

Maxstar® 150 STH

Issued Dec. 2011 • Index No. DC/27.2

**TIG/Stick Welding
Power Source**


Quick Specs

Light Industrial Applications

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

Processes

TIG (GTAW)
Pulsed TIG (GTAW-P)
Stick (SMAW)

Input Power

Single-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.



Our 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 pounds, 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.

Selectable trigger configuration allows the operator to choose standard or 2T trigger method to meet the application.

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.)



TIG/Stick Package (#907 136-01-7) comes complete with:

- Maxstar 150 STH
- 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



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

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

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 volts when the welding power source is not in use. This circuit design is now built into the Maxstar 150 STH 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.

MADE IN USA
APPLETON, WI



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Specifications (Subject to change without notice.)

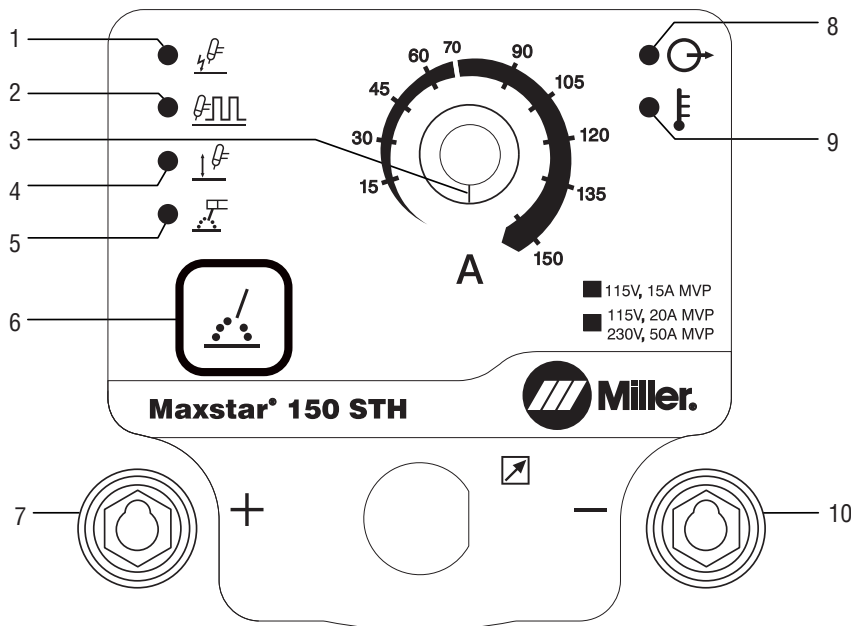


Input Power	Welding Amperage Range	Rated Welding Output	Amps Input at Rated Output, 50/60 Hz	KVA at Duty Cycle	KW	Max. Open-Circuit Voltage	Dimensions	Weight
115 VAC, 15 A Stick	20–70 A	70 A at 22.8 VDC, 100% Duty Cycle	17.4	2.0	1.9	90, 12–16 V*	H: 9 in. (229 mm) W: 5.5 in. (140 mm) D: 13.25 in. (337 mm)	13.7 lb. (6.2 kg)
115 VAC, 15 A TIG	5–100 A	100 A at 14.0 VDC, 100% Duty Cycle	18.4	2.1	2.1	90, 12–16 V*		
115 VAC, 20 A Stick	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, 20 A TIG	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.

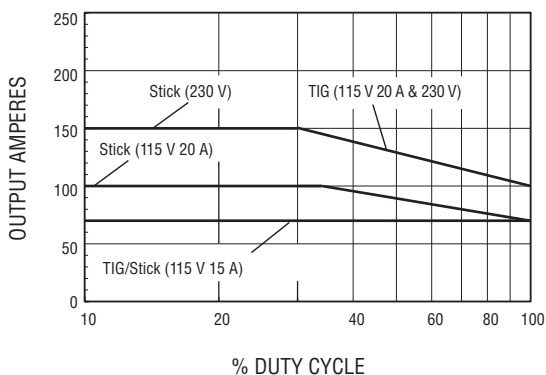
Control Panel



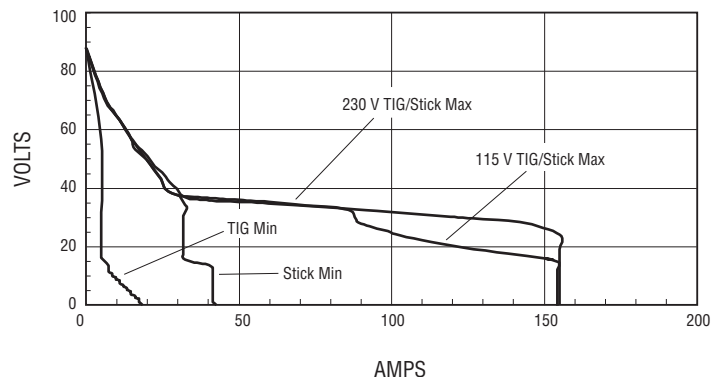
1. TIG HF Impulse Selector Light
2. Pulsed TIG Selector Light
3. Amperage Adjustment Control
4. TIG Selector Light
5. Stick Selector Light
6. Process Selector Touch Pad
7. Positive Weld Output Receptacle
8. Ready Light
9. Overtemperature Light
10. Negative Weld Output Receptacle with Flow Thru

