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Sumitomo Wiring Systems, Ltd.

Sumitomo Wiring Systems Advances Its Smart Factory Concept Through the Collaboration of AI Agents and Physical AI Robots

Sumitomo Wiring Systems, Ltd. (Headquarters: Yokkaichi, Mie, Japan; Representative Director: Kenichi Urushibata; hereinafter, “Sumitomo Wiring Systems”) has begun full-scale efforts to build next-generation manufacturing facilities. Through the use of AI image analysis, physical AI robots, and multi-AI agents, the company aims to further advance the manufacturing of wire harnesses and realize the Smart Factory concept set forth in its “2030 VISION and Mid-Term Management Plan 2028.”

■ Background and Objectives

Wire harnesses, often referred to as the “blood vessels and nerves” of automobiles, have long been manufactured through a globally established, labor-intensive production system due to their complex structures.

At the same time, there is growing need to build production systems that can respond flexibly to changes in the manufacturing environment, including rising geopolitical risks, logistics costs, and labor expenses.

By utilizing AI and robots to reduce the burden on human workers and building a system that enables efficient, high-quality production anywhere in the world, Sumitomo Wiring Systems aims to promote local production for local consumption, strengthen supply chain resilience, and create new value.

■ Specific Initiatives

As part of its 2030 Smart Factory concept, Sumitomo Wiring Systems aims to create an “autonomously controlled factory that realizes the ultimate unmanned lines and collaborative lines where humans and robots collaborate” To this end, the company has begun collaborating with Skild AI on the development of physical AI robots and with ExaWizards Inc. on the development of multi-AI agents. By integrating data related to equipment, processes, logistics, and quality, the company aims to improve productivity, reduce labor requirements, and enhance quality.

Furthermore, by linking digital spaces with actual factories, Sumitomo Wiring Systems is working to establish a next-generation manufacturing model in which humans and AI collaborate. This model combines AI-driven optimal decision-making with autonomous operations by robots. The company’s related initiatives are described in the press releases below.

[Smart Factory Concept Image]



The company also explains the specific steps and phases through which it plans to implement this concept at actual manufacturing sites, toward its realization by 2030. Please refer to the following for more information.

- [Announcement of Sumitomo Wiring Systems Group's "2030 VISION Mid-Term Management Plan 2028"](#)
- [Release on the Development of Multi-AI Agents](#)
- [Release on the Development of Physical AI Robots](#)

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