SanRex

Arc Welding Power Supplies & Accessories





Customer Care Tel: 516-625-1313 Fax: 516-625-8845 www.sanrexwelding.com SANREX CORPORATION PORT WASHINGTON, NY, USA

SANSTICK

STICK Arc Welding

SANSTICK 140S

Comes with: 6.5ft. Work and Electrode lead. 120/240 vac adaptor and Carry case.

- STICK (SMAW)
- TIG (GTAW) Lift Start
- Auto Switch Multi-voltage 115/208-230 VAC, single phase
- Preset Hot Start & Arc Force
- **CSA Certification**
- 1 Year Warranty

Machine Specifications

Input Voltage 115/230 VAC 1 Phase

Input Frequency 50/60 Hz

Output range

5 - 140 amps (115V/230V) 140A @ 15% Duty Cycle (115v 1 phase) 140A @ 25% Duty Cycle (230v1 phase) Rated Output

Max OCV

Consumable Size

3/32" - 1/8" STICK electrode 8.6" x 4.7" x 11" (220 x 120 x 280mm) Dimensions (HxWxD)

10 lbs. (4.5 kg) Weight













SANSTICK 160S

Comes with: 6.5ft. Work and Electrode lead, 120/240 vac adaptor and Carry case.



- TIG (GTAW) Lift Start
- Auto Switch Multi-voltage 115/208-230 VAC, single phase
- PFC-Power Factor Correction. Will use less current when operating on 120 VAC.
- Preset Hot Start & Arc Force
- **CSA Certification**
- 3 Year Warranty

Machine Specifications

115/230 VAC 1 Phase Input Voltage Input Frequency 50/60 Hz

Output range 8 - 125 Amps (115V)

10 - 160 Amps (230V) 125A @ 30% Duty Cycle (115v 1 phase) 160A @ 40% Duty Cycle (230v1 phase) Rated Output

Max OCV

3/32" - 5/32" STICK electrode 9" x 5.5" x 14.4" (230 x 140 x 365mm) 17.6 lbs. (8 kg) Consumable Size

Dimensions (HxWxD)

Weight

















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SANARG

TIG Arc Welding

SANARG 160P

- DC TIG (GTAW) Lift & HF Start with Rapid Pulse control.
- DC STICK (SMAW)
- Auto Switch Multi-voltage 115/208-230 VAC, single phase
- Adjustable Hot Start
- Embedded microprocessor with Digital Controls
- Intelligent self diagnostic & heat sensing fan
- Digital Amperage and Voltage Meter
- Job Save & Load to store 5 exact optimized welding programs
- 8 pin Remote amperage and contactor receptacle
- Standards compliant integrated voltage reduction device (VRD)
- Perfectly Smooth, Stable TIG Arc down to 1 Amp.
- 3 year Warranty

Machine Specifications

Input Voltage 115/230 VAC 1 Phase

Input Frequency 50/60 Hz

Output range 1 - 85 Amps (115V)

1 - 160 Amps (230V) 85A @ 100% Duty Cycle (115v 1 phase) 160A @ 35% Duty Cycle (230v1 phase) Rated Output

Max OCV

Consumable Size

3/32" - 5/32" STICK electrode 10.2" x 5.1" x 12.6" (260 x 130 x 320mm) 17.6 lbs. (8 kg) Dimensions (HxWxD)

Weight

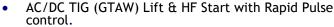








SANARG 180AP



- STICK (SMAW)
- Auto Switch Multi-voltage 115/208-230 VAC, single phase
- PFC—Power Factor Correction. Will use less current when operating on 120 VAC.
- True square wave output with AC Frequency & Balance control
- Pre and Post Flow gas timer.
- Adjustable Hot Start
- Digital Amperage and Voltage Meter
- 8 pin Remote amperage and contactor receptacle
- **CSA Certification**
- 3 Year Warranty

Machine Specifications

Input Voltage 115/230 VAC 1 Phase Input Frequency 50/60 Hz Output range

5 - 140 Amps (115V) 5 - 200 Amps (230V) 140A @ 40% Duty Cycle (115v 1 phase) Rated Output 180A @ 40% Duty Cycle (230v1 phase)

Max OCV













Comes with: 10ft. Work and Electrode lead, 120/240 vac adaptor , 12ft. TIG Torch w/ Remote On/OFF & Current control, Regulator/ Flow gaugew/13ft. Gas Hose.





