

Professional test setups



Our strength lies in the fact that we develop and build the tests and test adapters in-house. This allows us to react quickly and flexibly to customer requirements.



SYS TEC ELECTRONIC

Our range of services

In-circuit test (ICT)

function of each individual component is tested

Functional test (FCT)

of the module or individual parts of the module (interfaces, displays, LEDs, buttons)

Boundary scan test

enables the testing of complex components (e.g. BGAs) that cannot be contacted via needles

High voltage test (HV Test)

testing for dielectric strength and electrical safety

Burn-in test

Function test from -40 to +80°C, simulation of the ageing of an assembly, detection of early failures

Software programming

for the delivery status in the panel or individually

- Test software
- Device firmware
- Serial number
- MAC address
- Configuration data

Your benefits

- Test systems for in-house production
- Modern, graphical operator guidance to minimise operating effort and errors
- Fast and cost-effective development of your test station
- Statistical analyses and automated determination of key figures in real time
- Fast and accurate test certificates
- Accessible quality and efficiency key figures, such as First Pass Yield (FPY) and target/actual time comparisons
- Early detection of maintenance requirements (predictive maintenance)

Your advantages

- **One Point of Contact**
- Experience from **30 years** of successful development of test systems for electronics production
- Cost-effective solutions also for **small series**
- **Fast and flexible response** to customer requirements
- **Short development times**
- Benefit from **our experience, know-how and extensive test libraries**
- Immediate **customisation, maintenance and repair**

Test development, as individual as your products

Test station

from remote controllable standard IO devices and power supplies such as

- Calibrators
- Programmable power supply units
- Interface converters (e.g. USB-CAN, CAN-Ethernet, ...)
- Programmable measuring devices
- Switching matrices

Individual system components

consisting of:

- mating points for the tested device, which cannot be realized with standard devices
 - test adapter, which contacts the tested device
- e.g. needle bed adapters, cable harnesses or plug-in boards

Test software

developed in-house

- encapsulation of the complex tests in easy graphical user guidance
- Visualization of the test steps
- Execution of the automated tests for reproducibility
- Data storage in the database and in log files

By the way: In addition to creating individual, professional test setups, we are also happy to support you:

Technological optimisation

of your products for efficient and smooth series production
„Design for Manufacturing“ & „Design to Cost“

