Maximum quality – production at LUMITRONIX
Unmatched state-of-the-art production

Our ISO-certified production line has been specially tailored to the requirements of assemblies with LED technology. Nearly one million components can be processed in the production line each day. The overall process can be flexibly adapted to customer requirements and batch sizes and is fully automatic.

- State-of-the-art machinery with the latest technology
- Production of circuit boards up to a length of 600 mm
- Traceability thanks to lasered bar code
- Maximum process safety with fully automated processing
- ISO certification
The laser labelling station fits each circuit board with a consecutive identification or bar code. This enables permanent and manipulation-proof traceability and can be integrated into your quality assurance chain. Individual texts or data such as BiN, date of manufacture or article number can be applied.

- **Individualised labelling for FR4 and aluminium circuit board**
- **Traceability and simplified quality assurance**
- **Saves costs in comparison with labelling**
More than half of all deficient soldering points can be traced back to the paste printing. Our fully automatic soldering paste printer from market leader DEK is the basis of our high process reliability. With the Hawk-Eye paste inspection, we can verify with a precision of a few µm whether the soldering paste is present and has been applied exactly.

- Process-secure printing process for optimal soldering results
- Cycle time of only a few seconds
- State-of-the-art technology from market leader DEK

Soldering paste printer
DEK Horizon 03iX
Automatic placement system
ASM SIPLACE D2i

The SIPLACE D2i is the core of our production and offers state-of-the-art placement technology. It processes over 30,000 components per hour. An upstream scanning system records the serial numbers of the assembly and the data of the parts to be placed. This means you can permanently trace when each component was placed on each circuit board. This is the basic requirement for a traceability system, which is required in the automotive sector, among other applications.

- Full traceability of all production data
- Visioning system recognises twisting, breakage, incorrect position, etc.
- Low placement costs with high delivery rates and reliability

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Steam-phase soldering line

ASSCON VP2000 Inline

The steam-phase soldering line offers a number of advantages over conventional systems. The component heating in an inert gas atmosphere is much gentler and more consistent than in convection ovens. The result is a reliable and optimised soldering pattern with minimal thermal stress. The process also requires less soldering tin, which prevents solder beads, saves money and improves thermal adhesion of the components to the circuit board.

- Reduced risk of cold solder points, bubbles and solder beads
- Consistent soldering pattern
- Lower stress and better thermal bonding of components
Automatic optical 3D inspection
KOHYOUNG ZENITH

Errors can in serial production can be found and sorted out with the 3D-AOI system. Components that are missing or incorrectly mounted, twisted and offset, and contaminated can be reliably recognised. The 4-way projection technology enables the best possible measurement coverage for high resolution.

- World-leading 3D measurement and inspection from KohYoung
- Errors are identified and visualised – The causes are found quickly
- Continuous process monitoring

Real time defect diagnosis
Eliminates shadow problems with 8 way protection
High-accuracy measurement
Do you have any questions? Give us a call.
We would be happy to help