

# Econotig®

Issued Dec. 2008 • Index No. AD/1.2

Arc Welding  
Power Source 

## Quick Specs

### Light Industrial Applications

Farm  
Ranch  
Hobby

### Processes

TIG (GTAW)  
Stick (SMAW)

### Input Power

1-Phase Power

### Rated Output at 20% Duty Cycle

TIG: 150 A at 15 VDC, 150 A at 15 VAC

Stick: 130 A at 25 VDC, 150 A at 25 VAC

### Amperage Range

	AC High	AC Low	DC
TIG:	50-165	20-50	30-160
Stick:	35-165	20-50	25-130

### Max. Open-Circuit Voltage

78

Weight 140 lb (64 kg)

## The Power of Blue.®

**Upgraded circuitry** gives you finer TIG output adjustment with the remote foot or fingertip control. If you need more output while using the remote control, simply increase the setting of the front panel amperage control.

**AC output for superior aluminum welding and DC output for mild and stainless steel.**

**Four-position polarity and range selector switch** offers two AC current ranges, DC electrode (-) for TIG, and DC electrode (+) for Stick.

**Special arc starting circuitry** eliminates high-frequency starts.

**Built-in arc assist starter** for DC TIG.

**Built-in arc assist stabilizer** for AC TIG on aluminum.

**Process switch** automatically sets machine for TIG or Stick.

**Unique "flow-through" shielding gas TIG torch connection** allows removal of torch without tools.



Just supply Argon gas, stick electrodes, filler rod, gloves and helmet and you are ready to weld!



### Comes Complete With:

- Power source with primary cord (plug provided on 230 V model)
- Weldcraft® Legacy™ Series 1712RD150LGC TIG torch with backcap, ceramic gas cup, 3/32 in (2.4 mm) collet and collet body, and 2% thoriated tungsten
- International-style quick-connect torch
- 12 ft (3.7 m) work cable and clamp
- Stick electrode holder with 15 ft (4.6 m) cable
- RFCS-14 foot-operated remote control with 20 ft (6 m) cord
- Gas regulator, flowmeter and 12-1/2 ft (3.8 m) shielding gas hose
- "How-To" DVD (in English and Spanish)

**Preset automatic postflow timer** protects tungsten tip, workpiece and torch.

**Automatic high temperature shutdown.**

**TRUE BLUE®**  
3YR. WARRANTY

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

MADE IN **USA**  
APPLETON, WI



**Miller Electric Mfg. Co.**  
An Illinois Tool Works Company  
1635 West Spencer Street  
Appleton, WI 54914 USA

**International Headquarters**  
Phone: 920-735-4505  
USA FAX: 920-735-4134  
Canadian FAX: 920-735-4169  
International FAX: 920-735-4125

**Web Site**  
www.MillerWelds.com



# Specifications (Subject to change without notice.)



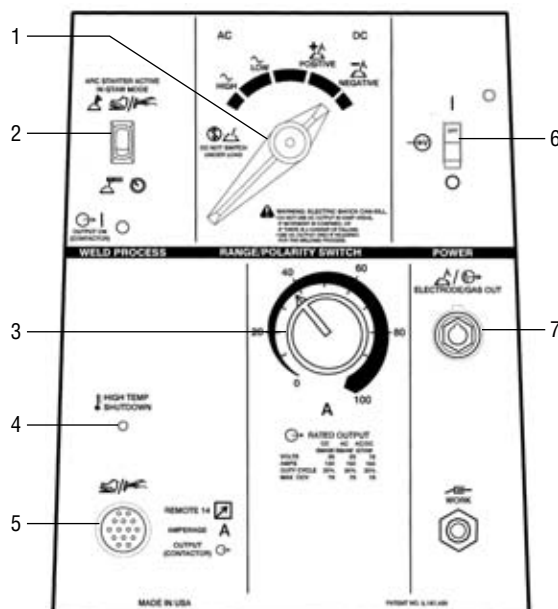
Rated Output at 20% Duty Cycle	Welding Amperage Range			Max. Open-Circuit Voltage	Input Amps at Rated Output	Dimensions	Net Weight
	AC High	AC Low	DC				
TIG: 150 A at 15 VDC 150 A at 15 VAC	TIG Welding Range 50-165	20-50	30-160	78	200 V 60 A 230 V 52 A 460 V 33 A 380 V 39 A 415 V 36 A	H: 18 in (457 mm) W: 13 in (330 mm) D: 25-1/2 in (648 mm)	140 lb (64 kg)
Stick: 130 A at 25 VDC 150 A at 25 VAC	Stick Welding Range 35-165	20-50	25-130				

