

STH 160/160 L

TIG/Stick Welding
Power Source



Quick Specs



Light Industrial Applications

Process pipe
Maintenance repair
Restaurant/kitchen repair
Experimental aircraft
Dairy industry
Food/beverage industry
Shipboard installation/repair

Processes

Stick (SMAW)
TIG (GTAW)
Pulsed TIG (GTAW-P)

Input Power

230 V, 1-phase, 50/60 Hz

Amperage Range STH 160 Stick: 4–150 A
STH 160 L Stick: 4–100 A
TIG: 4–160 A

Rated Output 100 A at 100% duty cycle
160 A at 20% duty cycle

Max. Open-Circuit Voltage 70 V

Net Weight 6.0 kg (13.2 lb.)



STH 160 model with WeldReady package shown.

WeldReady packages include:

- Power source
- 3 m (10 ft.) power cord
- 3 m (10 ft.) electrode cable with holder and 25 mm Dinse-style connector
- 4 m (13 ft.) WP-17S4NXXF TIG torch
- 3 m (10 ft.) work cable with clamp and 25 mm Dinse-style connector
- 3 m (10 ft.) gas hose
- AK2C TIG torch accessory kit
- Shoulder strap

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

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

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.

Digital meter with presetting. Shows preset current before welding and actual value during welding.

Full-function remote control connector for precise amperage control for critical welds on thin materials.

Selectable trigger configuration allows the operator to choose standard or 2T trigger method.

Built-in gas solenoid eliminates the need for a bulky torch with gas valve.

Built-in upslope/downslope function helps provide better arc starts and reduces craters.

Adjustable preflow and postflow gives operator better control of the gas parameters affecting weld zone.

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

HF start for non-contact TIG arc starting that eliminates tungsten or material contamination.

Built-in pulsing capabilities allow the operator to select from four fixed pulse frequencies to satisfy the application.

Best-in-class stick and TIG arc characteristics for those demanding jobs.

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.

Adjustable Arc Force™ prevents sticking. Adjust the optimal arc force value. Adjustable arc force supports positional welding by increasing the output amperage.

Low stick output process allows limiting of the maximum input line current (STH 160 L).



Warranted for three years, parts and labour.



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Specifications (Subject to change without notice.)



| Model/ Input Power | Welding Mode | Welding Amperage Range | Rated Welding Output | IP Rating | Amps Input at Rated Output, 50/60 Hz | KVA | KW | Max. Open- Circuit Voltage | Dimensions | Net Weight |
|--|-----------------|------------------------------|------------------------------------|--------------|--|-----|-----|----------------------------------|---|----------------------|
| STH 160, 230 V, 1-phase, 50/60 Hz | Stick | 4–150 A | 100 A at 24.0 VDC, 100% duty cycle | IP23 | 20 | 4.5 | 2.8 | 70 VDC (20 VDC*) | H: 245 mm (9.65 in.) W: 145 mm (5.75 in.) D: 380 mm (15 in.) | 6.0 kg (13.2 lb.) |
| | | | 150 A at 26.0 VDC, 25% duty cycle | | 30 | 7.0 | 4.8 | | | |
| | TIG | 4–160 A | 100 A at 14.0 VDC, 100% duty cycle | | 13 | 3.0 | 2.0 | | | |
| | | | 160 A at 16.4 VDC, 20% duty cycle | | 22 | 5.1 | 3.5 | | | |
| STH 160 L, 230 V, 1-phase, 50/60 Hz | Stick | 4–100 A | 100 A at 24.0 VDC, 100% duty cycle | IP23 | 20 | 4.5 | 2.8 | 70 VDC (20 VDC*) | H: 245 mm (9.65 in.) W: 145 mm (5.75 in.) D: 380 mm (15 in.) | 6.0 kg (13.2 lb.) |
| | | | 150 A at 26.0 VDC, 25% duty cycle | | 30 | 7.0 | 4.8 | | | |
| | TIG | 4–160 A | 100 A at 14.0 VDC, 100% duty cycle | | 13 | 3.0 | 2.0 | | | |
| | | | 160 A at 16.4 VDC, 20% duty cycle | | 22 | 5.1 | 3.5 | | | |

*VRD voltage.

All CE models conform to the applicable parts of the IEC 60974 series of standards.

Ordering Information

| Power Source | Stock No. | Description | Qty. | Price |
|--|--------------------|--|------|-------|
| STH 160 | 059016013 | HF TIG with pulse/stick inverter. 230 V, single-phase, 50/60 Hz. Includes shoulder strap and 3 m (10 ft.) power cord | | |
| STH 160 WeldReady Package | 029083128 | Includes power source, power cord, electrode cable with holder, TIG torch, work cable with clamp, gas hose, torch accessory kit and shoulder strap | | |
| STH 160 L | 059016021 | Low stick output model. HF TIG with pulse/stick inverter. 230 V, single-phase, 50/60 Hz. Includes shoulder strap and 3 m (10 ft.) power cord | | |
| STH 160 L WeldReady Package | 029083113 | Includes power source, power cord, electrode cable with holder, TIG torch, work cable with clamp, gas hose, torch accessory kit and shoulder strap | | |
| Accessories | | | | |
| Stick Welding Kit | 058066079 | 3 m (10 ft.) electrode holder with cable and 3 m (10 ft.) work clamp with cable | | |
| RCCS-6M | 195184 | 4 m (13 ft.) remote fingertip control | | |
| | 195503 | 8 m (26.5 ft.) remote fingertip control | | |
| RFCS-6M | 195183 | 4 m (13 ft.) remote foot control | | |
| | 195504 | 6 m (20 ft.) remote foot control | | |
| RMS-6M | 195269 | 8 m (26.5 ft.) remote on/off control | | |
| Dinse-Style Flow Thru Adapter | 195234 | 25 mm adapter for TIG torch connection | | |
| 6-Pin Remote Plug | 217796 | 6-pin remote plug to add to an existing remote | | |
| TIG Torch | WP-17S4NXXF | 4 m (13 ft.) A-150 air-cooled torch. 150 amps, 60% duty cycle | | |
| Gas Hose | 9072000SL | 3 m (10 ft.) | | |

Date:

Total Quoted Price:

Miller recommends consumables

Distributed by:

