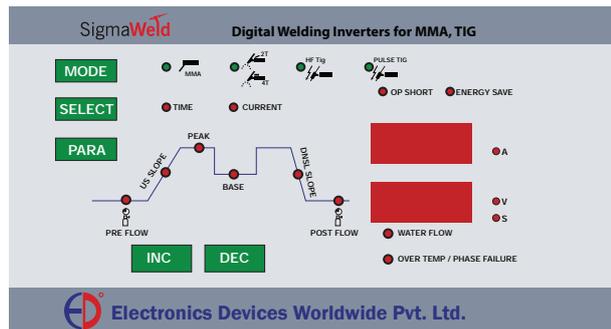
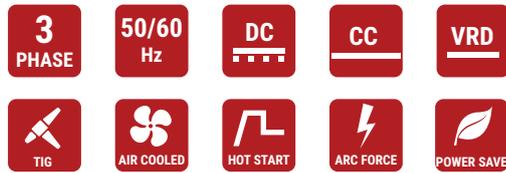




SIGMAWELD ALEX



FEATURES

- Constant current output
- The user-friendly panel contains quick current and arc force adjustment
- Saves power, if the welder is not welding more than 2 min.
- Microprocessor based fine control on current & voltage.
- Smart water cooling interlocking, Waterflow when the temperature certain limit.
- If the operator pushes the torch switch but does not start welding, the gas solenoid valve is switched off within 10 sec.
- Aluminum extruded body.
- Water-cooled welding machine with 100% duty cycle at 40°C
- ALEX can be easily interfaced with Robots, Welding SPM and other systems.

BENEFITS

- 100% indigenously made in India even PCB and control panel made by us.
- 24 hrs sales and service support in all over India.
- Lifetime on-demand service and spare parts supply.
- Multilayered PCB protection to ensure longer life & easy repair
- 1-year onsite warranty in all over India. Extended warranty and AMC facility available at nominal charges.

OPTIONAL ACCESSORIES

STANDARD ACCESSORIES



TIG Torch



Regulator flowmeter & Gas hose



Earthing Clamp



Data Monitoring System



Cold Wire Feeder(CWF)



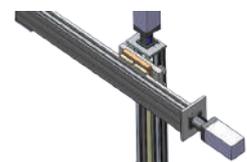
Hot Wire TIG(HWT)



PLC interconnection card



Torch with Feeding Pen



AVC Slide

Recommended Base Metal

Stainless Steel, Mild Steel, Carbon Steel, Copper, Brass and Titanium.

Recommended Wires

CS, SS, Cu, Ni, Ti

SIGMAWELD ALEX 400/600 PT

SPECIFICATION	SW 400 HF/PT	SW 600 HF/PT
Technology	Microprocessor based IGBT Inverter	Microprocessor based IGBT Inverter
INPUT		
Rated Input Supply	3 phase 415V,±15% 50 Hz	3 phase 415V,±15% 50 Hz
OUTPUT		
Rated Output Current	400 A	600 A
Open Circuit Voltage	65 V	65 V
Current Adjustable Range	8-400 A	8-600 A
Input Power KVA @100 %	10 KVA	18 KVA
Efficiency	90%	90%
100% duty cycle at 60°C	400A	600 A
Dimensions (LxWxH)	650x360x560mm	655x380x650mm
Weight	45kg	65kg

PROTECTION & SAFETY FEATURES		PARAMETER	MIN	MAX
Insulation Class	H	Gas Pre Flow	0.1 sec	10 sec
Protection Class	IP 23	Gas Post Flow Time	0.1 sec	10 sec
Thermal Shutdown	In-built(Over Temp)	Peak Current Time	0.1 sec	10 sec
Under Voltage	In-built(Phase Failure)	Base Current Time	0.1 sec	10 sec
Over Voltage	In-built(Phase Failure)	Hot Start Current	30% @ 300ms	
IGBT Peak Current	In-built	Digital Ammeter and Voltmeter	In-built	
VRD, Energy Saving	In-built	Welding Mode	2T/4T	
Cooling Type	Forced air Cooling	Process Memory Recall	In-built	
ARC Force Control	Adjustable	Output Short	In-built(Output short)	

WATER COOLING UNIT	
Water Tank Capacity (l)	12
MOC	SS
Rated Input Power (kW)	0.35
Water Flow Rate	5litre/min
Pressure	1.2 bar
Dimensions (LxWxH)	770x300x450mm
Weight (Without coolant)	41kg



SIGMAWELD COLD WIRE FEEDER



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.

