

Delegation from Germany Reviews Industrial Control PCBA Project and Smart Manufacturing at STHL



Shenzhen, Guangdong Aug 19, 2026 ([Issuewire.com](https://www.issuewire.com)) - On August 10, 2026, a delegation of automation engineers from Germany visited Shenzhen STHL Technology Co., Ltd. (STHL) to review an advanced industrial control board development project and evaluate smart manufacturing execution systems on the factory floor.

Instead of starting with a standard factory tour, the visit opened with an in-depth project review meeting. The discussion centered on high-density component placement, design for manufacturing (DFM) guidelines for multi-layer industrial PCBs, and component traceability requirements essential for European industrial certifications.

For STHL, the visit served as an excellent platform to align engineering, component sourcing, and production planning teams with the client's stringent quality standards right from the initial phase.

Technical Alignment Before the Factory Tour

During the collaborative meeting, STHL's engineering team analyzed the client's Gerber files and schematic designs from a strict [Pcb Assembly](#) perspective, offering actionable feedback to optimize solder joint reliability.

Concurrently, the sourcing team evaluated the Bill of Materials (BOM) to verify the lifecycle status and authorized distributor availability of critical industrial-grade microcontrollers and power management ICs.

This joint session demonstrated to the visitors how engineering and supply-chain management operate cohesively under one roof at STHL to mitigate risks before production commences.

From Engineering Discussion to Smart Production Lines

Following the conference room session, the delegation toured STHL's advanced SMT and assembly floors.

On the SMT production line, the visitors observed high-speed placement machines mounting fine-pitch components, [Automated Optical Inspection](#) (AOI) stations, and 3D solder paste inspection (SPI) systems in action. The tour also covered the incoming quality control (IQC) station and the through-hole technology (THT/DIP) soldering lines.

The German engineers showed strong interest in the real-time defect-detection capabilities of the SPI and AOI equipment, linking these floor-level quality controls directly back to the DFM points discussed earlier.

Traceability and MES Integration

Material management and digital traceability were key highlights of the inspection.

In the intelligent component warehouse, the STHL team demonstrated how automated material handling and digital barcodes monitor component inventory levels and expiration dates. Color-coded visual indicators clearly separate inspected, ready-to-use materials from those pending verification.

Furthermore, STHL's Manufacturing Execution System (MES) tracks every production step and material lot, ensuring full end-to-end traceability required for mission-critical industrial applications.

This transparent approach gives overseas clients complete confidence in material readiness and eliminates unexpected bottlenecks during scheduled production runs.

A Partnership Built on Transparency and Technical Rigor

The true value of the visit went beyond observing individual machines; it lay in bridging technical design discussions with live factory execution.

By uniting engineering expertise, robust component sourcing, and transparent smart manufacturing, STHL provides overseas OEM partners with total visibility and accountability throughout the production lifecycle.

STHL sincerely thanks the German delegation for their visit and productive technical exchanges. Every collaborative meeting helps us better understand the rigorous standards expected by global innovators.

We look forward to advancing this project partnership and fostering a stable, long-term cooperation.

Engineering and project teams preparing a new PCBA or [Electronic Manufacturing](#) project are welcome to share their BOM, Gerber files, assembly drawings, and project quantities through **Request a Quote** or contact STHL directly at **info@sthlpcba.com**.



Media Contact

Shenzhen STHL Electronics Co., Ltd.

*****@sthlpcba.com

<https://www.sthlpcba.com/>

Source : Shenzhen STHL Electronics Co., Ltd.

[See on IssueWire](#)