

PRO-TEC® 160 S

Portable DC Stick/TIG Welding System

A complete, portable, multi process (Stick/Lift TIG), multi input voltage (120/208-240V), welding system with up to 160 amps of welding power and 40% duty cycle. Providing excellent industrial grade performance on a wide variety of materials from chrome-moly and steel tubing to general mild and stainless steels. Delivering a superior smooth and stable arc characteristic down to 10 amps for the thinnest of materials. Lightweight and portable yet designed to handle the toughest jobs.

- **Complete, Optimized Stick or Lift TIG System** supplied in a protective case with all accessories ready to start welding
- **Multi-Voltage Versatility**, with 120 to 240V mains or generator input, this system is usable virtually anywhere
- **High Output & Duty Cycle**, with 160 amps output this system is designed and built for heavy duty use and has a 40% duty cycle
- **Highly Portable** with shoulder/hand carrying strap that allows the user easy carrying between locations
- **Flexible**, with IP23S Protection this system is suitable for both indoor and outdoor use and is suitable for welding a wide range of metals in many different applications



- **Exceptional arc start / run performance** even on E6010 electrodes
- **Optimized Arc** that delivers a smooth stable welding characteristic with a wide range of electrodes
- **Thermal Overload Protection** that will protect the internal electrical components from overheating if the duty cycle is exceeded



QUICK SPECS	
PROCESSES	AMPERAGE RANGE
Stick (SMAW)	10 – 160 Amp
Lift TIG (GTAW)	WEIGHT
RATED OUTPUT	15.4 lb (7 kg)
120V: 125A / 25V @ 30% Duty Cycle (Stick)	ORDER INFORMATION
120V: 125A / 15V @ 60% Duty Cycle (TIG)	Part No: G1116000 PRO-TEC 160 S Stick Welding Package
240V: 160A / 26.4V @ 40% Duty Cycle (Stick)	Part No: G1116005 PRO-TEC 160 S Stick/TIG Welding Package
240V: 160A / 16.4V @ 40% Duty Cycle (TIG)	
MAX. OPEN CIRCUIT VOLTAGE	
55 VDC	

THE PERFECT WELDING SYSTEM FOR:	
Farm & Ranches	Sheet Metal & Light Fabrication
Maintenance & Repair	On-Site & Portable Welding Applications
Training Institutions	Home Hobbyists (DIY)

STICK SYSTEM (G1116000) INCLUDES
PRO-TEC® 160 S Portable Power Supply
150 Amp Electrode Holder with 10 ft (3 m) Lead
150 Amp Ground Clamp with 10 ft (3 m) Lead
Power Cord 6 ft (2 m) and NEMA 6-50P 240V Plug
Adapter Plug & Cable – 250V/50A to 120V/15A
4 General Purpose Electrodes (E6013)
Operator's Manual
Shoulder Strap
Carry Case
STICK/TIG SYSTEM (G1116005) INCLUDES ALL THE ABOVE PLUS
17V Style TIG Torch & Accessories, 50 mm Dinse with 12.5 ft (3.8 m) Lead
Argon Flow-gauge Regulator

CONTROL PANEL

Power Indicator Light

LCD Display

Overheat / Fault Indicator Light

Weld Amperage Control Knob

Stick/Lift TIG Process Switch



SYSTEM FEATURES

Dinse Style 50 (Heavy Duty)
Positive Welding Output Terminal

Dinse Style 50 (Heavy Duty)
Negative Welding Output Terminal

WELDING DC	
Type: Constant Current	DC, Stick / Lift TIG
Maximum Output	160 Amp
STICK (SMAW) Welding Output @104°F (40°C)	
15A/120 VAC Power Outlet	90A / 23.6V @ 45% Duty Cycle
20A/120 VAC Power Outlet	125A / 25V @ 30% Duty Cycle
208-240V	160A / 26.4V @ 40% Duty Cycle
TIG (GTAW) Welding Output @104°F (40°C)	
15A/120 VAC Power Outlet	125A / 15V @ 60% Duty Cycle
20A/120 VAC Power Outlet	125A / 15V @ 60% Duty Cycle
208-240V	160A / 16.4V @ 40% Duty Cycle
Current Range	
120V	Stick & TIG 8 – 125A
208-240V	Stick & TIG 10 – 160A
Nominal OCV Volt	55 VDC
Warranty Period	3 Year*
Approvals	CAN/CSA – E60974 – 1:12, ANSI/IEC 60974 – 1:2008
Protection	Class IP23S
Power Source Dimensions (H x W x D)	9.6" x 5.5" x 14.8" (245 mm x 140 mm x 375 mm)
Power Source Weight	15.4 lb (7 kg)

