

**APPLICATION SOLUTION: Process Controls-Electronic Boards**

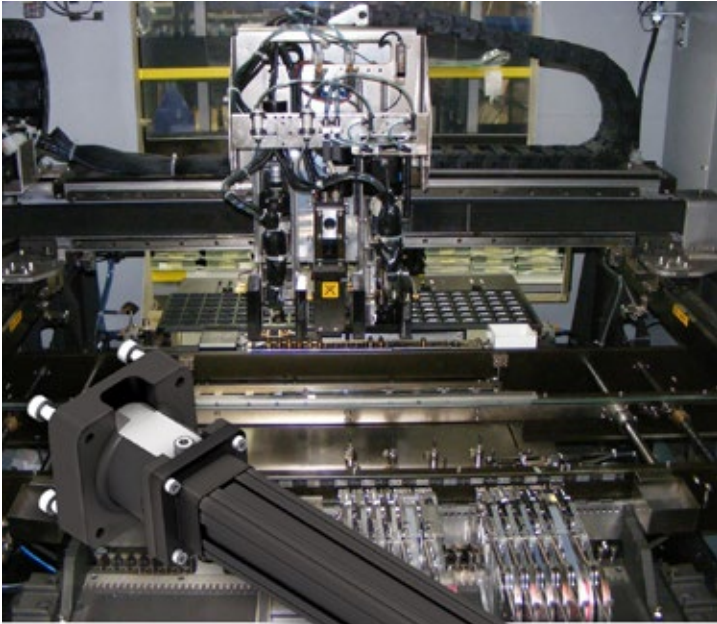


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**Product Family:** Electric  
**Product Used:** RSA16 Rod Style Screw Drive Actuator  
**Product Type:** Standard

**Application Requirements**

**Stroke:** 14 in  
**Speed:** 0.25mm / sec  
**Load:** 120 lbs  
**Motion Profile:** Constant velocity

**Application Description:**

Electronic boards for solar panel industry .

**Challenge:**

Quality control identified improper soldering and insulation of components due to inconsistent dispensing of glue/solder paste material. The dispensing system relied on pneumatic cylinders to supply consistent force to apply the material. However, compressed air provided inconsistent force and unacceptable material dispensing; this in turn lead to improper soldering and poor insulation on components.

**Tolomatic Solution:**

The Tolomatic RSA16 electric screw drive rod actuator was specified to replace the pneumatic cylinder pushed the piston dispensing the glue/solder paste from the cartridge. The updated system with the RSA16 provided consistent force and instantaneous feedback to insure the proper rate of material dispensing. The result was a 99% reduction in failure of the electronic components manufactured using this process.

**Customer Benefit:**

- Total solution provides consistent glue/solder paste material output
- Virtually eliminated failure of solder joints
- Eliminated insulation problems