

Sigma Weld - Hot Wire TIG

Digital Welding Inverters



Sigmaweld series welding machines are sophisticated IGBT based inverters with total digital control having wide current range. Sigmaweld is designed to meet varied requirement of the welding industry covering manual arc Welding, TIG welding, high frequency TIG welding, pulse TIG welding. Advanced micro controller technology enables Sigmaweld to have upslope downslope and plusing even without the use of high frequency.

Significant energy saving vis-à-vis traditional welding equipments for all applications.

Features:

Hot Wire TIG helps pre heat the filler wire before entering the weld pool. This helps in increasing the deposition rate.

Constant Current Output Provided

The output of Sigmaweld welding inverters are constant even if there is a power fluctuation in the mains of upto $\pm 15\%$. The power source works equally well with generator sets with balanced load. The output current does not drop even at 100 meters of copper cable length.

Protection, Safety Features & Parameter

1) Thermal shutdown	In built (over temperature Indication)
2) Over current	In built (Phase failure Indication/MOV)
3) IGBT Peak current	In built
4) Energy saving	In built
5) Cooling type	Forced Air cooling
6) Digital Ammeter	In built

Specification :

Rated Input Voltage	1Ø, 220 V, $\pm 15\%$, 50 Hz
Power (KVA)@ 100%	2KVA
Open Circuit Voltage	60V
Output Range	5 - 80Amps

Protections and Safety

Sigmaweld welding inverters are designed for safety of both operator and machines. It has inbuilt protections for over voltage, undervoltage, output short, thermal overload and IGBT peak current locking. This ensures longer life of equipment and our inbuilt voltage reduction circuit which ensures OCV as low as 24 volts or below when not welding keeps operators safe.

Cold Wire Feeder

SIGMA WELD AUTOMATION ACCESSORIES

The cold wire TIG system feeds welding filler material at desired speed with continuous or pulsed feeding and helps increase in productivity of welder, reduces stoppage, grinding needs and welder fatigue.



Specification	
Supply Voltage	1Ø, 230V AC 50 Hz
Weight	17kg
Filler wire spool size	D 300
Filler wire size	0.8,1.2, 1.6mm
Wire feed speed Range	0-1500mm/min
Feed time	Variable
Dwell time(pulsed mode)	Variable
Delay start time	Variable
Wire retract time	Variable



Semi automatic :
Can be used with any
TIG Machine for
Manual welding.



Fully automatic :
Can be integrated
with any automation
system.

Advantages of Cold Wire Feeder

- Portable
- Ease of use
- Smooth and Continuous Welding
- Negligible Stub end loss
- Reduced Number of Start / Stop
- Gas Consumption due to Pre-Flow / Post Flow reduced as lesser number of Start / Stop required
- Increased Speed of Welding
- Grinding Work due overlapping reduced
- Precise control from low to high speed
- Can be interfaced with any machine
- Wire Start Delay Facility
- Wire Retract Delay Facility
- Pulse Wire feeding Facility
- Wire Retract Provision
- Automates adding filler metal in TIG welding
- Dual groove drive roll system accepts multiple wire size
- Results are consistent and high quality welds
- High welding skill not required