## Process and Material Thickness Guide

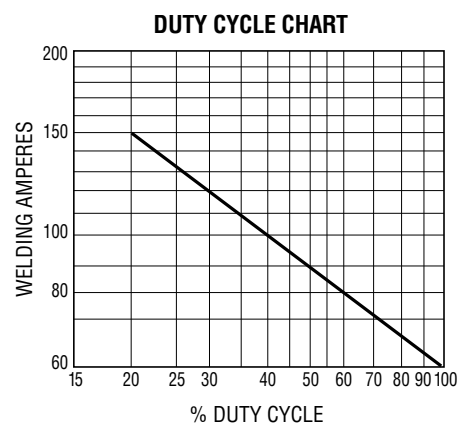
Material and Weld Output	Material Thickness										
	22 ga 0.033 in 0.8 mm	20 ga 0.036 in 0.9 mm	18 ga 0.048 in 1.2 mm	16 ga 0.06 in 1.5 mm	14 ga 0.07 in 1.8 mm	12 ga 0.1 in 2.5 mm	11 ga 0.125 in 3.2 mm	10 ga 0.14 in 3.6 mm	6 ga 0.186 in 4.8 mm	2 ga 0.25 in 6.3 mm	— 0.25+ in 6.3+ mm
Steel or Stainless Steel DCEN Electrode Negative	TIG (GTAW)  Difficult					TIG (GTAW)  Recommended					Stick (SMAW)  With DCEP Output
Aluminum AC	TIG (GTAW)  Difficult					TIG (GTAW)  Recommended					TIG (GTAW)  Not Recommended

## Control Panel

1. Range/Polarity Switch
2. Process Switch
3. Amperage Control
4. High Temp Light
5. Remote Receptacle
6. Power Switch
7. International Flow-Through Receptacle



## Performance Data





### Universal Carrying Cart and Cylinder Rack #042 934

This cart adds convenience to the Econotig package. The power source mounts securely to the top, and a cylinder rack supports the argon cylinder. The bottom tray can hold electrode leads or welding hood, gloves, etc. Cylinder rack will accommodate 6–9 in (152–228 mm) diameter, and 24–56 in (610–1422 mm) high cylinders. The cart also supports five standard TIG filler metal tubes and one Stick welding rod tube. Net shipping weight is 69 lbs (31 kg).



### RCC-14 Remote Contactor and Current Control #151 086

*Comes standard with 50 Hz units.*

A fingertip control can be used instead of the supplied remote foot control. Useful when welding where a foot control cannot be used.

Side-to-side rotary-motion fingertip control fastens to TIG torch using two Velcro® straps. Includes 28 ft (8.5 m) control cord. Great for production or contractors that need quick ramp-up.

### RCCS-14 Remote Contactor and Current Control #043 688

North and South rotary-motion fingertip control fastens to TIG torch using two Velcro® straps. Includes 28 ft (8.5 m) control cord. Great for applications that require a finer amperage control.



### RHC-14 Hand Control #129 340

Miniature hand control for remote current and contactor control. Dimensions: 4 in (102 mm) x 4 in (102 mm) x 3-1/4 in (82 mm). Includes 20 ft (6 m) cord and 14-pin plug.



### RFCS-14 Foot Control #043 554

*Comes standard with 60 Hz units.*

Foot current and contactor control. Includes 20 ft (6 m) cord and 14-pin plug.

## Replacement Torches

*Note: Torches are available through your local welding distributor.*

### 1712RDI50LGC

12 ft (3.7 m), 150 A Weldcraft® Legacy™ Series air-cooled TIG torch.

# Ordering Information

Power Source	Stock No.	Description	Qty.	Price
Econotig®	#903 422	60 Hz, 200 V		
	#903 367	60 Hz, 230 V		
	#903 368	60 Hz, 460 V		
	#903 423	50 Hz, 380 V, CE		
	#902 424	50 Hz, 415 V, CE		
<b>Accessories</b>				
Universal Carrying Cart and Cylinder Rack	#042 934			
RCC-14	#151 086	Fingertip control		
RCCS-14	#043 688	Fingertip control		
RHC-14	#129 340	Hand control		
RFCS-14	#043 554	Foot control		
Replacement Torches		See pg 3		

**Date:** \_\_\_\_\_ **Total Quoted Price:** \_\_\_\_\_

 60 Hz models are certified by Canadian Standards Association to both Canadian and U.S. requirements.

50 Hz models come with RCC-14 fingertip control instead of RFCS-14 foot control, and include 25 ft (7.6 m) TIG torch instead of 12-1/2 ft (3.8 m) model. Gas regulator not included.



Distributed by: