Si 160/STi 160

Stick/TIG Welding Power Source





Quick Specs



Light Industrial Applications

Process Pipe Maintenance Repair Farm/Ranch Dairy Industry Food/Beverage Industry Shipboard Installation

Processes

Si/STi: Stick (SMAW) STi: Lift-Arc™ TIG (GTAW)

Input Power

230 VAC, 1-Phase

Amperage Range Si: 15–160 A STi: 4–160 A

Rated Output 100 A at 100% Duty Cycle 150 A at 30% Duty Cycle

Max. Open-Circuit Voltage Si: 85

STi: 70

Weight Si: 5.2 kg (11.5 lb) STi: 6.0 kg (13.2 lb)

The Power of Blue®

Inverter-based, DC power source has a **simple-to-use operator interface** providing only the necessary controls in a compact machine.

Best-in-class Stick arc characteristics for those demanding jobs.

Portable in the shop or at the job site—at 6.0 kg (13.2 lb) the shoulder strap allows the end user to easily move from location to location.

Dual fan technology. An optimised power source cooling system which enables the machine to operate at a lower temperature, thus increasing its performance and life cycle.

Thermal overload protection with indicator light helps prevent machine damage if the duty cycle is exceeded or airflow is blocked.

VRD function is a simple design that reduces the open-circuit voltage to 20 volts when the welding power source is not in use.



Si 160/STi 160 with P-CASE come complete with:

- Si 160 or STi 160 power source
- 3 m (10 ft) power cord
- P-CASE for protection in transport and storage
- 4 m (13 ft) Stick electrode holder with 25 mm Dinse connector
- 4 m (13 ft) work clamp with 25 mm Dinse connector
- Shoulder strap

See page 2 for ordering information.



Welding machine is warranted for 3 years, parts and labour.

Preset Hot Start™ for Stick arc starts automatically increases the output amperage at the start of a weld should the start require it. Prevents the electrode from sticking and creating an inclusion. (Si model)

Digital meter with presetting.Shows preset current before welding and actual value during welding. (STi model)

Lift-Arc™ start provides TIG arc starting without the use of high frequency or the risk of tungsten contamination.(STi model)

Adjustable Hot Start™ for Stick arc starts. Adjust the optimal start current for the application. The current automatically increases the output amperage at the start of a weld. (STi model)

Adjustable Arc force™ prevents sticking. Adjust the optimal arc force value. Adjustable arc force supports positional welding by increasing the output amperage. (STi model)

Remote control connector for optional remote control. (STi model)

Optional full-function remote control. Provides precise amperage control for critical welds on thin materials (6-pin fingertip or foot control available.) (STi model)



ITW Welding Products – Italy S.r.I.

Via Privata Iseo 6/e 20098 San Guiliano M.se Milano – Italy

TEL.: +39 02 982901 FAX: +39 02 98281552 Email: itw@itw-welding.it

ITW Welding Products BV – Netherlands

Edisonstraat 10 P.O. Box 1551 NL-3261 LD Oud-Beijerland, Netherlands

TEL: +31 (0) 186 641 444 FAX: +31 (0) 186 640 880

International Headquarters Miller Electric Mfg. Co.

An Illinois Tool Works Company 1635 W. Spencer Street Appleton, WI 54914 USA

TEL.: +1 920 735 4554 FAX: +1 920 735 4125 www.millerwelds.com

Specifications (Subject to change without notice.)







Input Power	Welding Amperage Range	Rated Welding Output at 40°C (104°F)	Amps Input at Rated Output, 50/60 Hz	KVA at Duty Cycle	KW	Max. Open-Circuit Voltage	Dimensions	Weight
230 VAC Stick	15-160 A	100 A at 24.0 VDC, 100% Duty Cycle	13.1	3.0	2.8	85 V (20 V*)	H: 248 mm (9-3/4 in) W: 144 mm (5-5/8 in) D: 385 mm (15-1/8 in)	Si: 5.2 kg (11.5 lb) STi: 6.0 kg (13.2 lb)
		150 A at 26.0 VDC, 30% Duty Cycle	21.6	4.9	4.7			
230 VAC TIG	4-160 A	100 A at 14.0 VDC, 100% Duty Cycle	8.3	2.0	1.9	70 (20 V*)		
		150 A at 16.0 VDC, 30% Duty Cycle	14.2	3.2	3.1			

^{*}VRD voltage.

Ordering Information

Power Source and Options	Stock No.	Description	Qty.	Price
Si 160 (machine only)	#059 016 011	Stick/Scratch Start TIG inverter, single-phase, 230 VAC, 50/60 Hz. Includes shoulder strap and 3 m (10 ft) power cord		
Si 160 with P-CASE (protective case)	#029 083 082	Stick/Scratch Start TIG inverter, single-phase, 230 VAC, 50/60 Hz. Includes protective case, 4 m (13 ft) electrode holder with cable, 4 m (13 ft) work clamp with cable, shoulder strap and 3 m (10 ft) power cord		
STi 160 (machine only)	#059 016 012	Stick/Lift-Arc™ TIG inverter, single-phase, 230 VAC, 50/60 Hz. Includes shoulder strap and 3 m (10 ft) power cord		
STi 160 with P-CASE (protective case)	#029 083 083	Stick/Lift-Arc™TIG inverter, single-phase, 230 VAC, 50/60 Hz. Includes protective case, 4 m (13 ft) electrode holder with cable, 4 m (13 ft) work clamp with cable, shoulder strap and 3 m (10 ft) power cord		
Accessories				
P-CASE	#656 161 007	Protective carrying case		
Stick Welding Kit	#058 066 079	4 m (13 ft) electrode holder with cable and 4 m (13 ft) work clamp with cable		
RCCS-6M	#195 184 #195 503	4 m (13 ft) remote fingertip control 8 m (26 ft), remote fingertip control		
RFCS-6M	#195 183 #195 504	4 m (13 ft) remote foot control 6 m (20 ft) remote foot control		
RMS-6M	#195 269	8 m (26 ft) remote on/off control		
Dinse-Style Flow Thru Adapter	#195 234	25 mm adapter for TIG torch connection		
6-Pin Remote Plug	#217 796	6-pin remote plug to add to an existing remote		
TIG Torches				
Gas Hose				
Gas Regulators				

Date: Total Quoted Price:



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