MMA

SigmaWeld™
Digital Welding inverters for MMA, TIG, MIG

Brief Specification

Application

INDY 170 MMA

Supply:1Ø ,230 V, ±15%, 50Hz
Duty Cycle:100%@130A

Upto 3.15 mm electrodes
- Training Institutes
- Maintenance
- Light Fabrication
- Site Work
- Construction

INDY 250 MMA

Supply: 3Ø,415 V, ±15%, 50Hz
Duty Cycle: 100%@ 200A

Upto 4.0mm electrodes
- Automobiles
- Light Fabrication
- Furniture
- Control Panel Manufactures

INDY 400 MMA

Supply: 3Ø,415 V, ±15%, 50Hz
Duty Cycle: 100%@ 300A

Upto 5.0mm electrodes
- Automobiles
- Heavy Fabrication
- Structural Boiler
- Pressure Vessels

SW 600 MMA

Supply: 3 Phase 415 V, ±15%
Duty Cycle: 600A @ 60 % (MMA)
400 A @ 100 % (MMA)

Upto 6 mm electrodes
- Steel erection
- Heavy fabrication
- Construction
- Pipe Welding
- Ship Building
- Railway
- Structural Welding

SW 600 MMA-Gouging

Supply: 3 Phase 415 V, ±15%
Duty Cycle: 600 A @ 60 % (MMA)
400 A @ 100 % (MMA)

Upto 9 mm electrodes
- Forging
- Heavy fabrication
- Ship Building
- Structural Welding

SW 800 MMA-Gouging

Supply: 3 Phase 415 V, ±15%
Duty Cycle: 800 A @ 60 % (MMA)
500 A @ 100 % (MMA)

Upto 12 mm electrodes
- Forging
- Heavy fabrication
- Ship Building
- Structural Welding

TIG

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Digital Welding inverters for MMA, TIG, MIG

Brief Specification

Application

SW 170 UD,HF,PW,PT

Supply: 1 Phase 230 V, ±15%
Duty Cycle : 170 A @ 70% (MMA)
130 A @ 100% (MMA)

MMA upto 3.15 mm electrodes
TIG upto 8 mm thick plate
- Training Institutes
- Maintenance
- Process ▪ Piping
- Pharma Machinery mfg.
- Site Work

SW 250 UD, HF, PW, PT

Supply: 3 Phase 415 V, ±15%
Duty Cycle: 250 A @ 80 % (MMA)
200 A @ 100 % (MMA)

MMA upto 4 mm electrodes
TIG upto 15 mm thick plate
- Petrochem fabrication
- Aerospace
- Dairy ▪ Food ▪ Beverage
- Pharma Machinery mfg.
- Site Contractor

SW 400 UD, HF, PW, PT

Supply: 3 Phase 415 V, ±15%
Duty Cycle: 400A @ 60 % (MMA)
300 A@ 100 % (MMA)

MMA upto 5 mm electrodes
TIG upto 25 mm thick plate
- Precision metal fabrication
- Tube & Pipe fabrication
- Boiler ▪ Pressure Vessel

SW 600 UD, HF, PW, PT

Supply: 3 Phase 415 V, ± 15%
Duty Cycle: 600 A @ 40 % (MMA)
350 A @ 100 % (MMA)

MMA upto 6 mm electrodes
TIG upto 25 mm Thick Plate
- Precision metal fabrication
- Tube & Pipe fabrication
- Boiler
- Pressure Vessel

SW 300 AC / DC

Supply: 3 Phase 415 V, ±15%
Duty Cycle: 80 % @ 300 Amps

ALUMINIUM WELDING
TIG upto 25 mm Thick Plate
- Precision metal fabrication
- Tube & Pipe fabrication
- Boiler
- Pressure Vessel

SW 500 AC / DC

Supply:3ϕ,415 V, ±15%, 50Hz
Duty Cycle:60% @ 450 Amps

ALUMINIUM WELDING
TIG upto 40 mm Thick Plate
- Precision metal fabrication
- Tube & Pipe fabrication
- Boiler
- Pressure Vessel

*Optional

WCS

Specifications
- Water cooling unit with water flow switch
- Stainless steel tanks & radiator cooling

Applications

*Can be used with any Sigma Weld TIG or MIG power source.

