

NEWS | FUTURE OUTLOOK

Vention Unveils AI-Defined Automation Platform Combining Physical AI and Agentic AI

At IMTS 2026, Vention will showcase MachineAgent and Physical AI capabilities that enable faster automation design, deployment, operation and scaling.

By **Ankit Kankar** | September 13, 2026

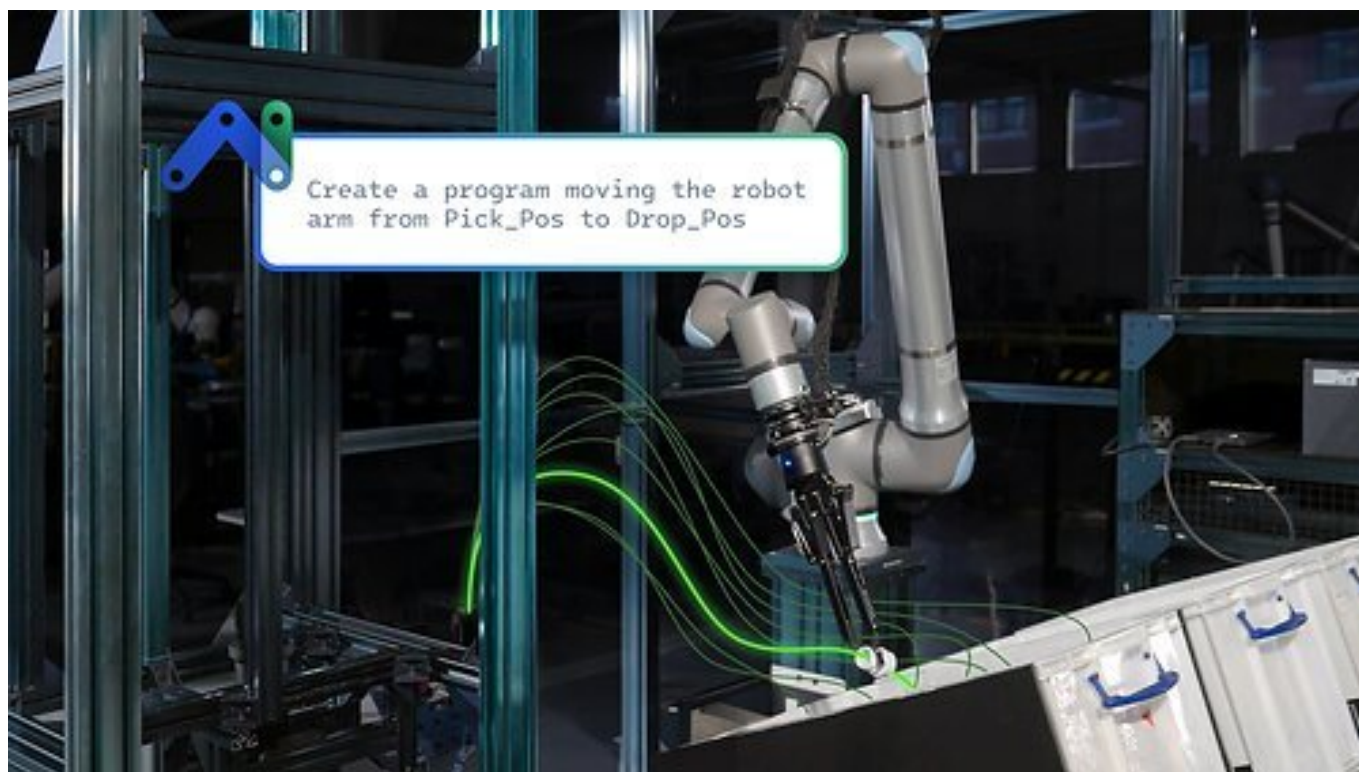


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- Unified industrial automation platform combines two complementary layers of intelligence: Physical AI for robotics and machines, and Agentic AI for the system.
- Live at Booth 236860 (Sept 14–19): Experience the new MachineAgent agentic cell, delivering an interactive, end-to-end automated workflow for machine design, programming, deployment, and troubleshooting.
- Live Physical AI demonstrations include Rapid Operator AI deep bin picking and goal-driven collision-free path planning, showcasing autonomous perception, grasping, and robotic motion powered by GRIIP.

