Shanghai Electric showcases embodied intelligence robot matrix and AI-native smart factory solutions at WAIC 2026

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Featuring humanoid robots with 41 degrees of freedom, pipeâ??inspection robots with Â±1mm positioning accuracy, and 51 industrialâ??grade AI agents

SHANGHAI, July 24, 2026 /PRNewswire/ â?? Operations in high-end equipment manufacturing often involve confined spaces, complex objects, and fine manipulation tasks that demand sustained and stable precision. At the recent 2026 World Artificial Intelligence Conference and High-Level Meeting on Global AI Governance (WAIC 2026), Shanghai Electric (SEHK: 02727, SSE: 601727) showcased its comprehensive portfolio of embodied intelligence solutions tailored to a range of industrial scenarios.

Themed â??AI for All: Smart Squad, Shining Without Limits,â?• Shanghai Electric highlighted its capabilities across embodied AI robots, robot core components, and AI-native smart factory solutions, demonstrating end-to-end capabilities spanning complete robot systems, critical parts, industrial software, and smart factory architecture.

â??The true value of embodied intelligence lies in understanding real industrial tasks: combining the strength, precision, and stability of machines with human experience and judgment to drive a genuine paradigm of â??machine-assisted, human-machine collaboration,'â?• said Wang Chunlei, deputy general manager of the Robotics Business Unit at Shanghai Electric Automation Group.

Shanghai Electricâ??s robotics portfolio covers five key industrial scenarios: connector insertion, electrical operations, flexible sorting, intelligent assembly, and pipe processing. Highlights include:

Shanghai Electric also showcased its portfolio of core components ranging from power-output to end effectors. Among them, the planetary roller screw offers more than three times the load capacity of traditional ball screws, while the DexHand dexterous hand is designed to meet diverse gripping and manipulation requirements.

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Shanghai Electric launched 51 AI models and agents under its â??StarCloud Intelligent Manufacturingâ?• series across three domains: R&D and design, production and manufacturing, and operations and maintenanceâ??covering critical equipment processes such as process optimization and wind power facility maintenance.

These industrial agents are embedded in robotic decision-making systems and the operational logic of AI-native smart factories, transforming industrial expertise into digitized, reusable capabilities. They support production-line scheduling, quality inspection, and predictive maintenance, driving the evolution of manufacturing systems from experience-driven to data-driven operations.

Shanghai Electric also released the â??AI-Native Smart Factory Technology White Paper,â?• proposing an active evolution architecture that enables realâ??time, closedâ??loop optimization of production data, giving the factory selfâ??perception, selfâ??decision, and selfâ??execution capabilities. Built on First Principles, the AIâ??native smart factory vertically integrates process flows, industrial software, agents, and smart equipment to dismantle traditional hierarchies while horizontally bridging data silos. The architecture features three core layers: the AI factory brain as the â??control center,â?• industrial agents and embodied robots as the â??execution network,â?• and the physical twin as the â??digital mirror.â?•

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Leveraging its deep industrial expertise and comprehensive solution capabilities, Shanghai Electric will continue to drive the implementation of AI in industrial settings, tackle technical challenges facing embodied intelligence in complex scenarios, accelerate the largeâ??scale deployment of AIâ??native smart factories, and deliver replicable solutions across diverse manufacturing environments.

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