

Maxstar® 150 STL

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TIG/Stick Welding
Power Source  

Quick Specs

Light Industrial Applications

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

Processes

Lift-Arc™ TIG (GTAW)
Stick (SMAW)

Input Power

1-Phase Power

Amperage Range 115 VAC: 5–150 A (DC TIG)
20–100 A (DC Stick)
230 VAC: 5–150 A (DC TIG)
20–150 A (DC Stick)

Max. Open-Circuit Voltage 90

Weight 13.7 lb (6.2 kg)

The Power of Blue.®



Auto-Line™ provides state-of-the-art flexibility to the end user. The Auto-Line circuitry automatically connects to 115–230 VAC, single-phase power without removing the covers to relink the power source. No longer is there a concern if you have the correct machine for the shop or job site.



Miller's exclusive **multi-voltage plug (MVP™)** allows connection to 115 or 230 V receptacles without tools —

choose the plug that fits the receptacle and connect it to the power cord.

Portable in the shop or at the job site — at 13.7 lb the shoulder strap allows the end user to easily move from location to location.

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

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

Full function remote control for precise amperage control for critical welds on thin materials (6-pin fingertip or foot control available.)

Thermal overload protection with indicator light helps prevent machine damage if the duty cycle is exceeded or airflow is blocked.

Improved! *New Case and MVP Plugs!*



TIG/Stick Package (#907 135-01-7) comes complete with:

- Maxstar 150 STL
- 10 ft (3 m) MVP™ power cord
- MVP™ plugs 5-15P (115 V, 15 A) and 6-50P (230 V, 50 A)
- X-CASE™ provides protection in transport and storage
- Remote fingertip control
- Weldcraft® WP1712RD125 TIG torch with adapter
- 13 ft (4 m) Stick electrode holder with 25 mm Dinse connector
- 10 ft (3 m) work clamp with 25 mm Dinse connector
- Smith® regulator with gas hose
- AK-2C accessory kit
- Shoulder strap

Single amperage range allows operator to accurately set amperage on both 115 or 230 V primary power.

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

Adaptive Hot Start™ for Stick arc starts automatically increases the output amperage at the start of a weld should the start require it. Prevents the electrode from sticking and creating an inclusion.

Low OCV Stick is a simple design that reduces the open-circuit voltage to 12–16 V when the welding power source is not in use. This circuit design is now built into the Maxstar 150 STL eliminating the need for add-on voltage reducers.

Best in class Stick arc characteristics for those demanding jobs.

Power Factor Corrected (PFC) for optimum performance especially on 115 V — reduces nuisance breaker tripping.

Fan-On-Demand™ power source cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through the machine.



Power source is warranted for 3 years, parts and labor.
Original main power rectifiers are warranted for 5 years.

MADE IN **USA**
APPLETON, WI



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Specifications (Subject to change without notice.)

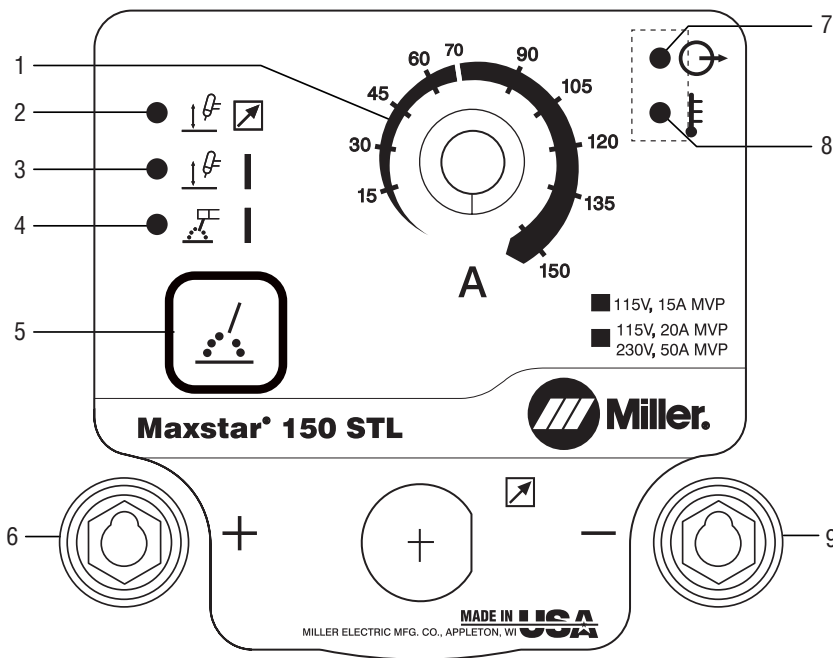


Input Power	Welding Amperage Range	Rated Welding Output	Amps Input at Rated Output, 50/60 Hz	KVA at Duty Cycle	KW	Max. Open-Circuit Voltage	Dimensions	Weight
115 VAC Stick 15 A	20–70 A	70 A at 22.8 VDC, 100% Duty Cycle	17.4	2.0	1.9	90, 12–16 V*	H: 9 in (229 mm) W: 5-1/2 in (140 mm) D: 13-1/4 in (337 mm)	13.7 lb (6.2 kg)
115 VAC TIG 15 A	5–100 A	100 A at 14.0 VDC, 100% Duty Cycle	18.4	2.1	2.1	90, 12–16 V*		
115 VAC Stick 20 A	20–100 A	70 A at 22.8 VDC, 100% Duty Cycle	17.4	2.0	1.9	90, 12–16 V*		
		100 A at 24.0 VDC, 35% Duty Cycle	26.4	3.0	3.0			
115 VAC TIG 20 A	5–150 A	100 A at 14.0 VDC, 100% Duty Cycle	18.4	2.1	2.1	90, 12–16 V*		
		150 A at 16.0 VDC, 30% Duty Cycle	28.0	3.4	3.1			
230 VAC Stick	20–150 A	100 A at 24.0 VDC, 100% Duty Cycle	13.1	3.0	2.8	90, 12–16 V*		
		150 A at 26.0 VDC, 30% Duty Cycle	21.6	4.9	4.7			
230 VAC TIG	5–150 A	100 A at 14.0 VDC, 100% Duty Cycle	8.3	2.0	1.9	90, 12–16 V*		
		150 A at 16.0 VDC, 30% Duty Cycle	14.2	3.2	3.1			

Certified by Canadian Standards Association to both Canadian and U.S. Standards.

*Sense voltage for Stick and Lift-Arc TIG.

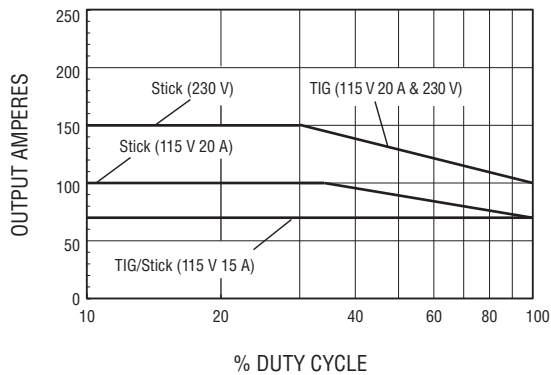
Control Panel



1. Amperage Adjustment Control
2. Remote TIG Selector Light
3. TIG Selector Light
4. Stick Selector Light
5. Process Selector Touch Pad
6. Positive Weld Output Receptacle
7. Ready Light
8. Overtemperature Light
9. Negative Weld Output Receptacle with Flow Thru

Performance Data

DUTY CYCLE CHART



VOLT/AMP CURVES