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SANARG

TIG Arc Welding

SANARG 200AP



- STICK (SMAW)
- Smart Switch Multi-voltage 208-230/460 VAC, single/Three phase
- True square wave output with AC Frequency & Balance control
- Program Save/Load Function
- Pre and Post Flow gas timer.
- Adjustable Hot Start
- Digital Amperage and Voltage Meter
- 14 pin Remote amperage and contactor receptacle
- Simple Automation I/O.
- 3 Year Warranty

Machine Specifications

Input Voltage 208-230/460 VAC 1/3 Phase

Input Frequency 50/60 Hz

Output range 5 - 320 Amps DC / 10- 300 Amps AC Rated Output 200A @ 20% Duty Cycle (STICK/TIG) 160A @ 40% Duty Cycle (STICK/TIG)

Max OCV 65

Dimensions (HxWxD) 14.2" x 7.1" x 16.5" (360 x 180 x 420 mm)

Weight 53 lbs. (24 kg)

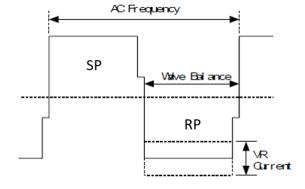


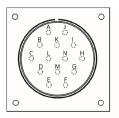




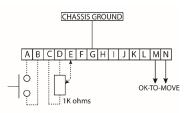












The 200AP AC output uses advanced embedded micro processor technology. This control of the wave form changes the amount of time spent on DCEP (cleaning) and DCEN (penetration) parts of each cycle, increasing arc stability. The DCEP cycle insures that the

(cleaning) and DCEN (penetration) parts of each cycle, increasing arc stability. The DCEP cycle insures that the aluminum oxide is thoroughly removed, allowing the DCEN cycle a thorough penetration of the base metal. Both cycles enhance weld quality and significantly improve performance.

When a conventional system changes its wave balance, there can be as much as a 50% increase in amperage draw. Sanrex® 200AP amperage draw is unaffected by any adjustments. The 200AP increases efficiency and eliminates tungsten spitting and enables the use of a smaller diameter tungsten electrodes to

operate at a higher current levels. Figures 1 & 2 show the difference in TIG torch electrode and heat and cleaning variations.

Simple Automation Interface for Fixed, hard and Robotic automation applications includes Remote Weld ON/OFF, Remote Amperage Control, OK-to-Move Weld Arc ON signals.

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SANARG

TIG Arc Welding

SANARG 300AP

- AC/DC TIG (GTAW) Lift & HF Start with Rapid Pulse control.
- STICK (SMAW)
- Smart Switch Multi-voltage 208-230/460 VAC, single/Three phase
- True square wave output with AC Frequency & Balance control
- Program Save/Load Function
- · Pre and Post Flow gas timer.
- Adjustable Hot Start
- Digital Amperage and Voltage Meter
- 14 pin Remote amperage and contactor receptacle
- Simple Automation I/O.
- 3 Year Warranty

Machine Specifications

Input Voltage 208-230/460 VAC 1/3 Phase

Input Frequency 50/60 Hz

Output range 5 - 300 Amps DC / 10- 300 Amps AC Rated Output 300A @ 25% Duty Cycle (STICK/TIG) 250A @ 40% Duty Cycle (STICK/TIG)

Max OCV 65

Dimensions (HxWxD) 16.5" x 8.3" x 17.7" (420 x 210 x 450mm)

Weight 53 lbs. (24 kg)



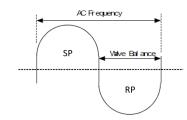




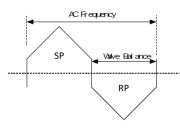


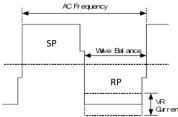


AC Soft



Triangle Wave





AC Soft includes all the benefits of AC square wave with the addition of maximum puddle control and good wetting action of the weld puddle which helps to overcome surface tension.

