

# STH 160 L

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TIG/Stick Welding  
Power Source



## Quick Specs



### Applications

Process Pipe  
Maintenance Repair  
Restaurant/Kitchen Repair  
Experimental Aircraft  
Dairy Industry  
Food/Beverage Industry  
Shipboard Installation/Repair

### Process

TIG  
Pulsed TIG  
Stick

**Input Power:** 230 VAC 1 Phase

**Amperage Range:** 5–160 A  
145 A 30% DC at 40° C

**Max. Open-Circuit Voltage:** 85 Volt

**Weight:** 6,0 kg

## 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 and TIG arc characteristics** for those demanding jobs.

**Portable** in the shop or at the job site - at 6,0 kg the shoulder strap allows the end user to easily move from location to location.

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

**HF Start** for non-contact arc starting that eliminates tungsten or material contamination.

**Dual Fan technology** an optimised power source cooling system which enables the machine to operate at a lower temperature, thus increasing it's performance and life cycle.

**Terminal overload protection with indicator lights** helps prevent the machine damage if the duty cycle is exceeded or airflow is blocked.



**Digital meter with presetting**, shows preset current before welding and actual value during welding.

**Remote control connector** to connect a remote control.

**Lift TIG function**, support TIG welding with Lift TIG start without the risk of tungsten contamination.

**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.

**VRD function** is a simple design that reduces the open-circuit voltage to 12-16 volts when the welding power source is not in use.



Power source is warranted for 3 years, parts and labour.

MADE IN USA  
APPLETON, WI



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## Specifications

**S** **IP 23** **CC** **DC** **1**  
Phase

Input Power	Rated Welding Output	Welding Amperage Range	Max. Open-Circuit Voltage	Amps Input at Rated Output	Dimensions	Weight
230 VAC	145 A at 30 % Duty Cycle	TIG: 5 - 160 A Stick: 20 - 100 A	85 VDC	16 A	H: 245 mm W: 145 mm D: 380 mm	6,0 kg

## Ordering Information

Power Source	Stock No.	Description
<b>STH 160 L</b>	<b>059 016 021</b>	TIG Inverter, incl. power cord and work clamp
<b>Accessories</b>		
TIG - Torches	<b>WTC9S4NXXF</b>	Tig Torch WTC9, 125 A, 35% DC, 4 m
	<b>WTC9P14NXXF</b>	Tig Torch WTC9, 125 A, 35% DC, 4 m, with Ampere control
	<b>WTC17S4NXXF</b>	Tig Torch WTC17, 150 A, 35% DC, 4 m
	<b>WTC17P14NXXF</b>	Tig Torch WTC17, 150 A, 35% DC, 4 m, with Ampere control
Welding cable kit	<b>058 066 079</b>	Stick electrode holder 3 m and work piece clamp 3 m with 25 mm Dinse connector.
Gas hose	<b>907 200 0SL</b>	Length 2 m, Outlet Connection 1/4"R en 3/8" R Inlet
RFCS-6M	<b>195 183</b>	Remote foot control, length 4 m
	<b>195 504</b>	Remote foot control, length 6 m
Gasregulator	<b>373 700 00</b>	Elga Optimator gas saving regulator with flow meter
	<b>371 050 00</b>	Elga Tigex with flow meter