Conducting tests during development

in our in-house EMC laboratory

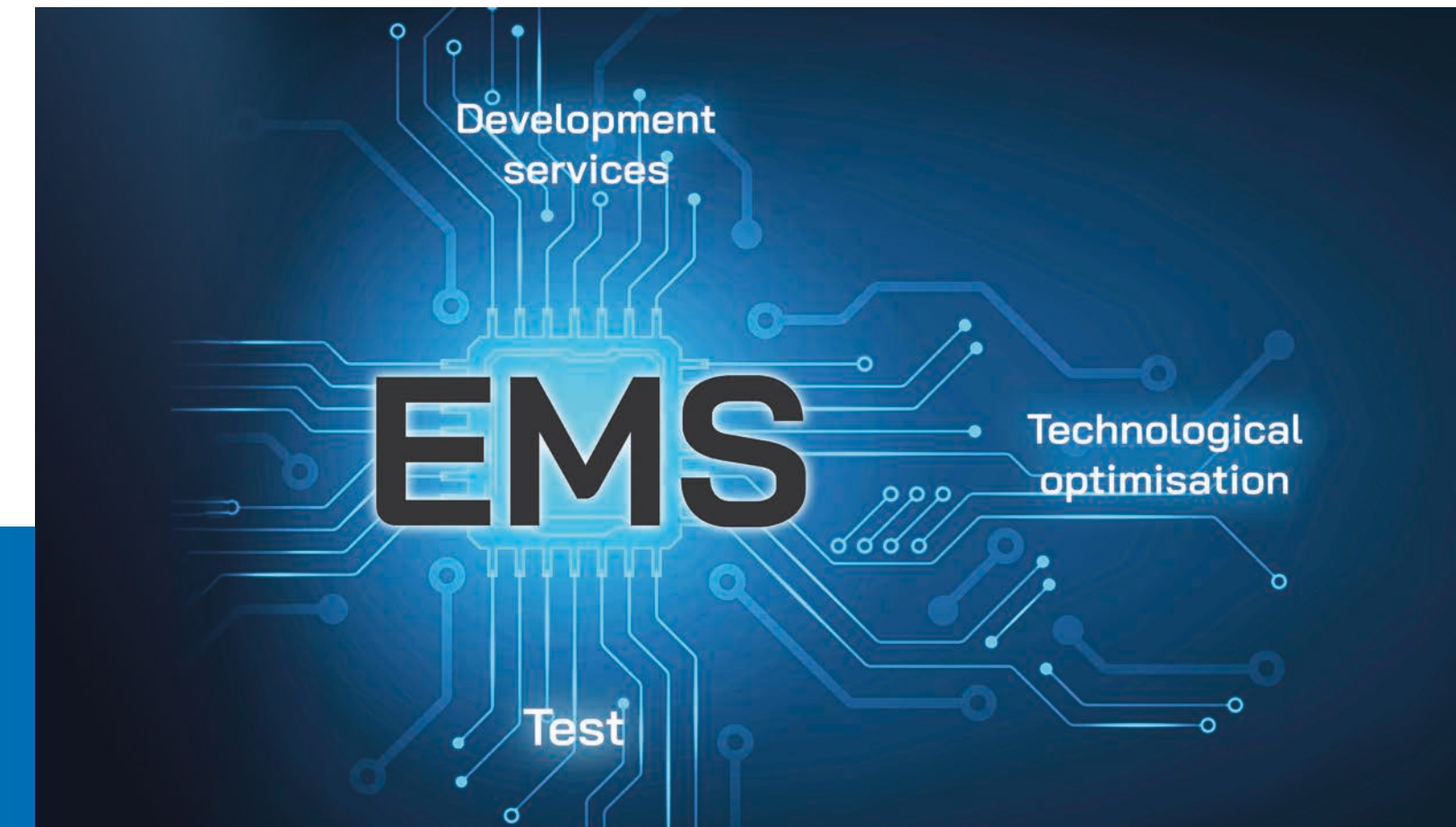
We are here for you - Contact us!

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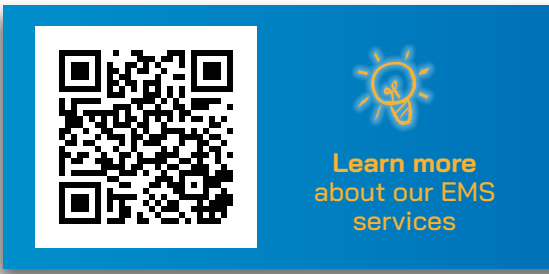


EVERYTHING FROM A SINGLE SOURCE: EMS SERVICES & TEST STATION DEVELOPMENT

We keep going where others stop: At SYS TEC electronic, electronics services do not end after series production. We accompany your product in every phase of its life cycle by means of technological optimisation. Whether assembly or development, whether carrying out tests or creating your individual test station:

We support you throughout the entire realisation of your electronics project - quickly, flexibly and competently.

FAST, RELIABLE AND QUALITY-CONSCIOUS: YOUR COMPETENT EMS SERVICE PROVIDER



YOUR EMS EXPERT FOR ALL CASES

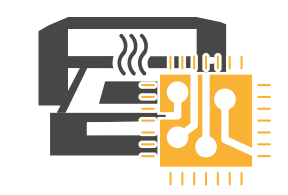
- Highest flexibility from a quantity of 1 (Prototypes)
- All industry-standardised components (BGA, QFN, 01005, etc.) through to special components (large connectors, LEDs, etc.)
- Processing of PCBs from 0.8mm thickness and aluminum core PCBs
- Maximum PCB size: 400mm x 350mm

- Individual packaging
 - Pendulum packaging
 - International shipping
 - Drop shipment
- Saving of the original photos in our ERP

