

Precision from the idea to the finished product.



Electronic Engineering & Manufacturing Services:

E²MS made in Germany

Brief description

sitronic as a service provider, in its business division Electronic Engineering & Manufacturing (E²MS), assembles electronics developed by its customers. Typical customers are development service providers, consulting engineers without their own production or end customers, who need to subcontract a complete development and production. Since sitronic itself develops own products and has the necessary know-how available in its own

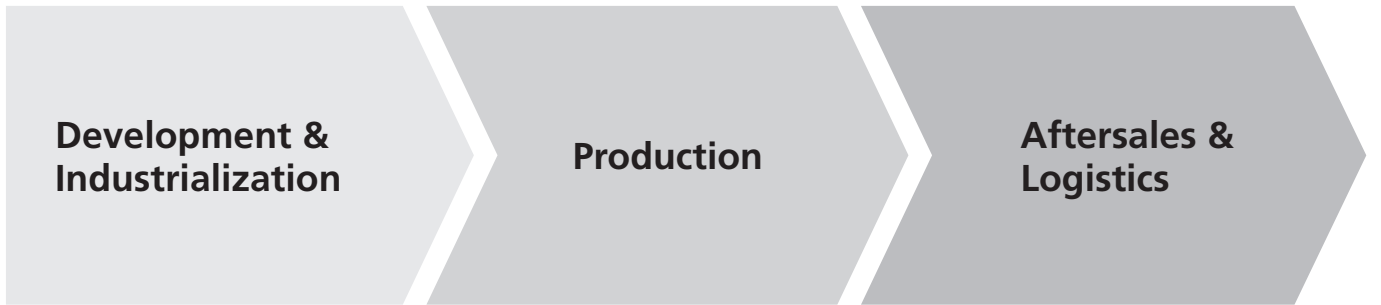
development departments, the company can provide expert support to its customers at an early stage during the development phase, in particular in optimal implementation of Design for Manufacturing and/or Design for Testability. Further there is the possibility to carry out parts of the development process (e.g. layout and mechanical construction) in-house.

Development:

- > Circuit and layout
- > Software acc. Spice
- > Mechanical construction
- > Tests and qualification
- > Development services to complete the E²MS products

Process Engineering:

- > Complete production processes
- > FMEA
- > DFM and DFT
- > Process qualification
- > Procurement
 - > Tools
 - > Catalogue parts
- > Traceability
- > CO₂ laser labelling
- > Solder paste printing with +/- 12.5 µm precision
- > 3D-AOI solder paste inspection
- > SMD component placement:
 - > 01005 up to 74 x 74 mm
 - > Top view recognition/accurate placement
- > Reflow soldering under vacuum
- > AOI placement inspection
- > X-ray inspection
- > Depaneling by milling, sawing, or with parallel ripping-knife
- > THT Mounting
- > Soldering:
 - > Lead-free and leaded
 - > Wave soldering
 - > Selective soldering processes: lift/dip soldering, mini wave, hand soldering
- > In-circuit test, incl. functional test and programming
- > Assembly of electronics, also trim parts
- > Casting: epoxy, silicones, glue
- > Hardening: UV, thermal
- > Functional testing, incl. haptics, colour and brightness
- > Testing of thermal transfer of power components or LED
- > Repair station for QFP, PLCC, QFN, BGA, µBGA, etc.
- > Packaging according to customer specifications
- > Worldwide shipment
- > Change management
- > Spare-part management
- > End-of-life inventories



Speed and quality for new product ideas



- > Rapid prototyping for electronics and plastics
- > 24-hour service on 7 days a week
- > From component procurement, modelling of plastic parts assembly to potting
- > Optional: qualified test report with X-ray photos

Please contact us – we are looking forward to hear from you!

sitronic is committed to:
quality, innovation, competence and flexibility.



sitronic GmbH & Co. KG with its innovative products and processes is one of the approved partners of the vehicle manufacturers in the automotive supply industry.

Founded in 1969, the focus of the mid-sized, family-owned company is on:

- > Development, sales and production of own products in electronics, sensor technology and electrical engineering (measurement, control, sensing).
- > Production services for electronics and electrical engineering.

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