

Robot Dispensing Machine Specifications

- **Assembly:** Heat transfer tubes to two housings.
- **Robot:** Epson G6 Scara
- **Production Rate:** 40 braze paste deposits in 40 seconds; 0.05 grams per joint.
- **Dimensions:** 48" W x 36"D x 72"H
- **Utilities:** Electrical, 220/1/60, Control voltage 24VDC, Compressed Air ¼ NPT, 60 psi.
- **Control:** Epson RC50 Controller

Sequence/Special Features:

1. Pallet system locates assembly in pasting station.
2. Robot dispenses nickel brazing paste to all 40 joints.
3. Pallet system transfers pasted assembly to unload point.
4. Operator unloads pasted assembly into heating furnace carts.
5. Robot continually monitors and tracks the pasting cycle to allow safe recovery following a machine EStop or shutdown. This is ideal since many paste locations are located deep inside the tube configuration. After machine resets, the robot safely homes itself and pasting continues where it left off.
6. A clear memory button resets the machine if part is removed following a machine EStop.
7. If robot sits idle for a time period, it automatically purges paste through dispenser and into catch bin before initiating paste sequence.
8. Calibration routine allows robot to dispense (10) identical paste deposits onto a 3"x 5" index card to determine average paste weight.
9. Paste deposit size adjustments made by pressure, gun stroke and a timer settable through robot teach pendant.
10. Sensor monitors paste reservoir level.



40 paste deposits applied accurately to intricate tube configuration

