

SanRex

Arc Welding Power Supplies & Accessories

Catalog
First Edition



SanRex

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PORT WASHINGTON, NY, USA

Form No.:030320CAT

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)
Rated Output	140A @ 15% Duty Cycle (115v 1 phase) 140A @ 25% Duty Cycle (230v1 phase)
Max OCV	65
Consumable Size	3/32" - 1/8" STICK electrode
Dimensions (HxWxD)	8.6" x 4.7" x 11" (220 x 120 x 280mm)
Weight	10 lbs. (4.5 kg)



SANSTICK 160S

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

- STICK (SMAW) (E6010 Performance)
- TIG (GTAW) Lift Start
- Auto Switch - Multi-voltage 115/208-230 VAC, single phase
- PFC—Power Factor Correction. Easy operation on a 120 VAC, 20 Amp Circuit Breaker.
- Preset Hot Start & Arc Force
- CSA Certification
- 3 Year Warranty

Machine Specifications

Input Voltage	115/230 VAC 1 Phase
Input Frequency	50/60 Hz
Output range	8 - 125 Amps (115V) 10 - 160 Amps (230V)
Rated Output	125A @ 30% Duty Cycle (115v 1 phase) 160A @ 40% Duty Cycle (230v1 phase)
Max OCV	65
Consumable Size	3/32" - 5/32" STICK electrode
Dimensions (HxWxD)	9" x 5.5" x 14.4" (230 x 140 x 365mm)
Weight	17.6 lbs. (8 kg)



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)
Rated Output	85A @ 100% Duty Cycle (115v 1 phase) 160A @ 35% Duty Cycle (230v1 phase)
Max OCV	65
Consumable Size	3/32" - 5/32" STICK electrode
Dimensions (HxWxD)	10.2" x 5.1" x 12.6" (260 x 130 x 320mm)
Weight	17.6 lbs. (8 kg)



SANARG 180AP



- AC/DC TIG (GTAW) Lift & HF Start with Rapid Pulse control.
- STICK (SMAW)
- Auto Switch - Multi-voltage 115/208-230 VAC, single phase
- PFC—Power Factor Correction. Easy operation on a 120 VAC, 20 Amp Circuit Breaker.
- 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)
Rated Output	140A @ 40% Duty Cycle (115v 1 phase) 180A @ 40% Duty Cycle (230v1 phase)
Max OCV	65

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



SANARG 200AP



- 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
- 3 Year Warranty

Machine Specifications

Input Voltage	208-230/460 VAC 1/3 Phase
Input Frequency	50/60 Hz
Output range	5 - 200 Amps DC / 10- 200 Amps AC
Rated Output	200A @ 20% Duty Cycle (TIG) 160A @ 40% Duty Cycle (STICK)
Max OCV	65
Dimensions (HxWxD)	14.2" x 7.1" x 16.5" (360 x 180 x 420mm)
Weight	37.8 lbs. (17 kg)



SANARG 300AP



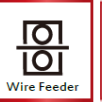
- AC/DC TIG (GTAW) Lift & HF Start with Rapid Pulse control.
- STICK (SMAW)
- Smart Switch - Multi-voltage 208-230/460 VAC, single/Three phase
- True square wave output with AC Frequency & Balance control
- Program Save/Load Function
- Pre and Post Flow gas timer.
- Adjustable Hot Start
- Digital Amperage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



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. Easy operation on a 120 VAC, 20 Amp Circuit Breaker.
- Adjustable Inductance & Hot Start
- Digital Amperage and Voltage Meter
- Remote receptacle for Spool Gun
- CSA Certification
- 3 Year Warranty

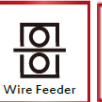
Comes with: 10ft. Work and Electrode lead, 120/240 vac adaptor, 10ft. Mig Gun, Regulator/Flow gauge w/13ft. Gas Hose.

