

Maxstar® 150 STH

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

120–240 V, 1-Phase Power

Amperage Range 120 VAC: 5–150 A (DC TIG)
20–100 A (DC Stick)
240 VAC: 5–150 A (DC TIG)
20–150 A (DC Stick)

Max. Open-Circuit Voltage 90

Net Weight 13.7 lb. (6.2 kg)



Allows for any input voltage hookup (120–240 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.



Multi-Voltage Plug (MVP™) allows for connection to 120- or 240-volt receptacles without tools by choosing the plug that fits the receptacle and connecting 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.

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

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.

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



TIG/Stick Package (#907 136 017) comes complete with:

- Maxstar 150 STH power source
- 10-ft. (3 m) MVP™ power cord
- MVP™ plugs 5-15P (120 V, 15 A) and 6-50P (240 V, 50 A)
- X-CASE™ provides protection in transport and storage
- Remote fingertip control
- Weldcraft™ A-150 (WP-17) 12.5-ft (3.8 m) TIG torch with connector
- Stick electrode holder with 13-ft. (4 m) cable and 25-mm Dinse-style connector
- Work clamp with 10-ft. (3 m) cable and 25-mm Dinse-style connector
- Flow gauge regulator with gas hose
- AK2C accessory kit
- Shoulder strap

Pulse. Pulsing can increase puddle agitation, arc stability and travel speeds while reducing heat input and distortion.

High frequency for non-contact arc initiation that reduces tungsten and material contamination.

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

Single amperage range allows operator to accurately set amperage on both 120- or 240-volt primary power.

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

Hot Start™ adaptive control provides positive arc starts without sticking.

Best-in-class Stick arc characteristics for those demanding jobs.

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.

Power Factor Corrected (PFC) for optimum performance especially on 120 volts—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 rectified parts are warranted for 5 years.



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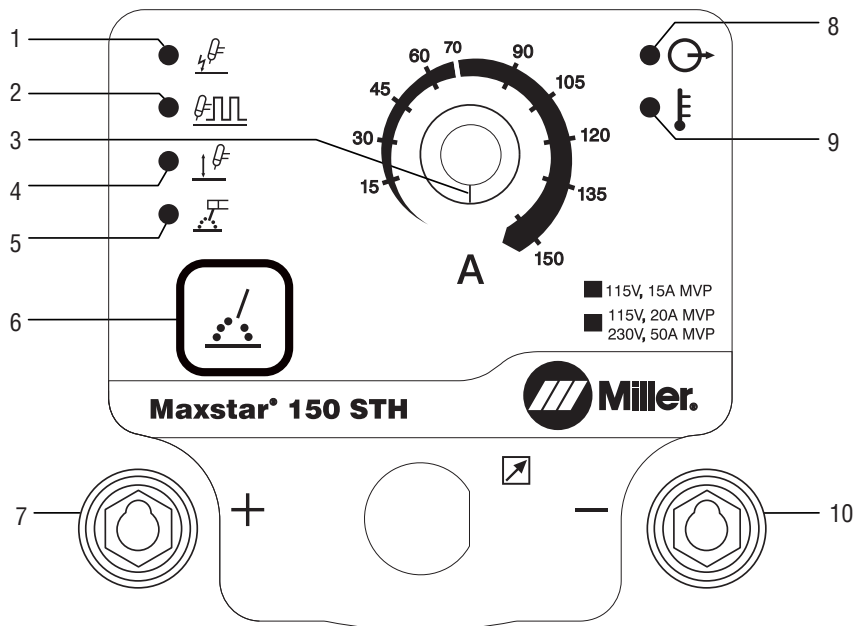
Specifications (Subject to change without notice.)



Welding Mode	Input Power	Welding Amperage Range	Rated Welding Output	Amps Input at Rated Output, 50/60 Hz	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
TIG	115 VAC, 15 A	5–100 A	100 A at 14.0 VDC, 100% duty cycle	18.4	2.1	2.1	90 VDC (12–16 VDC*)	H: 9 in. (229 mm) W: 5.5 in. (140 mm) D: 13.25 in. (337 mm)	13.7 lb. (6.2 kg)
			100 A at 14.0 VDC, 100% duty cycle	18.4	2.1	2.1			
	115 VAC, 20 A	5–150 A	150 A at 16.0 VDC, 30% duty cycle	28.0	3.4	3.1			
			100 A at 14.0 VDC, 100% duty cycle	8.3	2.0	1.9			
Stick	115 VAC, 15 A	20–70 A	70 A at 22.8 VDC, 100% duty cycle	17.4	2.0	1.9			
			70 A at 22.8 VDC, 100% duty cycle	17.4	2.0	1.9			
	115 VAC, 20 A	20–100 A	100 A at 24.0 VDC, 35% duty cycle	26.4	3.0	3.0			
			100 A at 24.0 VDC, 100% duty cycle	13.1	3.0	2.8			
230 VAC	20–150 A	150 A at 26.0 VDC, 30% duty cycle	21.6	4.9	4.7				