Triangle Wave provides the punch of the peak amperage, while reducing overall heat input. Fast puddle formation increases travel speed, limiting heat input and reducing weld distortion, especially on thin materials.

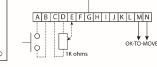
VR Current (Variable of Reverse Polarity Current) is the independent adjustment of the RP Current half cycle of the AC wave to precisely control the heat input to the work and the electrode.

The SP amperage controls the amount of heat directed to the work, while the RP amperage effects the arc cleaning action.

VR Current along with AC Wave Balance dramatically effects the RP cleaning action. Reducing VR Current will reduce the heat input to the TIG Torch and reduce electrode geometry degradation and increases heat input to the work piece for increased travel speeds. Increasing VR Current will enhance cleaning when welding on a dirty work piece.

Simple Automation Interface for Fixed, hard and Robotic automation applications includes Remote Weld ON/OFF, Remote Amperage Control, OK-to-Move Weld Arc ON signals.





CHASSIS GROUND

Front view of 14-Pin Socket Receptacle

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SANMIG

Multi-Process Arc Welding

SANMIG 200MF















Full Multi-Process DC MIG/ L-TIG / STICK

- Built-in Wire feeder
- Synergic Simple Setup
- Auto Switch Multi-voltage 115/208-230 VAC, single phase
- PFC-Power Factor Correction. Will use less current when operating on 120 VAC.
- Adjustable Inductance & Hot Start
- Digital Amperage and Voltage Meter
- Remote receptacle for Spool Gun
- **CSA Certification**
- 3 Year Warranty

Machine Specifications

Input Voltage 115/230 VAC 1 Phase

Input Frequency 50/60 Hz

5 - 140 amps (115V), 5 - 200 amps (230V) 10 - 26 volts (115/230V) 0.030 - 0.035 dia. (.8 - .9 mm) Wire Output range

7 - 425 IPM Wire Feed Speed 140A @ 35% Duty Cycle (115 1 phase) 200A @ 25% Duty Cycle (230 1 phase) Rated Output

Max OCV 65 Material Thickness

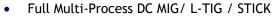
10.2"x5.1"x12.6" (260x130x320mm) Dimensions (HxWxD)

39.2 lbs. (17.8 kg) Weight

Comes with: 10ft. Work and Electrode lead, 120/240 vac adaptor , 12ft. Mig Gun, Regulator/Flow gauge w/13ft. Gas Hose.



SANMIG 250MF



- Built-in Wire feeder
- Synergic Simple Setup
- Auto Switch Multi-voltage 115/208-230 VAC, single phase
- PFC-Power Factor Correction. Will use less current when operating on 120 VAC.
- Adjustable Inductance & Hot Start
- Digital Amperage and Voltage Meter
- Remote receptacle for Spool Gun
- **CSA Certification**
- 3 Year Warranty

Machine Specifications

Input Voltage 115/230 VAC 1 Phase

Input Frequency 50/60 Hz

Output range

5 - 140 amps (115V), 5 - 250 amps (230V) 10 - 26 volts (115/230V) 0.030, 0.035, 0.045" dia. (.8, .9. 1.2 mm) Wire 7 - 425 IPM Wire Feed Speed

140A @ 100% Duty Cycle (115 1 phase) 250A @ 25% Duty Cycle (230 1 phase) Rated Output

Max OCV Material Thickness

10.2"x5.1"x12.6" (260x130x320mm) Dimensions (HxWxD)

Weight 48.5 lbs. (22 kg)















Comes with: 10ft. Work and Electrode lead, 120/240 vac adaptor , 15ft. Mig Gun w/remote control, Regulator/Flow gauge w/13ft. Gas Hose.





