



# Liebherr-Electronics and Drives GmbH



## Competence centre for electronics

Liebherr-Electronics and Drives GmbH is specialised in the development, qualification and production of electronic hardware. For more than 40 years, the Liebherr group of companies as well as external customers in numerous fields of application such as aviation, agricultural engineering or construction machinery have been relying on our electronics.

Our portfolio includes:

- Electronics services
- Gateways
- Power electronics
- Human machine interfaces
- Sensors
- Control electronics

# Our Core Competences



## **Fast, economical and reliable**

Electronic components solve increasingly complex automation tasks and enable IoT connection and communication of mobile machines. At the same time, international competition with regard to cost efficiency is intensifying. Innovation cycles are becoming shorter and shorter. Our broadly based team provides smart answers to this dynamic market environment with cross-sector know-how.

### **Our core competencies for your product**

- Developing and manufacturing highly robust components for long-term use
- Cost-optimised production: high diversity and flexibility at low costs for single units to five-digit annual quantities
- Everything from one source: extensive, independent portfolio with a comprehensive service offer, e.g. component management, long-term storage, repair
- Support over the full product life cycle
- Fast delivery thanks to short process times
- Integrated quality management
- Comprehensive testing and qualification services

# Extensive Experience in Manufacturing Processes



## **Specialised in medium and small quantities**

Over 7,000 m<sup>2</sup> for production – our ultra-modern facility in Lindau enables the production of single units up five-digit annual quantities at the highest level:

- PCB mounting and coating
- Assembly
- Testing

## **Variable mounting**

Whether Surface Mount Technology (SMT) or Through Hole Technology (THT) – together with our customers we determine the ideal manufacturing method for the economical and fast production of high-quality electronics.

## **Long service life thanks to surface protection**

After intensive cleaning of the printed circuit boards, a highly resilient surface protection ensures that they last for a long time even in harsh environments.



### **Precise assembly**

Manual work meets automation: The sensible combination of manual and automatic processes in our final equipment assembly ensures precise installation of the components in the end product. Well-organized cellular manufacturing enables highly flexible, fast and qualitatively optimal assembly of your products.

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### **High level of testing for outstanding quality**

A modern test infrastructure is the basis for maximum availability in the field. This is why Liebherr tests every unit produced in detail on request. A high level of testing on circuit boards and terminals ensures the quality of your products. Our tests include end-of-line and environmental tests.



# Industrialisation and Test Center



## Intelligent design for economical production

During product development, production engineers optimise the product in accordance with your wishes. This guarantees low production costs. We offer:

- Industrialisation management
- Test methods and systems
- Production methods



## In-house test centre

Liebherr operates a Test Centre at its Lindau site with testing and measuring technology of the highest standard, also available for your EMS project. Here we realistically reproduce environmental influences – for customers from the aviation, automotive and industrial sectors, among others.

### Overview: Our test services

- Electromagnetic compatibility
- Electrical tests
- Environmental tests
- Vibration tests
- Material analyses / investigations

# A Reliable Partner Beyond Production



We make sure that your products are available at the right time, in the right place and in the quantity and quality you desire.

## **Our services after production**

- Storage
- Logistics
- Traceability
- After Sales Service

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## **Our quality management - for a long product life**

- Quality management system: EN 9100 including ISO/EN/DIN 9001
- Environmental and energy management: ISO 14001 / 50001

Liebherr-Electronics and Drives GmbH is listed with the German Federal Motor Transport Authority (KBA) and fulfils all requirements as a manufacturer of electronic vehicle parts relevant for approval.

We also have approvals from the German Federal Aviation Authority and the Federal Aviation Administration (FAA):

- EASA Part-21 (Subpart G) for production
  - EASA Part-145 for repair
  - US standard FAR-145
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# Electronics Made in Germany



Comprehensive range of electronics services: Liebherr-Electronics and Drives GmbH in Lindau

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