CWF

Specifications

Supply Voltage:1Ø, 230V AC 50Hz
Wire spool size: 12"(30.3cm)
Wire size: 0.8mm, 1.2mm, 1.6mm

Applications

*Can be used with Sigma Weld TIG and any other power source.

MIG

SigmaWeld™
Digital Welding inverters for MMA, TIG, MIG

Brief Specification

Application

SW 250 MM

Supply: 3 Phase 415 V, ±15%
Duty Cycle : 60%

Upto 0.8 mm solid wire
1.2 Flux Cored
- Metal fabrication
- Light manufacturing
- Automobile Industry

SW 400 MM

Supply: 3 Phase 415 V, ±15%
Duty Cycle : 60%

Upto 1.6 mm
Solid & Flux Cored Wire
- Maintenance
- Heavy Fabrication
- Light manufacturing
- Automobile Industry

SW 600 MM

Supply: 3 Phase 415 V, ±15%
Duty Cycle : 60%

Upto 1.6 mm
Solid & Flux Cored Wire
- Maintenance
- Heavy Fabrication
- Light manufacturing
- Automobile Industry

Enclosed Wirefeeder

Wirefeeder

Sigma Weld Data Monitoring System

Logging Memory capacity : Up to 20 MB
Supply Voltage : 230 V AC
Power consumption : 5W Max.
Communication Port:One serial ports
(Rs 232/Rs 422/Rs 485level supported)
Ethernet Port: for Remote monitoring.
USB host Port: Supports USB memory drive.

- Can log welding voltage, welding current, arcing time for each equipment.
- Data can be collected and analysed in central serve for resource utilization and parameter logging.

Preweld/Postweld heat treatment

Sigma Therm IH

Temperature Range
Induction: 20°C - 760°C
Heating Power 5KW - 40KW
Connection Voltage 3-Phase/50Hz

- Pre weld heating
- Post weld heat treatment

Optional Accessories

Coil
Heating Pad
Temperature Chart Recorder/ Printer
Cerawool Blanket
Thermocouple
Thermocouple Attachment Unit

MIG

SigmaWeld™
Digital Welding inverters for MMA, TIG, MIG

Brief Specification

Application

SW 600 SAW

Supply: 3 Phase 415 V, ±15%
Duty Cycle : 60%

Upto 4 mm
Solid & Flux Cored Wire
- Maintenance
- Heavy Fabrication
- Cladding
- P.E.B

SW 800 SAW

Supply: 3 Phase 415 V, ±15%
Duty Cycle : 60%

Upto 4 mm
Solid & Flux Cored Wire
- Maintenance
- Heavy Fabrication
- Cladding
- P.E.B

SW 1000 SAW

Supply: 3 Phase 415 V, ±15%
Duty Cycle : 60%

Upto 6 mm
Solid & Flux Cored Wire
- Heavy Fabrication
- P.E.B
- Structural Fabrication
- Cladding
- Thermal Spray

SW 600 HFC

Supply: 3 Phase 415 V, ±15%
Duty Cycle : 60%
Flux Core Wire:1.6 to 2.4

Upto 2.4 mm
Flux Cored Wire
- Maintenance
- Heavy Fabrication
- Cladding
- P.E.B

SW 800 HFC

Supply: 3 Phase 415 V, ±15%
Duty Cycle : 60%
Flux Core Wire: 1.6, 2.4 & 2.8

Upto 2.8 mm
Flux Cored Wire
- Maintenance
- Heavy Fabrication
- Cladding
- P.E.B

SW 1000 HFC

Supply: 3 Phase 415 V, ±15%
Duty Cycle : 60%
Flux Core Wire: 2.4 & 2.8

Upto 3.2 mm
Flux Cored Wire
- Heavy Fabrication
- P.E.B
- Structural Fabrication
- Cladding
- Thermal Spray

