

# ECD

## Electronic Components

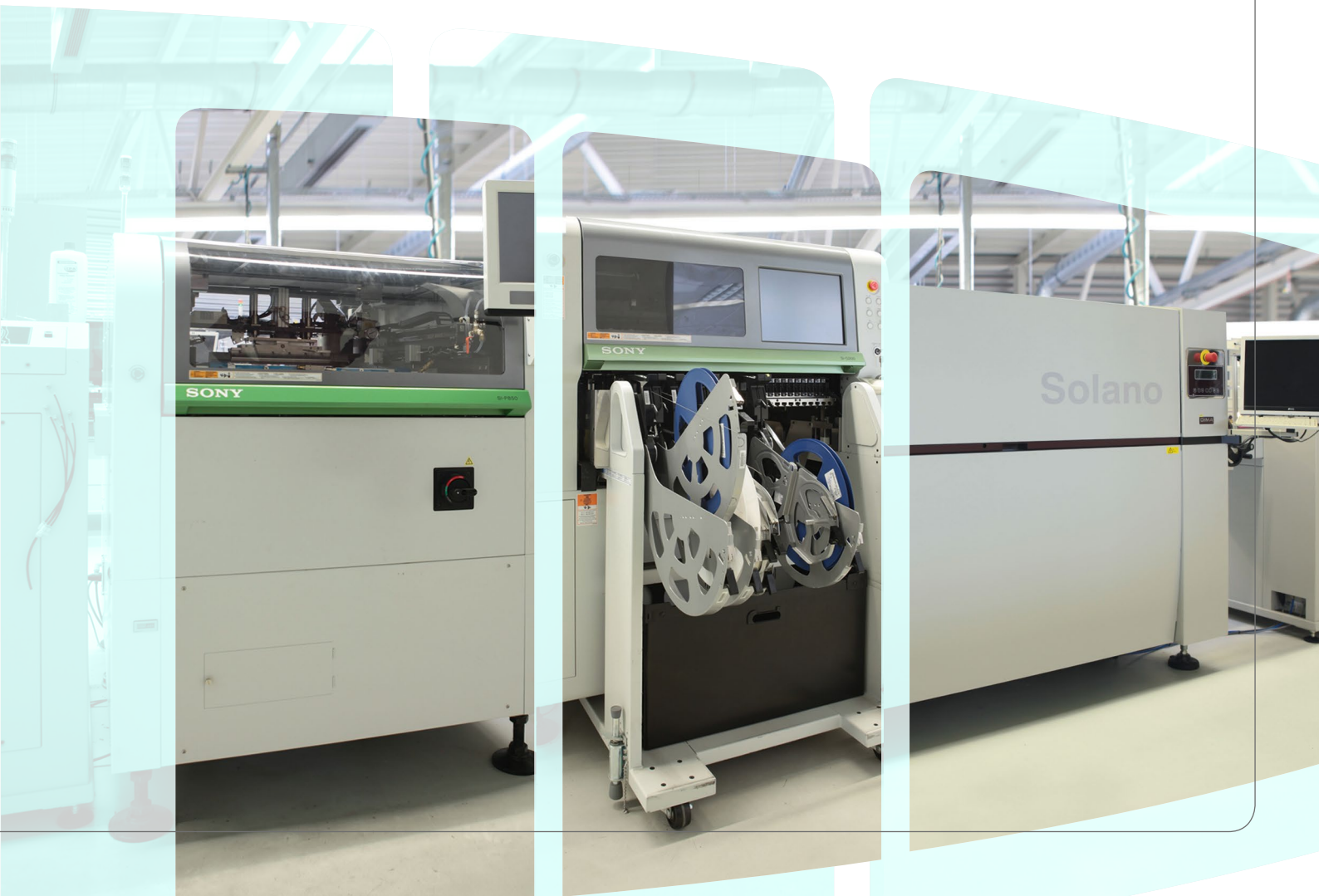
Electronics Development



Printed Circuit Board Assembly



Cable Assembly



# ECD

## Electronic Components

### Quality with Tradition

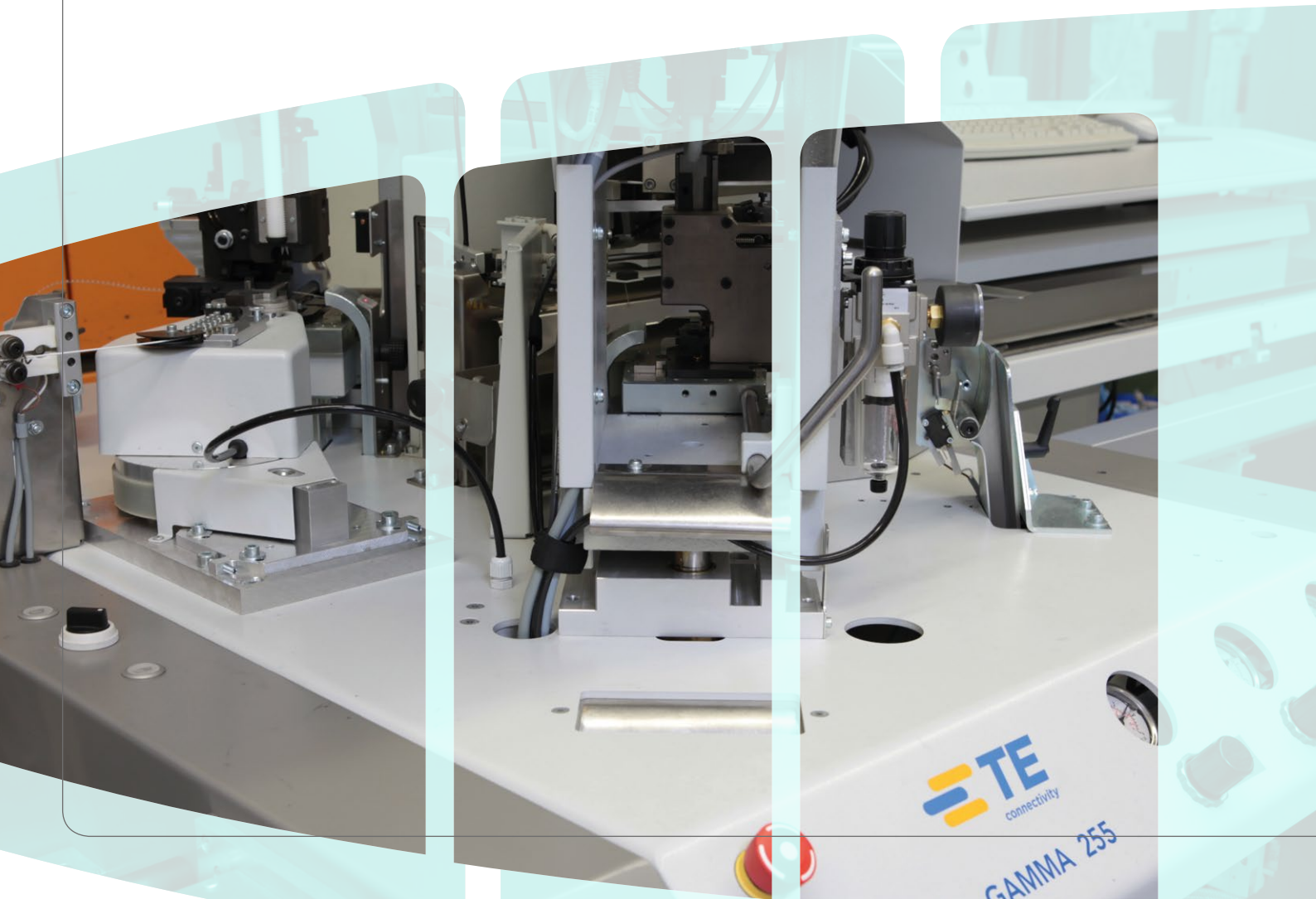
ECD Electronic Components GmbH Dresden has emerged from a department of Siemens Nixdorf in 1997. Ever since we keep establishing our position on the global market in the fields of customized cable production, circuit board assembly, LED solutions as well as telematics. Our expertise is based on the long-time experience of our employees and the confidence in the visions of our young generation. Since 2007 we have been developing and manufacturing our own innovative products.

### Lead through Research & Development

In 2014, we added a technical center to our premises of two already existing production halls. Being a place of research, development, and further education, students and trainees benefit from a creative and highly technological environment. Here, solutions for complete and high-level project plans are generated in cooperation with educational institutions and other industrial businesses.

### From Idea to Serial Production

The ideal infrastructure at industry park Dresden-Gittersee makes it possible to meet our customers' requirements at its best. Our primary goal is to realize your production orders as well as complex development projects. In close cooperation, we will turn your ideas into a finished product that may be followed by serial production. Made in Germany.



