

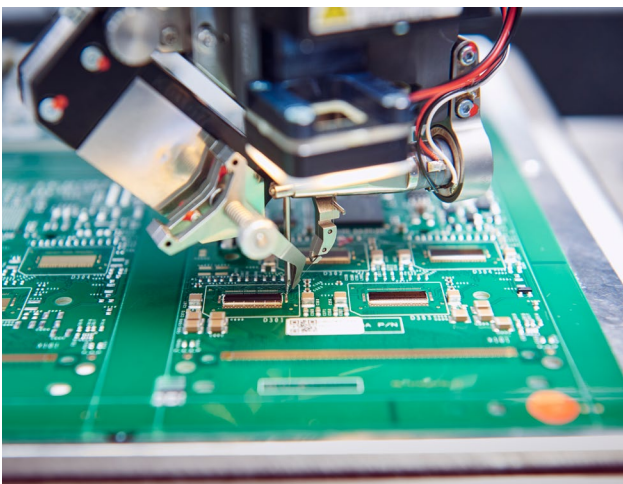


Radeberg, Germany

Production site for hybrid circuits and microelectronic assembly

The Cicor site in Radeberg (RHe Microsystems GmbH) is specialized in the production of complex substrates in thick-film technology as well as microelectronic assembly on ceramics or PCBs. Its core industries are aerospace and defence, medical and demanding industrial applications. The site's range of services includes development support, prototype construction, serial production and industry-specific product qualifications. The testing stations for functional tests in

series production are developed and set up internally. This approach ensures that even the most demanding quality requirements are met. The production site has 1'300 m² of clean rooms up to ISO class 5 (class 100). Various encapsulation processes up to hermetic housings complete the capabilities of the production site.





Competencies and services

Development

- Feasibility studies
- Qualification of components and products
- Redesign and obsolescence management
- PCB and thick film layout
- Support in product development
- Optimization of manufacturing processes
- Development of customer-specific test equipment
- Project management

Thick-film substrates

- Processing of ceramic, steel or glass substrates
- Screen printing of conductive pastes and resistor pastes
- Structure resolution down to 80 µm line/space
- Solderable and bondable surface finalization
- Active and passive resistance adjustment with laser

Microelectronic assembly

- Processing of thick / thin film substrates and printed circuit boards
- Traceability of all assembled components
- Solder paste inspection (SPI) and component inspection (AOI)
- Assembly of SMD components from 01005
- COB or flip chip from wafer or waffle pack
- Reflow soldering and vacuum soldering
- Processing of lead-free and lead-containing solders
- Bonding with insulating and conductive adhesives
- Ball/wedge and wedge/wedge wire bonding 12.5 µm to 500 µm
- Ribbon bonding
- Glob top, potting and hermetic encapsulation
- Laser structuring
- Laser marking

Testing and inspection

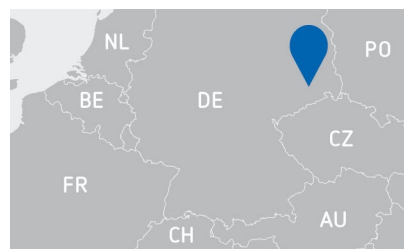
- Flying probe
- Temperature cycling test
- Moisture test
- Burn-in
- Acceleration and vibration test
- Leakage
- X-ray
- In-circuit
- Electrical test
- Endurance test

Markets

-  Industrial
-  Medical
-  Aerospace and defence
-  Wearables

Certifications

- ISO 9001 Quality
- ISO 13485 Medical
- EN 9100 Aerospace
- KTA 1401 Nuclear power plants
- ISO 14001 Environment



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The Cicor Group is a globally active provider of full-cycle electronic solutions from research and development to manufacturing and supply chain management. Cicor's approximately 2500 employees at 15 locations worldwide are serving leaders from the medical, industrial and aerospace & defence industries. Cicor creates value to its customers through the combination of customer-specific development solutions, high-tech components, as well as electronic device manufacturing.



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