

Our know-how for your product



Production lines

SMD lines (reflow)
THT wave and selective soldering
Partial and final assembly
Fast and highly flexible
High process reliability
Screw control
Poka-Yoke concepts
Press-fit technology, wet sealing
and more...

EMS stands for **Electronics Manufacturing Services** and refers to the complete contract manufacturing of electronic assemblies, devices and systems. From material procurement from material procurement and PCB assembly to the creation and realisation of complex test concepts and qualification through to logistics and after-sales service. We provide you with a complete all-round service throughout the product life cycle.



Supply Chain

Over 1,000 approved and certified suppliers
Direct manufacturer contact
Obsolescence/component management
Lifecycle and risk assessment of parts lists
Long-term supply contracts
Continuous supplier management



Test procedure

SPI: 3D solder paste inspection
AOI and AXI: Automatic optical inspection and X-ray inspection
Flying Prober
ICT and boundary scan
Insulation resistance measurement
Dielectric strength test
Function test



Industrialisation

Design to manufacture
Cost-optimised
Manufacturability
Fast lead time
Focus on quality



Cleaning, potting and surface protection

Potting of complete modules
Potting directly into power electronics housings
Inline painting for high quantities
Water-resistant coating in accordance with aviation standard D0160-G
(Cat Y and Cat W)



Certification

EN 9100 including
ISO/EN/DIN 9001
ISO 14001 / 50001
Federal Motor Transport Authority (KBA)
EASA Part-21 (Subpart G)
EASA Part-145 for repair
US standard FAR-145



Test development

Define test strategy
Test coverage analysis
Test programming and error elimination
Development of test adapters
Development of functional tests (HW+SW)
Reporting, tracing of test data
test data



Service

After-Sales-Services
Traceability
Global Procurement
Warehouse and logistics



Software applications

Xpedition Enterprise
Xpedition EDM Supply Chain
Supplyframe
Valor NPI & PP

More information



www.liebherr.com/ems