Syncrowave 210 Series Welding Power Source



Quick **Specs**

Light Industrial Applications

Light metal fabrication Maintenance/repair operations Light manufacturing Automotive repair Vocational training Hobbyist

Processes

AC/DC TIG (GTAW) DC stick (SMAW) Pulsed TIG (GTAW-P) MIG (GMAW) Flux-cored (FCAW)

Input Power 120–240 V, 1-phase

Amperage Range 5-210 A

Rated Output 125 A at 15 V, 60% duty cycle

Net Weight Runner package: 133.5 lb. (61 kg)

Runner TIG/MIG Complete package: 139.5 lb. (63 kg)



Easy to use.

- 1. Turn power on.
- 2. Select process: AC TIG, DC TIG, DC stick or MIG (spool gun).
- 3. Set amperage or voltage based on material thickness. Then weld! It's easy as 1,2,3.

Pro-Set™ (TIG) eliminates the guesswork when setting weld parameters. Use Pro-Set when you want the speed, convenience and confidence of preset controls. Simply select the feature and adjust until Pro-Set appears on the display.

AC balance (TIG) control provides adjustable oxide removal which is essential for creating the highest quality aluminum welds.

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

Auto-Set™ (MIG) automatically sets your welder to the proper parameters. Simply set the wire size, material thickness, and shielding gas, and you're ready to weld.

DIG (stick) control allows the arc characteristics to be changed for specific applications and electrodes. Lower the DIG setting for smooth running electrodes like E7018 and increase the DIG setting for stiffer, more penetrating electrodes like E6010.



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.



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



Power source is warranted for three years, parts and labor. Original main power rectifier parts are warranted for five years.

Comes complete with:

- Power source with 10 ft. (3 m) power cord and MVP™ plugs for 120 V and 240 V
- Weldcraft[™] A-150 (WP-17) 12.5 ft. (3.8 m) TIG torch with Dinse-style connector
- RFCS-14 foot control with 20 ft. (6 m) cord (043554)
- Electrode holder with Dinse-style connector
- Work clamp with 12 ft. (3.7 m) cable and Dinse-style connector
- Flow gauge regulator with hose
- Factory-installed running gear with EZ-Change™ low cylinder rack

MIG Complete package adds:

- Spoolmate™ spool gun
- 4-14 pin connector
- Flow-thru Dinse-style connector



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.

Update and expand. Front panel memory card data port provides the ability to easily update software and expand product features. Visit MillerWelds.com/TIGSoftware for the latest software updates and expansions.

Low power draw. Inverter-based power source provides full welding output from 240 volts while drawing less than 30 amps.



Cali

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Specifications (Subject to change without notice.)







Input Power	Welding Process	Welding Amperage Range	Rated Output (R.M.S.)	Amps Input at Rated Output	Max. Open- Circuit Voltage	Dimensions	Net Weight
115 V	DC TIG	5-125 A	95 A at 13.8 V, 60% duty cycle	17.4 (.58)*	47 VDC	H: 31.5 in. (800 mm)	Runner package: 133.5 lb. (61 kg) Runner TIG/MIG Complete package: 139.5 lb. (63 kg)
	AC TIG	5-125 A	90 A at 13.6 V, 60% duty cycle	12.4 (.58)*			
	DC stick	20-90 A	70 A at 22.8 V, 60% duty cycle	20.5 (.58)*]	W: 18.5 in. (470 mm)	
230 V	DC TIG	5-210 A	125 A at 15 V, 60% duty cycle	11.9 (.35)*		D: 43 in. (1092 mm)	
	AC TIG	5-210 A	114 A at 14.6 V, 60% duty cycle	8.62 (.35)*			
	DC stick	20-150 A	90 A at 23.6 V, 60% duty cycle	11.9 (.35)*			

^{*}While idling.

IP23S 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 14 to 104° F (-10 to 40° C). Storage temperature range is -22 to 149° F (-30 to 65° C). Portions of the preceding text are contained in EN 60974-10: "Electromagnetic Compatibility (EMC) product standard for arc welding equipment."

