

14 April 2026

Hitachi at SEMICON SEA 2026 – Driving Sustainable Semiconductor Solutions

Hitachi will participate in SEMICON Southeast Asia ([SEMICON SEA 2026](#)) to address key challenges the semiconductor industry is facing today and to answer the pressing question of **“What’s next in sustainable semicon manufacturing?”**

Through innovations such as autonomous mobile robot (AMR), automation, equipment front-end modules (EFEMs) and oil-free compressed air systems, Hitachi is helping chipmakers accelerate decarbonisation across global manufacturing operations.

At SEMICON SEA 2026, Hitachi will showcase a comprehensive suite of semiconductor capabilities across two pillars—**Materials / Logistics** and **Production**—to enhance the operational efficiency of semiconductor fabrication facilities sustainably:

- 1. Materials / Logistics (Booth 2583):** Hitachi enhances the supply and value chain network through the sourcing of sustainable materials. With Autonomous Mobile Robot (AMR) solutions, logistics efficiency is improved both in cleanroom fabrication environments and across semiconductor plant compounds.
- 2. Production (Booth 2583 & 2102):** Hitachi advances key processes across both front-end and back-end production. By meeting stringent standards and regulations, Hitachi’s solutions — including automation, AMR, process and metrology equipment and oil-free compressors — contribute to a more sustainable semiconductor manufacturing ecosystem.

To give visitors the ultimate hands-on experience, the latest EFEM model, hLFF EFEM, will be on display at the Hitachi Group Company, JR Automation (JRA) booth (booth 2102). Visitors can gain practical knowledge on how to use the unit to support next-generation process-handling to meet the ever-changing demands of the chips design through live demonstrations.

Hitachi Solutions at a Glance

Material / Logistics	
Solutions	About
Integrated VC/SC & Manufacturing Enablement Solution <ul style="list-style-type: none"> Value & Supply Chains Solutions 	Integrated value chain and supply chain services —materials trading, inventory, and logistics—enhanced by process solutions to support advanced semiconductor manufacturing.

<p>AMR-Elevator Integrated Solution</p> <ul style="list-style-type: none"> • <i>Autonomous Mobile Robot (AMR) Solutions</i> 	<p>Serves as a key enabler of smart factories by utilizing advanced automation and autonomous navigation within the factory grounds, reducing human error, enhancing productivity, and providing reports for traceability.</p>
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Production	
Solutions	About
<p>Nano & Core Technology Solutions</p> <ul style="list-style-type: none"> • <i>Process & Metrology Equipment</i> • <i>Electron Microscopes</i> 	<p>Process and metrology equipment (Etcher, CD-SEM, SEM, etc.) designed to meet stringent process requirements and deliver high-quality outputs. Available in various configurations to support advanced operational needs.</p>
<p>Equipment Front End Module (EFEM)</p> <ul style="list-style-type: none"> • <i>AGV/AMR Implementation</i> 	<p>Hitachi is a leading provider of fully GEM300-compliant panel EFEMs, customized to meet the specific needs of process tools, including lithography, plasma treatment, edge coating, laser, and shipping preparation tools. We offer a single-wire SECS/GEM link to the Host Controller, connecting both GEM300 and non-GEM300 compliant tools within the same production line.</p>
<p>Automation Solutions</p> <ul style="list-style-type: none"> • <i>Consumer Electronics Automation</i> • <i>Warehouse Automation</i> • <i>Life Sciences Automation</i> 	<p>With core competencies across various engineering disciplines, Hitachi provides high-speed, high-precision solutions, including turnkey automation, customized assembly equipment, feasibility studies, and build-to-print equipment. We have a strong track record in industries such as semiconductor, electronics, and medical device manufacturing.</p>
<p>Compressed Air Products & Solutions</p>	<p>Our oil free screw air compressors deliver ultra clean, reliable compressed air for semiconductor applications. Available in capacities ranging from 15–450 kW and Class 0 certified, our compressors optimize energy efficiency, enhance productivity, and reduce operating costs for sensitive manufacturing processes. Complementing this, our IoT powered compressed air monitoring solutions further improve performance and reliability through real time monitoring, intelligent alerts, and comprehensive failure history tracking, enabling continuous optimization and proactive maintenance.</p>
<p>IoT Solutions</p>	<p>HX2 Industrial IoT Controller simplifies industrial data collection with a built-in relational database concept. With program less configuration, users can quickly modify database tables and set up data collection with minimal engineering effort, enabling faster and more reliable OT data management while simplifying OT-IT integration.</p>

End of Media Factsheet

Participating Hitachi Group Companies

Hitachi Asia Ltd.
Hitachi High-Tech Singapore
JR Automation

Booth Information at SEMICON SEA 2026

Date & Time: 10am – 5pm (5 – 6 May), 10am – 4pm (7 May)
Hitachi Booth @ 2583
JR Automation @ 2102
Location: Level 2, Hall 6, MITEC, Kuala Lumpur, Malaysia

Media Contact

Eunice Ang
eunice.ang.gs@hitachi.com

About Hitachi Asia Ltd.

Hitachi Asia Ltd., (Hitachi Asia) a subsidiary of Hitachi, Ltd., is headquartered in Singapore. With offices across seven ASEAN countries Indonesia, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Vietnam – Hitachi Asia and Hitachi’s subsidiary companies offer IT, OT (Operational Technology) and products to support customers in their transformation journeys. We will contribute to the growth in the ASEAN region by co-creating with customers to identify the social challenges and needs and deliver the solutions. For more information on Hitachi Asia, please visit the company’s website at <https://www.hitachi.com/en-sea>.

Information contained in this media factsheet is current as of the date of the announcement but may be subject to change without prior notice.