SAW Trolley

SigmaWeld™
Digital Welding inverters for MMA, TIG, MIG

Sigma Weld Welding Automation & Robotic Integration

AutoTIG/MIG Welding SPM

- Butt joint
- Filler joint
- Cladding - Inner/Outer/Base/Cross bore
- Long seam
- Circular seam

Headstock tailstock gantries

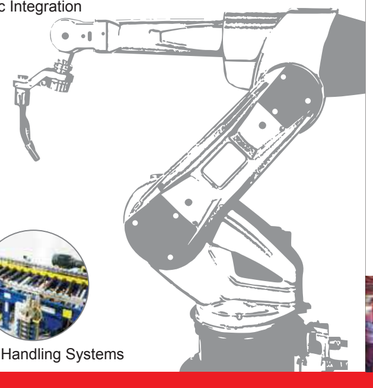
Headstock tailstock manipulators

Positioner with slides

Increase **PRODUCTIVITY,**
Improve **QUALITY,**
Reduce **COST.**

Robotic Integration

Welding SPM



Welding Fixture

Material Handling Systems

WELDING AUTOMATION

Electronics Devices WorldwidePvt.Ltd.
Making things happen

Sigma Therm Induction Heating Solutions
Sigma CapSeal Induction Cap Sealing Solutions
Sigma Weld Digital Welding Inverters for MMA, TIG, MIG

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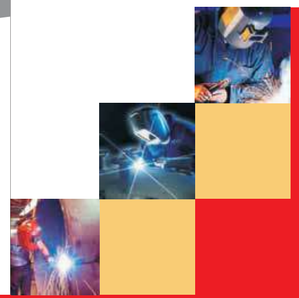
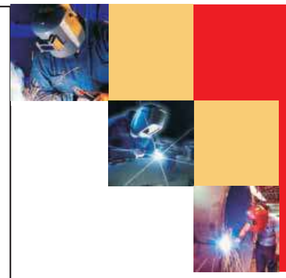
Digital Welding inverters for MMA, TIG, MIG



TAKING WELDING INVERTER TECHNOLOGY TO THE NEXT LEVEL

Electronics Devices WorldwidePvt.Ltd.
Making things happen



Making in India since 1974

Electronics Devices Worldwide Pvt Ltd has been manufacturing indigenous power sources for Di-electric preheating, Induction Heating, Induction Capsealing and Welding applications. We are today catering to the Indian and global markets with products that improve productivity, ensure quality and give trouble free working as per global standards.

Automation

MMA

TIG

MIG

With a ***dedicated team*** for ***Research and Development*** we are continuously developing solutions that ***make things happen*** for all our valued customers. We have CAM, CAD design center for all our Mechanical & Robotics needs. All our PCB's are designed, manufactured and tested in-house. We have our ***sales and after sales service*** and ***PAN India presence***. Get in touch with us today for all your heating, sealing and welding requirements from power sources to complete automation solutions.

Sigma Weld Features:

Energy Efficient: SigmaWeld are sophisticated IGBT based welding inverters which consume 70% less energy compared to conventional transformer system and 40% less energy compared to conventional rectifier systems. The more you use SigmaWeld the faster you recover your investment.

Easier to Learn : Inbuilt features like Anti-Sticking, Adaptive Hot Start and Adaptive Arc Force Control make SigmaWeld Welding inverters most suitable for learners and professional alike. Adaptive features allow the operator to weld with a lot of ease and control.

Easier to Weld: Advance feedback systems allow greater control over the welding current. SigmaWeld Welding inverters are CC (Constant Current) system for MMA and TIG applications and CC/CV (Constant Current/Constant Voltage) for MIG and MAG applications. This allows operators to achieve good quality weld joints with more ease and less skill.

Parameter Locking Remote: With advance micro-controller technology it is possible to lock the Voltage and Current Parameters to desired level by the Supervisor, ensuring complete run at desired WPS parameters without changes by the Operators.

More Welders per DG set: SigmaWeld Welding inverters consume low power, hence almost 40% more equipments can be connected on a DG Set compared to Thyristor / Diode based machines.

Automation Friendly: SigmaWeld Welding inverters can be easily integrated with SPM, Robotics, and automation solutions using digital or analogue interface as required.

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Making things happen

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www.sigmaweld.com