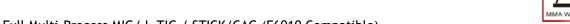
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SANMIG

Multi-Process Arc Welding

SANMIG 400M/MP



- Full Multi-Process MIG/ L-TIG / STICK/CAG (E6010 Compatible)
- Standards compliant integrated voltage reduction device (VRD)
- 14 Pin Receptacle
- Simple Automation I/O.
- Smart Switch Multi-voltage 208-230/460 VAC, single/three phase
- Adjustable Inductance
- Adjustable Arc Control
- Adjustable Hot Start
- Digital Amperage and Voltage Meter
- Job Save/Load
- 3 Year Warranty

Machine Specifications

Input Voltage 208-230/460 VAC 1/3 Phase

Input Frequency 50/60 Hz Output range 5 - 400 Amps

10 - 36 volts (115/230V) Rated Output 300A @ 60% Duty Cycle 400A @ 25% Duty Cycle

Max OCV 65

Dimensions (HxWxD) 16.5"x8.3"x17.7" (420x210x450mm)

Weight 55.6 lbs. (25.22 kg)





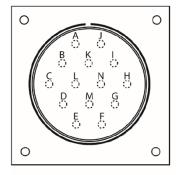




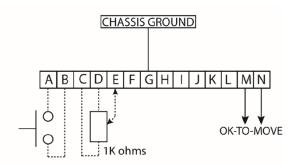
SANMIG 400M/MP

Simple interface included in the 400M and 400MP for Fixed, hard and Robotic automation applications

- Arc ON/OFF Pins A & B.
- Remote Ampergae/Voltage Pins C,D,E.
- OK-to-Move Pins M & N.



Front view of 14-Pin Socket Receptacle





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SANFEED

Wire Feeder

SANFEED Sky 4

- **EURO Gun Connection**
- Digital Meters (Voltage and Amperage
- Remote Voltage Control
- Heavy Duty 4 Roll System
- Inch/Purge
- Gun Trigger Hold (2T/4T)
- Electronic Speed Control & Dynamic Breaking
- Welding Wire Spool Cover
- Coax Interface Cable
- 14 Pin Connection
- 3 Year Warranty

Machine Specifications

Input Voltage Input Frequency 24 VAC Single Phase 50/60 Hz

Output range

58 - 850 IPM (1.5 - 22 m/min) 0.024" - 5/64" (0.6 - 2.0mm) Solid or Flux Cored.

Rated Output Max OCV 500A @ 100% Duty Cycle

13.38"x12.60"x21.65" (340x320x550mm) Dimensions (HxWxD)

35.27 lbs. (16 kg) Weight





Includes Gas Hose, Power and control cables

SANFEED Sky 4HD

- TWECO® Gun Connection
- Digital Meters (Voltage and Amperage
- Remote Voltage Control
- Heavy Duty 4 Driven Roll System
- Inch/Purge
- Gun Trigger Hold (2T/4T)
- Electronic Speed Control & Dynamic Breaking
- Welding Wire Spool Cover
- Coax Interface Cable
- 14 Pin Connection
- 3 Year Warranty

Machine Specifications

Input Voltage Input Frequency 24 VAC Single Phase 50/60 Hz

Output range

58 - 850 IPM (1.5 - 22 m/min) 0.024" - 5/64" (0.6 - 2.0mm) Solid or Flux Cored.

