

# Si 160/STi 160

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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: 15–150 A  
STi: 4–160 A

**Rated Output** 100 A at 100% Duty Cycle  
Si: 150 A at 25% Duty Cycle  
STi 160 A at 20% Duty Cycle

**Max. Open-Circuit Voltage** Si: 85 V  
STi: 70 V

**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 5.2 kg (11.5 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 Model

STi 160 Model

**New!**

**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)

**Full-function remote control connector** for precise amperage control for critical welds on thin materials. (STi model)

### 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.

**TRUE BLUE**  
3 YR. WARRANTY

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



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# Specifications (Subject to change without notice.)



Model	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
Si 160	230 VAC Stick	15–150 A	100 A at 24.0 VDC, 100% Duty Cycle	20	4.5	2.8	85 V (20 V*)	H: 245 mm (9-5/8 in) W: 145 mm (5-3/4 in) D: 380 mm (15 in)	5.2 kg (11.5 lb)
			150 A at 26.0 VDC, 25% Duty Cycle	30	7.0	4.8			
	230 VAC TIG	15–150 A	100 A at 14.0 VDC, 100% Duty Cycle	13	3.0	2.0	85 (20 V*)		
			150 A at 16.0 VDC, 25% Duty Cycle	21	4.8	3.2			
STi 160	230 VAC Stick	4–150 A	100 A at 24.0 VDC, 100% Duty Cycle	20	4.5	2.8	70 V (20 V*)	6.0 kg (13.2 lb)	
			150 A at 26.0 VDC, 25% Duty Cycle	30	7.0	4.8			
	230 VAC TIG	4–160 A	100 A at 14.0 VDC, 100% Duty Cycle	13	3.0	2.0	70 (20 V*)		
			160 A at 16.4 VDC, 20% Duty Cycle	22	5.1	3.5			

\*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		
<b>Accessories</b>				
P-CASE	#656 161 007	Protective carrying case		
Stick Welding Kit	#058 066 079	3 m (10 ft) electrode holder with cable and 3 m (10 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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