## Development

### Conceptional Draft

- listing customer's requests
- customer consulting
- project handling in accordance with the production process
- provision of specification sheets

### Software Development

- $\mu$ -controller and DSP
- programming languages: C, C++, Windows surface

### Hardware Development

- circuit diagram: analog/digital
- electronic circuit simulation
- controller application
- PCB layout
- housing construction

### Prototyping

- laboratory assembly
- creation of a sample and technical inspection
- sampling
- transition to serial production

### Transition to Serial Production

- construction of manufacturing devices
- construction of testing adapter
- development of testing software
- definition of quality parameters

### CAD Tools

- Solid Works
- Auto-CAD
- Altium Designer
- LT-SPICE

## Circuit Board Assembly

### Paste Printing

- fully automatic screen printing: SONY SI-P850
- fully automatic soldering paste printing: MYCRONIC Jet Printer MY 600

### Mounting

- three different SMD lines
- Sony SI-G200
- 2-unit-placement machine Juki RX-6
- BGA, QFN
- 01005 up to 100x100
- THT manual mounting

### Soldering

- reflow convection (Juki JT RS-800 II-N)
- vapor phase soldering
- wave soldering
- selective soldering

### Assembly

- depaneling machine
- mixing and dispensing system 2K DOS
- PCB coating
- electronic modules assembly
- complete device assembly

### Labeling

- laser printing (DPL Smart-Marker)
- label printing

### Inspection/Testing

- automatic visual inspection (AVI)
- in-circuit test (ICT)
- functional testing
- fully automatic testing

## Customized Cable Production

### Cutting and Crimping on KOMAX Machine

- single braids/wires
- round conductors
- flat ribbon cable
- coaxial cable

### Manufacturing

- fully automatic contacting and soldering
- cross-sectional area/lateral cut from AWG36 up to AWG10
- wire length from 20mm (0.78 inch) and up
- high frequency soldering

- semi-automatic latching
- crimping tools for contacts by JST, FCI, Molex, Tyco, Stocko, Würth, Grote & Hartmann and many more
- manual completion, connector assembly
- assembly of plug-in connectors and round connectors by crimping and soldering (i.e. Binder, Lemo, Lumberg, Conec, ODU and many more)

### Labeling

- inkjet printing
- thermal printing
- label printing
- laser printing

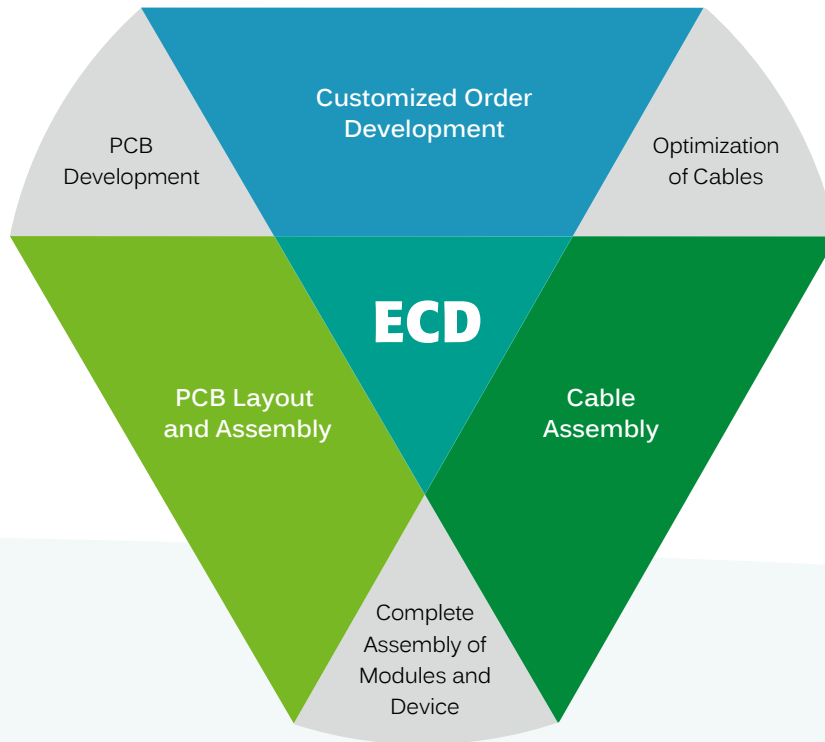
### Audit/Testing

- fully automatic crimp force monitoring
- contact print testing
- automatic wiring testing
- high-voltage testing
- PE conductor test
- high-pressure test

**We guarantee a high quality standard of our products and services.**

All mounting processes are adjusted according to Standard IPC-A-610. Quality checks are being carried out at every step of process according to control and sampling plans, however, also according to our customers` needs.

Our company is certified according to DIN EN 9001:2008 and UL Wiring Harnesses.



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[www.ecd-online.de](http://www.ecd-online.de)



market proximity  
innovation quality economic efficiency  
on-time service flexibility