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## Touchless Manufacturing Arrives: Hanwha to Showcase Its Full Automation Ecosystem at APEX EXPO 2026

**CYPRESS, CALIFORNIA – February 2026** – Hanwha Semitech Americas will exhibit in **Booth 1120** at the **2026 APEX EXPO**, taking place **March 17–19 at the Anaheim Convention Center**, where the company will present a bold new vision for electronics manufacturing: a fully automated, touchless production ecosystem that unifies hardware, software, AI, and material logistics into one seamless, intelligent factory platform.



In an era where electronics manufacturing demands unprecedented speed, precision, and traceability, Hanwha's full automation ecosystem delivers end-to-end integration—from SMD to Odd Form, from warehouse to reflow, from planning to shipping—eliminating manual intervention, boosting yield, and enabling true Industry 4.0 manufacturing.

### A Complete Touchless Line: Zero Human Intervention, Maximum Productivity

Hanwha's Touchless Solution integrates every stage of SMT and Odd Form assembly:

- Automated loaders, conveyors, shuttles, and worktables
- HM520 high-speed SMD mounters with HS, MF, and HP heads
- XM520F Odd Form mounters with advanced force control and large component capability

- Laser marking, SPI, AOI, reflow, cooling, and buffering
- MAOI and NG buffer for closed-loop quality control

This end-to-end automation removes operator dependency, reduces handling errors, and ensures consistent, repeatable production quality.

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### Next-Generation Hardware for Next-Generation Products

#### HM520W — Wide SMD Platform for AI-Era Electronics

Designed for large PCBs and heavy components, the HM520W supports:

- PCB sizes up to 940 × 650 mm
- BGA sizes up to 200 × 130 mm
- Warpage sensing and soft placement
- LCR interlock checks
- Side-view defect detection
- Shield can and interposer mounting
- Adjustable nozzles for complex components

#### XM520F — Touchless Odd Form Automation

Built for reliability and flexibility:

- Maximum component size of 150 × 75 mm
- 150N force control for precision insertion
- Laser lead inspection
- 2D/3D ball inspection for BGA
- Pre- and post-bonding inspection
- BGA warpage and full traceability functions

Together, these platforms support advanced manufacturing requirements for AI servers, automotive electronics, networking equipment, and high-density computing modules.

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### Smart Software: The Brain of the Automated Factory

Hanwha's Smart Software Solution connects planning, material flow, production, and quality into a single digital thread.

#### Material & Warehouse Automation

- AMR-based inbound and outbound logistics
- Automated disposal and return management
- Real-time tracking of parts remaining, loss rate, and utilization
- Integration with ERP, MES, and SCM systems

#### Production Intelligence

- Pre-checks for PCB and misplacement
- Automated model changeovers

- Work order synchronization
- Real-time alarms and mobile notifications

#### **Remote Control & Service**

- Video-based troubleshooting
- Remote error recovery
- PC and mobile screen sharing
- IoT-enabled monitoring

This unified software ecosystem ensures every process is traceable, predictable, and optimized.

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#### **AI-Driven Quality: From Inspection to Autonomous Correction**

Hanwha's intelligent T-M2M (Total Machine-to-Machine) solutions close the loop between inspection and placement:

- SPI → Printer: printing offset feedback and automatic parameter adjustment
- AOI → Mounter: mounting offset correction and defect-driven optimization
- AOI → System: defect analytics and repair reporting
- AI chatbot for rapid troubleshooting and recovery

This real-time quality control dramatically reduces defects and stabilizes yield—even in high-mix, high-complexity environments.

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#### **A New Standard for Competitive Manufacturing**

Hanwha's full automation ecosystem is more than a collection of machines—it is a complete transformation of how factories operate. By combining robotics, AI, advanced mounters, and intelligent software, Hanwha enables:

- Higher throughput
- Lower defect rates
- Faster model changeovers
- Reduced labor dependency
- Full traceability
- Predictable, stable production

For manufacturers preparing for the next generation of electronics—including AI servers, EV modules, 5G infrastructure, and HPC systems—Hanwha delivers the automation platform built for the future.

For more information about Hanwha Semitech, visit [www.hanwhasemitech.com/en/](http://www.hanwhasemitech.com/en/)

#### **About Hanwha Semitech Americas:**

Hanwha Semitech Americas is a leading global provider of precision manufacturing and technology solutions. Renowned for its innovative approach and cutting-edge technology, Hanwha Techwin is committed to driving advancements in the electronic manufacturing industry, supporting manufacturers worldwide in their pursuit of global competitiveness.

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