

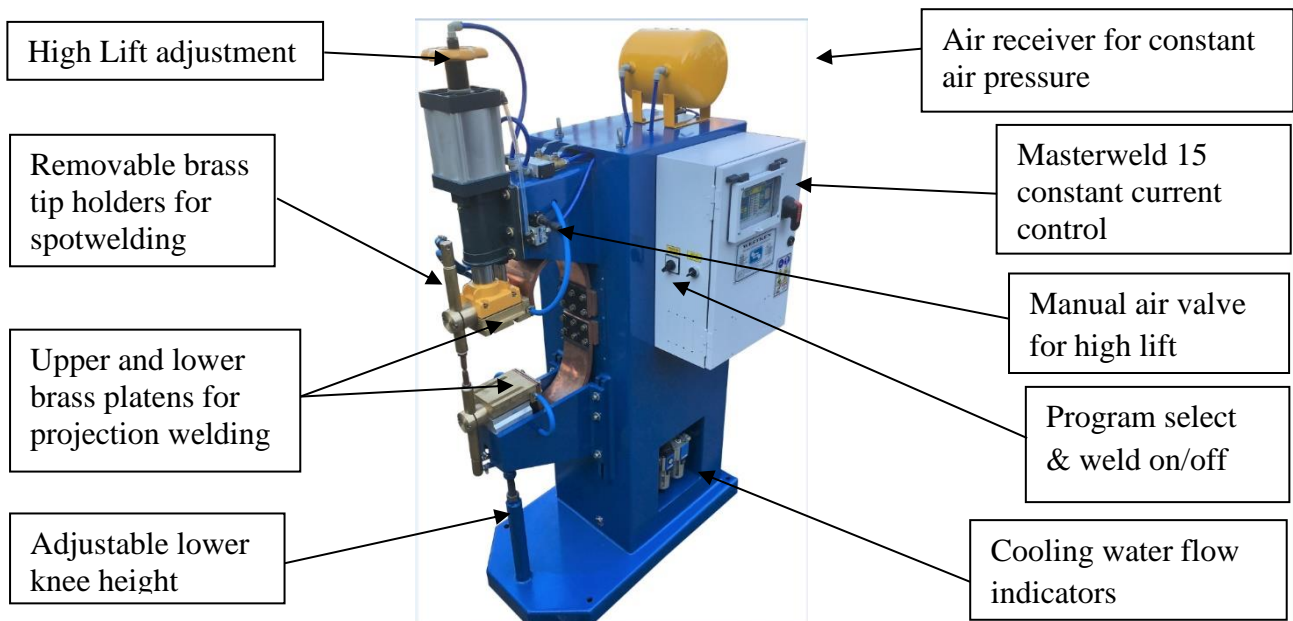


## **“ECONOAIR” 150KVA** **AIR OPERATED SPOT/PROJECTION WELDER**

The machine we offer you is part of our “Econo” range of products. This machine is our 150kva “EconoAir” and is based on the following basic specification.

*The machine can be viewed on our [YouTube page](#).*

“EconoAir 150kva” EA-150, 380v @ 50 Hz, 150kva rated at 20% duty cycle with high lift function. Maximum tip pressure 610kg, maximum stroke 60mm, 25L air receiver, capable of welding 4.0mm + 4.0mm cold rolled sheet. Short circuit current is approximately 32000Amps. 120mm x 150mm Brass platen for projection welding. The machine is water cooled needing a minimum of 20L/min flow. “Masterweld” 15 program control switching water cooled thyristor system. Water cooled transformer. Flexible laminated shunts, 32mmdia brass tip holders & water flow indicators fitted standard. Foot print 490mm x 1020mm x 1580mm



### **ELECTRICAL AND CONTROL SYSTEM:**

Machines come standard fitted with solid-state “Masterweld” programmable digital timer control with weld on/off and an eight program rotary select switch. The timing system is a fifteen program, six channel digital device

Thyristor units are water-cooled semi-pack 140 Amp with thermo protection mounted into a service exchange firing package. Power board consists of the incoming 380/400-Volt power bolts, thyristor pack, trigger module, spike suppression resistor and the 110 & 24 Volt step-down transformer all protected by a poly carbonate transparent cover.



The welder has dual hand start switches and single foot switch start with a lock out selector switch for either hand or foot start.

An 80amp rotary cam isolator switch with lockout facility mounted within its own safety enclosure inside the machine is operated through a cutout in the door.

The machine is fitted with a water-cooled transformer fully encapsulated with thermostat protection. The transformer output (max 14500amps) is adjusted by the timer control system which has stepless adjustment from 10 percent to 100 percent.

### **SYSTEM SPECIFICATIONS:**

- 380v @ 50 Hz, 150kva rated at 20% duty cycle with high lift function.
- Maximum tip pressure 610kg, maximum stroke 60mm
- 25L Air Receiver
- Welding Capacity 3.5mm + 3.5mm cold rolled mild steel.
- Short circuit current is approximately 32000Amps.
- 120mm x 150mm Brass platen for projection welding.
- The machine is water cooled needing a minimum of 20L/min flow.  
**Please note\* the cooling unit is sold separately.**
- "Masterweld" 15 program control switching water cooled thyristor system.
- Water cooled transformer.
- Flexible laminated shunts, 32mmdia brass tip holders & water flow indicators fitted standard.
- Foot print 650mm x 1020mm x 1580mm

### **GENERAL DISCLAIMERS:**

West Kennett Corporation is not liable for damages resulting from, or attributable to the non-compliance of the user of the procedures and recommendations in this manual. Failure to observe these instructions may cause serious injury or death and may result in the warranty being declared null and void.

Read and understand the entire contents of this user manual, with special emphasis on the safety instructions and procedures throughout the user manual, before installing, operating, or maintaining this equipment. This machine and user manual is for use only by persons trained and experienced in the safe operation of welding equipment. Do not allow unqualified persons to install, operate, or maintain this machine. Contact your distributor if you do not fully understand this user manual. Wear safety clothing and always use safety equipment.



*If you are not sure, please phone and ask, we will help.*

West Kennett Corporation retains the right to modify, improve, and upgrade our products at any time without prior notice due to ongoing improvements of our products and services.

*And finally,*

This is another in a set of documents that hopefully will help you understand the equipment better. There will be a more in-depth study of the timer, air system, cooling system and how and why a weld takes place.

Look on our website [www.westken.co.za](http://www.westken.co.za) for the following:

- 1) Introduction to set-up of Westken spotwelding timers for newcomers & others.
- 2) Cooling water for welding machines.
- 3) Explanation of clever words & terms concerning Resistance welding & timer systems.
- 4) Introduction to Spotwelding for newcomers and others.
- 5) Introduction & a basic explanation to Timer control systems.
- 6) Manuals for other machines in our range of equipment.

If you have any questions concerning the above or others question concerning resistance welding, please do not hesitate to contact one of our really clever people at **Westken**. Try the following people who might be able to give a helping hand or some good advice. Remember they do it almost every day, I am talking resistance welding.

**Really technical stuff** concerning the mechanical and electrical layout and workings of the machines:

..... Mr. Stuart Dorling.

[tech@westken.co.za](mailto:tech@westken.co.za)

**Stuff concerned with machining** the copper, brass, soldered type electrodes etc and the setup manufacturing or usage of machinery.

..... Mr. Jaco Truter.

[info@westken.co.za](mailto:info@westken.co.za)

**When you can get stuff** and how much stuff costs

..... Ms. Laroshelle Pryor

[admin@westken.co.za](mailto:admin@westken.co.za)

