



## Series testing

Testing and repair in electronic series production

Your sophisticated product deserves our extensive appraisal.

We have all common standard test methods at our disposal and additionally undertake the development and construction of specific test systems. With the expertise of our employees and state-of-the-art technology, we ensure and document the excellent quality of the manufactured products.

### Technological monitoring

All manufacturing processes are subject to technological monitoring. We manufacture in accordance with the IPC-A-610 standard (acceptance criteria for electronic assemblies) and test in accordance with DIN ISO 2859 (sampling standard). Already in the manufacturing process, we ensure continuous quality monitoring independent of production by combining mechanical and manual testing steps according to the four-eyes principle. Traceability enables us to assign the corresponding goods receipts of the components contained in each production order.

Test steps such as automatic setup control, manual control of paste printing, acceptance of the first assembled PCB, functional testing with special test adapters and, of course, self-monitoring by the employees accompany the creation process of your product.

### Your advantages at a glance

- Quality through highly qualified employees and all common test methods
- in-house development and production of customized test systems
- In-house development
- cooperation with research institutes for innovative tests
- continuous quality assurance in the manufacturing process
- our longstanding and cross-industry experience



## Our testing program

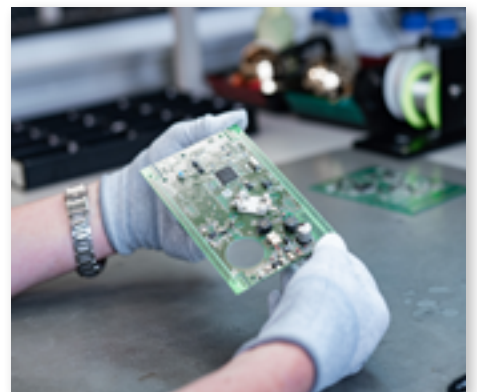
### Unit testing

- Automatic Optical Inspection (AOI)
- Flying Probe Test
- electrical function test and in-circuit test (ICT)
- Boundary Scan
- RF tests
- Safety tests (high voltage tests, AC and DC tests according to DIN VDE 701/702)
- active and passive climate tests
- Endurance tests



### Inspection

- high-precision mechanical measurement with video and optical measuring microscope
- in two axes
- Quality assurance of the inspections by microscopic examinations at the
- PC-supported inspection measuring station
- thermographic examinations



### Special tests

We go even further and cooperate for you innovative testing methods such as

- X-ray analysis
- Ultrasound analysis
- X-ray tomography
- Vibration testing

### Rework

We assess your assemblies and determine a suitable repair technology:

- partial heating with individual soldering profile
- gentle desoldering of the components
- µm-accurate placement of new components under camera control
- soldering with individual profile



Do you have particularly high requirements for individual test software and hardware? Our team in the Test Systems department develops and designs specific solutions.

We also take over the series programming of flashes, GALs, controllers, CPLDs, FPGAs and EPROMs for you.



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