Performance Data

DUTY CYCLE CHART



VOLT/AMP CURVES



Maxstar® 150 STH Packages



Standard Package #907 136

Package includes:

- Maxstar 150 STH
- 10-ft. (3 m) MVP™ power cord
- MVP™ plugs 5-15P (115 V, 15 A) and 6-50P (230 V, 50 A)
- 13-ft. (4 m) Stick electrode holder with 25-mm Dinse connector
- 10-ft. (3 m) work clamp with 25-mm Dinse connector
- International flow-thru adapter
- Shoulder strap



TIG/Stick Package #907 136-01-7

Package includes:

- Maxstar 150 STH
- Remote fingertip control (#195 184)
- 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
- 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

Genuine Miller® Accessories



X-CASE™ #300 184

Sturdy case provides ultimate protection for transport and storage. Also features convenient top carrying handle and side recessed hand grips. Store the Maxstar 150, accessories and gear in this generous case to be ready to go at any time. Dimensions: 13 in. H x 10.5 in. W x 30.625 in. D (330 x 267 x 778 mm).



Female Receptacle

Adapter Cord, Full KVA #300 517 Field NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240 V plug to Maxstar 240 V plug.

Remote Controls



RCCS-6M (6-pin plug)

#195 184 13.25-ft. (4 m) cord

#195 503 26.5-ft. (8 m) cord

North/south rotary-motion fingertip current/contactor control fastens to TIG torch using two Velcro® straps. Great for applications that require a finer amperage control. Includes cord and plug.



RFCS-6M (6-pin plug)

#195 183 13.25-ft. (4 m) cord

#195 504 20-ft. (6 m) cord

Foot pedal current/contactor control. Includes cord and plug.



RMS-6M (6-pin plug) #195 269

Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications. Includes 26.5-ft. (8 m) cord and plug.

TIG (GTAW) Torch Packages



The Weldcraft line of TIG torches

complements the most popular TIG power source line available today. The Weldcraft torch line includes both air-cooled and water-cooled models. Available with genuine Weldcraft parts.

Air-Cooled Torches

#WP1712RD125 150 A, 12-ft. (3.7 m) air-cooled torch with flow-thru adapter

#WP1725RD125 150 A, 25-ft. (7.6 m) air-cooled torch with flow-thru adapter

MVP™ Adapter Plugs

Order from Miller Service Parts.



#219 258 For Power Cable 6-50P (230 V/50 A). Included with machine.



#219 261 For Power Cable 5-15P (115 V/15 A). Included with machine.



#219 259 For Power Cable 5-20P (115 V/20 A). Optional.

Ordering Information

Power Source and Options	Stock No.	Description	Qty.	Price
Maxstar® 150 STH Standard Package	#907 136	Maxstar 150 STH with electrode holder, work clamp, and MVP cord and plugs		
Maxstar® 150 STH TIG/Stick Package with Remote Fingertip Control	#907 136-01-7	Includes #907 136 <i>plus</i> X-CASE™, TIG torch, gas regulator with hose, AK-2C accessory kit, and remote fingertip control		
Maxstar® 150 STH (International)	#907 352	115/230 VAC, 50/60 Hz, CE		
Accessories				
X-CASE™ (only)	#300 184	Carrying case for Maxstar 150 STL		
RCCS-6M	#195 184 #195 503	13.25-ft. (4 m) remote fingertip control 26.5-ft. (8 m), remote fingertip control		
RMS-6M	#195 269	26.5-ft. (8 m) remote on/off control		
RFCS-6M	#195 183 #195 504	13.25-ft. (4 m) remote foot control 20-ft. (6 m) remote foot control		
Weldcraft TIG Torch		See Accessories section on page 3		
International-Style Flow Thru Adapter	#195 234	25-mm adapter for TIG torch connection		
Adapter Cord, Full KVA	#300 517	Adapts engine drive 120/240 V plug to Maxstar 240 V plug		
MVP™ Adapter Plugs		See Accessories section on page 3		

Date:

Total Quoted Price:



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