

## INVA TIG DIGITAL SERIES

INVA TIG 400P AC-DC / INVA TIG 500P AC-DC  
AC-DC PULSE TIG WELDING MACHINES

### 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 microprocessor based system for accurate output in every time.
- Confirms to IEC 60974 international Standards.
- MMA Welding suitable for rutile, basic, unalloyed, low & high alloyed, nickel base & copper alloys.
- 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 with 256 job saving facility.
- Customized sinusoidal wave for better quality AC welding.
- TIG welding suitable to weld different thickness (thin to thick) micro alloy steel, aluminum, stainless steel sections.

- DC TIG
- AC TIG
- Rectangular AC
- Sinusoid AC
- Triangular AC
- PULSE TIG
- MMA



Digital Controlled

INPUT

OUTPUT

3  
PHASE

50/60  
Hz

CC

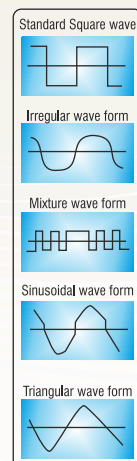
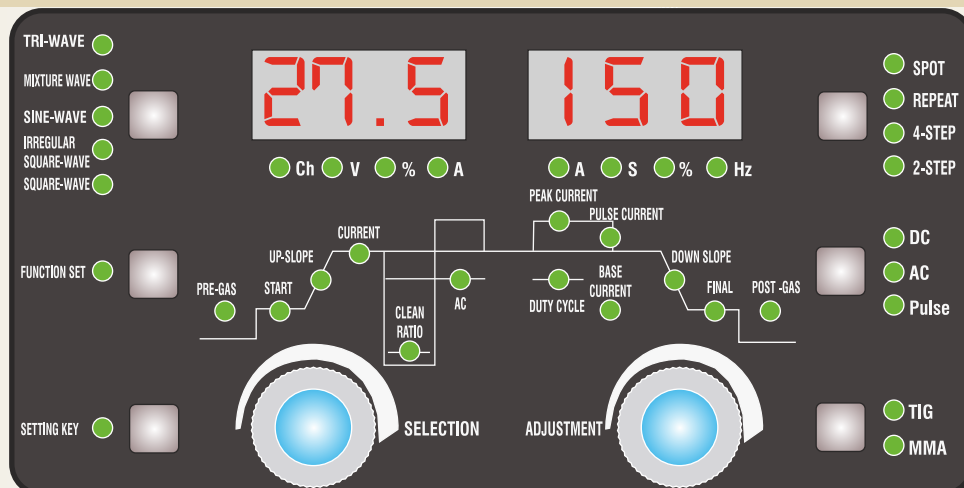
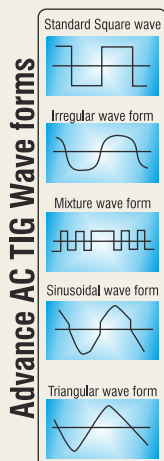
DC

AC

HF

01010  
DSP  
11100

### BUILT IN FUNCTIONS FOR HIGH QUALITY TIG WELDING



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 400P AC-DC		INVA TIG 500P AC-DC	
	DIGITAL		DIGITAL	
	TIG	ARC	TIG	ARC
Rated input volt	3 phase 410 V (-15%, +15%) , 50 / 60 Hz			
Max. input capacity	12.3 KVA	16.8 KVA	17.6KVA	23.5KVA
Rated input current (Slow blow Fuse)	3 x 17.4 A	3 x 24 A	3 x 24.7A	3 x 34 A
Rated current	5-400 A	5-400A	5-500 A	20-500A
Output Load Voltage	10- 26 V	10-34 V	10-30 V	20-40 V
Output Current @ 40% Duty	400 A	400 A	500 A	500A
Output Current @ 45% Duty	400 A	400 A	500 A	500 A
Output Current @ 60% Duty	400 A	400 A	500 A	500 A
Output Current @ 65% Duty	380 A	380 A	480 A	480 A
Output Current @ 100% Duty	310 A	310 A	400 A	400 A
Pulse ratio	1-100%			
AC bias	-50% TO +30%*			
Pulse frequency	0.2 - 200 Hz			
Pre / Post-gas flow	0.1-15s			
Up-slope	0.2-10s			
Down -slope	0.1-15s			
Rated duty cycle	60 % (400A)		60 % (500A)	
OCV	80V		80V	
Power factor	0.99			
Insulation degree of main transformer	H			
IP CLASS	IP23			
Weight	40Kg		70Kg	
Dimension	640 x 330 x 520		660 x 360 x 782	
Safety Standards	IEC 60 974-1; 3; 10 / CE / S-Safety sign / EMC class A			

### Standard Scope of Supply

Power source	01 No.
Water cooled torch 4 mtr length	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 / 20 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)



ISO 9001 : 2008