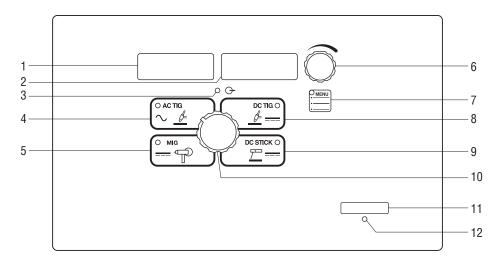


Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

Performance Data

Input	TIG (GTAW)	AC/DC TIG Material	Stick (SMAW)	Stick Electrode	Spool Gun (GMAW)	Spool Gun Material
Power	Duty Cycle	Thickness Range	Duty Cycle	Maximum Diameter	Duty Cycle	Thickness Range
1-phase	210 A, 20% 125 A, 60% 95 A, 100%	.020-1/4 in.	150 A, 20% 90 A, 60% 60 A, 100%	6010: 5/32 in. 6013: 1/8 in. 7018: 1/8 in. 7024: 3/32 in.	170 A, 20% 100 A, 60% 75 A, 100%	24 ga3/8 in.

Control Panel



- 1. Voltmeter Display
- 2. Ammeter Display
- 3. Output Contactor "On" Indicator
- 4. AC TIG Process Menu Parameters

Amperage 5-210 A 60-80% Balance* Frequency* 60-150 Hz Pulse Off-50 PPS

Postflow Auto/Off-50 seconds

5. MIG Process Menu Parameters

Voltage 14.0-22.5 V WFS 0-10

Wire Size** .024/.030/.035 in. Material Thickness** 24 ga.-3/8 in. Process** Flux/Trigas/C25/ C100/4043/5356

Spool Gun** (Spoolmate[™]) 100/150

6. Encoder Control

7. Menu Ranges

8. DC TIG Process Menu Parameters

Amperage 5-210 A Pulse* Off-150 PPS Postflow Auto/Off-50 seconds

9. DC Stick Process Menu Parameters

Amperage 20-150 A DIG* Off-100%

- 10. Process Selector
- 11. Memory Card Port
- 12. Activity Indicator



^{*}Pro-Set parameter selectable.

^{**}Auto-Set input.

Additional Features



EZ-Change™ **Low Cylinder Rack**

Operators no longer need to lift cylinders. Cylinders now easily roll on and off our EZ-Change™ low cylinder rack.



Dual Front Handles

- Split handle with rubber grips designed to move machine easily and provide quick accessibility to work lead and TIG torch.
- Handles provide protection for front panel.



Integrated Storage Compartment and Parameter Chart

Convenient compartment allows for easy storage of cables, foot controls and power cord adapters in the machine.



EZ-Access™ **Consumable Compartment**

Convenient flip-down compartment contains storage for consumables (sold separately).

Genuine Miller® Accessories



Dual EZ-Change™ Low Cylinder Rack with Elevated Gun and Cable Rack 300337

Dual cylinder rack allows operators to easily roll cylinders on and off the rack with no lifting. Gun and cable rack keeps cables off the floor and tangle free.



TIG Torch Accessory Kit AK-150MFC

Allows welding operators to customize their standard Weldcraft™ A-150 (WP-17) TIG

torch for their specific application. Kit converts into 28 different torch styles while using the existing cable. Features nozzles, collets, collet bodies, torch heads, handle and more.



Performance TIG Gloves

263345 X-Sm (Women's) **263346** Small (Women's) **263347** Medium **263348** Large **263349** X-Large Completely unlined, goat grain leather with triple-

padded palm.



Performance MIG Gloves (Unlined)

263335 Medium **263336** Large **263337** X-Large Unlined, dual-padded cow grain palm with goat grain fingers and double-layer insulated back.



the machine.