At IMTS 2026, Vention will unveil new Physical AI and Agentic AI capabilities together for the first time on a single automation platform. Combining both levels of intelligence makes automation faster to deploy, easier to operate, and simpler to scale.

"AI is changing what manufacturers should expect from automation," said Etienne Lacroix, founder and CEO of Vention. "Physical AI gives machines the ability to understand and adapt to the factory floor. Agentic AI brings that same intelligence to the people designing, programming, and operating automation. Bringing both together on one platform hasn't been done before, and we look forward to letting our booth visitors see firsthand how they can use these capabilities to simplify deployment, operation, and scaling of their automated systems."

AI-Defined Automation will combine two layers of artificial intelligence: Agentic AI will make automation accessible and faster to deploy. Physical AI will make the machines within that automated system increasingly autonomous, adaptable, and efficient.

Vention's AI-Defined Automation vision is a future in which AI is embedded at every level of the ecosystem. Today, Agentic AI operates at the system level, using natural language and AI agents to help manufacturers design automation cells, generate industrial programs, and monitor and troubleshoot deployed systems. In parallel, Physical AI operates at the machine level. It powers robots to perceive, understand, and act on the physical world through AI vision, intelligent motion planning, and autonomous decision-making.

Physical AI helps manufacturers tackle major automation hurdles like complexity, variability, and the gap in specialized engineering expertise. The technology behind Physical AI allows robots to perceive

objects, plan their movements, and adjust to the unpredictability of the real world.

This makes automation easier to adapt and deploy, and makes automation accessible to a wider range of manufacturers. With Physical AI, companies can make their production lines more efficient and flexible, which, in turn, means increased productivity and a competitive edge.

Vention enables these software and hardware functions through its unified automation platform, connecting digital design, simulation, AI vision, programming, motion control, modular hardware, robotics, and cloud connectivity.

Vention's next-generation controller, MachineMotion™ AI is the core that supports this new wave of automation. Powered by NVIDIA Jetson and NVIDIA Isaac, CUDA-accelerated libraries, and open models including NVIDIA FoundationPose, the technology is exclusive to Vention and will power its entire IMTS booth.

MachineAgent: Agentic AI Across the Automation Lifecycle

At IMTS, Vention will debut the Agentic-AI-powered MachineAgent. Through plain-language prompts, the technology generates automation layouts, creates industrial automation programs, and analyzes operating data from deployed machines.

At the booth, visitors will be able to use MachineLogic Copilot to program a physical UR3 robotic cell through Vention's cloud platform, as well as run an agentic developer workflow using Claude Code, Vention CLI, and Developer Toolkit 2.0.

Guests can also use AI to analyze equipment performance data and logs across a fleet of deployed machines, identify an underperforming system, diagnose operational issues, and receive real-time remediation guidance.

AI-Defined Automation in Action at IMTS 2026

Visitors to Vention's booth can experience six live demonstrations:

- **Rapid Operator AI with UR12e:** AI-powered deep bin picking using Vention's GRIIP™ software and NVIDIA Isaac foundation models for real-time part detection, 6-DoF pose estimation, collision-free path planning, and adaptive retry logic, delivering up to 99% first-pick success rates.

- **Collision-Free Path Planning with FANUC LR Mate:** Goal-driven robotic motion using on-arm vision, a digital twin, and AI motion planning to generate collision-free paths autonomously without manually programming intermediate waypoints.
- **MachineAgent with UR3:** Agentic AI across Design, Program, and Operate, including AI-generated cell designs, industrial programming, digital twin simulation, physical deployment, fleet analysis, and troubleshooting.
- **Overhead Range Extender with UR20:** A seventh-axis system demonstrated in a live welding application, extending robot reach for applications including welding, machine tending, assembly, and long conveyor lines.
- **MachineMotion AI Daisy Chain:** A single MachineMotion AI controller powering multiple motors and actuators, with the functionality to daisy chain up to 20 motors through a cabinet-free architecture.
- **Click & Customize Machine Tending with FANUC CRX-10iA:** Configurable CNC loading and unloading programmed through MachineLogic.

Read online: <https://worldbusinesswatch.com/news/11/115/vention-unveils-ai-defined-automation-platform-combining-physical-ai-and-agentic-ai.html>

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