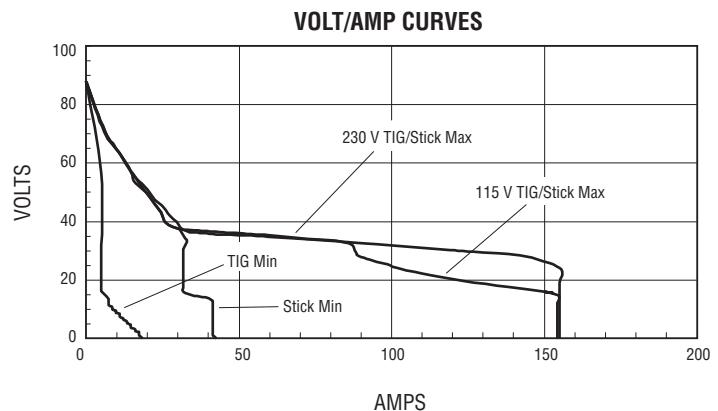
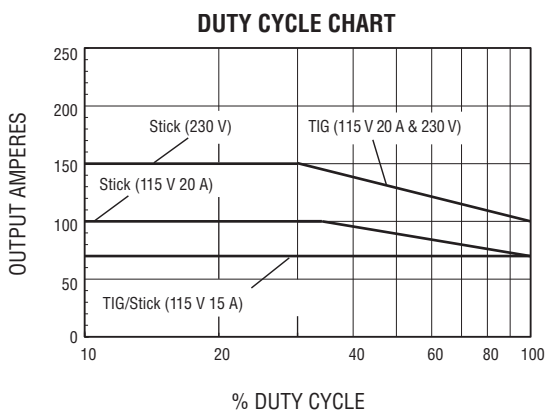
*Sense voltage for Stick and Lift-Arc TIG.

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



Maxstar® 150 STH Package



Standard Package #907 136

Package includes:

- Maxstar 150 STH power source
- 10-ft. (3 m) MVP™ power cord
- MVP™ plugs 5-15P (120 V, 15 A) and 6-50P (240 V, 50 A)
- Stick electrode holder with 13-ft. (4 m) cable and 25-mm Dinse-style connector
- Work clamp with 10-ft. (3 m) cable and 25-mm Dinse-style connector
- One air-cooled TIG torch connector (#195 234)
- Shoulder strap



TIG/Stick Package #907 136 017

Package includes:

- Maxstar 150 STH power source
- 10-ft. (3 m) MVP™ power cord
- MVP™ plugs 5-15P (120 V, 15 A) and 6-50P (240 V, 50 A)
- X-CASE™ — provides protection in transport and storage
- Remote fingertip control (#195 184)
- Weldcraft™ A-150 (WP-17) 12.5-ft. (3.8 m) TIG torch with connector
- Stick electrode holder with 13-ft. (4 m) cable and 25-mm Dinse-style connector
- Work clamp with 10-ft. (3 m) cable and 25-mm Dinse-style connector
- Flow gauge regulator with gas hose
- AK2C accessory kit with short back cap, nozzles, collets, collet bodies, and 2% ceriated tungsten electrodes (.040, 1/16, and 3/32 in.)
- 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 (H x W x D): 13 x 10.5 x 30.625 in. (330 x 267 x 778 mm).



Female Receptacle

Full KVA Adapter Cord #300 517

NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240 V plug to Maxstar 240 V plug.

Remote Controls and Switches



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 attaches to TIG torch using two hook-and-loop fasteners. 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 Torches

Weldcraft™ Air-Cooled Torches

#WP-17-12-R A-150 (WP-17) 12.5-ft. (3.8 m) TIG torch with gas thru connector

#WP-17-25-R A-150 (WP-17) 25-ft. (7.6 m) TIG torch with gas thru connector



Air-Cooled TIG Torch Connector #195 234

25-mm (small) Dinse-style gas thru for one-piece air-cooled torch.

MVP™ Plugs



#219 258

For power cable 6-50P (240 V/50 A). Included with machine.



#219 261

For power cable 5-15P (120 V/15 A). Included with machine.



#219 259

For power cable 5-20P (120 V/20 A). Optional, not included with machine.

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	#907 136 017	Includes #907 136 <i>plus</i> X-CASE™, A-150 TIG torch, gas regulator with hose, AK2C accessory kit, and remote fingertip control		
Maxstar® 150 STH (International)	#907 352	120–240 VAC, 50/60 Hz, CE		
Accessories				
X-CASE™ (only)	#300 184	Carrying case for Maxstar 150 STH		
Full KVA Adapter Cord	#300 517	Adapts engine drive 120/240 V plug to Maxstar 240 V plug		
RCCS-6M	#195 184	13.25-ft. (4 m) remote fingertip control		
	#195 503	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	13.25-ft. (4 m) remote foot control		
	#195 504	20-ft. (6 m) remote foot control		
Weldcraft™ A-150 (WP-17) TIG Torch		See page 3		
Air-Cooled TIG Torch Connector	#195 234	Connects the A-125, A-150 and A-80 Weldcraft torches to 25-mm gas thru Dinse-style connector		
MVP™ Plugs				
MVP 240 V 6-50P	#219 258	Used to connect power source to 6-50R receptacle. Included with machine		
MVP 120 V 5-15P	#219 261	Used to connect power source to 5-15R receptacle. Included with machine		
MVP 120 V 5-20P	#219 259	Used to connect power source to 5-20R receptacle. Optional, not included with machine		

Date:

Total Quoted Price:



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