Rated Output Max OCV 500A @ 100% Duty Cycle

13.38"x12.60"x21.65" (340x320x550mm) Dimensions (HxWxD)

Weight 35.27 lbs. (16 kg)





Includes Gas Hose, Power and control cables



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SANFEED

Wire Feeder

SANFEED Field 4HD

- **Voltage Sensing**
- TWECO® Gun Connection
- Heavy Duty Plastic Case
- Digital Meters (Voltage and Amperage)
- Heavy Duty 4 driven Roll System
- Inch/Purge
- Gun Trigger Hold (2T/4T)
- Electronic Speed Control & Dynamic Breaking.
- **Heavy Duty Contactor**
- 3 Year Warranty

Machine Specifications Input Voltage

15 - 100 VDC

Output range

58 - 850 IPM (1.5 - 22 m/min) 0.024" - 5/64" (0.6 - 2.0mm) Solid or Flux Cored. 400A @ 100% Duty Cycle 13.38"x12.60"x21.65" (340x320x550mm) 35.27 lbs. (16 kg)

Rated Output

Dimensions (HxWxD)

Weight





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SANPAW

Plasma Arc Welding

SANPAW 150PW

The Alternative to TIG and Laser Automation

- Plasma Welding Melt-in Fusion & Key Hole process.
- Simple to Setup A self contained unit, which requires attaching input power, Gases, then mounting the torch.
- Cost Savings: Price competitively with automated TIG systems.
- Easy to use: Simple interface for automated or manual control.
- Repeatable Arc Starting: Pilot arc allows for repeatable arc starts, reducing defects and rework.
- Ultra Smooth DC Arc: For repetitive TIG quality welds.
- Digital Meters: Weld Current and adjustable controls.
- Job Save Load: Allow operator to store up to 9 exact optimized welding parameters then digitally recall them with perfect repeatability.
- 3 Year Warranty



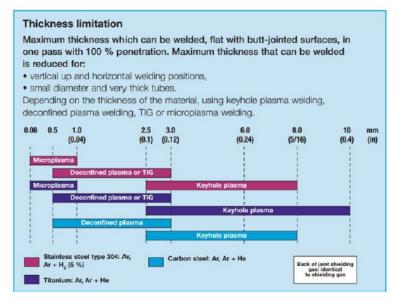
Input Voltage 208-230/460 Three Phase Input Frequency 50/60Hz 5 - 200 Amps Output range 200A @ 35% Duty Cycle Up to 3/16" Ferrious Metals 26.77"x9.84"x23.63" (680x250x600mm) Rated Output Material Thickness Dimensions (HxWxD)

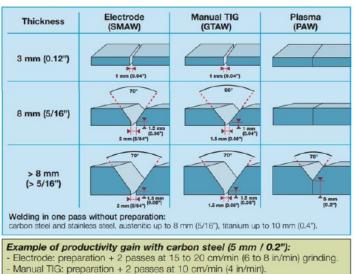
Weight 79.4 lbs. (36 kg)



WHY PLASMA WELDING?

Plasma arc welding is measurably the lower cost process with savings gained through increased productivity, reduced scrap, reduced downtime and fewer electrode changes.







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Keyhole plasma: 1 pass at 40 cm/min (15 in/min).

SANPAW

Plasma Arc Welding

SANPAW 300PW

The Alternative to TIG and Laser Automation

- Plasma Welding Melt-in Fusion & Key Hole process.
- Simple to Setup A self contained unit, which requires attaching input power, Coolant recirculator and gases, then mounting the torch.
- Cost Savings: Price competitively with automated TIG systems.
- Easy to use: Simple interface for automated or manual control.
- Repeatable Arc Starting: Pilot arc allows for repeatable arc starts, reducing defects and rework.
- Ultra Smooth DC Arc: For repetitive TIG quality welds.
- Digital Meters: Weld Current and adjustable controls.
- Job Save Load: Allow operator to store up to 30 exact optimized welding parameters then digitally recall them with perfect repeatability.
- 3 Year Warranty

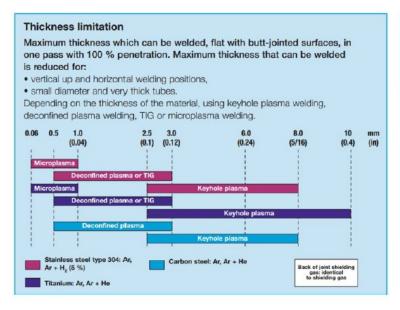


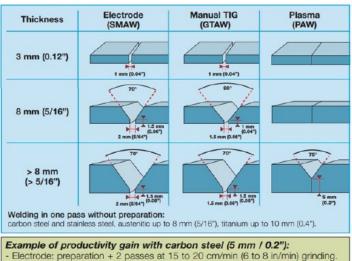
Input Voltage 208-230/460 Three Phase Input Frequency 50/60Hz
Output range 5 - 300 Amps
Rated Output 300A @ 60% Duty Cycle
Material Thickness Dimensions (HxWxD) 25.59"x15.75"x23.62" (650x400x600mm)
Weight 131 lbs. (59.4 kg)



WHY PLASMA WELDING?

Plasma arc welding is measurably the lower cost process with savings gained through increased productivity, reduced scrap, reduced downtime and fewer electrode changes.







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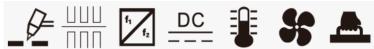
Manual TIG: preparation + 2 passes at 10 cm/min (4 in/min).

Keyhole plasma: 1 pass at 40 cm/min (15 in/min).

SANGUT

Plasma Cutting

SANCUT 638



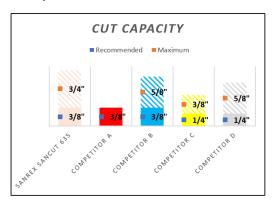








- **Cut Capacity:**
 - Recommended 1/4" (6.3mm) 120 vac, 3/8" (9.5mm) 240 vac.
 - Maximum 1/2" (12.7 mm) 120 vac, 3/4" (19mm) 240 vac.
 - Pierce 1/4" (6.3mm) 120 vac, 3/8" (9.5mm) 240 vac.
- 120/240 vac Dingle Phase
- 20ft. Torch
- Auto Air Regulator
- **CSA Certified**
- 3 Year Warranty





Ordering Information

Product	Part Number	Description
SANSTICK 140S	IDU-W140S-U1DV	DC STICK Power Supply with STICK Package and Carry Case.
SANSTICK 160S	IDU-W160S-U1DVP	DC STICK Power Supply with STICK Package and Carry Case.
SANARG 160P	ID-1600TP-U1E	DC TIG Power Supply Only.
SANARG 180AP	IAU-W180AP-U1DVP	AC/DC TIG Power Supply with TIG and STICK Package.
SANARG 200AP	IA-2000TP-U2E	AC/DC TIG Power Supply Only.
SANARG 300AP	IA-3000TP-U2E	AC/DC TIG Power Supply Only.
SANMIG 200MF	IAU-W200MF-U1DV	DC Multi-process Power supply with MIG and STICK Package.
SANMIG 250MF	IAU-W250MF-U1DV	DC Multi-process Power supply with MIG and STICK Package.
SANMIG 400M	ID-4000C-U1E	DC Multi-process power supply Only.
SANMIG 400MP	ID-4000CP-U1E	DC Multi-process w/MIG Pulse power supply only.
SANPAW 150PW	IDU-W150PW-U1DVP	150PW Plasma Aec Welder only.
SANPAW 300PW	ID-3000PW-U1E	300PW Plasma Arc Welder only.
SANFEED Sky 4	WF-1100	Sky 4 Wire Feeder only. Setup for 0.035 & 0.045 solid wire.
SANFEED Sky 4HD	WF-1300	Sky 4HD Wire Feeder only. Setup for 0.035 & 0.045 Solid wire.
SANFEED Field 4HD	WF1200	Field 4HD Wire Feeder only. Setup for 0.035 & 0.045 Solid wire.
SANCUT 638	IDU-W638PC-U1DV	SANCUT 638 with 20ft. Torch.

See Product Brochures for details and accessories.



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