

Sigma Weld - Pro TIG

Digital Welding Inverters



Sigma Weld Pro Series is State of the art digital welding technology operating at 150kHz. Ensures very quick response time and better welding performance each time. The modular technology helps increase duty cycle upto 100% and ensures maximum machine uptime.

Optional Industry 4.0 compliance can be inbuilt to give you a complete Log of programs used, welder details, Gas, Current, Voltage and other critical parameters against time stamp. This can be viewed over LAN on any computer.

**150kHz
6,7 ums**

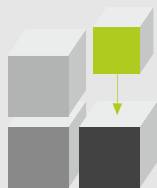
Extremely fast switching, ensures quick response time & repeated quality



LCD Screen Display

**Duty Cycle
100%**

100% @ 40°C ensures non-stop welding



Modular Architecture Max. Up time.

2000A

Option of increasing current by parallel connecting power modules upto 2000A

Digital

Full digital control of all welding parameters

Constant Current Output Provided

The output of sigmaweld welding inverters are constant even if there is a power fluctuation in the mains of upto $\pm 20\%$. The power source equally works well on generator sets with balanced load.

Robust and Versatile

Pro Series TIG welders can weld all kind of Arc welding electrodes, Basic Rutile, Alloys and Cellulosic with ease. Special Settings available starting current, Hot start, etc., Modes available for Carbon Arc Gouging as well. In GTAW one can weld with HF Initiation or weld in Lift Arc mode. Intensity of HF can be adjusted in case of longer torches to ensure smooth starting each time. Special modes for SPOT welding and Liner tacking.

Remote Control

Can be interfaced with multiple options, potential meter type remotes, Foot Control with current variations, Torches with One, Two, Three Switches, etc., The Pro Series adapts easily to every welders need.

Smart Interlocks

a. The **Water Cooling Unit** has smart sensors to keep a check on *water flow, Pressure, Temperature, etc.*, The cooling unit can work in Auto mode for *ON DEMAND* work loads, or continuous ON/OFF options, Light Indicators for healthy, Idle or Error Modes.

b. By choosing the **Tungsten Size**, current range is automatically limited to avoid melting of tungsten due incorrect current settings.

c. The optional **WELD WEB** allows welding data to be collected wirelessly and can be accessed from any PC, Notebook or Tablet.

d. **Pulse on Demand:** Welder can swap between two current setting during welding as and when he wants. This is possible with the new 4T control mode.

Specifications

Current Source	TIG 400 P DC	TIG 500 P DC
Welding current adjustment range, A	400	3-500
Current strength at 100% Duty cycle(40° C), A	400	500
Supply mains voltage, V	400(± 25%)	400(± 25%)
Main frequency in the network, Hz	50/60	50/60
Safety circuit breaker, A	3x40	3x60
Consumed current, A	22	31
Max. power consumption, kW	11.7	16.5
Efficiency,%	96	96
Open Circuit voltage, V	93	93
Welding machine dimensions (LxWxH), mm	740x300x460	740x300x660
Weight of the welding machine, kg	42.5	60.0
Protection class	IP 34	IP 34
Insulation class	H	H

WATER COOLING UNIT



Technical Specifications	
Voltage	400V± 25%
Frequency	50/60Hz
Input Power	0.3kW
Flow	10 L / min
Cooling Capacity	2kW
Pressure	3.2 Bar Max.
Tank Size	10L
Dimension	198 X 299 X 289 mm
Weight	21 Kg