

Si 160/STi 160

Issued September 2011 • Index No. DC/27.15 UK

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

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.

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)



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 | | |
| Accessories | | | | |
| 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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