVA TIG 500 AC-DC
AC-DC PULSE TIG WELDING MACHINES



- DC TIG
- AC TIG
- PULSE TIG
- MMA

Beneficial Features

- ⊙ Available in 2T/4T/SPOT modes.
- ⊙ Supports DC TIG, AC TIG, MMA, PULSE TIG DC/AC.
- ⊙ Both Pulse Time and Pulse Frequency adjustment is available for Superior quality welding result.
- ⊙ Digital indication of Error for easy fault detection.
- ⊙ Confirms to IEC 60974 international Standards.
- ⊙ MMA Welding suitable for rutile,basic,unalloyed, low & high alloyed, nickel base & copper alloys.
- ⊙ Fully IGBT controlled for more than 85% efficiency.
- ⊙ In-built Water cooling system.
- ⊙ Rust Proof coating to provide the worry free working even in saline or, marine weather.
- ⊙ Microcontroller or, microprocessor based digital control.
- ⊙ Special square wave for better quality AC welding.
- ⊙ TIG welding suitable to weld different thickness micro alloy steel, aluminum, stainless steel sections.

INPUT OUTPUT



BUILT IN FUNCTIONS FOR HIGH QUALITY TIG WELDING

- Soft switch technology with improved IGBT switching.
- Robust and sturdy HF for 100% arc striking.
- TIG, PULSETIG and MMAW welding facility.
- Smooth and 100% Arc striking suitable for automation.
- PULSETIG facility to minimize the job distortion.
- Gas Controlling system.
- Adjustable up-slope & down-slope for welding current.
- Built-in Over voltage, Under Voltage, Over Temperature, Phase failure protection.
- Lowest ever no load voltage i.e lesser than 62 watt.

Note: The Picture shows in the catalog is the advance ac-dc TIG welding machine, The standard machine may not give you the same look.

Excellent Welding for Higher Performance. . .

TECHNICAL SPECIFICATIONS

MODEL	INVA TIG 300 AC-DC DIGITAL	INVA TIG 500 AC-DC DIGITAL
Rated input volt	3 phase 415 V \pm 15%, 50Hz	
Rated input capacity	9.3 KVA	18.2KVA
Rated input current	11.4A	29.7A
Rated current	5-300 A	5-500 A
Output Load Voltage	10- 24 V	10-34 V
Welding current for SMAW	5-300 A	5-500 A
Base current	5-300 A	5-500 A
Crater fill current	5-300 A	5-500 A
Pulse ratio	1-100%	
AC bias	-50% TO +30%*	
Pulse frequency	0.2 - 200 Hz	
Pre-gas flow	0.1-15 S	
Post-gas flow	0.1-15s	
Up-slope	0.2-10s	
Down -slope	0.1-15s	
Oxide clean ratio	-40% TO +40%*	
Rated duty cycle	60%	60%
OCV	64V	76V
Power factor	0.95	
Insulation class	H	
IP CLASS	IP23S	
Weight	40Kg	70Kg
Dimension	640 x 330 x 520	660 x 360 x 782

Standard Scope of Supply

Power source	01 No.
Gas cooled torch 4/8 mtr length of appropriate capacity	01 No.
Argon regulator cum flow meter	01 No.
Gas hose of 3 mtr Length	01 No.
Welding Cable for earthing of 3 mtr	01 No.

Optional Accessories (At Extra Cost)

Remote control unit
Foot controlled remote
Water cooling unit(70 Ltrs / 25 Ltrs)
Water cooled torch
Auto TIG feeding systems



Gas cooled
Model SR - 26



Water cooled
Model WP - 18



Remote Controller



Foot Controlled
Remote

Adjustment :0 to maximum current continuous step less.
Cable Length :5 meters



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(In view of continuous development, we reserve the right to modify the design and / or dimensions without notice)



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