

TEM[®]

since 1967
smart building experience

TEM – Your partner in electronics manufacturing



Active in regulation and control since 1967

Control engineering is the passion of TEM and has been for over 50 years. Developing and manufacturing premium quality products is our goal. TEM is based in Switzerland and offers a comprehensive portfolio of first-class, perfectly coordinated products, systems and solutions in the fields of Smart Home, HVAC, renewable energies, room and building automation and energy management.

High quality and unique flexibility

High quality and flexibility as well as reliability and innovative spirit have been the hallmarks of the owner-managed company TEM since 1967. Highly motivated employees develop unique solutions and the use of state-of-the-art manufacturing technologies guarantees a consistently high standard of quality. This gives all TEM customers the assurance that they are always buying high-quality and reliable products.

Extensive know-how and many years of experience

Our decades of experience and comprehensive know-how in electronics production paired with state-of-the-art machinery are at your disposal for the manufacture of your electronic devices. Take advantage of our core competencies in electronics design and electronics manufacturing.



Your EMS-Partner


As a contract manufacturer we also realize your electronics!

We are your ideal partner, if you

- seek consistently high quality
- demanding flexibility and delivery reliability
- prefer short distances
- look for someone who understands your language
- want to have prototypes, pilot/small and large series produced at the same location
- require technical or logistical support
- have IPC-A-610 Class 2 or Class 3 requirements

We have extensive, practical know-how in the relocation of production and products and can therefore also efficiently transfer existing productions or products into our production.

Your orders will be processed cost-effectively by qualified employees at our production site in Hungary.



Highest reliability and quality
according to Swiss standards

PRODUCTION

The main focus of our manufacturing technologies lies in:

- SMD assembly
- THT assembly of leaded components
- assembly of modules and finished devices
- AOI / ICT
- pad printing
- cable manufacturing
- functional test

We procure plastic parts, tools or other mechanical parts through our partner companies.

SMD Assembly

We manufacture on a modern SMD assembly line.

performance capabilities:

- 2D-screen print
- Chip-sizes from 01005, QFP as well as BGA
- single or double sided mounting
- Feeder Types: Tape, Stick, Bulk, Tray
- PCB size maximal 508 x 400 mm (L*W)
- Typical placement performance 27'000 components/hour
- Reflow oven with 10 heating zones and 3 cooling zones
- 3D-AOI inspection



THT Assembly

Not all components can be machined for technical or economic reasons. In our THT assembly the components are completed manually.

A light point supported assembly table is used for complex printed circuit boards.

Our employees are well versed in the requirements of IPC-A-610 Class 2 or Class 3 trained by their own IPC trainers.

We solder lead-free on our wave soldering machine in a continuous nitrogen atmosphere.

Assembly of assemblies and finished devices

In the assembly with Inline test and repair stations, assemblies and finished devices are assembled and tested.

Thanks to our Kanban organisation, we achieve short lead times and a high level of process reliability.

Thanks to short changeover times, we are able to assemble a large variety of variants economically.



Testing

Optimum process quality also includes our experience of when, how and with what tests are required in order to guarantee the desired product quality. Depending on requirements, standards and test planning, we use different test equipment:

- Visual inspection
- automatic optical inspection (AOI)
- Incircuit tester and manual function test
- Customer/product specific simulators
- High-voltage/protective conductor testing
- endurance test

Our own equipment construction department produces test adapters for ICT and functional testing at the customer's request.

Quality

For us, quality means fulfilling all the requirements placed on the products. This required quality is produced in all life phases of a product and is an integral part of every activity of our company. The quality of our products makes you more successful on the market.

We are certified according to the quality assurance system DIN EN ISO 9001:2008. In addition, we fulfil the following guidelines as a contract manufacturer for safety electronics:

- EC Gas Appliances Directive (90/396/EEC) Annex II,3
- Pressure Equipment Directive 97/23/EC Annex III, Module D
- IPC-A-610 Class 2 and Class 3
- eubac



Cable Manufacturing

Our automatic cutting and stripping machine can process with cables and wires with a conductor cross-section of up to 20 mm² (4 AWG) and a diameter of up to 12.5 mm.

At the same time as cutting to length, we can also mark the cable sheaths with an inkjet printer.



Pad Printing

This type of printing enables versatile and cost-effective printing. In addition to labels, all types of symbols can be printed.

Capacity:

- multicoloured
- maximum size 240 x 100 mm

References

We maintain long-term relationships with customers from a wide variety of market segments:

- Safety electronics for gas safety technology (automatic burner controls, valve electronics)
- Controls for monitoring temperature and humidity
- Room controller for ventilation applications
- Control panels for boilers
- Control electronics for laboratory automation
- building automation



OUR SERVICES

We offer a comprehensive range of services from which an individual partial or complete package can be put together to suit the project.

Development

Our consulting and support services include:

- Assistance with component selection
- Assistance with component selection
- Creation of circuit designs and layouts
- Design of equipment and mechanical construction
- Assembly of prototypes
- EMC tests
- Conformity procedure according to CE, UL, CSA



Logistics Support

Our customers benefit from our supplier relationships and our high purchasing volume. We find reliable suppliers or buy directly for them. We also clarify replacement components for you.

Kanban, JIT or VMI at your home country or abroad are our daily routine.

After-Sales-Service

Our own repair department offers you:

- Tailor-made repair concept
- Inspection of failed devices or assemblies
- Repair of defective assemblies/products
- Reports on reason for failure
- Spare parts strategies



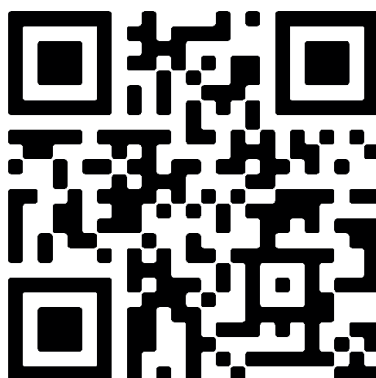


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Your reliable EMS partner

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