ADVANTECH
Enabling an Intelligent Planet

Advantech Presents Nexustec's TRiMiTi Demo Station Showcasing Advanced Features at the Advantech Innovation Hub

May 28th 2025, Munich, Germany - Nexustec GmbH and Advantech collaborate to drive manufacturing innovation with Nexustec's TRiMiTi-Software running on Advantech hardware

Nexustec GmbH is a global player in software-based process control and quality assurance, ensuring zero defects in both manual and automated manufacturing. We are excited to announce the launch of the advanced demo station at the Advantech Innovation Hub in Germering/ Munich. This initiative highlights the shared commitment of both companies to revolutionize manufacturing processes with TRiMiTi's AI-driven solutions.

The AI-based process control software, equipped with vision detection, understands manufacturing activities and identifies deviations from the planned serial workflow. Errors are automatically detected, and workers are promptly informed of mistakes while being guided through the next steps. Additionally, the software acts as a central hub, seamlessly integrating all machines, manufacturing tools, and existing software within a production plant to ensure comprehensive process control.

About Advantech: Advantech Europe, a leader in industrial IoT and embedded computing, operates a prominent Innovation Hub in Germering, near Munich. This facility serves as a collaborative platform where solution providers, customers, suppliers, universities, and software partners converge to explore and develop cutting-edge technologies. The hub offers immersive experiences that bridge hardware and software, facilitating the creation of intelligent and sustainable solutions for various industries.

About Nexustec & TRiMiTi: Nexustec has rapidly gained recognition for its innovative contributions to Industry 4.0 solutions. The company's flagship product, TRiMiTi, is a software-based logic controller (SLC) designed to transform industrial digitization. Unlike traditional process control approaches for manufacturing, TRiMiTi offers unparalleled configurability and seamless integration with existing production setups. Its features enable companies to transition smoothly to and comply with Industry 4.0 requirements, achieving

- Zero Defects and First Time Right manufacturing
- Full Transparency & Traceability
- Integration of various manufacturing tools and workflows and
- Strategic Digitization solutions for SMEs & big corporations.

Demo Station Features: The new demo station focuses on TRiMiTi's capabilities in two key areas:

1. **Automated Object Inspection & Measurement:** Leveraging advanced computer vision and AI, TRiMiTi ensures real-time detection of defects, including broken parts, cracks, and deviations. Its seamless integration with Manufacturing Execution Systems (MES & ERP) guarantees smooth operations and accurate data collection.
2. **Packaging Assistant:** Designed to optimize manual packing processes, this feature ensures all components are packed correctly and efficiently, maintaining compliance with customer requirements while streamlining logistics.

Both applications are driven by one and the same high-performance device called MIC-770 V3. This compact, fanless industrial computer is designed for edge computing and AI inference applications. It supports Intel® 12th, 13th and 14th gen Core™ I processors and offers flexible expansion options, making it suitable for various industrial environments.

Benefits and Market Position:

In a young but rapidly growing market for AI-based process control and quality assurance in manufacturing, Nexustec stands out with TRiMiTi's innovative approach. The system addresses key trends such as increased adoption of AI and provides solutions for several industries, such as medical technology, automotive, aviation, and electronics.

Future Goals:

Nexustec and Advantech are going to explore new business fields that will drive industry-wide competitiveness and deliver sustainable growth for industrial customers.

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About Advantech

Advantech is a global leader in IoT intelligent systems and embedded platforms, with the corporate vision of "Enabling an Intelligent Planet." To embrace the trends of edge computing and artificial intelligence, Advantech will fully deploy its sector-driven strategy and focus on Edge Computing and Edge AI, targeting five key markets: Edge Intelligence Systems, Smart Manufacturing, Energy and Utilities, iHealthcare, and iSpace & iRetail. In the meantime, Advantech is enhancing its global presence and core competitiveness by integrating its Edge Computing hardware platform, the WISE-IoT software platform, and sector-specific Edge AI solutions with domain expertise. The integration will form an "Orchestration" model for seamless industrial chain connections, benefiting both our partners and clients. Advantech is also working with business partners to co-create business ecosystems that accelerate the goal of industrial intelligence. (www.advantech.com)