

# RESISTANCE WELDING

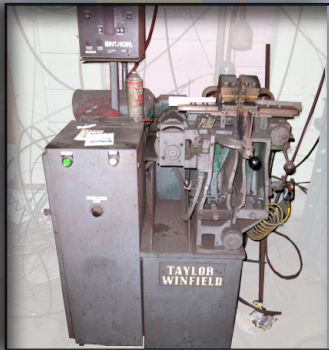
## Welder Rebuild & Re-Purpose Program

• **RESTORE TO NEW** •

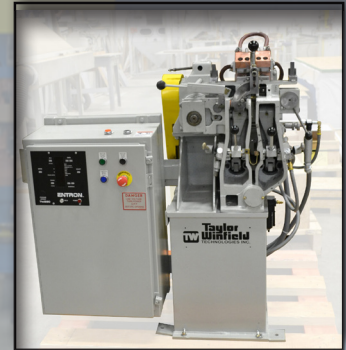


**T**aylor-Winfield offers a unique rebuild and re-purpose service to restore any T-W or other manufactures Resistance Welder or Automated Assembly System to like new condition. T-W's team of experts can restore or re-purpose your existing machine to meet the demands of today's manufacturing needs.

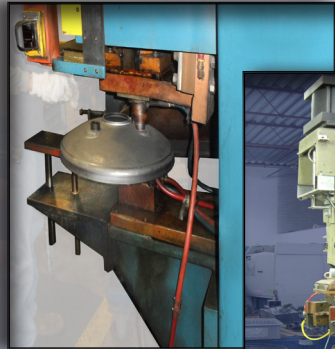
**BEFORE**



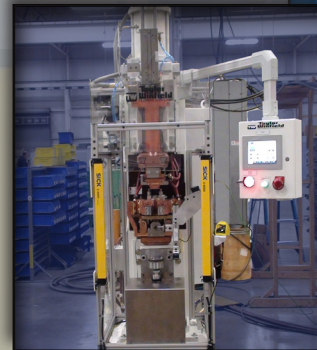
**AFTER**



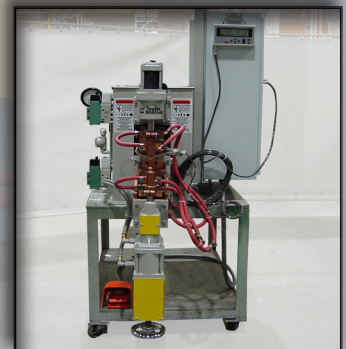
**FLASH**



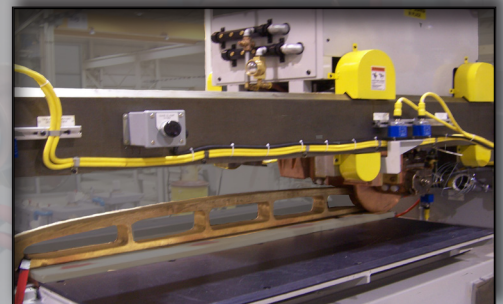
**PRESS**



**SPOT**



**SEAM**





## TYPICAL REBUILD SCOPE OF WORK

### **MACHINE INSPECTION, TEAR-DOWN, CLEANING & REPAINTING**

Once we receive your welder, the machine is inspected and disassembled. The frame is thoroughly cleaned or sandblasted and painted to new condition.

### **PNEUMATIC SYSTEM**

The weld cylinder is dismantled and inspected for wear. All cylinder components are replaced including seals, O-rings and diaphragm cushions. All air accessories are replaced including air filters, regulators, lubricators, valves, gauges, hoses and flow controls. The weld cylinder is tested before re-installation on the welder.

### **COOLING SYSTEM**

All water components are removed and inspected including water flow manifolds, brass fittings, flow controls, flow switches and hoses.

### **SECONDARY**

All copper secondary components are inspected and resurfaced as required. Connection points to weld transformer are silver plated. Moveable copper bands are replaced.

### **WELD RAM**

On Press Type Welders, the moveable ram, cam followers and knee are inspected and resurfaced where necessary. On Rocker Arm styles welders, the wear bushings are inspected and replaced as necessary.

### **WELD TRANSFORMER**

Weld transformer is electrically tested per original manufacture specifications. Primary and secondary testing along with short circuit maximum current output tests are completed. Water flow is tested.

### **WELDER RE-ASSEMBLY**

The weld cylinder, transformer, secondary, ram, knee and all air/water accessories are mounted and wired ready for final test.

### **FINAL TEST**

Mechanical system is tested to assure free movement of the air cylinder and ram stroke. Water flow through the weld transformer, secondary, weld control and electrodes is verified. Power is connected to the electrical system to and weld control function is verified. Timing functions are performed on the weld control with calibrated instrumentation. Weld current output is verified and sample coupon welding is completed.

### **SEAM WELDER REBUILD**

All procedures performed above are duplicated on seam welders with the addition of rebuilding the current carrying weld heads. This includes disassembly, inspection and replacement of weld shafts, bearings, bushings, insulation and weld wheels. Drive unit is electrically tested and driveshaft is mechanically tested.

### **REBUILD OPTIONS**

1. New AC or DC Weld Control with diagnostic & safety features
2. Upgrade to MFDC Power Supply and Weld Control
3. New Tooling & Fixturing for New Part Production
4. Upgraded Automation and Material Handling
5. Inclusion of new features per customers request

*"Our Customer's Success is Our Success"*

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