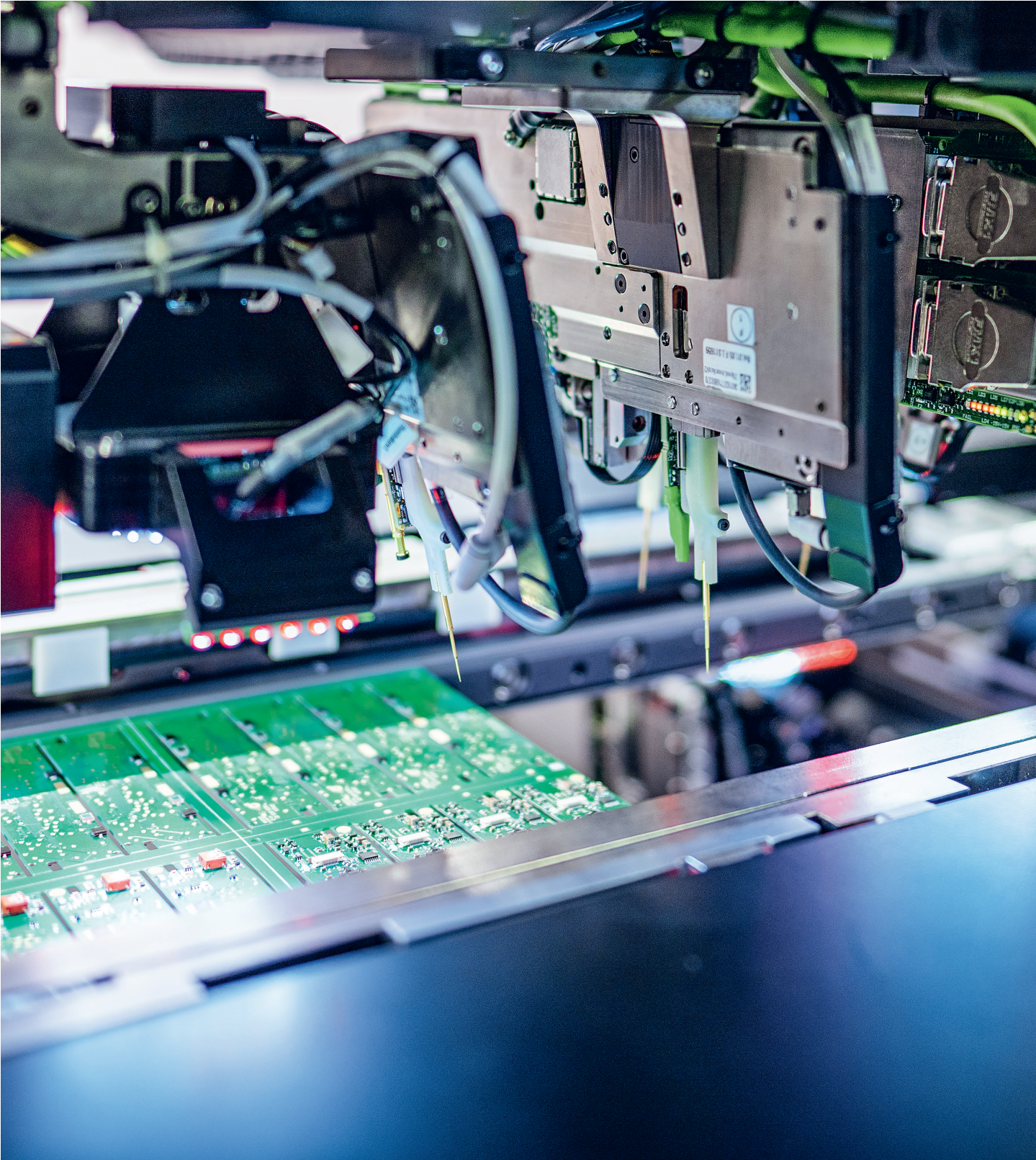# Your Swiss Engineering and EMS Partner

Expert EMS provision in key industries since 1982

We provide extensive EMS services to our customers – whether start-ups, SMEs or corporate groups – throughout all phases of the product life cycle, from engineering and industrialisation to serial production of PCBAs, modules and devices, as well as after-sales services.

Medical technology
Components and devices for treatment, diagnostics and laboratory work

Industrial automation
Smart control electronics for next-gen industries

Metrology
Sensor solutions for precise data aquisition

Wearables
Handheld devices and smart watches for high-end applications

Energy
More efficient energy supply thanks to smart grid solutions

Transportation technology
Electronic solutions for the mobili-ty of the future

Communication
High-speed designs for appli-cations with high data transmis-sion rates

Building technology
Network-enabled smart home and intelligent building technology

HQ IN SWITZERLAND

The central administrative functions of the business and our entire range of EMS – from engineering and industrialization through to series production – are all provided from our headquarters in Wettingen, Switzerland.

Iftest AG
Schwimmbadstrasse 43 | CH-5430 Wettingen
+41 56 437 37 37 | info@iftest.ch

O Wettingen

O Bern

O Geneva
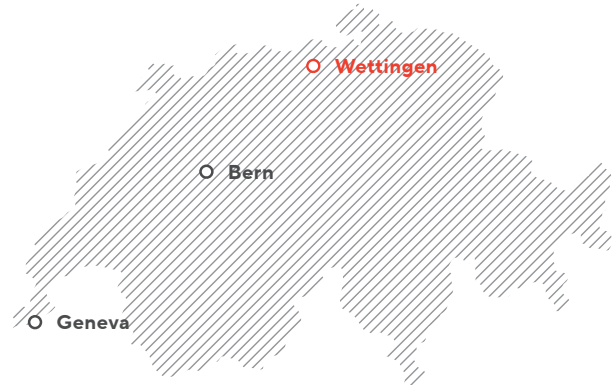
SECOND PRODUCTION SITE IN SLOVAKIA

Our wholly owned subsidiary QESS s. r. o. is located in the eastern Slovakian town of Jaklovce. Here, highly automated production processes for printed circuit-board assembly, manual assembly processes and testing are all carried out and cables are pre-assembled.

QESS s.r.o.
Pol'ná 673 | 055 61 Jaklovce, Slowakei
+421 53 417 3710 | info@qess.sk

O Jaklovce
O Košice

O Bratislava

Certifications

EN ISO 13485
ISO 9001
ISO 14001
IQNET
UL 796 / Z111

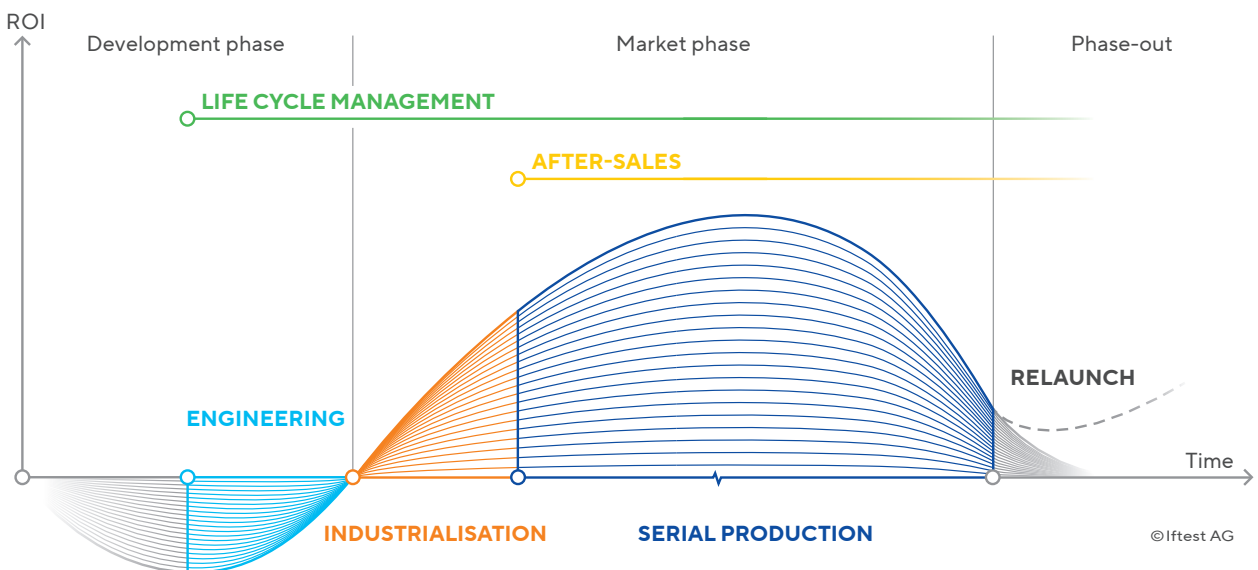# Expertise in all phases of the product life cycle

Our in-house hardware and software engineering capability, CAD team, comprehensive production technologies, up-to-date testing technology, global component procurement and customized logistics enable us to respond to the specific needs of our customers efficiently and effectively.

