



Single Station Brazing Machine Specifications

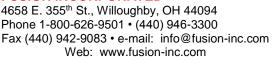
- □ **Assembly:** Pretinned nickel lamination stack to stainless tip.
- □ **Induction Heat:** Ambrell 4.2 kW induction power unit with coil; includes water circulator.
- □ **Flux:** Fusion DAF-1Z, dispensable, corrosive, must be removed after brazing.
- Production Rate: 60 parts per hour, one operator (Heat time: 12 seconds)
- Dimensions: 36" X 48" aluminum extrusion frame. Induction control mounted under frame; water circulator positioned nearby.
- Utilities: Electrical (220 VAC, 1PH) 30 amp, Control voltage 24VDC, Compressed air (5 CFM)
- PLC: Allen Bradley CompactLogix 1500 with Panel View Plus 600 operator interface.
- Safety Features: Perimeter guarding on three sides of machine with safety interlocks on doors. Rigid mesh screen moves into position before heating cycle begins. Vent hood for fume extraction.

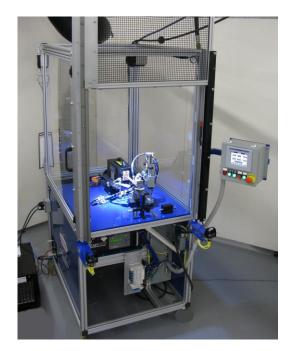
Sequence:

- 1. Operator loads pretinned (silver ball brazed) stack into the lower fixture gripper.
- 2. Operator dips end of stainless tip into jar of Fusion DAF-1Z Flux, then loads it into upper fixture gripper.
- 3. Operator pushes fixture into machine where a shotpin holds it in position.
- 4. With safety gate down, the tip is lowered to meet the stack, followed by the induction coil moving into position and heating the assembly to brazing temperature.
- 5. Air cooling solidifies the braze joint, the tip and stack clamps open, ejecting the brazed assembly down a chute.



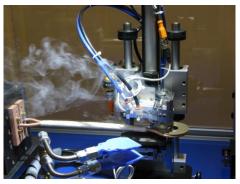
FUSION INCORPORATED







Compact brazing work station mounted within 30"x36" space.



Induction workhead remelts pretinned silver brazing filler metal, completing the joint.