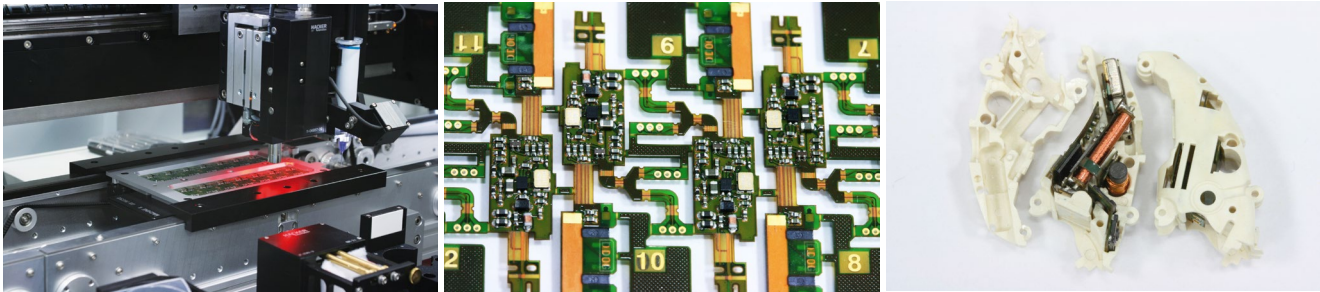




Automated Hearing Aid Production

Process Requirements:



- Cleanroom production
- Assembly and electrical contacting of coils and battery contacts with special designs
- Heat sensitivity of the microphones
- Laser module with an adjustable spot size of at least 0.3 mm required
- Selective sealing of the circuit board with protective lacquer

Example - Automated Line Production: Process Steps per Machine

Machine 1: Component feeding, dispensing, assembly, and pre-activation

Feeding of microphones, dispensing of adhesive, assembly, and pre-activation.

Machine 2: Component feeding, dispensing and assembly

Feeding of coil and battery contacts, dispensing of adhesive and assembly

Machine 3: Solder paste application, laser soldering 1

Applying solder paste and laser soldering microphones

Machine 4: Solder paste application, laser soldering 2

Applying solder paste and laser soldering microphones

Machine 5. Conformal coating, UV curing

Conformal coating of the entire circuit excluding areas to be left free with UV-curing varnish and subsequent uv-curing

Maschine 6: Conformal Coating, UV curing

Conformal coating of the entire circuit excluding areas to be left free with UV-curing varnish and subsequent uv-curing

