

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

Stick (SMAW)
Lift-Arc™ TIG (GTAW)

Input Power

230 V, 1-phase, 50/60 Hz

Amperage Range 4–150 A

Rated Output 100 A at 100% duty cycle
150 A at 25% duty cycle

Max. Open-Circuit Voltage 70 V

Net Weight 6.0 kg (13.2 lb.)



WeldReady package includes:

- Power source
- 3 m (10 ft.) power cord
- 3 m (10 ft.) electrode cable with holder and 25 mm Dinse-style connector
- 3 m (10 ft.) work cable with clamp and 25 mm Dinse-style connector
- 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.

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

Best-in-class stick 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.



Warranted for three years, parts and labour.



ITW Welding – BV

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. LLC

An Illinois Tool Works Company
1635 W. Spencer Street
Appleton, WI 54914 USA
TEL: +1 920 735 4554
FAX: +1 920 735 4125
MillerWelds.com

Specifications (Subject to change without notice.)



| 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 |
|--------------------------|--------------|------------------------|------------------------------------|-----------|--------------------------------------|-----|-----|---------------------------|---|-------------------|
| 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 (9.625 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 | 15–150 A | 100 A at 14.0 VDC, 100% duty cycle | | 13 | 3.0 | 2.0 | | | |
| | | | 150 A at 16.0 VDC, 25% duty cycle | | 21 | 4.8 | 3.2 | | | |

*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 |
|----------------------------------|-----------------------|--|------|-------|
| STi 160 | 059016012 | Stick/Lift-Arc™ TIG inverter, 230 V, single-phase, 50/60 Hz. Includes shoulder strap and 3 m (10 ft.) power cord | | |
| STi 160 WeldReady Package | 029083127 | Includes power source, power cord, electrode cable with holder, work cable with clamp, 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-17VX4BXX3GL | 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:

