

# 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

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

**Net Weight** 13.7 lb. (6.2 kg)



Allows for any input voltage hookup (115–230 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 115 or 230-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™** start 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 (115 V, 15 A) and 6-50P (230 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 connector
- Work clamp with 10-ft. (3 m) cable and 25-mm Dinse connector
- Miller I Smith 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 115 or 230-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 115 volt—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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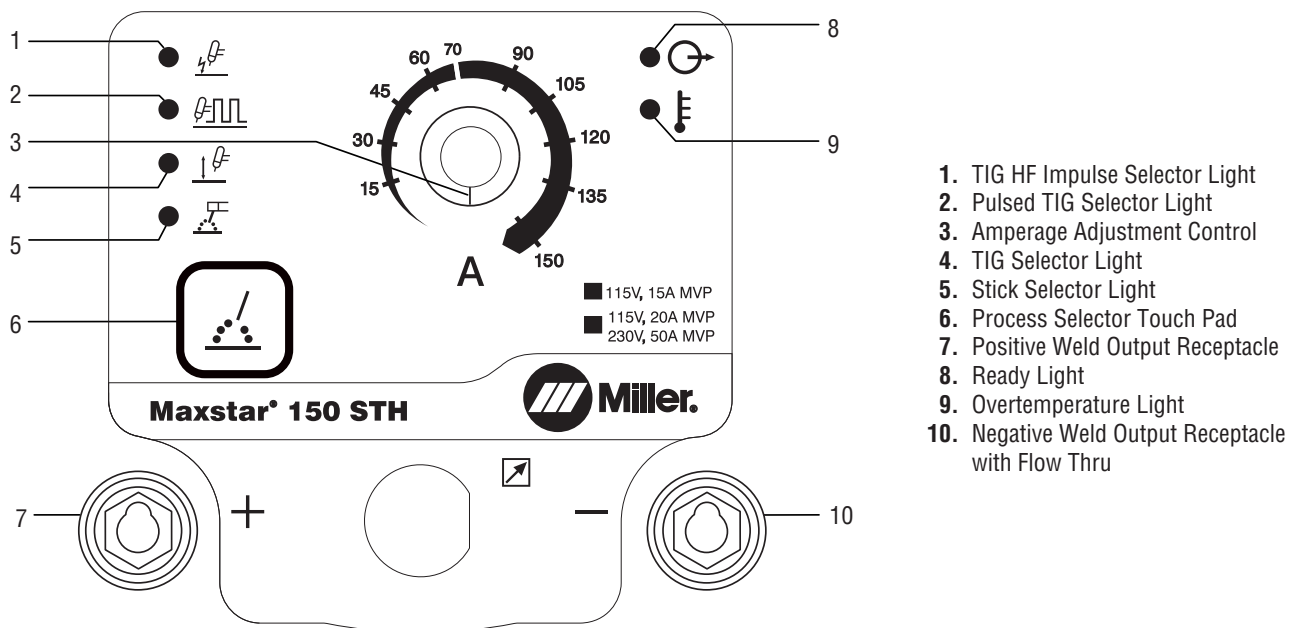
# Specifications (Subject to change without notice.)



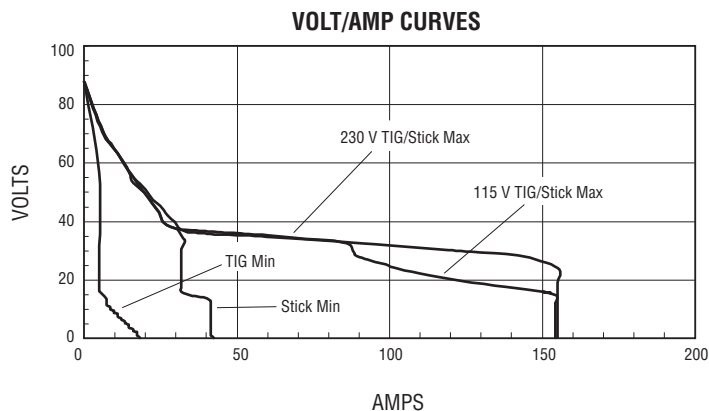
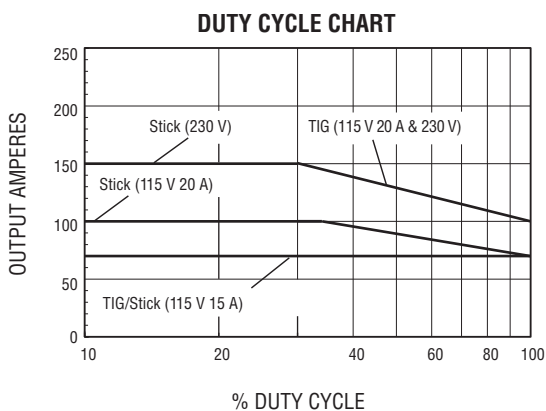
Welding Mode	Input Power	Welding Amperage Range	Rated Welding Output	Amps Input at Rated Output, 50/60 Hz	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
TIG	115 VAC, 15 A	5–100 A	100 A at 14.0 VDC, 100% Duty Cycle	18.4	2.1	2.1	90 VDC, 12–16 VDC*	H: 9 in. (229 mm) W: 5.5 in. (140 mm) D: 13.25 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



## 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 (115 V, 15 A) and 6-50P (230 V, 50 A)
- Stick electrode holder with 13-ft. (4 m) cable and 25-mm Dinse connector
- Work clamp with 10-ft. (3 m) cable and 25-mm Dinse 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 (115 V, 15 A) and 6-50P (230 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 connector
- Work clamp with 10-ft. (3 m) cable and 25-mm Dinse connector
- Miller I Smith 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

**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 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 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 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 (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, not included with machine.

## Ordering Information

Power Source and Options	Stock No.	Description	Qty.	Price
<b>Maxstar® 150 STH Standard Package</b>	<b>#907 136</b>	Maxstar 150 STH with electrode holder, work clamp, and MVP cord and plugs		
<b>Maxstar® 150 STH TIG/Stick Package with Remote Fingertip Control</b>	<b>#907 136 017</b>	Includes #907 136 <i>plus</i> X-CASE™, A-150 TIG torch, gas regulator with hose, AK2C accessory kit, and remote fingertip control		
<b>Maxstar® 150 STH (International)</b>	<b>#907 352</b>	115/230 VAC, 50/60 Hz, CE		
<b>Accessories</b>				
X-CASE™ (only)	<b>#300 184</b>	Carrying case for Maxstar 150 STH		
Adapter Cord, Full KVA	<b>#300 517</b>	Adapts engine drive 120/240 V plug to Maxstar 240 V plug		
RCCS-6M	<b>#195 184</b>	13.25-ft. (4 m) remote fingertip control		
	<b>#195 503</b>	26.5-ft. (8 m), remote fingertip control		
RMS-6M	<b>#195 269</b>	26.5-ft. (8 m) remote on/off control		
RFCS-6M	<b>#195 183</b>	13.25-ft. (4 m) remote foot control		
	<b>#195 504</b>	20-ft. (6 m) remote foot control		
Weldcraft® A-150 (WP-17) TIG Torch		See page 3		
Air-Cooled TIG Torch Connector	<b>#195 234</b>	Connects the A-125, A-150 and A-80 Weldcraft torches to 25-mm gas thru Dinse connector		
<b>MVP™ Plugs</b>				
MVP 230 V 6-50P	<b>#219 258</b>	Used to connect power source to 6-50R receptacle. Included with machine		
MVP 115 V 5-15P	<b>#219 261</b>	Used to connect power source to 5-15R receptacle. Included with machine		
MVP 115 V 5-20P	<b>#219 259</b>	Used to connect power source to 5-20R receptacle. Optional, not included with machine		

Date:

Total Quoted Price:



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