BENEFITS

- Automates adding filler metal in TIG welding.
- Dual groove drive roll system accepts multiple wire size.
- Eliminates TIG rod stub loss.
- Cabinete keep filler wire clean.
- Makes fully automatic TIG welding possible.
- Results are consistent and high quality welds.



SPECIFICATION	CWF	DIGITAL CWF	AUTO CWF
Display	Analogue	Digital	Digital
Input Supply	230 V, ±15% AC, 50 Hz	230 V, ±15% AC, 50 Hz	230 V, ±15% AC, 50 Hz
Power KVA @100 %	16.5 KVA	45 KVA	45 KVA
Control Method	PLC	PLC	PLC
Motor Type	Stepper	Stepper	Stepper
Drive	Dual Groove Roller	Dual Groove Roller	Dual Groove Roller
Wire feed Speed Range	0-1.5 m/min	0-1.5 m/min	0-1.5 m/min
Filler Wire Spool Size	D300	D300	D300
Filler Wire Size	0.8, 1.2 & 1.6 mm	0.8, 1.2 & 1.6 mm	0.8, 1.2 & 1.6 mm
Feed Time	Variable	Variable	Variable
Dwell (Pulse) Time	Variable	Variable	Variable
Delay Start Time	Variable	Variable	Variable
Wire Retarct Time	Variable	Variable	Variable
Liner	Teflon or Spring steel	Teflon or Spring steel	Teflon or Spring steel
spool (Open/ closed)	Closed	Closed	Open
Dimensions (LxWxH)	580x270x450mm	580x270x450mm	580x270x450mm
Weight	17 kg	17 kg	17 kg



Wire Feeding Pen



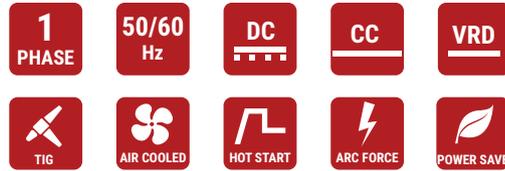
Teflon Liner



TIG Torch with Feeding Unit
(Optional Accessory)



SIGMAWELD HOT WIRE TIG



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

BENEFITS

- Automatic adding filler metal in TIG Welding.
- All weld parameters can be duplicated.
- Dual Groove Drive Roll system accepts multiple wire sizes.
- Eliminates TIG rod stub end loss.

- Cabinet keeps filler wire clean.
- Makes fully automatic machine TIG welding possible.
- Results are consistent and high quality welds
- 100% Indigenously Made In India

Recommended Application

Semi-Automatic: Can be used with any TIG machine for manual welding.

Fully Automatic: Can be integrated with any automation system.

Recommended Base Metal

Mild Steel Carbon Steel, Stainless Steel, Cast Iron, Copper, Brass and Aluminium.

Recommended Wires

MS, MS - FCW, SUS-FCW, AL, Cu, Ni.

SPECIFICATION

Display	Digital	Wire feed Speed Range	In-built
Input Supply	230 V, ±15% AC, 50 Hz	Thermal Shutdown & Over Current	In-built
Power KVA @100 %	2 KVA	Energy Saving/ IGBT Peak current	In-built
Output Current Range	5-80 A	Cooling type	Forced Air Cooled
Output Current Voltage	60 V	Dimensions (LxWxH)	320x230x430mm
Over Current	In-built	Weight	8.5 kg