

A man in a white lab coat is leaning over a wooden table in an anechoic chamber. He is holding a glowing blue ring-shaped object. To his right is a piece of electronic equipment with a screen and various controls. The background is filled with blue acoustic foam. The overall lighting is blue.

BECOM

it's possible.

VALIDATION

VALIDATION

- Accredited EMC laboratory
- Environmental testing
- Electrical testing
- Thermography measurements
- Authorized calibration body for ISO / IEC 1702

PRODUCTION

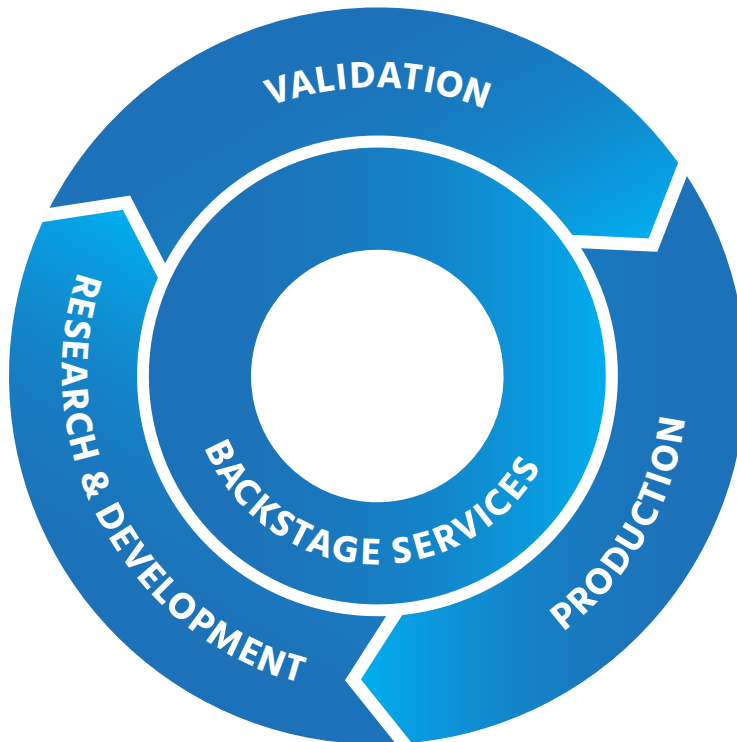
- SMT production
- THT production
- Robotics
- Coating
- Potting
- LED centering
- Assembling/Box build
- Traceability
- Digitalization

RESEARCH & DEVELOPMENT

- System development
- Hardware development
- Software development
- Mechanical development
- PCB design
- Process development
- Development of test methods
- Embedded systems
- Time-of-Flight technology

BACKSTAGE SERVICES

- Project management
- Product lifecycle
- New product introduction/NPI
- Obsolescence management
- Product changes
- Risk management
- Logistics
- After sales services
- Feasibility evaluation



BESPOKE VALIDATION

BECOM can guide its clients through the entire development process thanks to its ISO / IEC 1705 accredited test laboratories - from the earliest pre-project and planning phase right up to the final approval and validation through EMV and environmental assessments. Our experts can not only support you with the assessments themselves, but also look after all the necessary preparations, test setups and test automations. The assistance we provide with EMV compliance or environmental assessments goes far beyond the actual test. Measurement results are interpreted immediately by BECOM and design and solution proposals are formulated from those readings.

Clients in industry, the railways, the automotive sector, telecommunications and IT have now been relying on BECOM's EMV and RF expertise for more than a decade.





CUTTING-EDGE TEST LABORATORIES

Accredited test laboratories and accurate documentation guarantee exact results and detailed test reports during emission and immunity assessments. Test reports generated in the BECOM laboratories also provide evidence for self-declarations and for compliance with standards. These tests meet even the strictest test criteria of notable automotive clients.

FOR EVERY PROJECT PHASE

BECOM's highly specialised experts can guide and support you through every phase of a project, from developing systems, PCB designs, routing and signal integrity through problem solving in existing systems right up to final approval and validation. Providing support from the earliest preliminary and planning phases avoids the need for costly redesigns later in the development cycle.

PRECISE EXECUTION

As a solution provider, BECOM can support you with all the necessary test setups and procedures, from the test case preparation using LabVIEW, monitoring and controlling the tests, automating the functionality tests and climatic chambers right up to generating test reports and developing the electronics for selecting test specimens.

DESIGN AND DEVELOPMENT

BECOM provides support during development stages or develops designs for clients itself, right up to the mass-production phase and even under tight time constraints.

SUPPORT AND SOLUTION FINDING

Testing, pre-development and development support – BECOM analyses possible problems and weaknesses preemptively and then gives clients inputs and develops solutions.

TESTING AND APPROVAL

BECOM offers detailed assessments and documentation. In the event that a product does not comply with standards during the testing, approval and validation stages, BECOM analyses the causes and offers solution proposals.

EMC test laboratories

- 450 m² with areas for HF, electronic tests and ESD
- Semi anechoic chamber (SAC) with 4 m height scanner – full compliance
- CISPR 25 absorption chamber 6x5m – Full Compliance
- Shielded room – performance-related HF tests
- Pre-compliance absorption chamber for small test specimens

Climatic test laboratory

- 14 temperature chambers, also known as climatic chambers
- Temperature: - 70° C to +180° C
- Relative Humidity: 0% to 100%
- Temperature shock: - 75° C to + 200° C
- Climate stress screening: Temperature gradients of up to 15° K/min.

Frequency range

- Radiated emission: 100 KHz to 28 GHz
- Radiated immunity: 80 MHz to 6 GHz

Accredited standards

- Commercial Devices – EMC 2004/108
- Automotive Measurement – EN 55025
- Military Standards – Mil. Std. 461E/F

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