

**WELDARC**  
**MANUAL ARC/TIG WELDERS**



# Great arc starts

SMARTSTART **VRD** TECHNOLOGY

The best of both worlds!  
Easy and reliable arc starting  
plus the safety of VRD.



**Made in Australia**

**[www.welding.com.au](http://www.welding.com.au)**









At WIA, we are serious about product quality.

Every new Weldarc machine comes fully backed by the WIA **Gold Shield 3 Year Warranty**, covering parts and workmanship, so you can be guaranteed you're buying reliability and performance.

Weldarc machines\* are WIA backed, Australian made and supported by an Australia wide local service network giving you peace of mind.

**WIA backed. Australian made. Local support.**



	 	 	 
<b>Weldarc 125i</b>		<b>Weldarc 145i</b>	<b>Weldarc 165i</b>
<b>Input Voltage</b>	240 Vac, Single Phase	240 Vac, Single Phase	240 Vac, Single Phase
<b>Rated Output</b>	125 Amps @ 25 Volts DC, 20% Duty Cycle 110 Amps @ 24.4 Volts DC, 25% Duty Cycle 55 Amps @ 22.2 Volts DC, 100% Duty Cycle	145 Amps @ 25.8 Volts DC, 35% Duty Cycle 85 Amps @ 23.4 Volts DC, 100% Duty Cycle	165 Amps @ 26.5 Volts DC, 40% Duty Cycle 110 Amps @ 24.4 Volts DC, 100% Duty Cycle
<b>Maximum Primary Current</b>	24.5 Amps	28 Amps	32.5 Amps
<b>Effective Primary Current</b>	10 Amps	16.5 Amps	20.5 Amps
<b>Output Current Range</b>	5-125 Amps	5-145 Amps	5-165 Amps
<b>Open Circuit Voltage</b>	10 Volts DC [VRD Safe Condition]	10 Volts DC [VRD Safe Condition]	10 Volts DC [VRD Safe Condition]
<b>Electrodes</b>	2.0mm - 3.2mm	2.0mm - 3.2mm	2.0mm - 4.0mm
<b>Pulse TIG welding</b>	1.5 Hz, 50% ON time [fixed]	1.5 Hz, 50% ON time [fixed]	0.5 Hz - 100 Hz, 10-90% ON time [adjustable]
<b>Dimensions</b>	H:280mm x W:140mm x D:350mm	H:280mm x W:140mm x D:350mm	H:280mm x W:140mm x D:350mm
<b>Weight</b>	7.1kg	7.1kg	7.1kg
<b>Primary plug</b>	Supplied with a 3m, 10 Amp primary lead and plug	Supplied with 3m, 15 Amp primary lead and plug	Supplied with 15 Amp primary plug for initial commissioning only. 20 Amp plug required for full output



## WELDARC 125I

Part No. MC91-0

- 125 Amp arc and TIG welder
- Ideal for mining and industrial sites
- Suits 2-3.2mm electrodes
- 10A 240 VAC supply



## WELDARC 145I

Part No. MC92-0

- 145 Amp arc and TIG welder
- For general purpose welding
- Suits 2-3.2mm electrodes
- 15A 240 VAC supply



## WELDARC 165I

Part No. MC93-0

- 165 Amp arc and TIG welder
- For the welding professional
- Adjustable pulse TIG
- Suits 2-4mm electrodes
- 20A 240 VAC supply\*



\*Shipped with 15 Amp plug fitted for initial commissioning only

SMARTSTART **VRD** TECHNOLOGY

## Great arc starts

The best of both worlds! Easy and reliable arc starting with the safety of VRD.

- Power efficient 'sleep' mode
- Pulse TIG welding
- Cellulose electrode mode
- Arc welding 3m leads included
- Portable generator compatible
- Gold Shield Warranty

**Great versatility in one small package. Ideal for installation and maintenance welders.**

## POWER TO PERFORM



### **Easy to use touch controls**

*Weldarc's four welding modes, stick, cellulose, TIG and Pulse TIG are clearly indicated by LED's on the keypad.*

### **Genuine welding output and reliable arc starting**

Portability for onsite and field maintenance

- Compact design
- Generator compatible
- Suits long extension leads
- Lifting handle and shoulder strap included

### **Designed for a wide range of industries**

- Food and wine industry
- Mine maintenance
- Chemical industry
- Motor sports fabrication
- Shipyards
- Welding contractors
- Rural workshops



Easy arc starts



Pulse TIG welding

### **The Smartstart Advantage**

Electrical safety is something every welder must take seriously.

Smartstart VRD reduces the voltage across the welding leads to a safe level when not welding.

Smartstart VRD technology complies with AS1674, including category "C" conditions.



### Power efficient 'sleep' mode

The efficient Weldarc conserves power and reduces internal dust contamination by shutting down the fan and power components to a low consumption mode during breaks in use.

It automatically wakes when the next arc is initiated.

### Suitable for generator operation

The new Weldarc is tolerant to unconditioned power from generators.

Even the powerful **Weldarc 165i** has been optimised and tested for compatibility with appropriate portable generators.

### Pulse TIG welding

- All models feature pulse TIG Welding
- The **Weldarc 125i and 145i** have an easy to select fixed parameter pulse TIG setting.

### Adjustable pulse TIG

- The **Weldarc 165i** has adjustable pulse frequency and pulse width to achieve a professional finish.

### Overload protection

Weldarc machines are protected from overload conditions and key components are constantly monitored for temperature rise.

### Hot start for manual arc

Built-in 'hot start' feature in Manual arc mode for even better arc starting.

### Lift arc TIG start

Easy to use lift arc starting for TIG welding. Eliminates scratch starting and tungsten electrode damage.

### EMC Compliance

The Weldarc machines have been tested and certified to be fully compliant with Australian Standards for EMC.



## Auto-Darkening Welding Helmets

### Elite™ Series

- 30% larger viewing area than our standard lens for maximum viewing capacity.
- Variable welding shades 9 to 13.
- Lens technology responds to extremely low-amperage TIG arcs (5 amps and below), including DC inverter TIG.
- Battery-powered (replaceable), with solar-assist or exceptionally long life (3,000 hours on MIG), no charging required!
- Excellent magnifying lens holding system holds magnifying lens securely in place while allowing for vertical adjustment.
- Four independent arc sensors provide continuous arc-sensing capability for your most demanding applications - highly recommended for low amperage TIG! Lens darkening reaction time is 1/20,000 sec.
- Lightweight polyamide nylon shell for excellent durability.
- 18 month warranty.

**SERIOUS PROTECTION**  
WITH *attitude*

- Comfortable fully adjustable ratchet style headgear with odour absorbing headband and comfort cushion.
- Standards ANSI z8.1/DIN/TUV/CE.
- Helmet bag included. Features draw string closure, ultra-soft inside liner and convenient exterior storage pouch for gloves and glasses.



Roadster  
P/N 224870



Red Flame  
P/N 216323



Black  
P/N 216322



For more information on the full range of Miller Auto-darkening helmets visit [www.welding.com.au](http://www.welding.com.au)

Available from:

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**Contact us:**

Phone: 1300 300 884

Visit: [www.welding.com.au](http://www.welding.com.au)

*At WIA we are constantly improving our products and reserve the right to change design and/or specification without*

Made in Australia by  
**Welding Industries of Australia**  
ABN 18 004 547 111



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