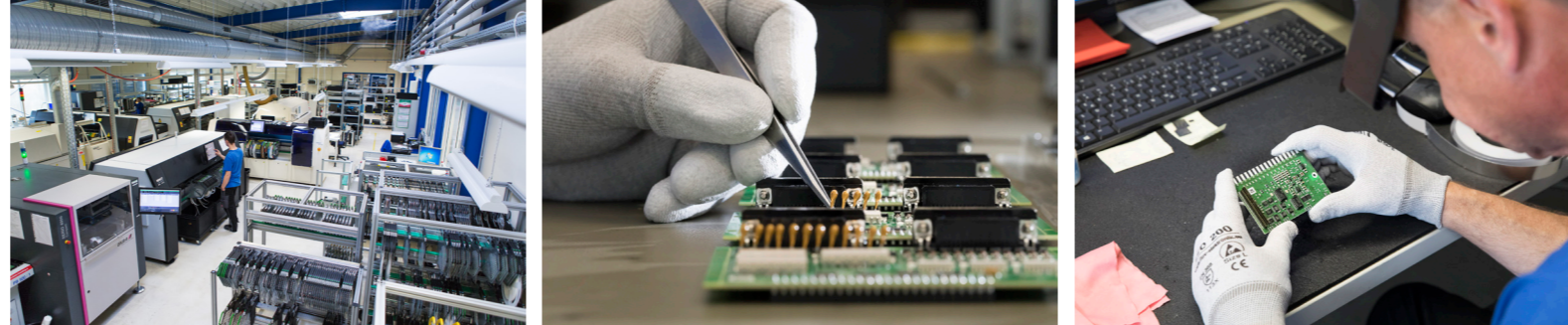# INHOUSE MANUFACTURING

with the latest technology
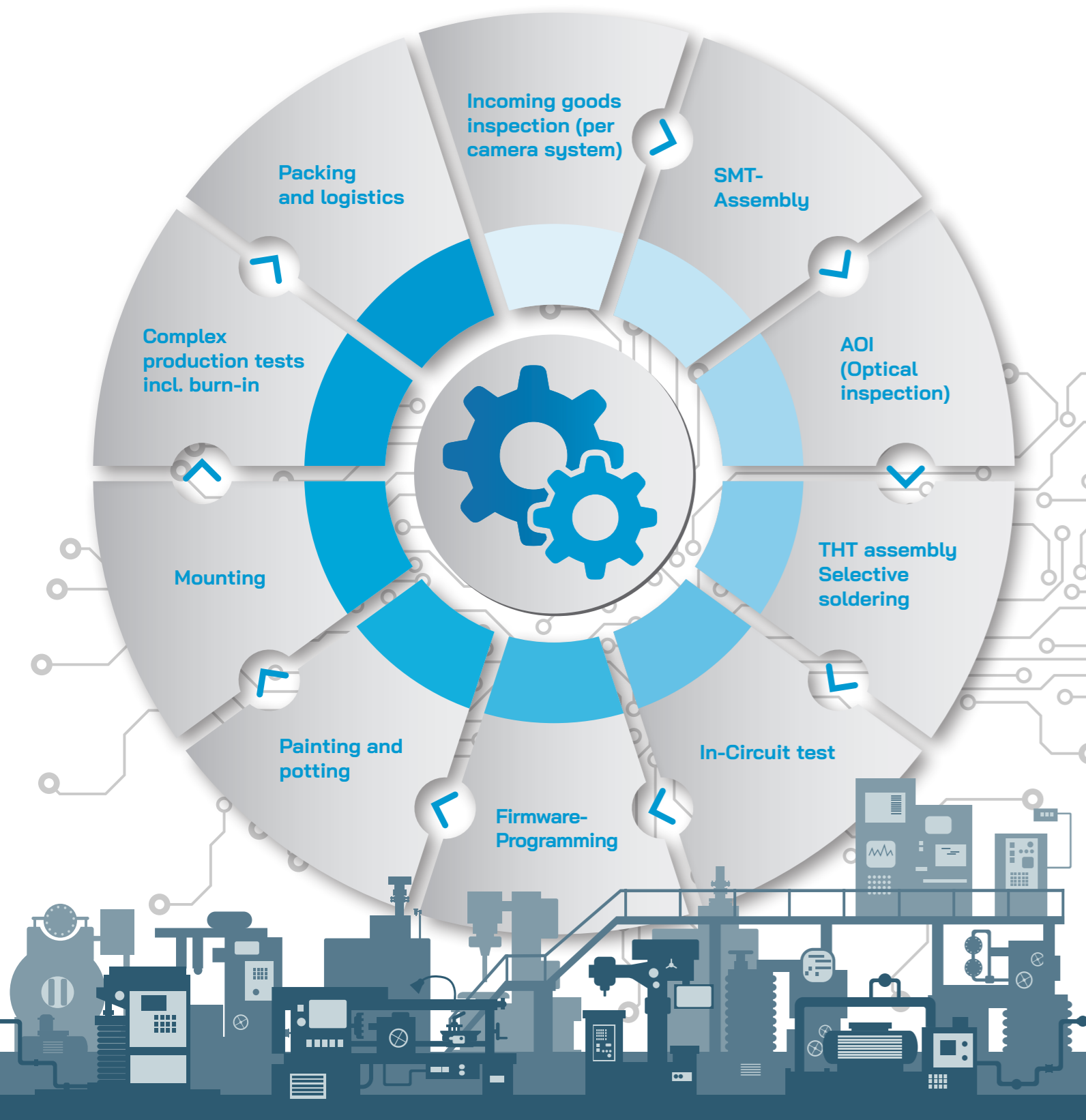

In our in-house production we manufacture complex assemblies in compliance with the highest quality standards. Areas such as material procurement, logistics, equipment assembly, construction of test setups as well as the execution of tests round off our core business.

Relevant parameters

- manufacturing of printed circuit boards and complete devices with the most modern systems & equipment
- camera-supported goods receipt system, storage of all images in ERP
- SMT assembly on most modern lines with more than 100.000 BE/h assembly capacity for flexible high mix production also of highly complex assemblies
- placement of all industry standard components (BGA, QFN,01005 etc.) up to special components (large connectors, LEDs, etc.)
- processing of very thin rigid(-flex) and aluminum core boards (from 0.8mm thickness)
- paste printing with paste AOI and automatic stencil cleaning
- automatic selective soldering of THT components for reproducible quality
- optional measurement of resistors and capacitors before their assembly for electrical parameters
- soldering processes (SMT/THT) as well as PCB storage with the aid of nitrogen
- automatic optical inspection by flexible 3D-AOI-system incl. 100% inspection of each printed circuit board
- lacquering of printed circuit boards
- functional test of each assembly, also with calibration, burn-in (temperature test chamber), Boundary Scan and firmware programming
- BGA Rework with Hybrid Rework Station
- air humidification system for compliance with ESD requirements
- highest flexibility starting from quantity 1 (prototypes)
- traceability back to the manufacturer's batch
- preparation of a design suitable for production through close linking of engineers in development and production
- direct access of the development engineers to our production team
- product support from development through prototypes to series production

More details?

www.systec-electronic.com/en/ems

Production wheel labels

- Incoming goods inspection (per camera system)
- SMT-Assembly
- AOI (Optical inspection)
- THT assembly Selective soldering
- In-Circuit test
- Firmware-Programming
- Painting and potting
- Mounting
- Complex production tests incl. burn-in
- Packing and logistics

SYS TEC ELECTRONIC

MADE IN GERMANY!

YOUR PARTNER WITH SOLUTION COMPETENCE FOR HIGH QUALITY ELECTRONIC SERVICES

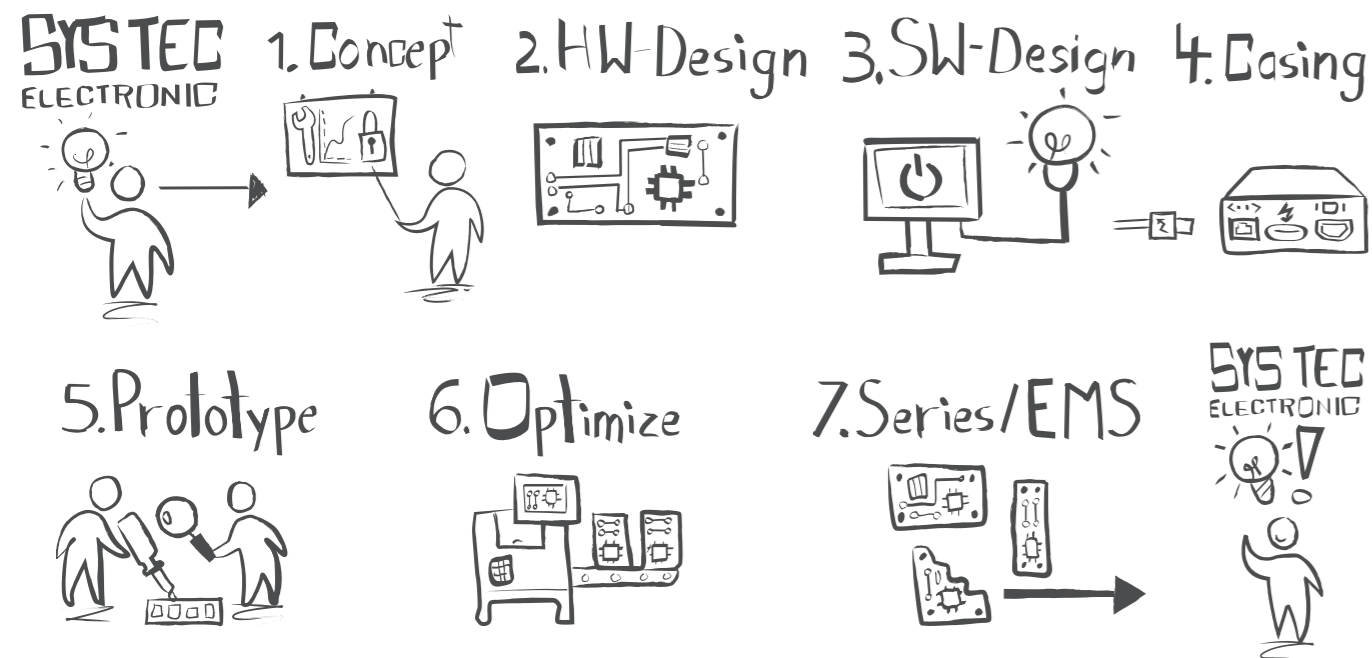Portrait of SYS TEC electronic AG

From the idea to serial production

OUR ELECTRONIC ASSEMBLIES...

► ... keep trains running safely and on time
► ... protect your privacy (within your own four walls)
► ... provide a decisive degree of comfort in your home
► ... ensure safe cars on our roads
► ... support doctors during operations
► ... ensure a secure energy supply for data centers
► ... reliably monitor elevator systems
► ... safeguard entire production plants and processes
► ... serve as a basis for a wide variety of leisure entertainment

SYS TEC ELECTRONIC 1. Concept 2. HW-Design 3. SW-Design 4. Casing

5. Prototype 6. Optimize 7. Series/EMS SYS TEC ELECTRONIC

CUSTOM DEVELOPMENTS
at the highest level

Our customers are often looking for unique, specific electronic solutions for their applications. Often, these solutions are not available on the market - and that is how our customers become aware of us.

SYS TEC electronic develops and manufactures customized, flexible complete solutions for individual requirements. Our team is specialized in the development and production of customized electronic solutions for embedded systems and distributed automation. Besides a holistic view on system development, we are characterized by more than 30 years of experience in the development and implementation of industrial hardware and software solutions.

We accompany the entire process from the first draft, through the prototype, to series production. In short, from the initial idea to the commissioning of the assembly in the application environment, we are always firmly at your side throughout the entire life cycle of the product.
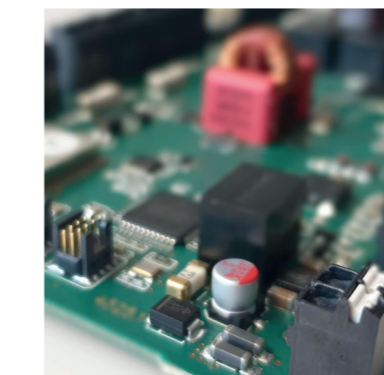
• expertise in C/C++, C#, Java, JavaScript and Python as well as M2M
  protocols such as OPC UA and MQTT
• extensive fieldbus know-how: CANopen, Ethernet/IP, Powerlink, EtherCAT,
  Profinet, Profibus, Modbus
• implementation of Linux kernel modules
• creation and maintenance of individual Linux BSPs (e.g. with Yocto)
• porting of (real-time) operating systems on customer-specific hardware
• FPGA-design in VHDL
• application development and firmware design for customer specific devices
• development of controllers for user programming according to
  IEC 61131-3

More details?

https://www.systec-electronic.com/en/services-1-1

OF THE BEST QUALITY
References for development, manufacturing & life cycle management

• Electronics for controlling opaque
  window foils

• Assembly for predictive
  maintenance of pumps via
  structure-borne noise analysis

Motion Control Assembly for machine tools

Modular communication system for railroad applications

Test unit for electronic brake systems

Data logger for Brake test stands

Assembly for braking systems in trains according to SIL2

• Assembly for the control of vending machines,
  incl. payment system
• Assembly group according to fiscal security standards
• SIL-compliant software for controlling doors

Edge device for acquisition and evaluation of sensor data by means of local AI in the field level

Sensor board for medical ECMO tubing systems

Intelligent energy management system for controlling and monitoring IT power grids

We are here for you - Contact us!

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