

September 17, 2026
Sumitomo Wiring Systems, Ltd.

Sumitomo Wiring Systems and U.S.-Based Skild AI Launch Joint Development of Physical AI Robots for Wire Harness Manufacturing

Sumitomo Wiring Systems, Ltd. (Headquarters: Yokkaichi, Mie, Japan; Representative Director: Kenichi Urushihata; hereinafter, "Sumitomo Wiring Systems") has announced the launch of a joint development initiative for physical AI robots for the manufacturing of wire harnesses in collaboration with Skild AI, Inc. (Headquarters: California, U.S.; hereinafter, "Skild AI").



■ Background and Objectives

Wire harness manufacturing involves numerous complex processes, which conventional robotic technologies have historically struggled to replace, resulting in a long-standing reliance on manual labor.

In the Sumitomo Wiring Systems Group's "2030 VISION" Mid-Term Management Plan 2028," formulated in 2026, Sumitomo Wiring Systems has set forth a policy to realize its "Smart Factory" concept through the use of AI and enhance decision-making capabilities and speed across all operations.

To achieve this concept, Sumitomo Wiring Systems is developing and conducting on-site verifications of physical AI robots—next-generation robots equipped with advanced AI capabilities that work flexibly in collaboration with humans.

■ Initiatives with Skild AI

Skild AI is a U.S.-based startup originating from Carnegie Mellon University, that develops and provides a general-purpose robotics foundation model called "Skild Brain," which is hardware-independent.

In this joint development, Sumitomo Wiring Systems will introduce Skild AI's latest model, "S1," which incorporates Skild AI's state-of-the-art learning techniques. This will enable robots to learn a wide range of tasks in a short time and respond flexibly to complex tasks. Sumitomo Wiring Systems and Skild AI are also working to develop a system that enables robots to learn autonomously.

By actively utilizing the physical AI robots developed through this initiative, Sumitomo Wiring Systems aims to realize smart factories for wire harness manufacturing.

End

—For your reference:—

- [Announcement of Sumitomo Wiring Systems Group's "2030 VISION Mid-Term Management Plan 2028"](#)
- Skild AI Official Website: [The Hidden Pillar of Robotics | Skild AI](#)
- [Release on the Development of Multi-AI Agents](#)