



**ELECTRONICS FROM
THE SPECIALIST –
FROM CONCEPT
TO SHIPPING**

E²MS
BEST-IN-CLASS

 **MADE IN
GERMANY**





PROTOTYPES

FAST & RELIABLE

Flexible prototype production

Whether it's a single piece or a small series, R&D Elektronik creates prototypes to the usual high standard, often within 48 hours upon request. We understand the importance of initial functional prototypes for the development process. We manufacture flexibly according to your requirements, with or without you providing the materials. This enables you to quickly obtain meaningful results and efficiently transition your ideas to series production.



PRINTED CIRCUIT BOARDS

FROM PROTOTYPE TO
SERIES PRODUCTION

Precision for every assembly

We offer the full range of printed circuit board manufacturing services, including SMD, THR and THT assembly, press-fit technology, coating and potting. Our modern equipment, experienced specialists and climate-controlled, ESD-compliant production facilities ensure the highest quality, from prototypes to series production. Depending on the requirements, we combine automated processes with manual precision to create assemblies that are optimally protected from environmental influences and built to last.

A background image showing a person's hands working on a green printed circuit board (PCB) in a laboratory or workshop. The person is using tweezers to place a component on the board. In the background, there is a piece of electronic equipment with knobs and cables. The overall scene is brightly lit and focused on the hands and the PCB.

DEVELOPMENT

EXPERIENCE & INNOVATION

Systematic development and experience

With over 50 years' experience within the corporate group, R&D Elektronik develops assemblies, devices and systems, taking projects from idea to finished product. project phases. This includes hardware, software and circuit board design, as well as the redesign of existing products or manufacturing optimisation: We combine technical expertise with a strong partner network to deliver functional, test-optimised, high-quality solutions.



ASSEMBLY

EVERYTHING FROM ONE SOURCE

Custom assembly and box building

R&D Elektronik handles the complete assembly of modules, systems, and devices, including mechanics, electrics, electronics, and pneumatics, from individual samples to series production. Testing and quality control are naturally integrated. Thanks to flexible production runs, global procurement and an interdisciplinary team, we can provide customised solutions, even when documentation is missing or capacity is limited.



TESTING & INSPECTION

FOR MAXIMUM SAFETY

Testing & Inspection for the highest quality

R&D Elektronik develops customised testing concepts to ensure maximum quality and durability, from prototype to series production. In addition to optical and electrical tests, we carry out specialised tests such as in-circuit, flying probe and EMC tests. We also offer our services for external products, regardless of the manufacturer, during development or for finished assemblies.



CONSTRUCTION

CUSTOM-MADE PRECISION



Design of housings, cables, and mechanical components

R&D Elektronik develops customised housings, device carriers and cable harnesses that are precisely tailored to your electronics and requirements. We offer everything from design and tool procurement to finished production from a single source, in compliance with standards and RoHS. Close collaboration between our departments results in robust, high-quality solutions with maximum process reliability.



SPARE PARTS

RELIABLE SUPPLY

Effective spare parts management reduces risk

R&D Elektronik's sophisticated spare parts management ensures that your products remain available in the long term. We monitor component discontinuations and offer safety and spare parts stocks, as well as reverse engineering. This way, we secure your supply and minimise the risk of failure, reliably and with a view to the future.



REPAIR SERVICE

TRANSPARENT & EFFICIENT

Repair service for components and devices

R&D Elektronik repairs electronic components, modules, devices and systems, regardless of the manufacturer — even those of other brands. We handle the entire process from fault diagnosis to functional testing and ensure complete transparency with detailed repair reports. Upon request, we can also handle material procurement, spare parts storage and worldwide shipping. We prioritise cost-effectiveness – if a repair is not worthwhile, we will discuss the next steps with you directly.



REWORKING

HIGH QUALITY & PRECISE

Professional BGA reworking

Reworking populated circuit boards requires the highest level of precision and expertise. R&D Elektronik specialises in BGA reworking, offering services ranging from desoldering and reballing to the targeted replacement of individual components. Using modern rework stations, microscope technology and comprehensive documentation, we guarantee the full functionality of your assemblies. This enables us to provide cost-effective, resource-efficient repairs, even for complex, discontinued or third-party products.



EXTENDED AFTER-SALES COMPREHENSIVE SUPPORT



Extended After-Sales Service

Even after project completion, R&D Elektronik provides comprehensive support, including software and firmware updates, refurbishment, and long-term storage. Take-back concepts and environmentally friendly disposal complete the service. This allows you to focus entirely on your core business, while leaving peripheral issues to one specialist.

DOCUMENTATION COMPLIANT & UNDERSTANDABLE



Technical documentation and certification

R&D Elektronik creates technical documentation that is legally compliant and in line with standards. This includes operating and assembly instructions, test reports, and data sheets, which are available in various languages upon request. Our team of technicians, editors and graphic designers considers national and international standards and can support you with certifications such as CE or UL. This ensures that your products are professionally presented and legally protected worldwide.



WE ARE R&D

ELECTRONIC SOLUTIONS WITH A FUTURE

R&D Elektronik – Your partner for the entire product lifecycle

From the initial idea to well beyond delivery: We offer a comprehensive range of services for the development, manufacturing, testing and support of electronic assemblies and systems. From prototypes within 48 hours to precise assembly, reliable protection, customised assembly and professional repairs, we deliver quality, flexibility and speed from a single source. We also offer technical documentation, certification support and an extended after-sales service to protect your products in the long term.

Technological expertise that thinks ahead for your electronic solutions of tomorrow.



R&D Elektronik GmbH & Co. KG

Adolf-Kempken-Weg 98-104
41189 Mönchengladbach

Tel.: +49 (0) 2166 5506 0
Fax: +49 (0) 2166 5506 88

E-Mail: info@rud.info
Web: rud.info