ENGINEERING

Our engineering services focus primarily on hardware and embedded software. Our specialized project teams are able to develop production-quality prototypes quickly and reliably. We ensure that the requirements of relevant norms and industry-specific standards, such as EMC and safety, are met and we create the necessary documentation for the relevant certification or approval. In addition, we take such aspects as cost optimization for series production, product conformity and risk mitigation in the product life cycle into account at an early stage within the engineering process.

INDUSTRIALISATION

We follow a "Design for Excellence" (DfX) approach, involving our experienced NPI project managers early on, at the design stage, which helps save time and costs, and enhances the quality of your products. In a professional and seamless process, we design, plan and manufacture your prototypes and identify the potential for moving on to series production. As well as ensuring the availability of materials and selecting suppliers, we will conduct an appropriate proof of concept process, carry out quality planning and verify your products under production conditions.

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LIFE CYCLE MANAGEMENT

› Risk management
› Traceability
› Compliance management
› Obsolescence management
› Change management

ENGINEERING
- Concept/Specification
- Hardware engineering
- PCB design
- Software engineering
- Prototyping/NPI
- Verification
- Pre-compliance tests

INDUSTRIALISATION
- Manufacturing concept
- DfX-Review
- Supply Chain & Procurement
- Pilot/Zero series
- Tooling & Test Equipment
- Compliance test
- Logistics concept

SERIAL PRODUCTION
- Material procurement
- SMT/THT assembly
- Optical testing
- In Circuit & Functional Testing
- Conformal coating & potting
- Assembly of (sub)modules (Box Build)
- Logistics

AFTER-SALES SERVICES
- Long-term storage
- Spare parts deliveries
- Repair service
- Product maintenance
- Process optimisation
- Compliance monitoring
- Product transfer

SERIAL PRODUCTION

In addition to the automated assembly and testing of rigid and flexible PCBs, we assemble modules and devices at our locations in Switzerland and Slovakia. Thanks to state-of-the-art manufacturing and testing technology, together with process-guided quality assurance, we can handle small and medium-sized series as well as high-volume production. Moreover, our standardized ERP system, harmonized processes and comparable machinery mean we can respond to increasing capacity requirements across all locations.

AFTER-SALES SERVICES

While series production is under way, we continuously optimize our processes and test procedures to increase efficiency and minimize risks. We repair your assemblies or devices that are damaged or have failed in the field. We extend the service life of your products through regular maintenance, software updates, error analyses and upgrades to the latest version. The supply of spare parts, components or finished products is ensured through such measures as long-term storage or redesign.

LIFE CYCLE MANAGEMENT

We strive constantly to avoid and reduce risks in our manufacturing processes and in the delivery performance of our suppliers, with the help of a comprehensive and continuous traceability system. We monitor the conformity of your products to requirements and directives such as RoHS and REACH, and implement product changes quickly and reliably within the ongoing production process. Proactive obsolescence management across all phases of the product life cycle, with regular EOL/PCN analyses, means alternative components can be assessed at an early stage, all-time requirements, including long-term storage, can be procured and your assemblies can be redesigned to optimize costs.

Our services include:

Risk management

› Risks related to the introduction of new products (industrialization/NPI process)
› Process risks (process qualification, quality assurance)
› Risks related to material logistics (storage climate-controlled, if necessary; protection against damage; labeling; etc.)
› Supplier monitoring
› Component market oversight
› Secure storage
› Multi-site strategy
› Data security
› Currency risks

Compliance management

› RoHS, REACH, SVHC, conflict minerals, etc.
› Full Material Declaration
› Approval (CE, UL, VDE, etc.)
› Laws, directives, standards (EMC, safety)
› QSV requirements
› Proactive periodic monitoring and customer information
› Management systems (ISO 9001, ISO 14001, EN ISO 13485)

Change management

› Evaluation of changes to product and item master data
› Impact analysis (product, process, compliance, costs)
› Initial/release sample, incl. initial sample test report
› Requalification
› Customer approval of changes affecting quality
› Version and configuration management

Traceability

› Batch recording at the raw materials stage
› Documentation of incoming goods inspections
› Monitored and climate-controlled storage conditions
› Storage strategy (FiFo, etc.); stock movement records
› Production order-related data collection (personnel, tools, operations, etc.)
› Process monitoring and control
› Logged inspections
› Serial no. and labeling of components
› Serial no. management, incl. batches and other IDs

Obsolescence management

› Lifecycle analysis; strategic component/material selection
› Product Change Notification (PCN)
› End of Life (EOL), Last-Time Buy (LTB)
› Second-source evaluation
› All-time requirements planning
› Replacement/spare parts planning (e.g. redesign/NPI)
› Proactive periodic monitoring and customer information