

STH 160/160 L

Stick/TIG 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.)

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.



STH 160

STH 160 and STH 160 L come complete with:

- Power source
- 3-meter (10 ft.) power cord
- 4-meter (13 ft.) stick electrode holder with 25-millimeter Dinse-style connector
- 4-meter (13 ft.) work clamp with 25-millimeter Dinse-style connector
- Shoulder strap

See page 2 for ordering information.

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 or material contamination.

HF start for non-contact 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.



Miller

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

ITW Welding – Italy S.r.l.

Via Privata Iseo 6/e
20098 San Giuliano M.se
Milano – Italia
TEL.: +39 02 982901
FAX: +39 02 98281552
ITW-Welding.com

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
MillerWelds.com

Specifications (Subject to change without notice.)



Model/ Input Power	Welding Mode	Welding Amperage Range	Rated Welding Output	Amps Input at Rated Output, 50/60 Hz	KVA	KW	IP Rating	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	20	4.5	2.8	IP23	70 V	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	20	4.5	2.8							
			100 A at 14.0 VDC, 100% duty cycle	13	3.0	2.0							
	TIG	4-160 A	160 A at 16.4 VDC, 20% duty cycle	22	5.1	3.5							

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-meter (10 ft.) power cord		
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-meter (10 ft.) power cord		
Accessories				
Stick Welding Kit	058066079	3-meter (10 ft.) electrode holder with cable and 3-meter (10 ft.) work clamp with cable		
RCCS-6M	195184	4-meter (13 ft.) remote fingertip control		
	195503	8-meter (26.5 ft.), remote fingertip control		
RFCS-6M	195183	4-meter (13 ft.) remote foot control		
	195504	6-meter (20 ft.) remote foot control		
RMS-6M	195269	8-meter (26.5 ft.) remote on/off control		
Dinse-Style Flow Thru Adapter	195234	25-millimeter adapter for TIG torch connection		
6-Pin Remote Plug	217796	6-pin remote plug to add to an existing remote		
TIG Torches				
Gas Hose				
Gas Regulators				

Date: _____ Total Quoted Price: _____

Distributed by:



The Power of Blue®