Machine Specifications

Input Voltage	115/230 VAC 1 Phase
Input Frequency	50/60 Hz
Output range	5 - 140 amps (115V), 5 - 200 amps (230V) 10 - 26 volts (115/230V) 0.030 - 0.035 dia. (.8 - .9 mm) Wire 7 - 425 IPM Wire Feed Speed
Rated Output	140A @ 35% Duty Cycle (115 1 phase) 200A @ 25% Duty Cycle (230 1 phase)
Max OCV	65
Material Thickness	1/4"
Dimensions (HxWxD)	10.2"x5.1"x12.6" (260x130x320mm)
Weight	39.2 lbs. (17.8 kg)



SANMIG 250MF



- 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. Easy operation on a 120 VAC, 20 Amp Circuit Breaker.
- Adjustable Inductance & Hot Start
- Digital Amperage and Voltage Meter
- Remote receptacle for Spool Gun
- CSA Certification
- 3 Year Warranty

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

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
Rated Output	140A @ 100% Duty Cycle (115 1 phase) 250A @ 25% Duty Cycle (230 1 phase)
Max OCV	65
Material Thickness	3/8"
Dimensions (HxWxD)	10.2"x5.1"x12.6" (260x130x320mm)
Weight	48.5 lbs. (22 kg)



SANMIG 400M

- Full Multi-Process MIG/ L-TIG / STICK (E6010 Compatible)
- Standards compliant integrated voltage reduction device (VRD)
- 14 Pin Receptacle
- 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 400MP

- Full Multi-Process MIG/Pulse-MIG/L-TIG/STICK (E6010 Compatible)
- Standards compliant integrated voltage reduction device (VRD)
- 14 Pin Receptacle
- 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)



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	24 VAC Single Phase
Input Frequency	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	500A @ 100% Duty Cycle
Max OCV	65
Dimensions (HxWxD)	13.38"x12.60"x21.65" (340x320x550mm)
Weight	35.27 lbs. (16 kg)



Coaxial Cable
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	24 VAC Single Phase
Input Frequency	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	500A @ 100% Duty Cycle
Max OCV	65
Dimensions (HxWxD)	13.38"x12.60"x21.65" (340x320x550mm)
Weight	35.27 lbs. (16 kg)



Coaxial Cable
Includes Gas Hose, Power and control cables

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.
Rated Output	400A @ 100% Duty Cycle
Dimensions (HxWxD)	13.38"x12.60"x21.65" (340x320x550mm)
Weight	35.27 lbs. (16 kg)



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

Machine Specifications

Input Voltage	208-230/460 Three Phase
Input Frequency	50/60Hz
Output range	5 - 300 Amps
Rated Output	300A @ 60% Duty Cycle
Material Thickness	Up to 5/16" Ferrous Metals
Dimensions (HxWxD)	25.59"x15.75"x23.62" (650x400x600mm)
Weight	131 lbs. (59.4 kg)



WHY PLASMA WELDING?

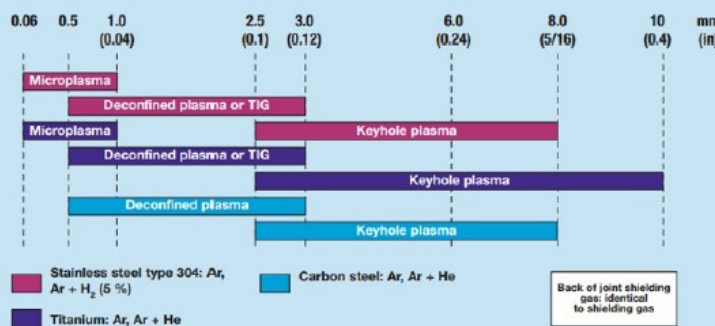
Plasma arc welding is measurably the lower cost process with savings gained through increased productivity, reduced scrap, reduced downtime and fewer electrode changes.

Thickness limitation

Maximum thickness which can be welded, flat with butt-jointed surfaces, in one pass with 100 % penetration. Maximum thickness that can be welded is reduced for:

- vertical up and horizontal welding positions,
- small diameter and very thick tubes.

Depending on the thickness of the material, using keyhole plasma welding, deconfined plasma welding, TIG or microplasma welding.



Thickness	Electrode (SMAW)	Manual TIG (GTAW)	Plasma (PAW)
3 mm (0.12")			
8 mm (5/16")			
> 8 mm (> 5/16")			

Welding in one pass without preparation:

carbon steel and stainless steel, austenitic up to 8 mm (5/16"), titanium up to 10 mm (0.4").

Example of productivity gain with carbon steel (5 mm / 0.2"):

- Electrode: preparation + 2 passes at 15 to 20 cm/min (6 to 8 in/min) grinding.
- Manual TIG: preparation + 2 passes at 10 cm/min (4 in/min).
- Keyhole plasma: 1 pass at 40 cm/min (15 in/min).

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 300PW	ID-3000PW-U1E	300PW Plasma Arc Welder only. (See 300PW Brochure for Recirculator and torches.)
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.

See Product Brochures for details and accessories.