

# STi 270/270 C

Stick/TIG Welding  
Power Source



## Quick Specs



### Industrial Applications

Petro/chemical  
Mechanical contractors  
Shipboard installation  
Process piping

### Processes

Stick (SMAW)  
Lift-Arc™ TIG (GTAW)

**Input Power** 400 V, 16 A, three-phase

**Amperage Range** 5–270 A

**Rated Output** 180 A at 27.2 V, 100% duty cycle  
270 A at 30.8 V, 40% duty cycle

**Net Weight** STi 270: 23.2 kg (51.1 lb.)  
STi 270 C: 23.4 kg (51.6 lb.)

**Portable** in the shop or at the jobsite — at less than 24 kg (52.9 lb.) each model is easily moved 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.

**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 12 volts when the welding power source is not in use.

**Digital meter.** Preset amperage or actual amperage/voltage while welding.

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



STi 270 C

### STi 270/270 C comes complete with:

- Power source
- 3-meter (10 ft.) power cord

See page 2 for ordering information.

**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.

**Stick cellulosic function.** Use with cellulosic electrode provides outstanding arc stability and penetration. It's ideal for welding all positions (STi 270 C model).



Warranted for 3 years, parts and labour.

## Specifications (Subject to change without notice.)



Input Power	Welding Mode	Amperage/Voltage Range	Rated Output	KVA/KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
400 V, 16 A, 3-phase, 50/60 Hz	Stick	5–270 A 20–30.8 V	180 A at 27.2 V, 100% duty cycle 270 A at 30.8 V, 40% duty cycle	7.9 KVA/7.1 KW at 100% duty cycle 11.4 KVA/10.3 KW at 40% duty cycle	50 VDC (12 VDC)*	H: 345 mm (13.6 in.) W: 219 mm (8.6 in.) D: 568 mm (22.4 in.)	STi 270 23.2 kg (51.1 lb.)
	TIG	5–270 A 10–20.8 V	180 A at 17.2 V, 100% duty cycle 270 A at 20.8 V, 40% duty cycle	4.8 KVA/4.0 KW at 100% duty cycle 7.7 KVA/6.7 KW at 40% duty cycle			STi 270 C 23.4 kg (51.6 lb.)

\* VRD sense voltage for stick and Lift-Arc™ TIG. All CE models conform to the applicable parts of the IEC 60974 series of standards.

**IP23 rating** — This equipment is designed for outdoor use. It may be stored, but is not intended to be used outside during precipitation unless sheltered. Operating temperature range is -10 to 40°C (14 to 104°F). Storage temperature range is -30 to 65°C (-22 to 149°F). Portions of the preceding text are contained in EN 60974-1: "Welding power sources for arc welding equipment."



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## Genuine Miller® Accessories



### Small Runner Cart 300318

Designed for Maxstar 280, Dynasty 280, STH 270 and STi 270, with or without cooler. Cart features single cylinder rack, cable holder and foot pedal holder.



### MH Running Gear 018035026

Designed for Maxstar 280, Dynasty 280, STH 270, and STi 270 with or without cooler. Easy-to-maneuver two-wheel cart with single cylinder rack, cable holder and storage area.

## Ordering Information

Power Source	Stock No.	Description	Qty.	Price
STi 270	059016022	400 V, 3-phase, 50/60 Hz		
STi 270 C	059016023	400 V, 3-phase, 50/60 Hz		
<b>Accessories</b>				
Small Runner Cart	301318	Four-wheeled cart with cylinder rack, cable holder and foot pedal holder		
MH Running Gear	018035026	Two-wheeled cart with cylinder rack, cable holder and foot pedal holder		
Stick Welding Cable Kit	058066039	200 A, 35 mm <sup>2</sup> , 3 m (9.8 ft.)		
	058066040	200 A, 35 mm <sup>2</sup> , 5 m (16.4 ft.)		
	058066041	300 A, 50 mm <sup>2</sup> , 5 m (16.4 ft.)		
	058066042	300 A, 50 mm <sup>2</sup> , 10 m (32.8 ft.)		
	058066043	300 A, 50 mm <sup>2</sup> , 15 m (49.2 ft.)		
	058066044	300 A, 50 mm <sup>2</sup> , 20 m (65.6 ft.)		
TIG Torch				
Tungsten				
Helmet				
Gas Hose				

Date: Total Quoted Price:

Distributed by:

