



MICRO PRODUCTS CO.



TECHNOLOGY & SAFETY UPGRADE PACKAGE

- **UPGRADE TO LOW VOLTAGE CONTROL CIRCUIT** - This enhancement changes the control voltage present in the cabinet to a much safer 24 Volts. A qualified technician may choose to override the interlock for troubleshooting purposes, but the lower control circuit voltage offers added protection from possible injury. This is technology incorporated in our current product.
- **UPGRADE TO INTERLOCKED ACCESS PANEL** - This enhancement prohibits the inadvertent operation of the machine with the access panel opened or removed. Once the interlock is opened, the mains contactor will disconnect power to the entire machine, nearly eliminating any shock hazard. This is technology incorporated in our current product.
- **UPGRADE TO ELECTRIC FOOT PEDALS** - This upgrade replaces the current, detented treadle valves which stay in the position and require deliberate action to reverse the motion of the clamp arms. In the event of a possible injury situation, the operator would have to locate and activate the valve in the opposite direction to reverse the motion of the clamps. With the enhanced design that utilizes electric pedals, the switches are momentary and allow the operator to immediately reverse the clamp motion by removing their foot from the pedal, which is far more intuitive. All of our current foot pedal operated machines utilize this feature.
- **UPGRADE TO FLOW RESTRICTION DEVICES** - The flow control valves provided on older machines were adjustable and were tuned in the factory to close the clamps at a slow, controlled speed. Despite warning labels affixed to the machine, we have witnessed numerous occasions where the operators had intentionally increased the speed of the clamping. The upgrade to fixed flow restriction devices eliminates the possibility of the operator increasing the clamp speed and motion occurring too quickly for the operator to react.
- **INSTALLATION OF CLAMP GUARDS** - Fixed guarding is provided to reduce the possibility of casual placement of hands or fingers in the clamping zone. While the stock may still be inserted into the clamp jaws, it is now more difficult to allow the operators hands into the area where clamping occurs. Should the operator place hands or fingers in this hazardous area during clamping, the enhanced safety from the combination of the fixed flow control valve and the momentary action of the electric foot pedals are secondary measures. The guards are painted safety yellow and black/yellow striped hazard tape is affixed to the guards to indicate a potentially hazardous area.
- **TOUCHSAFE COVERS FOR COMPONENTS ABOVE 24 VOLTS** - The electrical components in the machine are fitted with covers that prevent casual contact with terminals/connections with higher voltages, but also possess small access holes to allow the use of probes during troubleshooting.
- **ADDITION OF EMERGENCY STOP (E-STOP) BUTTONS** - The machine will also be upgraded to incorporate an E-stop button which simultaneously shuts down mains power in the circuit, terminates welding, opens the upset, opens the clamp arms and returns the machine to the pre-weld state.

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