



Assembling

Electronics and mechanics - an unbeatably strong team for high class products. Our service range includes:

- System configuration
- Device assembly
- Cable assembly

Logistics

BECOM offers transparent and optimally structured solutions for:

- Materials procurement
- Storage
- Just in time delivery

Sourcing

Thanks to a network of strategic procurement partnerships, our innovative procurement management enables us to achieve a fast and accurate production supply process for:

- Timely component delivery
- Market-friendly prices
- Agreed quality standards

Storing

We can provide a cost-effective option on request: We'll store the goods we have produced for you in our own storage facilities, and ship them on demand and on time to your customers, throughout the entire European Union.

Shipping

Just in time, from the assembly line to the customer.

Together with our logistics partners we offer you:

- Optimal bundling of streams of goods
- Efficient production control
- Custom logistics solutions

Service

BECOM offers not only production reliability but also the certainty of a comprehensive overall concept and has the customised answers to questions such as:

- Repairs - who can fix my device?
- Spare parts - who can provide them?
- Test equipment - who will design and engineer it?
- Standards and legal stipulations - where can I get qualified information?

Test Planning

Whether for a specified testing procedure with test devices supplied by you, or using a testing method we have designed together, our team will then carry out the technical and economic test methods as agreed.

Our range of test technology includes:

- Test point applications
- In-circuit testing
- Flying probe testing
- Boundary scan applications
- Automatic protocol-based test processes

Test Device Construction

Our experienced engineers assemble your testing equipment, leaving you to concentrate on your core competencies - and your bottom line. This allows us to implement any changes you may want to make both quickly and flexibly.

QM-Support

By drawing on BECOM's know-how and years of experience, together we can optimise all the processes along the value-added chain.

After Sales

The BECOM strategy includes the continual analysis and repair of boards and devices. We update them to reflect the latest technological state and place the analysis data at your disposal.

Integrated Technology Leadership - Short Facts



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Technical Performance

High-level certification

- ISO 9001:2008
- ISO/TS 16949:2002 Automotive Standard
- ISO 13485:2003 Medical Standard
- EN ISO/IEC 17025 Calibration station for e-counters



R & D

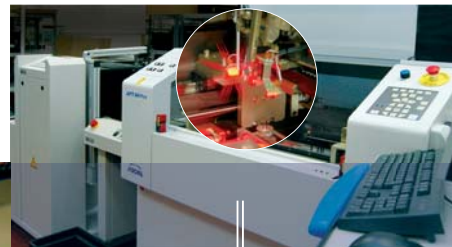
BECOM supports research and education primarily through its role as a member of ARGE "ZUTEC" (future-oriented technologies) where, together with our partners, we introduce future-oriented technologies and prepare them for industrial application.

Development

- BECOM – everything from a single source – from the idea to the marketable product.
- Hardware and software development
 - PCB design
 - Mechanical construction
 - Prototyping
 - EMV consulting (own standards laboratory)
 - Thermal management (simulation & IR camera)
 - System design, function development, total system management
 - Additional environmental testing options (temperature shock, deterioration, climate/humidity...)

Co-Engineering

Our experts take over the entire procedure for you, right through to series production, from the procuring of required production devices to implementing your product concepts, all supported by the BECOM design rules and BECOM components database. This ensures optimised production costs, shorter lead times and improved component disposability.



Production

SMT-Production

SMT manufacturing
Automatic pick-and-place lines allow us to produce cost-optimised prototype lots and to handle batch production lots effectively.

- Capacity/Equipment:
- 1 million components per day
 - DEK & EKRA template printer
 - SIEMENS Siplace pick-and-place machines
 - REHM & SMT reflow convection soldering furnaces under an inert protective gas
 - Placement on flexible PCBs

- Standards:
- 0201 Chip (0201 & 01005 on request)
 - 0.4 mm QFP
 - µBGA

We manufacture both ROHS compliant or leaded.

THT-manufacturing

Human dexterity and experience are key requirements when it comes to the manual placement of electronic components. An in-line system conveys the assembled PCBs to the computer-controlled wave solder machine with integrated chip wave.

- Capacity /Equipment:
- 200,000 components per day
 - Leaded and lead-free soldering
 - N2 protective gas
 - Modular implementation
 - Assembly station with indication system

Coating

We ensure that our electronic components have a long service life. Most important is the protection against all types of environmental factors such as:

- Humidity, condensation, microbiological effects
- and dirt

We protect your PCBs with:

- Fluoridated polymer coating (Certonal)
- Selective coating (CNC controlled)
- Dip coating
- Manual coating
- Encapsulation with 1K + 2K media (PLC controlled)

Testing

Early component-based fault detection in conjunction with error databases enables us to quickly and efficiently eliminate defects.

Optical Inspection

The latest in high-tech inspection systems are implemented for optical inspection at BECOM, offering unparalleled process parameters.

AOI equipment:

- 2 systems; 1 inline system, 1 multi-line configuration
- 2 orthogonal and 4 inclined megapixel cameras
- 360 degree view range
- Identity, polarity, solder joint quality, tin compounds and misalignment

Microscopy equipment:

- Ersascope for BGA inspection and various table-top microscopes

ICT & Flying Probe

The in-circuit test (ICT) guarantees proper component functioning and efficient repair with minimal processing time.

- ICT test equipment and capacity:
- AEROFLEX combinational tester (1280 test points)
 - Network-based fault libraries
 - Effective repair processing
 - Inline programming

Flying probe test equipment and capacity for samples and small lots:

- Takaya APT 9411, four probes
- Polar test system

Functional Test

BECOM's high-grade testing devices enable the efficient and reliable testing of electronic components and devices.

The test range includes:

- Component programming (14,000 types)
- Making of test adaptors (including software)
- Procurement of measuring devices
- Bus-controlled universal test (LabView)
- Boundary scan test
- High-voltage and isolation test
- Run-in und burn-in
- Vibration test
- Cyclic temperature tests
- Wiring test (2,048 test points/4 wires)
- Co-ordination of special tests with our business partners

BECOM