TIG Memory Cards

Memory Card (Blank) 301080

Used for transferring software updates and

expandable features from your computer to

Spoolmate[™] **100 Consumables**

199730 For .024-inch (0.6 mm) wire.

186419 For .030-inch (0.8 mm) wire. **186406** For .035-inch (0.9 mm) wire.



Nozzle 186405

Spoolmate[™] **150 Consumables**



Contact Tips (5 per package) 199387 For .030-inch (0.8 mm) wire. 199388 For .035-inch (0.9 mm) wire.



Nozzle 050622



pocket. (Not for use with Dual Cylinder Rack or Elevated Gun and Cable Rack.)



Genuine Miller® Accessories (Continued)

Remote Controls



Wireless Remote Foot Control 300429

For remote current and contactor control. Receiver plugs directly into the

14-pin receptacle of Miller machine. 90-foot (27.4 m) operating range.



RFCS-14 HD Foot Control 194744

Maximum flexibility is accomplished with a reconfigurable cord that

can exit the front, back or either side of the pedal. Foot pedal provides remote current and contactor control. Includes 20-foot (6 m) cord and 14-pin plug.



RCC-14 Remote Contactor and Current Control

East/west rotary-motion fingertip control attaches to TIG torch using two hook-and-loop fasteners. Includes 26.5-foot (8 m) control cord and 14-pin plug.



RCCS-14 Remote Contactor and Current Control 043688

North/south rotary-motion fingertip control attaches to TIG torch using two hook-and-loop fasteners. Includes 26.5-foot (8 m) control cord and 14-pin plug.



RHC-14 Hand Control 242211020

Miniature hand control for remote current and contactor control. Dimensions: 4 x 4 x

3.25 inches (102 x 102 x 83 mm). Includes 20-foot (6 m) cord and 14-pin plug.

Educational Materials

To order, please call Miller Literature at 866-931-9732 or visit MillerWelds.com/resources/tools.

Gas Tungsten Arc (TIG) Welding Publication 250833

Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
Syncrowave® 210 Runner	907596	Auto-Line™ 120-240 V, 50/60 Hz		
Syncrowave® 210 Runner TIG/MIG Complete	951684	Auto-Line™ 120-240 V, 50/60 Hz, Spoolmate™ 150		
Accessories				
Dual EZ-Change Low Cylinder Rack	300337	Includes Elevated Gun and Cable Rack		
Elevated Gun and Cable Rack	300335	For use with single cylinder rack		
Protective Cover	195142			
Weldcraft™ A-150 (WP-17) TIG Torch	WP-17-12-MF WP-17-25-MF	12.5 ft. (3.8 m) cable (included with Runner packages) 25 ft. (7.6 m) cable		
Air-Cooled TIG Torch Connector	194722	Connects the A-125, A-150 and A-80 Weldcraft™ torches to 50 mm gas thru Dinse-style connector		
TIG Torch Accessory Kit	AK-150MFC			
TIG Gloves		See page 3		
TIG Memory Cards				
Memory Card (Blank)	301080			
Spool Gun and Consumables				
Spoolmate™ 100 Spool Gun	300371	Includes 12 ft. (3.7 m) cable and custom carrying case		
Spoolmate [™] 150 Spool Gun	301272	Includes 20 ft. (6 m) cable		
Adapter Kit	301254	Includes adapters required to connect Spoolmate to Syncrowave 210		
Contact Tips		See page 3		
Nozzles		See page 3		
Remote Controls				
Wireless Remote Foot Control	300429	Foot control with wireless 90 ft. (27.4 m) operating range		
RFCS-14 HD	194744	Heavy-duty foot control		
RFCS-14	043554	Foot control (included with Runner package)		
RCC-14	151086	Side-to-side (east/west) fingertip control		
RCCS-14	043688	North/south fingertip control		
RHC-14	242211020	Hand control		
Educational Resources				
Gas Tungsten Arc Welding (TIG) Publication	250833			

Date: Total Quoted Price:

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