* Limited Warranty, refer to warranty schedule.

PRIMARY POWER	
Primary Voltage	120 / 208 – 240 VAC
Supply Voltage Range	
120V	104 – 127 VAC
208-240V	187 – 264 VAC
Number of Phases	Single Phase
Supply Frequency	50 / 60Hz
Supply Plug	NEMA 6-50P
Rated kVA @ Max Amp	
120V	3.8 kVA
208/240V	4.8 kVA
Lead Cord Length	6 ft (2 m)
Maximum Input Current	
120V	31.8 Amp
208-240V	22.8 – 19.8 Amp
REPLACEMENT ACCESSORIES	
TIG Torch & Accessories, 17V Style, 50 mm Dinse w/Lead 12.5 ft (3.8 m)	G5217120
150 Amp Electrode Holder with 10 ft (3 m) Lead, 50 mm Dinse	G5315010
150 Amp Ground Clamp with 10 ft (3 m) Lead, 50 mm Dinse	G5315000
Argon Flow-gauge Regulator	G4300000

PRO-TEC® 160 S

System accessories shown below.











System shown PRO-TEC 160 S Stick/TIG Welding System (G1116005).

- 150 Amp Electrode Holder w/ 10 ft (3 m) Lead
- 150 Amp Ground Clamp w/ 10 ft (3 m) Lead
- 208-240V to 120V Adapter Plug & Cable
- 4 General Purpose Electrodes (E6013)
- Operating Manual
- Shoulder Strap

- Carry Case
- 17V Style TIG Torch, 50 mm Dinse, 12.5 ft (3.8 m) Lead & TIG Torch Accessory Kit
- Argon Flow-gauge Regulator

NOT SHOWN: Power Cord, 6 ft (2 m) with NEMA 6-50P 250V Plug

ORDERING FORM

Equipment	Part No.	Description	Quantity	Price
PRO-TEC® 160 S Stick Welding System 	G1116000	PRO-TEC 160 S Power Supply, Electrode holder with 10 ft (3 m) Lead, Ground Clamp with 10 ft (3 m) lead, Power Adapter 208-240V to 120V, Operator Manual, 4 General Purpose Electrodes (E6013), Shoulder Strap and Carry Case (Accessories shown below).		
PRO-TEC 160 S Stick/TIG Welding System 	G1116005	Includes contents of G1116000 plus 17V style TIG Torch & Gas Regulator		
Accessories	Part No.	Description		
TIG Torch & Accessory Kit 	G5217120	17V style TIG Torch with 12.5', 5/8" - 18 UNF Hose connection, Gas valve, 50 mm Dinse connection and Accessory kit with 1/16", 3/32", 2% Ceriated (EW/Ce-2) Tungsten; 1/16", 3/32" Collets; 1/16", 3/32" Collet bodies; No. 5, 6, 7 Alumina nozzles; short back cap and long back cap		
Ground Clamp 	G5315000	150 Amp Ground Clamp with 10 ft (3 m) Lead assembly, 50 mm Dinse connector		
Electrode Holder 	G5315010	150 Amp Electrode Holder with 10 ft (4 m), Lead assembly, 50 mm Dinse Connector		
Argon Flow-gauge Regulator 	G4300000	Argon Flow-gauge Regulator		
Power Adapter 	G4123000	Power adapter – 250V to 120V, 15 Amp		
Large Toolbox Case 	G4500001	Large Toolbox Case for 160 S		

CAUTION: For your safety, read operating instructions thoroughly and carefully before operating this equipment.