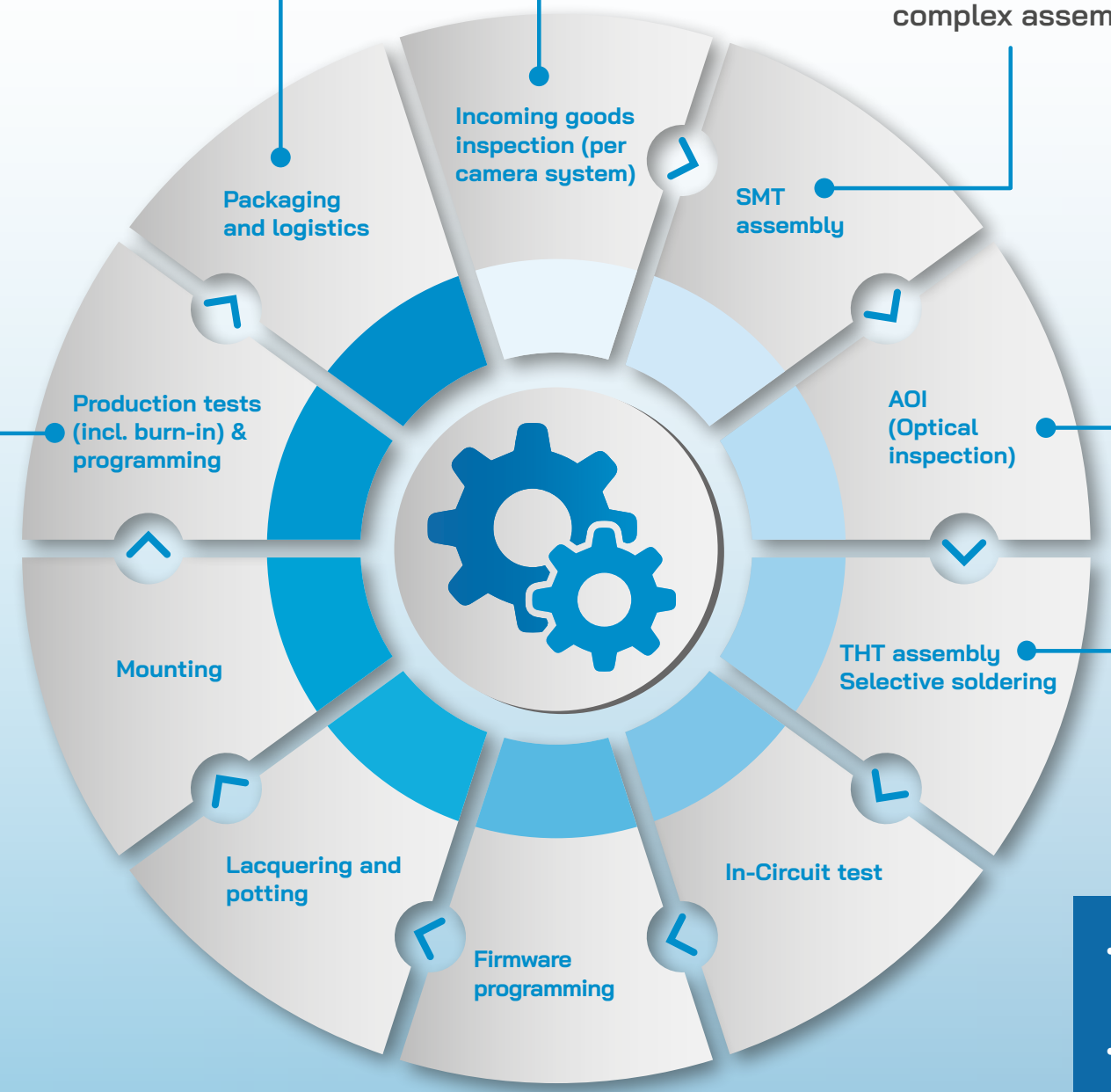


Placement capacity of up to 100,000 BE/h allows flexible high mix production of even highly complex assemblies

Soldering processes (SMT/THT) and PCB storage under nitrogen



Assembly of printed circuit boards and production of devices with the most modern systems and equipment



Flexible 3D AOI system incl. 100% inspection of each printed circuit board

Automated for reproducible quality

- Function test of each board
- with calibration
 - Burn-in (temperature test chamber)
 - Boundary Scan
 - Firmware programming

ALL FROM ONE SOURCE

- Traceability back to the manufacturer's batch
- Preparation of a production-ready design through close cooperation between the engineers in development and production
- Direct access of the development engineers on the production
- Support for products from development via the prototypes to series production

HIGHEST QUALITY

- Optional measurement of resistors and capacitors for electrical parameters
- BGA rework with hybrid rework station
- Air conditioning and humidification system to meet ESD protection requirements

