



RF Welding Machines = = Modern Actuators

The RF welding machines had wrong reputation for wrong raisons :

- * Maintenance of RF Oscillators is difficult, I have no reliable supplier
- * Spare Parts are undiscoverable, I had to take off spare parts on other machines
- * RF radiations disturb computers and automations all around welding machines
- * It is impossible to reliable and automate the making process



Now, RF Welding becomes Modern

The Welding ERL.HF have an automaton with tactil display and all functions of modern machines :

- * Moving Down of Press : is stopped several mm above table. This stop point gives a safety function because fingers can not be crushed.
- This step by step moving down (or moving up) makes easy positionning of tarpaulins before the welding.
- * Specific Shape Electrodes : ring, star, eyelets, under standard linear electrode without changing the setting of high for position detection.
- * Parameters Memorization : Welding time, Cooling time, Servo-Motor for Variable Capacitor Position for each product and for each electrode. Any operator can begin a production without training.
- * Operating Accounts : Production record (ON/OFF, product, quality, productivity), Defaults record, Maintenance record, accesible on tactil Display.
- * Welding and Cutting : Thanks to accurate hydraulic move down, the blister can be decorticating on same Press. That avoids second press, tools and sliding.

Improvements of generator ERL.HF :

- * The Quality "Q" factor of generator is excellent. You can weld electrode Lengths 100mm up to 700mm without changing Settings. Generator and Triode with high Amplification Factor follow automatically the charge without changing Variable Capacitor neither Frequency. Consequently, it is possible to change product or tools without changing also settings.
- * Radiation is very light thanks to pure aluminium Frame, double bulk, Covers..... You can plant a computer, a printer, a robot near the welding head. For instance we can place an inkjet printer just after the welding.
- * Ultrafast Antiflash : to protect expansive tools (Welding & Cutting) even without insulating barrier material.
- * Fast Servomotor : on Variable Capacitor in order to change resonance for each welding.
- * Standardisation of generators and spare parts guarantees long life and availability of machines. In addition, we propose trainings and measurement apparatus for repairing RF generators with electrician workers.

==> Astonishing Results concerning Quality, Productivity and Automatisation.

- * Welding is always good whatever the difficulty : electrode, ply, thickness, material, temperature
- * Saving 50% on workforce because it is useless setting all parameters each time we change electrode or product.
- * Quality ==> New customers : A lot of workshop use again RF Welding Machines though they avoided it because their machines were too old. Our Customers win new markets thanks to quality and reliability of our RF welding.

